

17.4.98

SL 4238-1

Long

09:43 04/17/98

12 CODE 0000000004 WTL .0070 CAL#1  
CARBON 3.0099% SULFUR .00004%  
OXYGEN FLOW 3.340

-C- -S-

BLANK + .00000 + .00000

TIME 40. 30.

PEAK 6723. 0.

STAN 0.6020 0.8981

K FRC. 1.0253 1.0333

09:44 04/17/98

12 CODE 0000000005 WTL .0040 CAL#1  
CARBON 3.0161% SULFUR .00007%  
OXYGEN FLOW 3.339

-C- -S-

BLANK + .00000 + .00000

TIME 40. 30.

PEAK 6894. 0.

STAN 0.6020 0.8981

K FRC. 1.0249 1.0330

09:45 04/17/98

12 CODE 0000000006 WTL .0010 CAL#1  
CARBON 3.0226% SULFUR .00002%  
OXYGEN FLOW 3.337

-C- -S-

BLANK + .00000 + .00000

TIME 40. 30.

PEAK 9683. 0.

STAN 0.6020 0.8981

K FRC. 1.0247 1.0328

\*\*\* CLEAVING TIME \*\*\*

09:47 04/17/98

12 CODE 0000000007 WTL .0040 CAL#1  
CARBON 3.0227% SULFUR .00006%  
OXYGEN FLOW 3.335

-C- -S-

BLANK + .00000 + .00000

TIME 40. 30.

PEAK 7288. 0.

STAN 0.6020 0.8981

K FRC. 1.0246 1.0324

09:48 04/17/98

12 CODE 0000000008 WTL .9990 CAL#1  
CARBON 3.0228% SULFUR .00006%  
OXYGEN FLOW 3.336

-C- -S-

BLANK + .00000 + .00000

TIME 40. 30.

PEAK 8711. 0.

STAN 0.6020 0.8981

K FRC. 1.0251 1.0331

\*\*\* STACK CALIBRATION \*\*\*

09:49 04/17/98

| 12         | CODE   | WEIGHT | CARBON% | SULFUR% |
|------------|--------|--------|---------|---------|
| 0000000008 | 0.9990 | 0.8126 | .00006  |         |
| 0000000007 | 1.0040 | 0.8077 | .00006  |         |
| 0000000006 | 1.0010 | 0.8226 | .00002  |         |
| 0000000005 | 1.0040 | 0.8141 | .00007  |         |
| 0000000004 | 1.0070 | 0.8099 | .00004  |         |
| 0000000003 | 0.1000 | 12.86  | .00076  |         |
| 0000000002 | 0.1000 | 11.83  | .00027  |         |
| 0000000001 | 0.1000 | 11.75  | .00067  |         |
| 0000000000 | 0.0000 | 3.821  | .00090  |         |
| 0000000009 | 0.1016 | 11.64  | .00055  |         |

17.4.98

SL 4238-1

Long

#4 CUT-SEQ BEGUN \*\*\*  
09:00 04/17/98ID CODE 000000016 WT0.0000 CBL#1  
CARBON 0.2442% SULFUR .000052%  
OXYGEN FLOW 3.336  
-C- -S-0.818 BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8686. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0251 1.0326  
\*\*\* CUT-SEQ BEGUN \*\*\*  
09:02 04/17/98ID CODE 000000017 WT0.0000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.335  
-C- -S-0.818 BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8789. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0249 1.0330  
09:03 04/17/98ID CODE 000000018 WT0.0000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.334  
-C- -S-0.818 BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 13080. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0247 1.0328  
09:05 04/17/98ID CODE 000000011 WT0.0520 CBL#1  
CARBON 0.2442% SULFUR .001172%  
OXYGEN FLOW 3.333  
-C- -S-WST BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 2335. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0246 1.0327  
09:06 04/17/98ID CODE 000000018 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.334  
-C- -S-58 dd BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 649. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0247 1.0328  
09:08 04/17/98ID CODE 000000019 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.332  
-C- -S-603 BLANK +.000000 +.000000  
TIME 51. \* 30.  
PEAK 106. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0241 1.0325  
-C- -S-09:09 04/17/98  
ID CODE 000000020 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.330  
-C- -S-608 BLANK +.000000 +.000000  
TIME 43. 30.  
PEAK 236. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0235 1.0316  
09:11 04/17/98ID CODE 000000021 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.330  
-C- -S-613 BLANK +.000000 +.000000  
TIME 30. 30.  
PEAK 228. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0237 1.0321  
09:12 04/17/98ID CODE 000000022 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.330  
-C- -S-618 BLANK +.000000 +.000000  
TIME 53. 30.  
PEAK 228. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0249 1.0316  
09:14 04/17/98ID CODE 000000023 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.329  
-C- -S-623 BLANK +.000000 +.000000  
TIME 50. 30.  
PEAK 228. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0239 1.0314  
09:15 04/17/98ID CODE 000000024 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.329  
-C- -S-628 BLANK +.000000 +.000000  
TIME 41. 30.  
PEAK 280. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0242 1.0314  
09:17 04/17/98ID CODE 000000025 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .000062%  
OXYGEN FLOW 3.328  
-C- -S-633 BLANK +.000000 +.000000  
TIME 47. 30.  
PEAK 312. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0240 1.0317

CARBON STD % 99.8188  
 OLD C-CAL -1- 0.6020  
 INCLUDE CARBON  
 0000000008 0.8126  
 0000000007 0.8077  
 0000000006 0.8226  
 0000000005 0.8141  
 0000000004 0.8099  
 NEW C-CAL -1- 0.6054

08:49 04/17/98

ID CODE WEIGHT CARBON% SULFUR%  
 0000000009 9.9999 0.8172 .00006  
 0000000007 1.8040 0.8123 .00006  
 0000000006 1.0019 0.8273 .00002  
 0000000005 1.0040 0.8187 .00007  
 0000000004 1.0079 0.8145 .00004  
 0000000003 0.1000 12.13 .00076  
 0000000002 0.1000 11.90 .00027  
 0000000001 0.1000 11.81 .00067  
 0000000000 0.0500 3.843 .00090  
 0000000009 0.1010 11.70 .00055

\*\*\* END CALIBRATION \*\*\*

08:51 04/17/98

ID CODE 0000000009 UT1.0010 CAL#1  
 0000000000 0.8172% SULFUR .000024  
 OXYGEN FLOW 3.339  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9306. 0.  
 CALIB. 0.6054 0.8981  
 K FRC. 1.0257 1.0331  
 \*\*\* OUT-SEQ BEGUN \*\*\*

08:52 04/17/98

ID CODE 0000000012 UT0.9970 CAL#1  
 0000000000 0.8182% SULFUR .000041  
 OXYGEN FLOW 3.338  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9864. 0.  
 CALIB. 0.6054 0.8981  
 K FRC. 1.0255 1.0336  
 \*\*\* OUT-SEQ BEGUN \*\*\*

08:54 04/17/98

ID CODE 0000000013 UT1.0030 CAL#1  
 0000000000 0.8182% SULFUR .000061  
 OXYGEN FLOW 3.339  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 10320. 0.  
 CALIB. 0.6054 0.8981  
 K FRC. 1.0251 1.0330

\*\*\* OUT-SEQ BEGUN \*\*\*

08:56 04/17/98

ID CODE 0000000014 UT1.0020 CAL#1  
 0000000000 0.8182% SULFUR .000012  
 OXYGEN FLOW 3.336  
 -C- -S-

0.818

Std

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9236. 0.  
 CALIB. 0.6054 0.8981  
 K FRC. 1.0245 1.0331

\*\*\* OUT-SEQ BEGUN \*\*\*

08:58 04/17/98

ID CODE 0000000015 UT1.0020 CAL#1  
 0000000000 0.8182% SULFUR .000062  
 OXYGEN FLOW 3.335  
 -C- -S-

0.818

Std

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9276. 0.  
 CALIB. 0.6054 0.8981  
 K FRC. 1.0244 1.0324

\*\*\* STOCK CALIBRATION \*\*\*

08:59 04/17/98

ID CODE WEIGHT CARBON% SULFUR%  
 0000000015 1.0020 0.8180 .00006  
 0000000014 1.0020 0.8196 .00001  
 0000000013 1.0020 0.8262 .00006  
 0000000012 0.9978 0.8239 .00004  
 0000000010 1.0010 0.8252 .00002  
 0000000009 0.9990 0.8172 .00006  
 0000000007 1.0040 0.8123 .00006  
 0000000006 1.0010 0.8273 .00002  
 0000000005 1.0040 0.8187 .00007  
 0000000004 1.0070 0.8145 .00004

CARBON STD % 99.8188  
 OLD C-CAL -1- 0.6054  
 INCLUDE CARBON  
 0000000015 0.8180  
 0000000014 0.8196  
 0000000013 0.8262  
 0000000012 0.8238  
 0000000009 0.8252  
 NEW C-CAL -1- 0.6021

08:59 04/17/98

ID CODE WEIGHT CARBON% SULFUR%  
 0000000015 1.0020 0.8135 .00006  
 0000000014 1.0020 0.8151 .00001  
 0000000013 1.0020 0.8216 .00006  
 0000000012 0.9979 0.8192 .00004  
 0000000010 1.0010 0.8207 .00002  
 0000000009 0.9993 0.8126 .00006  
 0000000007 1.0040 0.8078 .00006  
 0000000004 1.0010 0.8227 .00002  
 0000000005 1.0040 0.8142 .00007  
 0000000003 1.0070 0.8109 .00004

\*\*\* END CALIBRATION \*\*\*

17.4.98

SL 4238-1

Long

ID CODE C000000036 WTB.1000 CAL#1  
 CARBON 0.3456% SULFUR .00052%  
 OXYGEN FLOW 3.326  
 -C- -S-

*663*  
 BLANK +.000000 +.000000  
 TIME 51. 30.  
 PEAK 212. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0312  
 09:39 04/17/98

ID CODE C000000037 WTB.1000 CAL#1  
 CARBON 0.3456% SULFUR .00052%  
 OXYGEN FLOW 3.326  
 -C- -S-

*668*  
 BLANK +.000000 +.000000  
 TIME 51. 30.  
 PEAK 232. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0309  
 09:40 04/17/98

ID CODE C000000038 WTB.1000 CAL#1  
 CARBON 0.3362% SULFUR .00033%  
 OXYGEN FLOW 3.326  
 -C- -S-

*673*  
 BLANK +.000000 +.000000  
 TIME 41. 30.  
 PEAK 368. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0314  
 09:42 04/17/98

ID CODE C000000039 WTB.1000 CAL#1  
 CARBON 0.3457% SULFUR .00039%  
 OXYGEN FLOW 3.321  
 -C- -S-

*678*  
 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 484. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0242 1.0317  
 09:43 04/17/98

ID CODE C000000040 WTB.1000 CAL#1  
 CARBON 0.3325% SULFUR .00014%  
 OXYGEN FLOW 3.327  
 -C- -S-

*683*  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 656. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316  
 09:45 04/17/98

ID CODE C000000041 WTB.1000 CAL#1  
 CARBON 0.4957% SULFUR .00015%  
 OXYGEN FLOW 3.326  
 -C- -S-

*688*  
 BLANK +.000000 +.000000  
 TIME 45. 30.  
 PEAK 494. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0309

ID CODE C000000042 WTB.1000 CAL#1  
 CARBON 0.4137% SULFUR .00068%  
 OXYGEN FLOW 3.326  
 -C- -S-

*693*  
 BLANK +.000000 +.000000  
 TIME 59. 30.  
 PEAK 376. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0228 1.0309  
 09:47 04/17/98

ID CODE C000000043 WTB.1000 CAL#1  
 CARBON 0.4360% SULFUR .00053%  
 OXYGEN FLOW 3.326  
 -C- -S-

*698*  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 456. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0228 1.0309  
 09:49 04/17/98

ID CODE C000000044 WTB.1000 CAL#1  
 CARBON 0.3427% SULFUR .00044%  
 OXYGEN FLOW 3.326  
 -C- -S-

*58 std*  
 BLANK +.000000 +.000000  
 TIME 48. 30.  
 PEAK 488. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0234 1.0314  
 09:58 CLEANING TIME #44  
 09:59 04/17/98

ID CODE C000000047 WTB.0000 CAL#1  
 CARBON 0.6167% SULFUR .00001%  
 OXYGEN FLOW 3.324  
 -C- -S-

*0,818*  
 BLANK +.000000 +.000000  
 TIME 49. -30.  
 PEAK 8490. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0230 1.0305  
 09:52 04/17/98

ID CODE C000000048 WTB.0020 CAL#1  
 CARBON 0.8191% SULFUR .00006%  
 OXYGEN FLOW 3.321  
 -C- -S-

*0,818*  
 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 7298. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0225 1.0300  
 09:53 04/17/98

ID CODE C000000049 WTB.1000 CAL#1  
 CARBON 11.91% SULFUR .00096%  
 OXYGEN FLOW 3.327  
 -C- -S-

*CaCO<sub>3</sub>*  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 14906. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316

long

SL 4238 -

17.4.98

09:18 04/17/98  
 ID CODE: C000000026 WTB, 1000 CAL#1  
 CARBON 0.3367% SULFUR .000022%  
 OXYGEN FLOW 3.328  
 -C- -S-  
 638 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 304. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0312  
 \*\*\* CLEANING TIME \*\*\*

09:20 04/17/98  
 ID CODE: C000000027 WTB, 1000 CAL#1  
 CARBON 0.3374% SULFUR .000042%  
 OXYGEN FLOW 3.330  
 -C- -S-  
 643 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 289. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0316

09:21 04/17/98  
 ID CODE: C000000028 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000041%  
 OXYGEN FLOW 3.328  
 -C- -S-  
 648 BLANK +.000000 +.000000  
 TIME 41. 30.  
 PEAK 258. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0312

09:23 04/17/98  
 ID CODE: C000000029 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000037%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 58std BLANK +.000000 +.000000  
 TIME 59. 30.  
 PEAK 487. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0314

09:24 04/17/98  
 ID CODE: C000000030 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000037%  
 OXYGEN FLOW 3.327  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 9934. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316

09:25 04/17/98  
 ID CODE: C000000031 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000037%  
 OXYGEN FLOW 3.328  
 -C- -S-

0.818 std BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 9526. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0317

09:27 04/17/98  
 ID CODE: C000000032 WTB, 0900 CAL#1  
 CARBON 0.3367% SULFUR .000037%  
 OXYGEN FLOW 3.330  
 -C- -S-  
 658 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 17677. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0240 1.0316

09:28 04/17/98  
 ID CODE: C000000033 WTB, 0500 CAL#1  
 CARBON 0.3370% SULFUR .000037%  
 OXYGEN FLOW 3.329  
 -C- -S-  
 WST BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 2375. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0240 1.0312  
 \*\*\* OUT-SEG REGUN \*\*\*

09:30 04/17/98  
 ID CODE: C000000045 WTB, 0500 CAL#1  
 CARBON 0.3371% SULFUR .000037%  
 OXYGEN FLOW 3.333  
 -C- -S-  
 WST BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 2126. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0246 1.0321  
 \*\*\* OUT-SEG REGUN \*\*\*

09:33 04/17/98  
 ID CODE: C000000046 WTB, 1000 CAL#1  
 CARBON 0.3371% SULFUR .000037%  
 OXYGEN FLOW 3.334  
 -C- -S-  
 std BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8431. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0242 1.0322

09:34 04/17/98  
 ID CODE: C000000034 WTB, 1000 CAL#1  
 CARBON 0.3369% SULFUR .000037%  
 OXYGEN FLOW 3.331  
 -C- -S-  
 653 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 260. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0317

09:36 04/17/98  
 ID CODE: C000000035 WTB, 1000 CAL#1  
 CARBON 0.3364% SULFUR .000035%  
 OXYGEN FLOW 3.330  
 -C- -S-

658 BLANK +.000000 +.000000  
 TIME 52. 30.  
 PEAK 176. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316

17.4.98

SL 4238-1

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10:13 04/17/98

ID CODE 080000061 WTD. 1000 CAL#1  
CARBON 0.1934% SULFUR .00037%  
OXYGEN FLOW 3.323

-C- -S-

748 BLANK + .00000 + .00000  
TIME 41. 30.  
PEAK 198. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0229 1.0309

10:15 04/17/98

ID CODE 080000062 WTD. 1000 CAL#1  
CARBON 0.5452% SULFUR .00003%  
OXYGEN FLOW 3.324

-C- -S-

58 dd BLANK + .00000 + .00000  
TIME 48. 30.  
PEAK 540. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0230 1.0311

10:16 04/17/98

ID CODE 080000064 WTD. 0000 CAL#1  
CARBON 0.0269% SULFUR .00000%  
OXYGEN FLOW 3.321

-C- -S-

0,818 BLANK + .00000 + .00000  
TIME 48. 30.  
PEAK 9844. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0231 1.0308

\*\*\* OUT-SEQ BEGIN \*\*\*

10:18 04/17/98

ID CODE 080000067 WTD. 0000 CAL#1  
CARBON 0.8192% SULFUR .00003%  
OXYGEN FLOW 3.324

-C- -S-

0,818 BLANK + .00000 + .00000  
TIME 48. 30.  
PEAK 9985. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0239 1.0311

10:19 04/17/98

ID CODE 080000065 WTD. 1010 CAL#1  
CARBON 11.44% SULFUR .00027%  
OXYGEN FLOW 3.326

-C- -S-

1003 BLANK + .00000 + .00000  
TIME 48. 30.  
PEAK 15278. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0243 1.0309

\*\*\* CLEANING TIME \*\*\*

10:20 04/17/98

ID CODE 080000066 WTD. 0510 CAL#1  
CARBON 3.703% SULFUR .00061%  
OXYGEN FLOW 3.324

-C- -S-

WST BLANK + .00000 + .00000  
TIME 48. 30.  
PEAK 1987. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0236 1.0305

\*\*\* OUT-SEQ BEGIN \*\*\*

10:23 04/17/98

ID CODE 080000069 WTD. 0500 CAL#1  
CARBON 3.793% SULFUR .00123%  
OXYGEN FLOW 3.326

WST

-C- -S-

BLANK + .00000 + .00000  
TIME 49. 30.  
PEAK 1991. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0234 1.0309

10:24 04/17/98

ID CODE 080000068 WTD. 1000 CAL#1  
CARBON 7.092% SULFUR .00055%  
OXYGEN FLOW 3.324

303

-C- -S-

BLANK + .00000 + .00000  
TIME 49. 30.  
PEAK 7939. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0230 1.0305

10:28 04/17/98

ID CODE 080000070 WTD. 1000 CAL#1  
CARBON 0.1795% SULFUR -.00000%  
OXYGEN FLOW 3.333

753

-C- -S-

BLANK + .00000 + .00000  
TIME 46. 30.  
PEAK 164. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0256 1.0321

10:30 04/17/98

ID CODE 080000071 WTD. 1000 CAL#1  
CARBON 0.1825% SULFUR .00027%  
OXYGEN FLOW 3.325

758

-C- -S-

BLANK + .00000 + .00000  
TIME 51. 30.  
PEAK 152. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0244 1.0307

10:31 04/17/98

ID CODE 080000072 WTD. 1000 CAL#1  
CARBON 0.4182% SULFUR .00037%  
OXYGEN FLOW 3.326

muc

-C- -S-

BLANK + .00000 + .00000  
TIME 50. 30.  
PEAK 368. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0246 1.0314

10:33 04/17/98

ID CODE 080000073 WTD. 1000 CAL#1  
CARBON 0.3794% SULFUR .00037%  
MUC OXYGEN FLOW 3.322

2-3

-C- -S-

BLANK + .00000 + .00000  
TIME 60. 30.  
PEAK 268. 0.  
CALIB. 0.6021 0.8981  
K.F.D. 1.0239 1.0307

10:04 04/17/98  
ID CORE 0000000520 UTO.0520 CAL#1  
CARBON 0.4759% SULFUR .00057%  
OXYGEN FLOW 3.325  
-C- -S-

WST

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 2161. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0232 1.0313  
09:56 04/17/98

ID CORE 0000000511 UTO.1020 CAL#1  
CARBON 0.4989% SULFUR .00058%  
OXYGEN FLOW 3.326  
-C- -S-

58st

BLANK +.00000 +.00000  
TIME 55. 30.  
PEAK 460. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0234 1.0314  
\*\*\* OUT-580 BEGUN \*\*\*  
09:58 04/17/98

ID CORE 0000000512 UTO.0920 CAL#1  
CARBON 0.4735% SULFUR .00032%  
OXYGEN FLOW 3.339  
-C- -S-

303 CM

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 7494. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0237 1.0316  
10:00 04/17/98

ID CORE 0000000522 UTO.1020 CAL#1  
CARBON 0.4755% SULFUR .00032%  
OXYGEN FLOW 3.331  
-C- -S-

703

BLANK +.00000 +.00000  
TIME 47. 30.  
PEAK 428. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0242 1.0323  
10:02 04/17/98

ID CORE 0000000523 UTO.1020 CAL#1  
CARBON 0.4847% SULFUR .00032%  
OXYGEN FLOW 3.326  
-C- -S-

708

BLANK +.00000 +.00000  
TIME 48. 30.  
PEAK 394. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0234 1.0309  
10:03 04/17/98

ID CORE 0000000524 UTO.1020 CAL#1  
CARBON 0.4961% SULFUR .00041%  
OXYGEN FLOW 3.325  
-C- -S-

713

BLANK +.00000 +.00000  
TIME 41. 30.  
PEAK 544. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0235 1.0307  
10:04 04/17/98

10:04 04/17/98  
ID CORE 0000000525 UTO.1020 CAL#1  
CARBON 0.4986% SULFUR .00043%  
OXYGEN FLOW 3.326  
-C- -S-

718

BLANK +.00000 +.00000  
TIME 43. 30.  
PEAK 408. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0249 1.0309  
10:06 04/17/98

ID CORE 0000000526 UTO.1020 CAL#1  
CARBON 0.4987% SULFUR .00043%  
OXYGEN FLOW 3.324  
-C- -S-

723

BLANK +.00000 +.00000  
TIME 44. 30.  
PEAK 448. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0236 1.0311  
10:07 04/17/98

ID CORE 0000000527 UTO.1020 CAL#1  
CARBON 0.4119% SULFUR .00029%  
OXYGEN FLOW 3.324  
-C- -S-

728

BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 446. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0233 1.0305  
10:08 04/17/98

ID CORE 0000000528 UTO.1020 CAL#1  
CARBON 0.4882% SULFUR .00038%  
OXYGEN FLOW 3.325  
-C- -S-

BLANK +.00000 +.00000  
TIME 41. 30.  
PEAK 488. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0237 1.0307  
10:10 04/17/98

ID CORE 0000000529 UTO.1020 CAL#1  
CARBON 0.4329% SULFUR .00045%  
OXYGEN FLOW 3.322  
-C- -S-

BLANK +.00000 +.00000  
TIME 54. 30.  
PEAK 344. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0226 1.0307  
10:11 04/17/98

ID CORE 0000000530 UTO.1020 CAL#1  
CARBON 0.4255% SULFUR .00023%  
OXYGEN FLOW 3.322  
-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 356. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0226 1.0302  
10:12 04/17/98

174.99 Mue 4238-2 Lang

20.4.98 SL 4238-7

Lges

10:54 04/17/98  
 ID CODE 000000085 WTD. 1010 CAL#1  
 CARBON 7.942% SULFUR .00059%  
 OXYGEN FLOW 3.324

303 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8508. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0245 1.0305  
 \*\*\* CLEANING TIME \*\*\*  
 10:58 04/17/98

ID CODE 000000087 WTD. 1000 CAL#1  
 CARBON 7.872% SULFUR .00051%  
 OXYGEN FLOW 3.328

303 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7975. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0259 1.0312  
 11:01 04/17/98

ID CODE 000000088 WTD. 0490 CAL#1  
 CARBON 3.920% SULFUR .00000%  
 OXYGEN FLOW 3.329

wst -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 7.  
 PEAK 2082. 181  
 CALIB. 0.6021 0.874  
 K FRC. 1.0255

## AMBIENT MONITOR

09:59 04/20/98

|                | O2 FLOW | LAMIN | .997  |
|----------------|---------|-------|-------|
| C. CELL        | TMP.    | C     | 48.8  |
| S. CELL        | TMP.    | C     | 48.2  |
| OVEN           | TMP.    | C     | 47.9  |
| CRT. HTR. TMP. | TMP.    | C     | 342.1 |
| 5. REFF.       |         |       | 5.00  |
| 5. VOLT        |         | +     | 5.00  |
| 24. VOLT       |         | +     | 23.98 |
| 20. VOLT       |         | +     | 29.96 |
| 15. VOLT       |         | +-    | 14.99 |
| C. EMITR.      |         |       | 5.50  |
| S. EMITR.      |         |       | 5.50  |
| C. IR CELL     |         |       | 8.111 |
| S. IR CELL     |         |       | 8.509 |

10:50 04/20/98

ID CODE 000000089 WTD. 1000 CAL#1  
 CARBON 12.84% SULFUR .00075%  
 OXYGEN FLOW 3.217

0.818 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14841. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0060 1.0121  
 10:01 04/20/98

ID CODE 000000090 WTD. 1000 CAL#1  
 CARBON 12.42% SULFUR .00059%  
 OXYGEN FLOW 3.585

0.818 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14767. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 0.8947 0.8995  
 10:02 04/20/98

ID CODE 000000091 WTD. 1010 CAL#1  
 CARBON 11.97% SULFUR .00000%  
 OXYGEN FLOW 3.092

0.818 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13812. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 0.9837 0.9899

MUC 4238-2

17.4.98

10:35 04/17/98  
 ID CODE C00000074 UTO.1000 CAL#1  
 CARBON 0.2582% SULFUR .00042%

MUC -C- -S-  
 BLANK +.000000 +.000000

3-4 TIME 61. 30.  
 PEAK 304. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0303  
 10:36 04/17/98

ID CODE C00000075 UTO.1000 CAL#1  
 CARBON 0.2093% SULFUR .00039%

MUC -C- -S-  
 BLANK +.000000 +.000000

4-5 TIME 57. 30.  
 PEAK 255. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0234 1.0300  
 10:39 04/17/98

ID CODE C00000076 UTO.1000 CAL#1  
 CARBON 0.2347% SULFUR .00035%

MUC -C- -S-  
 BLANK +.000000 +.000000

5-6 TIME 47. 30.  
 PEAK 194. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0300  
 10:39 04/17/98

ID CODE C00000077 UTO.1000 CAL#1  
 CARBON 0.3173% SULFUR .00057%

MUC -C- -S-  
 BLANK +.000000 +.000000

6-7 TIME 62. 30.  
 PEAK 244. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0236 1.0302  
 10:41 04/17/98

ID CODE C00000078 UTO.1000 CAL#1  
 CARBON 0.3112% SULFUR .00041%

MUC -C- -S-  
 BLANK +.000000 +.000000

7-8 TIME 59. 30.  
 PEAK 216. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0303  
 10:43 04/17/98

ID CODE C00000079 UTO.1000 CAL#1  
 CARBON 0.2664% SULFUR .00033%

MUC -C- -S-  
 BLANK +.000000 +.000000

8-9 TIME 52. 30.  
 PEAK 284. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0233 1.0292

10:44 04/17/98  
 ID CODE C00000080 UTO.1000 CAL#1  
 CARBON 0.5353% SULFUR .00017%

58dd -C- -S-  
 BLANK +.000000 +.000000

TIME 53. 30.  
 PEAK 484. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0296  
 10:45 04/17/98

ID CODE C00000081 UTO.1000 CAL#1  
 CARBON 0.8122% SULFUR .00003%

MUC -C- -S-  
 BLANK +.000000 +.000000

0,818 TIME 40. 30.  
 PEAK 8643. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0302  
 10:47 OUT-SEA REGUM \*\*\*

ID CODE C00000083 UTO.9000 CAL#1  
 CARBON 0.8220% SULFUR .00003%

MUC -C- -S-  
 BLANK +.000000 +.000000

0,818 TIME 40. 30.  
 PEAK 10410. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0242 1.0302  
 10:49 04/17/98

ID CODE C00000082 UTO.1000 CAL#1  
 CARBON 11.86% SULFUR .00093%

MUC -C- -S-  
 BLANK +.000000 +.000000

CalO<sub>3</sub> TIME 40. 30.  
 PEAK 15360. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0244 1.0313  
 10:50 04/17/98

ID CODE C00000084 UTO.0510 CAL#1  
 CARBON 2.68% SULFUR .00031%

MUC -C- -S-  
 BLANK +.000000 +.000000

WST TIME 40. 30.  
 PEAK 2262. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0239 1.0305  
 10:51 OUT-SEA REGUM \*\*\*

ID CODE C00000086 UTO.0510 CAL#1  
 CARBON 3.576% SULFUR .00071%

MUC -C- -S-  
 BLANK +.000000 +.000000

WST TIME 40. 30.  
 PEAK 2192. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0255 1.0314



Cges

SL4238-7

20.4.98

## \*\*\* STACK CALIBRATION \*\*\*

10:04 04/20/98  
 ID CODE: C000000092 UT1.0040 CAL#1  
 CARBON 0.8356% SULFUR .000000%  
 OXYGEN FLOW 3.317

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 10481. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0233 1.0292  
 10:05 04/20/98

10:05 04/20/98  
 ID CODE: C000000093 UT1.0020 CAL#1  
 CARBON 0.8296% SULFUR .000005%  
 OXYGEN FLOW 3.300

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9526. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0217 1.0276  
 10:06 04/20/98

10:06 04/20/98  
 ID CODE: C000000094 UT1.0000 CAL#1  
 CARBON 0.8441% SULFUR .000002%  
 OXYGEN FLOW 3.317

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 11059. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0239 1.0292  
 10:07 04/20/98

10:07 04/20/98  
 ID CODE: C000000095 UT0.9999 CAL#1  
 CARBON 0.8386% SULFUR .000004%  
 OXYGEN FLOW 3.317

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 10725. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0239 1.0298  
 10:08 04/20/98

10:08 04/20/98  
 ID CODE: C000000096 UT1.0000 CAL#1  
 CARBON 0.8268% SULFUR .000007%  
 OXYGEN FLOW 3.316

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 6690. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0228 1.0296

10:09 04/20/98  
 ID CODE: WEIGHT CARBON SULFUR  
 C000000096 1.0000 0.8269 .000007  
 C000000095 0.9990 0.8386 .000004  
 C000000094 1.0000 0.8441 .000002  
 C000000093 1.0020 0.8390 .000005  
 C000000092 1.0040 0.8356 .000008  
 C000000091 0.1010 11.97 .000009  
 C000000090 0.1000 12.42 .000059  
 C000000089 0.1000 12.04 .000075  
 C000000088 0.0490 3.822 .000009  
 C000000087 0.1000 7.072 .000051

CARBON STD.% 80.8189  
 OLD C-CAL -1- 0.6021  
 INCLUDE CARBON  
 C000000096 0.8269  
 C000000095 0.8386  
 C000000094 0.8441  
 C000000093 0.8390  
 C000000092 0.8356  
 NEW C-CAL -1- 0.5886

10:10 04/20/98  
 ID CODE: WEIGHT CARBON SULFUR  
 C000000096 1.0000 0.8076 .000007  
 C000000095 0.9980 0.8199 .000004  
 C000000094 1.0000 0.8252 .000002  
 C000000093 1.0020 0.8203 .000005  
 C000000092 1.0040 0.8170 .000009  
 C000000091 0.1010 11.70 .000009  
 C000000090 0.1000 12.14 .000059  
 C000000089 0.1000 11.77 .000075  
 C000000088 0.0490 3.737 .000008  
 C000000087 0.1000 6.914 .000051

\*\*\* END CALIBRATION \*\*\*

10:14 04/20/98  
 ID CODE: C000000097 UT1.0000 CAL#1  
 CARBON 0.8045% SULFUR .000004%  
 OXYGEN FLOW 3.324

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 6798. 0.  
 CALIB. 0.5886 0.8981  
 K.FAC. 1.0249 1.0305

10:15 04/20/98  
 ID CODE: C000000098 UT1.0000 CAL#1  
 CARBON 0.8191% SULFUR .000003%  
 OXYGEN FLOW 3.316

-C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9443. 0.  
 CALIB. 0.5886 0.8981  
 K.FAC. 1.0234 1.0296

Cges

SL 4238-1

20.4.98

10:34 04/20/98  
 ID CODE: C00000009 WT0, 1010 CAL#1  
 CARBON 7.336% SULFUR .000262%  
 OXYGEN FLOW 3.313  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9389. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0226 1.0291  
 10:35 04/20/98  
 ID CODE: C00000009 WT0, 1010 CAL#1  
 CARBON 7.265% SULFUR .000152%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9497. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0200 1.0259  
 10:36 04/20/98  
 ID CODE: C00000011 WT0, 1000 CAL#1  
 CARBON 7.282% SULFUR .000372%  
 OXYGEN FLOW 3.304  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8631. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0211 1.0275  
 10:38 04/20/98  
 ID CODE: C00000012 WT0, 1010 CAL#1  
 CARBON 6.527% SULFUR .000482%  
 OXYGEN FLOW 3.293  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 5695. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0197 1.0255  
 10:39 04/20/98  
 ID CODE: C00000013 WT0, 1000 CAL#1  
 CARBON 6.899% SULFUR .000422%  
 OXYGEN FLOW 3.295  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7291. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0201 1.0253  
 10:40 04/20/98  
 ID CODE: C00000014 WT0, 1000 CAL#1  
 CARBON 7.460% SULFUR .000412%  
 OXYGEN FLOW 3.294  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7836. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0199 1.0257

10:42 04/20/98  
 ID CODE: C00000015 WT0, 1010 CAL#1  
 CARBON 6.136% SULFUR .000522%  
 OXYGEN FLOW 3.309  
 -C- -S-  
 688  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9987. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0225 1.0278  
 10:44 04/20/98  
 ID CODE: C00000016 WT0, 1010 CAL#1  
 CARBON 7.510% SULFUR .000452%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 693  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8189. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0180 1.0242  
 10:45 04/20/98  
 ID CODE: C00000017 WT0, 1000 CAL#1  
 CARBON 7.416% SULFUR .000502%  
 OXYGEN FLOW 3.296  
 -C- -S-  
 698  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7913. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0197 1.0255  
 10:46 04/20/98  
 ID CODE: C00000018 WT1, 0020 CAL#1  
 CARBON 6.8291% SULFUR .000062%  
 OXYGEN FLOW 3.291  
 -C- -S-  
 0, 818  
 673  
 10:48 04/20/98  
 ID CODE: C00000019 WT0, 1000 CAL#1  
 CARBON 11.98% SULFUR .000072%  
 OXYGEN FLOW 3.304  
 -C- -S-  
 670<sub>3</sub>  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9669. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0187 1.0247  
 10:50 04/20/98  
 ID CODE: C00000020 WT0, 1000 CAL#1  
 CARBON 7.221% SULFUR .000292%  
 OXYGEN FLOW 3.275  
 -C- -S-  
 303  
 683  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7939. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0165 1.0218



Crys 20 SC 4238-7

20.4.98

12:17 04/20/98  
ID CODE: C000000030 WTB.0990 CAL#1  
CARBON 7.217% SULFUR .000502%  
OXYGEN FLOW 3.286  
-C- -S-  
718

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7414. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0184 1.0243  
12:18 04/20/98

ID CODE: C000000031 WTB.1010 CAL#1  
CARBON 7.260% SULFUR .000412%  
OXYGEN FLOW 3.291  
-C- -S-  
723

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7991. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0197 1.0252  
12:09 04/20/98

ID CODE: C000000032 WTB.1010 CAL#1  
CARBON 6.406% SULFUR .000672%  
OXYGEN FLOW 3.285  
-C- -S-  
728

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7233. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0189 1.0242  
12:11 04/20/98

ID CODE: C000000036 WTB.1000 CAL#1  
CARBON 7.015% SULFUR .000072%  
OXYGEN FLOW 3.304  
-C- -S-  
733

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7224. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0223 1.0275  
12:12 04/20/98

ID CODE: C000000037 WTB.1000 CAL#1  
CARBON 7.037% SULFUR .000402%  
OXYGEN FLOW 3.306  
-C- -S-  
738

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8599. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0226 1.0279  
12:13 04/20/98

ID CODE: C000000039 WTB.1000 CAL#1  
CARBON 6.858% SULFUR .000512%  
OXYGEN FLOW 3.306  
-C- -S-  
743

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7176. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0226 1.0273

12:15 04/20/98  
ID CODE: C000000039 WTB.1000 CAL#1  
CARBON 6.977% SULFUR .000332%  
OXYGEN FLOW 3.304  
-C- -S-  
748

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7041. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0223 1.0270  
12:16 04/20/98

ID CODE: C000000040 WTB.1000 CAL#1  
CARBON 7.103% SULFUR .000072%  
OXYGEN FLOW 3.299  
-C- -S-  
753

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7456. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0214 1.0267  
12:17 04/20/98

ID CODE: C000000041 WTB.0040 CAL#1  
CARBON 0.7047% SULFUR .000021%  
OXYGEN FLOW 3.309  
-C- -S-  
758

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8021. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0228 1.0278  
12:19 04/20/98

ID CODE: C000000042 WTB.1000 CAL#1  
CARBON 8.198% SULFUR .000282%  
OXYGEN FLOW 3.299  
-C- -S-  
Jalsd

Ad x0.1 BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10351. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0208 1.0267  
### OUT-SEN BEGIN ###  
12:21 04/20/98

ID CODE: C000000045 WTB.0010 CAL#1  
CARBON 0.8116% SULFUR .000042%  
OXYGEN FLOW 3.306  
-C- -S-  
0.818

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10425. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0223 1.0273  
### OUT-SEN BEGIN ###  
12:23 04/20/98

ID CODE: C000000046 WTB.9980 CAL#1  
CARBON 0.8111% SULFUR .000042%  
OXYGEN FLOW 3.309  
-C- -S-  
ctd

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10769. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0231 1.0278

20.4.98

SL 4238-1 Cgas

21.4.98 MUC 4238-2

long

12:24 04/20/98

## AMBIENT MONITOR

ID CODE C90900043 WTB.1019 CAL#1  
 CARBON 11.25% SULFUR .000443  
 OXYGEN FLOW 3.314

13:53 04/21/98

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 14915. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0240 1.0287

12:26 04/20/98

ID CODE C90900044 WTB.2510 CAL#1  
 CARBON 13.76% SULFUR .000163  
 OXYGEN FLOW 3.309

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7663. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0231 1.0284

\*\*\* CLEAVING TIME \*\*\*

12:27 04/20/98

ID CODE C90900047 WTB.1009 CAL#1  
 CARBON 6.982% SULFUR .000427  
 OXYGEN FLOW 3.310

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7448. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0233 1.0286

12:33 04/20/98

ID CODE C90900048 WTB.0500 CAL#1  
 CARBON 3.770% SULFUR .000100  
 OXYGEN FLOW 3.316

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 2265. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0241 1.0294

12:36 04/20/98

ID CODE C90900049 WTB.0040 CAL#1  
 CARBON 0.8150% SULFUR .000040  
 OXYGEN FLOW 3.309

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9927. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0231 1.0284

12:36 04/20/98

0.818

Std

O2 FLOW L/min .005  
 C. CELL TMP. C 49.8  
 S. CELL TMP. C 48.2  
 OVEN TMP. C 49.2  
 CAT. HTR. TMP. C 342.4  
 S. REFL. 5.00  
 S. VOLT. + 5.00  
 24 VOLT + 23.98  
 36 VOLT + 29.99  
 15 VOLT +/- 14.99  
 C. EHTR. 5.50  
 S. EHTR. 5.50  
 C. IR CELL 8.276  
 S. IR CELL 8.510

13:54 04/21/98

ID CODE C90900050 WTB.1000 CAL#1

CARBON 11.80% SULFUR .000400

OXYGEN FLOW 3.345

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 13923. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0289 1.0348

13:55 04/21/98

ID CODE C90900051 WTB.1000 CAL#1

CARBON 11.88% SULFUR .000064

OXYGEN FLOW 3.338

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 13918. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0280 1.0330

13:57 04/21/98

ID CODE C90900052 WTB.1000 CAL#1

CARBON 12.17% SULFUR .000101

OXYGEN FLOW 3.336

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 15089. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0276 1.0326

13:58 04/21/98

ID CODE C90900053 WTB.0050 CAL#1

CARBON 0.8203% SULFUR .000028

OXYGEN FLOW 3.329

-C- -S-

BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 18017. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0264 1.0314

Long

MUC 4238-2

21.4.98

14:59 04/21/98

ID CODE C000000054 UT1.0030 CAL#1  
 CARBON 0.8227% SULFUR .00003%  
 OXYGEN FLOW 3.327  
 -C- -S-  
 0,818 BLANK +.00000 +.00000

*std*

TIME 40. 30.  
 PEAK 10657. 0.  
 CALIB. 0.5903 0.8981  
 K.FAC. 1.0257 1.0310

14:00 04/21/98  
 ID CODE C000000055 UT1.0010 CAL#1  
 CARBON 0.8222% SULFUR .00003%  
 OXYGEN FLOW 3.325

-C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10658. 0.  
*std* CALIB. 0.5903 0.8981  
 K.FAC. 1.0254 1.0307

14:02 04/21/98  
 ID CODE C000000056 UT1.0040 CAL#1  
 CARBON 0.8133% SULFUR .00003%  
 OXYGEN FLOW 3.324  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8711. 0.  
*std* CALIB. 0.5903 0.8981  
 K.FAC. 1.0248 1.0305

14:03 04/21/98  
 ID CODE C000000057 UT1.0060 CAL#1  
 CARBON 0.8136% SULFUR .00003%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6541. 0.  
 CALIB. 0.5903 0.8981  
*std* K.FAC. 1.0258 1.0314

PPR STACK CALIBRATION ???

14:03 04/21/98

ID CODE WEIGHT CARBON% SULFUR%  
 C000000057 1.0069 0.8136 .00003  
 C000000054 1.0040 0.8133 .00002  
 C000000055 1.0019 0.8222 .00007  
 C000000054 1.0030 0.8227 .00003  
 C000000053 1.0050 0.8203 .00002  
 C000000052 0.1000 12.17 .00010  
 C000000051 0.1000 11.98 .00006  
 C000000050 0.1000 11.99 .00040  
 C000000049 1.0040 0.8159 .00004  
 C000000048 0.0500 3.752 .00030

CARBON STR.% 00.8136  
 OLD C-CAL -1- 0.5903  
 INCLUDE CARBON  
 C000000057 0.8136  
 C000000056 0.8133  
 C000000055 0.8222  
 C000000054 0.8227  
 C000000053 0.8203  
 NEW C-CAL -1- 0.5900

14:04 04/21/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 C000000057 1.0069 0.8131 .00003  
 C000000056 1.0040 0.8129 .00002  
 C000000055 1.0019 0.8218 .00007  
 C000000054 1.0030 0.8223 .00003  
 C000000053 1.0050 0.8199 .00002  
 C000000052 0.1000 12.16 .00010  
 C000000051 0.1000 11.97 .00006  
 C000000050 0.1000 11.79 .00040  
 C000000049 1.0040 0.8146 .00004  
 C000000048 0.0500 3.750 .00030

PPR END CALIBRATION ???

14:05 04/21/98

ID CODE C000000058 UT1.0050 CAL#1  
 CARBON 0.8233% SULFUR .00004%  
 OXYGEN FLOW 3.320  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.

*std*

PEAK 10510. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0259 1.0316

14:06 04/21/98  
 ID CODE C000000059 UT1.0090 CAL#1  
 CARBON 0.8192% SULFUR .00000%  
 OXYGEN FLOW 3.331  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.

*std*

PEAK 10094. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0267 1.0317

14:13 04/21/98  
 ID CODE C000000060 UT0.0950 CAL#1  
 CARBON 12.16% SULFUR .00007%  
 OXYGEN FLOW 3.333  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.

*holo*

PEAK 15355. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0268 1.0321

14:15 04/21/98  
 ID CODE C000000061 UT0.1000 CAL#1  
 CARBON 7.0202% SULFUR .00010%  
 OXYGEN FLOW 3.329  
 -C- -S-

*303**std*

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8240. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0258 1.0314

14:17 04/21/98  
 ID CODE C000000062 UT0.0500 CAL#1  
 CARBON 3.774% SULFUR .00104%  
 OXYGEN FLOW 3.325  
 -C- -S-

*wst*

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2092. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0247 1.0313

21.4.98

MUC 4238 -2

Long

14:18 04/21/98  
 ID CODE C00000063 WTD.0500 CAL#1  
 CARBON 0.2739% SULFUR .00053%  
 OXYGEN FLOW 3.328  
 -C- -S-  
 BLANK + .000000 + .000000  
 TIME 49. 39.  
 PEAK 2335. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0259 1.0312

WST

14:28 04/21/98  
 TIME 49. 39.  
 PEAK 1521. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0231 1.0289  
 14:29 04/21/98

ID CODE C00000064 WTD.1000 CAL#1  
 CARBON 0.3900% SULFUR .00024%  
 OXYGEN FLOW 3.324  
 -C- -S-  
 BLANK + .000000 + .000000  
 TIME 40. 39.  
 PEAK 620. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0252 1.0305

58std

14:29 04/21/98  
 OXYGEN FLOW 3.299  
 -C- -S-  
 BLANK + .000000 + .000000  
 TIME 49. 39.  
 PEAK 228. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0195 1.0245  
 14:31 04/21/98

ID CODE C00000065 WTD.1000 CAL#1  
 CARBON 0.2539% SULFUR .00053%  
 OXYGEN FLOW 3.299  
 -C- -S-  
 BLANK + .000000 + .000000  
 TIME 59. 39.

9-10

PEAK 228. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0244 1.0245  
 14:23 04/21/98

ID CODE C00000066 WTD.1000 CAL#1  
 CARBON 0.2421% SULFUR .00053%  
 OXYGEN FLOW 3.299  
 -C- -S-  
 BLANK + .000000 + .000000

10-11

TIME 55. 39.  
 PEAK 211. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0214 1.0261  
 \*\*\* CLEAVING TIME \*\*\*

14:24 04/21/98

ID CODE C00000067 WTD.1000 CAL#1  
 CARBON 0.2294% SULFUR .00065%  
 OXYGEN FLOW 3.305  
 -C- -S-  
 BLANK + .000000 + .000000

11-12

TIME 57. 39.  
 PEAK 188. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0222 1.0272  
 14:26 04/21/98

ID CODE C00000068 WTD.1000 CAL#1  
 CARBON 0.2412% SULFUR .00026%  
 OXYGEN FLOW 3.322  
 -C- -S-

12-13

BLANK + .000000 + .000000  
 TIME 51. 39.  
 PEAK 168. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0216 1.0266

14:28 04/21/98  
 ID CODE C00000069 WTD.1000 CAL#1  
 CARBON 0.2223% SULFUR .00029%  
 OXYGEN FLOW 3.312  
 -C- -S-  
 BLANK + .000000 + .000000

13-14

TIME 55. 39.  
 PEAK 1521. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0231 1.0289  
 14:29 04/21/98

ID CODE C00000070 WTD.1000 CAL#1  
 CARBON 0.2278% SULFUR .00011%  
 OXYGEN FLOW 3.316  
 -C- -S-  
 BLANK + .000000 + .000000

14-15

TIME 56. 39.  
 PEAK 194. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0234 1.0291  
 14:31 04/21/98

ID CODE C00000071 WTD.1000 CAL#1  
 CARBON 0.2291% SULFUR .00044%  
 OXYGEN FLOW 3.320  
 -C- -S-  
 BLANK + .000000 + .000000

15-16

TIME 49. 39.  
 PEAK 212. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0241 1.0303  
 14:33 04/21/98

ID CODE C00000072 WTD.1000 CAL#1  
 CARBON 0.2277% SULFUR .00029%  
 OXYGEN FLOW 3.322  
 -C- -S-  
 BLANK + .000000 + .000000

16-77

TIME 51. 39.  
 PEAK 264. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0302  
 14:34 04/21/98

ID CODE C00000073 WTD.1000 CAL#1  
 CARBON 0.2682% SULFUR .00063%  
 OXYGEN FLOW 3.320  
 -C- -S-  
 BLANK + .000000 + .000000

17-18

TIME 54. 39.  
 PEAK 252. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0303  
 14:36 04/21/98

ID CODE C00000074 WTD.1000 CAL#1  
 CARBON 0.2422% SULFUR .00014%  
 OXYGEN FLOW 3.320  
 -C- -S-

18-19

BLANK + .000000 + .000000  
 TIME 55. 39.  
 PEAK 189. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0297

Cong

MUL 4238-2

21.4.98

14:37 04/21/98  
ID CODE C000000025 WTD.1000 CAL#1  
CARBON 0.5467% SULFUR .00022%  
OXYGEN FLOW 3.321  
58 -C- -S-  
BLANK +.00000 +.00000  
TIME 42. 30.  
PEAK 584. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0253 1.0305  
14:39 04/21/98  
ID CODE C000000076 WTD.0040 CAL#1  
CARBON 0.8158% SULFUR .00001%  
OXYGEN FLOW 3.321  
-C- -S-  
0.818 BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 7713. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0253 1.0306  
14:40 04/21/98  
ID CODE C000000077 WTD.1010 CAL#1  
CARBON 12.15% SULFUR .00006%  
OXYGEN FLOW 3.327  
-C- -S-  
lolo3 BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 14987. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0257 1.0310  
14:42 04/21/98  
ID CODE C000000078 WTD.0510 CAL#1  
CARBON 3.643% SULFUR .00036%  
OXYGEN FLOW 3.324  
-C- -S-  
wsy BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 2187. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0252 1.0305  
\*\*\* OUT-SED BEGUN \*\*\*  
14:44 04/21/98  
ID CODE C000000080 WTD.1010 CAL#1  
CARBON 7.184% SULFUR .00022%  
OXYGEN FLOW 3.327  
303 Ad -C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 8237. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0257 1.0310  
14:45 04/21/98  
ID CODE C000000079 WTD.1000 CAL#1  
CARBON 0.5798% SULFUR .00022%  
OXYGEN FLOW 3.322  
58std -C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 691. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0251 1.0300

14:47 04/21/98  
ID CODE C000000081 WTD.1000 CAL#1  
CARBON 0.2146% SULFUR .00017%  
OXYGEN FLOW 3.324  
-C- -S-  
14-20 BLANK +.00000 +.00000  
TIME 53. 30.  
PEAK 180. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0258 1.0305  
14:49 04/21/98  
ID CODE C000000082 WTD.1000 CAL#1  
CARBON 0.2473% SULFUR .00011%  
OXYGEN FLOW 3.322  
-C- -S-  
20-21 BLANK +.00000 +.00000  
TIME 53. 30.  
PEAK 216. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0255 1.0302  
14:50 04/21/98  
ID CODE C000000083 WTD.1000 CAL#1  
CARBON 0.2085% SULFUR .00032%  
OXYGEN FLOW 3.321  
-C- -S-  
21-22 BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 184. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0253 1.0300  
14:51 04/21/98  
ID CODE C000000084 WTD.1000 CAL#1  
CARBON 0.2260% SULFUR .00015%  
OXYGEN FLOW 3.320  
-C- -S-  
22-23 BLANK +.00000 +.00000  
TIME 55. 30.  
PEAK 188. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0251 1.0297  
14:53 04/21/98  
ID CODE C000000085 WTD.1000 CAL#1  
CARBON 0.2415% SULFUR .00020%  
OXYGEN FLOW 3.323  
-C- -S-  
23-24 BLANK +.00000 +.00000  
TIME 59. 30.  
PEAK 246. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0256 1.0303  
14:55 04/21/98  
ID CODE C000000086 WTD.1000 CAL#1  
CARBON 0.2322% SULFUR .00037%  
OXYGEN FLOW 3.321  
-C- -S-  
24-25 BLANK +.00000 +.00000  
TIME 54. 30.  
PEAK 284. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0250 1.0300

27.4.98

MAC 4238-7

Long

\*\*\* CLEAVING TIME \*\*\*  
 14:56 04/21/98

ID CODE 000000097 WTB.1000 CAL#1  
 CARBON 0.2023% SULFUR .00019%  
 OXYGEN FLOW 3.320  
 -C- -S-

**25-26** BLANK +.00000 +.00000  
 TIME 45. 30.  
 PEAK 196. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0244 1.0303  
 14:58 04/21/98

ID CODE 000000098 WTB.1000 CAL#1  
 CARBON 0.3641% SULFUR .00017%  
 OXYGEN FLOW 3.320

**58 Ad** -C- -S-  
 BLANK +.00000 +.00000  
 TIME 47. 30.  
 PEAK 580. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0247 1.0297  
 14:59 04/21/98

ID CODE 000000099 WTB.1000 CAL#1  
 CARBON 0.2903% SULFUR .00026%  
 OXYGEN FLOW 3.320  
 -C- -S-

**5-6** BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 256. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0251 1.0297  
 15:01 04/21/98

ID CODE 000000100 WTB.1000 CAL#1  
 CARBON 0.5042% SULFUR .00036%  
 OXYGEN FLOW 3.320

**58 Ad** -C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 717. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0251 1.0297  
 15:02 04/21/98

ID CODE 000000091 WTB.9980 CAL#1  
 CARBON 0.8298% SULFUR .00037%  
 OXYGEN FLOW 3.319

**0,818** -C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 10148. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0250 1.0302  
 15:03 04/21/98

std

**0,818** ID CODE 000000092 WTB.9970 CAL#1  
 CARBON 0.8287% SULFUR .00036%  
 OXYGEN FLOW 3.322

**44** -C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 10628. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0255 1.0307

\*\*\* OUT-SEA BEGUN \*\*\*

15:06 04/21/98

ID CODE 000000095 WTB.9110 CAL#1  
 CARBON 0.2242% SULFUR .00014%  
 OXYGEN FLOW 3.324  
 -C- -S-

BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10664. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0258 1.0305  
 15:07 04/21/98

ID CODE 000000093 WTB.1000 CAL#1  
 CARBON 12.15% SULFUR .00022%  
 OXYGEN FLOW 3.322

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 16631. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0255 1.0302  
 15:09 04/21/98

ID CODE 000000094 WTB.0490 CAL#1  
 CARBON 3.758% SULFUR .00020%  
 OXYGEN FLOW 3.321

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2120. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0250 1.0300  
 15:10 04/21/98

ID CODE 000000096 WTB.1010 CAL#1  
 CARBON 7.173% SULFUR .00028%  
 OXYGEN FLOW 3.321

**303 Ad** -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8311. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0250 1.0300  
 15:11 04/21/98

ID CODE 000000097 WTB.0990 CAL#1  
 CARBON 3.0090% SULFUR .00022%  
 OXYGEN FLOW 3.324

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 1. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0256 1.0305  
 15:13 04/21/98

ID CODE 000000098 WTB.1000 CAL#1  
 CARBON 0.5563% SULFUR .00016%  
 OXYGEN FLOW 3.322

**58 Ad** -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 656. 0.  
 CALIB. 0.5900 0.8981  
 K.FAC. 1.0255 1.0302  
 15:14 04/21/98

(good yes) 15:14 04/21/98  
 ID CODE C000000099 WTD.0020 CAL#1  
 CARBON 5.8183% SULFUR .000002%  
 OXYGEN FLOW 3.321  
 -C- -S-  
**0.818**  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9670. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0253 1.0300  
 15:30 04/21/98  
 ID CODE C000000099 WTD.0090 CAL#1  
 CARBON 5.0192% SULFUR .000007%  
 OXYGEN FLOW 3.329  
**58**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9616. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0290 1.0331  
 15:31 04/21/98  
 ID CODE C000000091 WTD.1000 CAL#1  
 CARBON 7.1852% SULFUR .000051%  
 OXYGEN FLOW 3.329  
**183**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9630. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0270 1.0314  
 15:32 04/21/98  
 ID CODE C000000092 WTD.1000 CAL#1  
 CARBON 5.0322% SULFUR .000132%  
 OXYGEN FLOW 3.329  
**293**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9496. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0267 1.0314  
 15:34 04/21/98  
 ID CODE C000000093 WTD.1000 CAL#1  
 CARBON 7.5242% SULFUR .000028%  
 OXYGEN FLOW 3.328  
**298**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8864. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0265 1.0312  
 15:35 04/21/98  
 ID CODE C000000094 WTD.1000 CAL#1  
 CARBON 5.8352% SULFUR .000132%  
 OXYGEN FLOW 3.326  
**318**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6508. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0262 1.0309

15:36 04/21/98  
 ID CODE C000000095 WTD.1000 CAL#1  
 CARBON 5.2432% SULFUR .000132%  
 OXYGEN FLOW 3.325  
**413**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9197. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0260 1.0307  
 15:38 04/21/98  
 ID CODE C000000096 WTD.1010 CAL#1  
 CARBON 7.9432% SULFUR .000033%  
 OXYGEN FLOW 3.326  
**598**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9610. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0262 1.0309  
 \*\*\* CLEARING TIME \*\*\*  
 15:40 04/21/98  
 ID CODE C000000097 WTD.1000 CAL#1  
 CARBON 5.1682% SULFUR .000132%  
 OXYGEN FLOW 3.326  
**688**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9610. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0267 1.0309  
 15:41 04/21/98  
 ID CODE C000000098 WTD.1000 CAL#1  
 CARBON 5.8732% SULFUR .000024%  
 OXYGEN FLOW 3.324  
**708**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6848. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0264 1.0305  
 15:42 04/21/98  
 ID CODE C000000099 WTD.1010 CAL#1  
 CARBON 6.5392% SULFUR .000032%  
 OXYGEN FLOW 3.324  
**728**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8997. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0264 1.0305  
 15:44 04/21/98  
 ID CODE C000000100 WTD.1000 CAL#1  
 CARBON 7.5302% SULFUR .000028%  
 OXYGEN FLOW 3.324  
**758**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9056. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0264 1.0305

29.4.98

SL 4238-7

ges

15:45 04/21/98  
ID CODE C000000011 W71.0010 CAL#1  
CARBON 6.8205% SULFUR .00004%

8,818  
*Add*  
OXYGEN FLOW 3.320  
-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 9616. 0.  
CALIB. 0.5980 0.8981  
K FRC. 1.0254 1.0297

15:48 04/21/98  
ID CODE C000000012 W70.1010 CAL#1  
CARBON 12.16% SULFUR .00025%

OXYGEN FLOW 3.327  
-C- -S-  
*10% O<sub>2</sub>*  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 16498. 0.  
CALIB. 0.5980 0.8981  
K FRC. 1.0263 1.0310

15:50 04/21/98  
ID CODE C000000013 W70.0500 CAL#1  
CARBON 3.617% SULFUR .00030%

OXYGEN FLOW 3.321  
-C- -S-  
*wst*  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK ~ 1898. 0.  
CALIB. 0.5980 0.8981  
K FRC. 1.0253 1.0300

17.4.98

SL 4238-1

Long

09:43 04/17/98

IR CODE C0000000004 WTL.0070 CAL#1  
 CARBON 0.9999% SULFUR .00004%  
 OXYGEN FLOW 3.340  
 -C- -S-

0.818 BLANK + .00000 + .00000  
 TIME 40. 30.  
 PEAK 6723. 0.  
 CALIB. 0.6920 0.8981  
 K FRC. 1.0253 1.0333  
 09:44 04/17/98

## AMBIENT MONITOR

09:35 04/17/98

|                |       |        |
|----------------|-------|--------|
| CO FLOW        | L/MIN | .004   |
| C. CELL THP.   | C     | 49.2   |
| S. CELL THP.   | C     | 49.2   |
| OXYEN          | THP.  | C 46.8 |
| CAT. HTR. THP. | C     | 342.1  |
| S. PEFF.       |       | 5.00   |
| S. VOLT        | +     | 5.00   |
| 24 VOLT        | +     | 23.98  |
| 30 VOLT        | +     | 29.99  |
| 15 VOLT        | +/-   | 14.99  |
| C. EHITR.      |       | 5.50   |
| S. EHITR.      |       | 5.50   |
| C. IR CELL     |       | 8.155  |
| S. IR CELL     |       | 8.511  |

09:39 04/17/98

IR CODE C000000001 WTL.1000 CAL#1  
 CARBON 11.77% SULFUR .00067%  
 OXYGEN FLOW 3.357

-C- -S-

BLANK + .00000 + .00000  
 TIME 40. 30.  
 PEAK 13779. 0.  
 CALIB. 0.6920 0.8981  
 K FRC. 1.0288 1.0363  
 09:40 04/17/98

IR CODE C000000002 WTL.1000 CAL#1  
 CARBON 11.82% SULFUR .00067%  
 OXYGEN FLOW 3.359

-C- -S-

BLANK + .00000 + .00000  
 TIME 40. 30.  
 PEAK 14364. 0.  
 CALIB. 0.6920 0.8981  
 K FRC. 1.0273 1.0356  
 09:42 04/17/98

IR CODE C000000003 WTL.1000 CAL#1  
 CARBON 12.06% SULFUR .00076%  
 OXYGEN FLOW 3.347

-C- -S-

BLANK + .00000 + .00000  
 TIME 40. 30.  
 PEAK 15449. 0.  
 CALIB. 0.6920 0.8981  
 K FRC. 1.0266 1.0352

09:49 04/17/98

|            |        |         |         |
|------------|--------|---------|---------|
| IR CODE    | WEIGHT | CARBON% | SULFUR% |
| C000000008 | 0.9990 | 0.8126  | .00006  |
| C000000007 | 1.0040 | 0.8077  | .00006  |
| C000000006 | 1.0010 | 0.8226  | .00002  |
| C000000005 | 1.0040 | 0.8141  | .00007  |
| C000000004 | 1.0070 | 0.8099  | .00004  |
| C000000003 | 0.1000 | 12.86   | .00076  |
| C000000002 | 0.1000 | 11.83   | .00027  |
| C000000001 | 0.1000 | 11.75   | .00067  |
| C000000009 | 0.0500 | 3.821   | .00096  |
| C000000009 | 0.1010 | 11.64   | .00055  |

LaCO<sub>3</sub>LaCO<sub>3</sub>LaCO<sub>3</sub>

0.818

Std

0.818

Std

\*\*\* STACK CALIBRATION \*\*\*

17.4.28

SL 4238-1

Long

## CUT-SEQ BEGUN \*\*\*  
09:08 04/17/98  
ID CODE 000000016 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00005%  
OXYGEN FLOW 3.336  
-C- -S-

0.818 BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 8686. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0251 1.0326  
## CUT-SEQ BEGUN \*\*\*  
09:11 04/17/98

ID CODE 000000017 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00006%  
OXYGEN FLOW 3.335  
-C- -S-

0.818 BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 8789. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0249 1.0326  
09:13 04/17/98

ID CODE 000000018 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00100%  
OXYGEN FLOW 3.334  
-C- -S-

Lat 03 BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 13080. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0247 1.0328  
09:15 04/17/98

ID CODE 000000011 WT0.0520 CBL#1  
CARBON 0.2552% SULFUR .00117%  
OXYGEN FLOW 3.333  
-C- -S-

WST BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 2335. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0246 1.0327  
09:16 04/17/98

ID CODE 000000018 WT0.1000 CBL#1  
CARBON 0.25562% SULFUR .00005%  
OXYGEN FLOW 3.334  
-C- -S-

58 dd BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 649. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0247 1.0328  
09:18 04/17/98

ID CODE 000000019 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00005%  
OXYGEN FLOW 3.332  
-C- -S-

603 BLANK +.00000 +.00000  
TIME 51. \*30.  
PEAK 126. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0241 1.0325

09:09 04/17/98  
ID CODE 000000020 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00026%  
OXYGEN FLOW 3.330  
-C- -S-

608 BLANK +.00000 +.00000  
TIME 43. 30.  
PEAK 236. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0235 1.0316  
09:11 04/17/98

ID CODE 000000021 WT0.1000 CBL#1  
CARBON 0.2441% SULFUR .00030%  
OXYGEN FLOW 3.330  
-C- -S-

613 BLANK +.00000 +.00000  
TIME 50. 30.  
PEAK 228. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0237 1.0321  
09:12 04/17/98

ID CODE 000000022 WT0.1000 CBL#1  
CARBON 0.2440% SULFUR .00050%  
OXYGEN FLOW 3.330  
-C- -S-

618 BLANK +.00000 +.00000  
TIME 53. 30.  
PEAK 228. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0240 1.0316  
09:14 04/17/98

ID CODE 000000023 WT0.1000 CBL#1  
CARBON 0.2441% SULFUR .00027%  
OXYGEN FLOW 3.329  
-C- -S-

623 BLANK +.00000 +.00000  
TIME 50. 30.  
PEAK 228. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0239 1.0314  
09:15 04/17/98

ID CODE 000000024 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00060%  
OXYGEN FLOW 3.329  
-C- -S-

628 BLANK +.00000 +.00000  
TIME 41. 30.  
PEAK 289. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0242 1.0314  
09:17 04/17/98

ID CODE 000000025 WT0.1000 CBL#1  
CARBON 0.2442% SULFUR .00062%  
OXYGEN FLOW 3.328  
-C- -S-

633 BLANK +.00000 +.00000  
TIME 47. 30.  
PEAK 312. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0240 1.0317

CARBON STD % 90.8189  
 OLD C-CAL -1- 0.6020  
 INCLUDE CARBONH  
 0000000008 0.8126  
 0000000007 0.8077  
 0000000006 0.8226  
 0000000005 0.8141  
 0000000004 0.8099  
 NEW C-CAL -1- 0.6054

08:49 04/17/98

ID CODE WEIGHT CARBON% SULFUR%  
 0000000009 0.9999 0.8172 .00006  
 0000000007 1.0040 0.8123 .00006  
 0000000005 1.0019 0.8273 .00002  
 0000000005 1.0040 0.8187 .00007  
 0000000004 1.0070 0.8145 .00004  
 0000000003 0.9999 12.13 .00026  
 0000000002 0.9999 11.90 .00027  
 0000000001 0.9999 11.81 .00067  
 0000000001 0.9589 9.843 .00098  
 0000000009 0.9999 11.78 .00055

\*\*\* END CALIBRATION \*\*\*

08:51 04/17/98

ID CODE 0000000009 UT1.0010 CAL#1  
 0000000009 0.8152% SULFUR .000024  
 OXYGEN FLOW 3.339  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 39.  
 PEAK 9296. 0.  
 CALIB. 0.6054 0.8981  
 K-FRC. 1.0245 1.0331  
 \*\*\* OUT-SEQ BEGUN \*\*\*

08:52 04/17/98

ID CODE 0000000010 UT0.9970 CAL#1  
 0000000010 0.8252% SULFUR .000041  
 OXYGEN FLOW 3.338  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 39.  
 PEAK 9964. 0.  
 CALIB. 0.6054 0.8981  
 K-FRC. 1.0255 1.0336  
 \*\*\* OUT-SEQ BEGUN \*\*\*

08:54 04/17/98

ID CODE 0000000013 UT1.0030 CAL#1  
 0000000013 0.8242% SULFUR .000061  
 OXYGEN FLOW 3.339  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 39.  
 PEAK 10320. 0.  
 CALIB. 0.6054 0.8981  
 K-FRC. 1.0251 1.0339

\*\*\* OUT-SEQ BEGUN \*\*\*  
 08:56 04/17/98  
 ID CODE 0000000014 UT1.0030 CAL#1  
 0000000014 0.8152% SULFUR .000018  
 OXYGEN FLOW 3.336  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 39.  
 PEAK 9236. 0.  
 CALIB. 0.6054 0.8981  
 K-FRC. 1.0245 1.0331  
 \*\*\* OUT-SEQ BEGUN \*\*\*

08:58 04/17/98  
 ID CODE 0000000015 UT1.0029 CAL#1  
 0000000015 0.8182% SULFUR .000062  
 OXYGEN FLOW 3.335  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 40. 39.  
 PEAK 9276. 0.  
 CALIB. 0.6054 0.8981  
 K-FRC. 1.0244 1.0324

Std \*\*\* STOCK CALIBRATION \*\*\*

08:59 04/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 0000000015 1.0028 0.8186 .00006  
 0000000014 1.0099 0.8196 .00001  
 0000000013 1.0030 0.8262 .00006  
 0000000012 0.9979 0.8239 .00004  
 0000000010 1.0010 0.8252 .00002  
 0000000009 0.9999 0.8172 .00006  
 0000000007 1.0040 0.8123 .00006  
 0000000006 1.0010 0.8273 .00002  
 0000000005 1.0040 0.8187 .00007  
 0000000004 1.0070 0.8145 .00004

CARBON STD % 90.8189  
 OLD C-CAL -1- 0.6054  
 INCLUDE CARBONH  
 0000000015 0.8186 .00006  
 0000000014 0.8196 .00001  
 0000000013 0.8262 .00006  
 0000000012 0.8239 .00004  
 0000000009 0.8252 .00002  
 NEW C-CAL -1- 0.6021

08:59 04/17/98  
 ID CODE WEIGHT CARBON% SULFUR%  
 0000000015 1.0029 0.8135 .00006  
 0000000014 1.0070 0.8151 .00001  
 0000000013 1.0030 0.8216 .00006  
 0000000012 0.9979 0.8192 .00004  
 0000000009 0.9919 0.8207 .00002  
 0000000008 0.9999 0.8126 .00006  
 0000000007 1.0040 0.8278 .00006  
 0000000004 1.0010 0.8227 .00002  
 0000000005 1.0040 0.8142 .00007  
 0000000004 1.0070 0.8169 .00004

\*\*\* END CALIBRATION \*\*\*

17.4.98

SL 4238-1

Long

ID CODE C000000036 WTB.1000 CAL#1  
 CARBON 0.3456% SULFUR .00052%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

663 TIME 51. 30.  
 PEAK 212. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0312  
 09:39 04/17/98

ID CODE C000000037 WTB.1000 CAL#1  
 CARBON 0.3456% SULFUR .00052%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

668 TIME 51. 30.  
 PEAK 232. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0309  
 09:40 04/17/98

ID CODE C000000038 WTB.1000 CAL#1  
 CARBON 0.3362% SULFUR .00033%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

673 TIME 41. 30.  
 PEAK 368. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0314  
 09:42 04/17/98

ID CODE C000000039 WTB.1000 CAL#1  
 CARBON 0.3457% SULFUR .00039%  
 OXYGEN FLOW 3.321  
 -C- -S-  
 BLANK +.000000 +.000000

678 TIME 49. 30.  
 PEAK 484. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0242 1.0317  
 09:43 04/17/98

ID CODE C000000040 WTB.1000 CAL#1  
 CARBON 0.3325% SULFUR .00014%  
 OXYGEN FLOW 3.327  
 -C- -S-  
 BLANK +.000000 +.000000

683 TIME 40. 30.  
 PEAK 656. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316  
 09:45 04/17/98

ID CODE C000000041 WTB.1000 CAL#1  
 CARBON 0.4957% SULFUR .00015%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

688 TIME 45. 30.  
 PEAK 494. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0309

ID CODE C000000042 WTB.1000 CAL#1  
 CARBON 0.4137% SULFUR .00068%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

693 TIME 59. 30.  
 PEAK 376. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0228 1.0309  
 09:47 04/17/98

ID CODE C000000043 WTB.1000 CAL#1  
 CARBON 0.4360% SULFUR .00053%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

698 TIME 40. 30.  
 PEAK 456. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0228 1.0309  
 09:49 04/17/98

ID CODE C000000044 WTB.1000 CAL#1  
 CARBON 0.3427% SULFUR .00044%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

58 std TIME 48. 30.  
 PEAK 488. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0234 1.0314  
 09:51 CLEANING TIME #44  
 09:50 04/17/98

ID CODE C000000047 WTB.1000 CAL#1  
 CARBON 0.6187% SULFUR .00001%  
 OXYGEN FLOW 3.324  
 -C- -S-  
 BLANK +.000000 +.000000

0,818 TIME 49. -30.  
 PEAK 8490. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0230 1.0305  
 09:52 04/17/98

ID CODE C000000048 WTB.1000 CAL#1  
 CARBON 0.8191% SULFUR .00006%  
 OXYGEN FLOW 3.321  
 -C- -S-  
 BLANK +.000000 +.000000

0,818 TIME 49. 30.  
 PEAK 7298. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0225 1.0300  
 09:53 04/17/98

ID CODE C000000049 WTB.1000 CAL#1  
 CARBON 11.91% SULFUR .00096%  
 OXYGEN FLOW 3.327  
 -C- -S-  
 BLANK +.000000 +.000000

CaCO<sub>3</sub> TIME 40. 30.  
 PEAK 14906. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316

long

SL 4238 -

17.4.98

09:18 04/17/98  
 ID CODE: C000000026 WTB, 1000 CAL#1  
 CARBON 0.3367% SULFUR .000032%  
 OXYGEN FLOW 3.328  
 -C- -S-  
 638 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 304. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0312  
 \*\*\* CLEANING TIME \*\*\*

09:20 04/17/98  
 ID CODE: C000000027 WTB, 1000 CAL#1  
 CARBON 0.3374% SULFUR .000042%  
 OXYGEN FLOW 3.330  
 -C- -S-  
 643 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 299. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0316

09:21 04/17/98  
 ID CODE: C000000028 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000041%  
 OXYGEN FLOW 3.328  
 -C- -S-  
 648 BLANK +.000000 +.000000  
 TIME 41. 30.  
 PEAK 258. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0312

09:23 04/17/98  
 ID CODE: C000000029 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000032%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 58std BLANK +.000000 +.000000  
 TIME 59. 30.  
 PEAK 487. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0314

09:24 04/17/98  
 ID CODE: C000000030 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000032%  
 OXYGEN FLOW 3.327  
 -C- -S-  
 0.818 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 9934. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316

09:25 04/17/98  
 ID CODE: C000000031 WTB, 1000 CAL#1  
 CARBON 0.3373% SULFUR .000032%  
 OXYGEN FLOW 3.328  
 -C- -S-

0.818 std BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 9526. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0317

09:27 04/17/98  
 ID CODE: C000000032 WTB, 0900 CAL#1  
 CARBON 0.3367% SULFUR .000032%  
 OXYGEN FLOW 3.330  
 -C- -S-  
 638 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 17677. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0240 1.0316

09:28 04/17/98  
 ID CODE: C000000033 WTB, 0500 CAL#1  
 CARBON 0.3370% SULFUR .000032%  
 OXYGEN FLOW 3.328  
 -C- -S-  
 WST BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 2375. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0240 1.0312  
 \*\*\* OUT-SEG REGUN \*\*\*

09:30 04/17/98  
 ID CODE: C000000045 WTB, 0500 CAL#1  
 CARBON 0.3371% SULFUR .000032%  
 OXYGEN FLOW 3.333  
 WST -C- -S-  
 BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 2126. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0246 1.0321  
 \*\*\* OUT-SEG REGUN \*\*\*

09:33 04/17/98  
 ID CODE: C000000046 WTB, 1000 CAL#1  
 CARBON 0.3371% SULFUR .000032%  
 OXYGEN FLOW 3.324  
 303 -C- -S-  
 std BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8431. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0242 1.0322

09:34 04/17/98  
 ID CODE: C000000034 WTB, 1000 CAL#1  
 CARBON 0.3369% SULFUR .000032%  
 OXYGEN FLOW 3.331  
 653 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 260. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0317

09:36 04/17/98  
 ID CODE: C000000035 WTB, 1000 CAL#1  
 CARBON 0.3364% SULFUR .000032%  
 OXYGEN FLOW 3.330  
 -C- -S-

658 BLANK +.000000 +.000000  
 TIME 52. 30.  
 PEAK 176. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0316

17.4.98

SL 4238-1

MUC 4238-2

Tong

10:13 04/17/98

ID CODE 080000061 WTD.1000 CAL#1  
CARBON 0.1836% SULFUR .00037%  
OXYGEN FLOW 3.323

748

-C- -S-  
BLANK +.00000 +.00000  
TIME 41. 30.  
PEAK 180. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0229 1.0309  
10:15 04/17/98

ID CODE 080000062 WTD.1000 CAL#1  
CARBON 0.1852% SULFUR .00035%  
OXYGEN FLOW 3.324

58 dd

-C- -S-  
BLANK +.00000 +.00000  
TIME 48. 30.  
PEAK 540. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0230 1.0311  
10:16 04/17/98

ID CODE 080000064 WTD.0000 CAL#1  
CARBON 0.1869% SULFUR .00030%  
OXYGEN FLOW 3.321

0,818

-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 9844. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0231 1.0309  
#1 OUT-SEQ BEGIN \*\*\*

10:18 04/17/98

ID CODE 080000067 WTD.0000 CAL#1  
CARBON 0.1921% SULFUR .00035%  
OXYGEN FLOW 3.324

dd

-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 9985. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0239 1.0311  
10:19 04/17/98

ID CODE 080000065 WTD.1010 CAL#1  
CARBON 0.144% SULFUR .00027%  
OXYGEN FLOW 3.326

lolo3

-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 15278. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0243 1.0309  
#1 CLEANING TIME \*\*\*

10:20 04/17/98

ID CODE 080000066 WTD.0510 CAL#1  
CARBON 0.1703% SULFUR .00031%  
OXYGEN FLOW 3.324

WST

-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 1987. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0236 1.0305

#1 OUT-SEQ BEGIN \*\*\*

10:23 04/17/98

ID CODE 080000069 WTD.0500 CAL#1  
CARBON 0.1703% SULFUR .00031%  
OXYGEN FLOW 3.326

WST

-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 1891. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0234 1.0309  
10:24 04/17/98

ID CODE 080000068 WTD.1000 CAL#1  
CARBON 0.1824% SULFUR .00035%  
OXYGEN FLOW 3.324

303

-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 7939. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0230 1.0305  
10:25 04/17/98

ID CODE 080000070 WTD.1000 CAL#1  
CARBON 0.1795% SULFUR .00030%  
OXYGEN FLOW 3.323

753

-C- -S-  
BLANK +.00000 +.00000  
TIME 46. 30.  
PEAK 164. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0256 1.0321  
10:30 04/17/98

ID CODE 080000071 WTD.1000 CAL#1  
CARBON 0.1825% SULFUR .00027%  
OXYGEN FLOW 3.325

758

-C- -S-  
BLANK +.00000 +.00000  
TIME 51. 30.  
PEAK 152. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0244 1.0307  
10:31 04/17/98

ID CODE 080000072 WTD.1000 CAL#1  
CARBON 0.1802% SULFUR .00037%  
OXYGEN FLOW 3.326

MUC

-C- -S-  
BLANK +.00000 +.00000  
TIME 50. 30.  
PEAK 368. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0246 1.0314  
10:33 04/17/98

ID CODE 080000073 WTD.1000 CAL#1  
CARBON 0.1794% SULFUR .00037%  
MUC OXYGEN FLOW 3.322

2-3

-C- -S-  
BLANK +.00000 +.00000  
TIME 60. 30.  
PEAK 268. 0.  
CALIB. 0.6021 0.8981  
K FRC. 1.0239 1.0307  
10:34 04/17/98

10:04 04/17/98  
 ID CODE 000000050 WTD. 0520 CAL#1  
 CARBON 0.4779% SULFUR .00157%  
 OXYGEN FLOW 3.325  
 -C- -S-  
 BLANK +.000000 +.000000

WST

TIME 40. 30.  
 PEAK 2161. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0232 1.0313  
 09:56 04/17/98

ID CODE 000000051 WTD. 1020 CAL#1  
 CARBON 0.5980% SULFUR .00058%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

58std

TIME 55. 30.  
 PEAK 469. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0234 1.0314  
 10:02 OUT-STD BEGUN \*\*\*  
 09:58 04/17/98

ID CODE 000000052 WTD. 0920 CAL#1  
 CARBON 0.1050% SULFUR .00077%  
 OXYGEN FLOW 3.330  
 -C- -S-  
 BLANK +.000000 +.000000

303std

TIME 40. 30.  
 PEAK 7494. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0237 1.0316  
 10:00 04/17/98

ID CODE 000000053 WTD. 1020 CAL#1  
 CARBON 0.4755% SULFUR .00032%  
 OXYGEN FLOW 3.331  
 -C- -S-  
 BLANK +.000000 +.000000

703

TIME 47. 30.  
 PEAK 428. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0242 1.0323  
 10:02 04/17/98

ID CODE 000000053 WTD. 1020 CAL#1  
 CARBON 0.4847% SULFUR .00032%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

708

TIME 40. 30.  
 PEAK 394. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0234 1.0309  
 10:03 04/17/98

ID CODE 000000054 WTD. 1020 CAL#1  
 CARBON 0.4761% SULFUR .00041%  
 OXYGEN FLOW 3.325  
 -C- -S-  
 BLANK +.000000 +.000000

713

TIME 41. 30.  
 PEAK 544. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0235 1.0307

10:04 04/17/98  
 ID CODE 000000055 WTD. 1020 CAL#1  
 CARBON 0.4986% SULFUR .00043%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 BLANK +.000000 +.000000

718

TIME 43. 30.  
 PEAK 409. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0249 1.0309  
 10:06 04/17/98

ID CODE 000000056 WTD. 1020 CAL#1  
 CARBON 0.4987% SULFUR .00043%  
 OXYGEN FLOW 3.324  
 -C- -S-  
 BLANK +.000000 +.000000

723

TIME 44. 30.  
 PEAK 448. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0236 1.0311  
 10:07 04/17/98

ID CODE 000000057 WTD. 1020 CAL#1  
 CARBON 0.4119% SULFUR .00029%  
 OXYGEN FLOW 3.324  
 -C- -S-  
 BLANK +.000000 +.000000

728

TIME 49. 30.  
 PEAK 446. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0233 1.0305  
 10:08 04/17/98

ID CODE 000000058 WTD. 1020 CAL#1  
 CARBON 0.4882% SULFUR .00038%  
 OXYGEN FLOW 3.325  
 -C- -S-  
 BLANK +.000000 +.000000

733

TIME 41. 30.  
 PEAK 488. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0237 1.0307  
 10:10 04/17/98

ID CODE 000000059 WTD. 1020 CAL#1  
 CARBON 0.4829% SULFUR .00045%  
 OXYGEN FLOW 3.322  
 -C- -S-  
 BLANK +.000000 +.000000

738

TIME 54. 30.  
 PEAK 344. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0226 1.0307  
 10:11 04/17/98

ID CODE 000000060 WTD. 1020 CAL#1  
 CARBON 0.5255% SULFUR .00023%  
 OXYGEN FLOW 3.322  
 -C- -S-  
 BLANK +.000000 +.000000

743

TIME 40. 30.  
 PEAK 356. 0.  
 CALIB. 0.6021 0.8981  
 K.FAC. 1.0226 1.0302

174.99 Mue 4238-2 Lang

20.4.98 SL 4238-7

Lges

10:54 04/17/98  
 ID CODE C000000085 WTD.1010 CAL#1  
 CARBON 7.942% SULFUR .00059%  
 OXYGEN FLOW 3.324

303 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8508. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0245 1.0305  
 \*\*\* CLEANING TIME \*\*\*  
 10:58 04/17/98

ID CODE C000000087 WTD.1000 CAL#1  
 CARBON 7.872% SULFUR .00051%  
 OXYGEN FLOW 3.328

303 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 7975. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0259 1.0312  
 11:01 04/17/98

ID CODE C000000088 WTD.0490 CAL#1  
 CARBON 3.920% SULFUR .00000%  
 OXYGEN FLOW 3.329

wst -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 7.  
 PEAK 2082. 181  
 CALIB. 0.6021 0.874  
 K FRC. 1.0255

## AMBIENT MONITOR

09:59 04/20/98

|                | O2 FLOW | LAMIN | .997  |
|----------------|---------|-------|-------|
| C. CELL        | TMP.    | C     | 48.8  |
| S. CELL        | TMP.    | C     | 48.2  |
| OVEN           | TMP.    | C     | 47.9  |
| CRT. HTR. TMP. | TMP.    | C     | 342.1 |
| 5. REFF.       |         |       | 5.00  |
| 5. VOLT        |         | +     | 5.00  |
| 24. VOLT       |         | +     | 23.98 |
| 20. VOLT       |         | +     | 29.96 |
| 15. VOLT       |         | +-    | 14.99 |
| C. EMITR.      |         |       | 5.50  |
| S. EMITR.      |         |       | 5.50  |
| C. IR CELL     |         |       | 8.111 |
| S. IR CELL     |         |       | 8.509 |

10:00 04/20/98

ID CODE C000000089 WTD.1000 CAL#1  
 CARBON 12.84% SULFUR .00075%  
 OXYGEN FLOW 3.217

0.818 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14841. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0060 1.0121  
 10:01 04/20/98

ID CODE C000000090 WTD.1000 CAL#1  
 CARBON 12.42% SULFUR .00059%  
 OXYGEN FLOW 3.585

0.818 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 14767. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 0.8947 0.8995  
 10:02 04/20/98

ID CODE C000000091 WTD.1010 CAL#1  
 CARBON 11.97% SULFUR .00000%  
 OXYGEN FLOW 3.092

0.818 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 13812. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 0.9837 0.9899

10:35 04/17/98  
 ID CODE C00000074 UTO.1000 CAL#1  
 CARBON 0.3383% SULFUR .000072%  
 OXYGEN FLOW 3.323  
*Muc*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 61. 30.  
 PEAK 304. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0303  
 10:36 04/17/98

10:44 04/17/98  
 ID CODE C00000074 UTO.1000 CAL#1  
 CARBON 0.3383% SULFUR .000072%  
 OXYGEN FLOW 3.319  
*58dd*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 53. 30.  
 PEAK 484. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0296  
 10:45 04/17/98

10:44 04/17/98  
 ID CODE C00000075 UTO.1000 CAL#1  
 CARBON 0.2993% SULFUR .000072%  
 OXYGEN FLOW 3.321  
*Muc*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 57. 30.  
 PEAK 255. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0234 1.0300  
 10:39 04/17/98

10:47 04/17/98  
 ID CODE C00000075 UTO.1000 CAL#1  
 CARBON 0.2993% SULFUR .000072%  
 OXYGEN FLOW 3.321  
*(5-6)*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 47. 30.  
 PEAK 194. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0300  
 10:39 04/17/98

10:47 04/17/98  
 ID CODE C00000076 UTO.1000 CAL#1  
 CARBON 0.2347% SULFUR .000052%  
 OXYGEN FLOW 3.321  
*Muc*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 47. 30.  
 PEAK 194. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0300  
 10:39 04/17/98

10:47 04/17/98  
 ID CODE C00000076 UTO.1000 CAL#1  
 CARBON 0.2347% SULFUR .000052%  
 OXYGEN FLOW 3.321  
*5-6*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 47. 30.  
 PEAK 194. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0231 1.0300  
 10:39 04/17/98

10:48 04/17/98  
 ID CODE C00000077 UTO.1000 CAL#1  
 CARBON 0.3173% SULFUR .000057%  
 OXYGEN FLOW 3.322  
*Muc*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 62. 30.  
 PEAK 244. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0236 1.0302  
 10:41 04/17/98

10:49 04/17/98  
 ID CODE C00000077 UTO.1000 CAL#1  
 CARBON 0.3173% SULFUR .000057%  
 OXYGEN FLOW 3.322  
*(5-7)*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 62. 30.  
 PEAK 244. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0236 1.0302  
 10:41 04/17/98

10:50 04/17/98  
 ID CODE C00000078 UTO.1000 CAL#1  
 CARBON 0.3112% SULFUR .000041%  
 OXYGEN FLOW 3.320  
*Muc*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 59. 30.  
 PEAK 216. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0303  
 10:43 04/17/98

10:50 04/17/98  
 ID CODE C00000078 UTO.1000 CAL#1  
 CARBON 0.3112% SULFUR .000041%  
 OXYGEN FLOW 3.320  
*7-8*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 59. 30.  
 PEAK 216. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0303  
 10:43 04/17/98

10:51 04/17/98  
 ID CODE C00000079 UTO.1000 CAL#1  
 CARBON 0.2654% SULFUR .000034%  
 OXYGEN FLOW 3.317  
*Muc*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 52. 30.  
 PEAK 284. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0233 1.0292  
 10:43 04/17/98

10:53 04/17/98  
 ID CODE C00000079 UTO.1000 CAL#1  
 CARBON 0.2654% SULFUR .000034%  
 OXYGEN FLOW 3.317  
*8-9*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 52. 30.  
 PEAK 284. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0233 1.0292  
 10:43 04/17/98

10:44 04/17/98  
 ID CODE C00000080 UTO.1000 CAL#1  
 CARBON 0.5353% SULFUR .000171%  
 OXYGEN FLOW 3.319  
*58dd*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 53. 30.  
 PEAK 484. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0296  
 10:45 04/17/98

10:45 04/17/98  
 ID CODE C00000081 UTO.1000 CAL#1  
 CARBON 0.8122% SULFUR .000332%  
 OXYGEN FLOW 3.319  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8643. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0237 1.0302  
 10:45 OUT-SEA REGUM \*\*\*  
 10:47 04/17/98

10:47 04/17/98  
 ID CODE C00000082 UTO.1000 CAL#1  
 CARBON 0.5320% SULFUR .000032%  
 OXYGEN FLOW 3.322  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 10410. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0242 1.0302  
 10:49 04/17/98

10:49 04/17/98  
 ID CODE C00000082 UTO.1000 CAL#1  
 CARBON 11.86% SULFUR .000932%  
 OXYGEN FLOW 3.325  
 -C- -S-  
*CaCO<sub>3</sub>*  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 15360. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0244 1.0313  
 10:50 04/17/98

10:50 04/17/98  
 ID CODE C00000084 UTO.0510 CAL#1  
 CARBON 3.68% SULFUR .000312%  
 OXYGEN FLOW 3.324  
*WST*  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 2262. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0239 1.0305  
 10:52 OUT-SEA REGUM \*\*\*  
 10:53 04/17/98

10:53 04/17/98  
 ID CODE C00000086 UTO.0510 CAL#1  
 CARBON 3.576% SULFUR .000371%  
*WST*  
 OXYGEN FLOW 3.329  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 2192. 0.  
 CALIB. 0.6021 0.8981  
 K FRC. 1.0235 1.0314  
 10:53 04/17/98

20.4.98

SL 4238-7

Lys

10:17 04/20/98  
ID CODE C000000099 WTI 0050 CAL#1  
CARBON 0.8179% SULFUR .000000%  
OXYGEN FLOW 3.317  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 10095. 0.  
CALIB. 0.5986 0.8981  
K FRC. 1.0233 1.0298  
10:18 04/20/98

ID CODE C000000099 WTI 00000 CAL#1  
CARBON 0.8147% SULFUR .000000%  
OXYGEN FLOW 3.314  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 10027. 0.  
CALIB. 0.5986 0.8981  
K FRC. 1.0228 1.0292  
10:19 04/20/98

ID CODE C000000091 WTI 0020 CAL#1  
CARBON 0.8232% SULFUR .000000%  
OXYGEN FLOW 3.311  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 10548. 0.  
CALIB. 0.5986 0.8981  
K FRC. 1.0228 1.0282  
10:21 04/20/98

ID CODE C000000042 WTI 0070 CAL#1  
CARBON 0.7988% SULFUR .000000%  
OXYGEN FLOW 3.310  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 6842. 0.  
CALIB. 0.5986 0.8981  
K FRC. 1.0218 1.0286

## \*\*\* STOCK CALIBRATION \*\*\*

10:21 04/20/98

ID CODE WEIGHT CARBON% SULFUR%  
C000000002 1.0070 0.7988 .000000  
C000000031 1.0020 0.8223 .000003  
C000000000 1.0000 0.8147 .000006  
C000000099 1.0070 0.8179 .000003  
C000000000 1.0000 0.8191 .000003  
C000000097 1.0000 0.8045 .000004  
C000000096 1.0000 0.8076 .000007  
C000000095 0.9990 0.8199 .000004  
C000000094 1.0000 0.8252 .000002  
C000000093 1.0020 0.8203 .000005

CARBON STR.N 00.8180  
OLD C-CAL -1 - 0.5986  
INCLUDE CARBON  
000000001 0.8223  
000000000 0.8147  
000000099 0.8179  
000000098 0.8191  
000000097 0.8064  
NEW C-CAL -1 - 0.5986

\*\*\* OUT-SEQ RESULT \*\*\*  
10:24 04/20/98

ID CODE C000000096 WTI 0.9930 CAL#1  
CARBON 0.8133% SULFUR .000000%  
OXYGEN FLOW 3.319  
-C- -S-

0.818 BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 8971. 0.  
CALIB. 0.5903 0.8981  
K FRC. 1.0237 1.0296  
10:25 04/20/98

ID CODE C000000093 WTI 1.0000 CAL#1  
CARBON 1.0000% SULFUR .000050%  
OXYGEN FLOW 3.323  
-C- -S-

0.818 std Co<sub>2</sub>O<sub>3</sub> BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 12418. 0.  
CALIB. 0.5903 0.8981  
K FRC. 1.0247 1.0309  
10:27 04/20/98

ID CODE C000000004 WTI 1.0000 CAL#1  
CARBON 1.0456% SULFUR .000051%  
OXYGEN FLOW 3.313  
-C- -S-

303 Ad BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 7839. 0.  
CALIB. 0.5903 0.8981  
K FRC. 1.0233 1.0291  
10:28 04/20/98

ID CODE C000000095 WTI 0.8500 CAL#1  
CARBON 0.6961% SULFUR .000071%  
OXYGEN FLOW 3.313  
-C- -S-

0.818 W ST BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 1979. 0.  
CALIB. 0.5903 0.8981  
K FRC. 1.0233 1.0286  
\*\*\* CLEANING TIME \*\*\*  
\*\*\* OUT-SEQ RESULT \*\*\*

10:31 04/20/98

ID CODE C000000010 WTI 0.0520 CAL#1  
CARBON 0.7759% SULFUR .000047%  
OXYGEN FLOW 3.310  
-C- -S-

W ST BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 2096. 0.  
CALIB. 0.5903 0.8981  
K FRC. 1.0224 1.0280  
10:32 04/20/98

ID CODE C000000007 WTI 1.0000 CAL#1  
CARBON 1.0744% SULFUR .000028%  
OXYGEN FLOW 3.297  
-C- -S-

653 BLANK +.000000 +.000000  
TIME 40. 39.  
PEAK 7049. 0.  
CALIB. 0.5903 0.8981  
K FRC. 1.0198 1.0262

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SL4238-7

20.4.98

\*\*\* STACK CALIBRATION \*\*\*

10:04 04/20/98

10:09 04/20/98

ID CODE C000000092 UT1.0040 OBL#1  
CARBON 0.8356% SULFUR .00000%

CARBON WEIGHT CARBON SULFUR  
C000000096 1.0000 0.8269 .000007  
C000000095 0.9990 0.8386 .000004  
C000000094 1.0000 0.8441 .000002  
C000000093 1.0000 0.8390 .000005  
C000000092 1.0040 0.8356 .000008  
C000000091 0.1010 11.97 .000009  
C000000090 0.1000 12.42 .000059  
C000000089 0.1000 12.04 .000075  
C000000088 0.0490 3.822 .000009  
C000000087 0.1000 7.072 .000051

0.818

PLANK + .000000 + .000000  
TIME 40. 30.  
PEAK 10481. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0233 1.0292

10:05 04/20/98

CARBON STD.% 90.8189  
OBL C-CAL -1- 0.6021  
INCLUDE CARBON  
C000000096 0.8269  
C000000095 0.8386  
C000000094 0.8441  
C000000093 0.8390  
C000000092 0.8356  
NEW C-CAL -1- 0.5886

std

PLANK + .000000 + .000000  
TIME 40. 30.  
PEAK 9526. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0217 1.0276

10:06 04/20/98

10:10 04/20/98  
ID CODE WEIGHT CARBON SULFUR  
C000000096 1.0000 0.8076 .000007  
C000000095 0.9980 0.8199 .000004  
C000000094 1.0000 0.8252 .000002  
C000000093 1.0000 0.8303 .000005  
C000000092 1.0040 0.8170 .000009  
C000000091 0.1010 11.70 .000009  
C000000090 0.1000 12.14 .000059  
C000000089 0.1000 11.77 .000075  
C000000088 0.0490 3.737 .000008  
C000000087 0.1000 6.914 .000051

\*\*\* END CALIBRATION \*\*\*

10:14 04/20/98

ID CODE C000000095 UT0.9999 OBL#1  
CARBON 0.8386% SULFUR .000004%

10:10 04/20/98

OXYGEN FLOW 3.317  
-C- -S-  
PLANK + .000000 + .000000  
TIME 40. 30.  
PEAK 10725. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0239 1.0298

10:09 04/20/98

PLANK + .000000 + .000000  
TIME 40. 30.  
PEAK 6798. 0.  
CALIB. 0.5896 0.8981  
K.FAC. 1.0240 1.0305

std

PLANK + .000000 + .000000  
TIME 40. 30.  
PEAK 6690. 0.  
CALIB. 0.6021 0.8981  
K.FAC. 1.0228 1.0296

10:15 04/20/98  
ID CODE C000000096 UT1.0000 OBL#1  
CARBON 0.8369% SULFUR .000007%

10:11 04/20/98

OXYGEN FLOW 3.316  
-C- -S-  
PLANK + .000000 + .000000  
TIME 40. 30.  
PEAK 9443. 0.  
CALIB. 0.5896 0.8981  
K.FAC. 1.0234 1.0296

std

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SL 4238-1

20.4.98

10:34 04/20/98  
 ID CODE: C00000009 WT0, 1010 CAL#1  
 CARBON 7.336% SULFUR .000262%  
 OXYGEN FLOW 3.313  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9389. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0226 1.0291  
 10:35 04/20/98  
 ID CODE: C00000009 WT0, 1010 CAL#1  
 CARBON 7.265% SULFUR .000152%  
 OXYGEN FLOW 3.298  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9497. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0200 1.0259  
 10:36 04/20/98  
 ID CODE: C00000011 WT0, 1000 CAL#1  
 CARBON 7.282% SULFUR .000372%  
 OXYGEN FLOW 3.304  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8631. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0211 1.0275  
 10:38 04/20/98  
 ID CODE: C00000012 WT0, 1010 CAL#1  
 CARBON 6.527% SULFUR .000482%  
 OXYGEN FLOW 3.293  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 5695. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0197 1.0255  
 10:39 04/20/98  
 ID CODE: C00000013 WT0, 1000 CAL#1  
 CARBON 6.899% SULFUR .000422%  
 OXYGEN FLOW 3.295  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7291. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0201 1.0253  
 10:40 04/20/98  
 ID CODE: C00000014 WT0, 1000 CAL#1  
 CARBON 7.460% SULFUR .000412%  
 OXYGEN FLOW 3.294  
 -C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7836. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0199 1.0257

10:42 04/20/98  
 ID CODE: C00000015 WT0, 1010 CAL#1  
 CARBON 6.136% SULFUR .000522%  
 OXYGEN FLOW 3.309  
 -C- -S-  
 688  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9987. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0225 1.0278  
 10:44 04/20/98  
 ID CODE: C00000016 WT0, 1010 CAL#1  
 CARBON 7.510% SULFUR .000452%  
 OXYGEN FLOW 3.285  
 -C- -S-  
 693  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 8189. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0180 1.0242  
 10:45 04/20/98  
 ID CODE: C00000017 WT0, 1000 CAL#1  
 CARBON 7.416% SULFUR .000502%  
 OXYGEN FLOW 3.296  
 -C- -S-  
 698  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7913. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0197 1.0255  
 10:46 04/20/98  
 ID CODE: C00000018 WT1, 0020 CAL#1  
 CARBON 6.8291% SULFUR .000062%  
 OXYGEN FLOW 3.291  
 -C- -S-  
 0, 818  
 671  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 9669. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0187 1.0247  
 10:50 04/20/98  
 ID CODE: C00000019 WT0, 1000 CAL#1  
 CARBON 11.98% SULFUR .000072%  
 OXYGEN FLOW 3.304  
 -C- -S-  
 670  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 15932. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0217 1.0270  
 10:52 04/20/98  
 ID CODE: C00000020 WT0, 1000 CAL#1  
 CARBON 7.221% SULFUR .000292%  
 OXYGEN FLOW 3.275  
 -C- -S-  
 503  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 7939. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0165 1.0218

20.4.98

SL 4238-7

C98

10:53 04/20/98  
ID CODE C000000021 WT0.0500 CAL#1  
CARBON 3.663% SULFUR .000079%  
OXYGEN FLOW 3.302  
WST -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 1856. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0216 1.0266  
10:56 04/20/98  
ID CODE C000000022 WT0.0510 CAL#1  
CARBON 3.815% SULFUR .000079%  
OXYGEN FLOW 3.291  
WST -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 2142. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0193 1.0247  
11:50 04/20/98  
ID CODE C000000023 WT1.0000 CAL#1  
CARBON 9.205% SULFUR .000003%  
OXYGEN FLOW 3.317  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10582. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0215 1.0292  
\*\*\* OUT-SEQ BEGUN \*\*\*  
11:52 04/20/98  
ID CODE C000000033 WT1.0020 CAL#1  
CARBON 9.814% SULFUR .000006%  
OXYGEN FLOW 3.304  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 9785. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0217 1.0275  
11:53 04/20/98  
ID CODE C000000024 WT0.0990 CAL#1  
CARBON 11.91% SULFUR .000061%  
OXYGEN FLOW 3.308  
-C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 15357. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0226 1.0276  
11:55 04/20/98  
ID CODE C000000025 WT0.1000 CAL#1  
CARBON 7.862% SULFUR .000077%  
3 Ø8 V 58 OXYGEN FLOW 3.291  
? -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7979. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0197 1.0247  
444 CLEANING TIME \*\*\*

\*\*\* OUT-SEQ BEGUN \*\*\*  
11:58 04/20/98  
ID CODE C000000034 WT0.1000 CAL#1  
CARBON 7.034% SULFUR .000088%  
OXYGEN FLOW 3.292  
303g/t -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7981. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0232 1.0248  
11:59 04/20/98  
ID CODE C000000026 WT0.0510 CAL#1  
CARBON 3.614% SULFUR .000017%  
OXYGEN FLOW 3.307  
-C- -S-  
WST -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 1912. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0228 1.0275  
\*\*\* OUT-SEQ BEGUN \*\*\*  
12:01 04/20/98  
ID CODE C000000035 WT0.0500 CAL#1  
CARBON 3.735% SULFUR .000042%  
OXYGEN FLOW 3.302  
WST -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 2111. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0219 1.0266  
12:03 04/20/98  
ID CODE C000000027 WT0.1000 CAL#1  
CARBON 7.254% SULFUR .000055%  
OXYGEN FLOW 3.268  
703 -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 6892. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0159 1.0296  
12:04 04/20/98  
ID CODE C000000028 WT0.1000 CAL#1  
CARBON 5.901% SULFUR .000053%  
OXYGEN FLOW 3.283  
708 -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 6216. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0182 1.0233  
12:05 04/20/98  
ID CODE C000000029 WT0.1000 CAL#1  
CARBON 9.507% SULFUR .000050%  
OXYGEN FLOW 3.295  
773 -C- -S-  
BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8977. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0201 1.0253

Crys 20 SC 4238-7

20.4.98

12:17 04/20/98  
ID CODE: C000000030 WTB.0990 CAL#1  
CARBON 7.217% SULFUR .000502%  
OXYGEN FLOW 3.286  
-C- -S-  
718

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7414. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0184 1.0243  
12:09 04/20/98

ID CODE: C000000031 WTB.1010 CAL#1  
CARBON 7.260% SULFUR .000412%  
OXYGEN FLOW 3.291  
-C- -S-  
723

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7991. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0197 1.0252  
12:09 04/20/98

ID CODE: C000000032 WTB.1010 CAL#1  
CARBON 6.406% SULFUR .000672%  
OXYGEN FLOW 3.285  
-C- -S-  
728

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7233. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0189 1.0242  
12:11 04/20/98

ID CODE: C000000036 WTB.1000 CAL#1  
CARBON 7.015% SULFUR .000072%  
OXYGEN FLOW 3.304  
-C- -S-  
733

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7224. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0223 1.0275  
12:12 04/20/98

ID CODE: C000000037 WTB.1000 CAL#1  
CARBON 7.037% SULFUR .000402%  
OXYGEN FLOW 3.306  
-C- -S-  
738

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8599. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0226 1.0279  
12:13 04/20/98

ID CODE: C000000038 WTB.1000 CAL#1  
CARBON 6.858% SULFUR .000512%  
OXYGEN FLOW 3.306  
-C- -S-  
743

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7176. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0226 1.0273

12:15 04/20/98  
ID CODE: C000000039 WTB.1000 CAL#1  
CARBON 6.977% SULFUR .000332%  
OXYGEN FLOW 3.304  
-C- -S-  
748

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7041. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0223 1.0270  
12:16 04/20/98

ID CODE: C000000040 WTB.1000 CAL#1  
CARBON 7.103% SULFUR .000072%  
OXYGEN FLOW 3.299  
-C- -S-  
753

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 7456. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0214 1.0267  
12:17 04/20/98

ID CODE: C000000041 WTB.0040 CAL#1  
CARBON 0.7047% SULFUR .000021%  
OXYGEN FLOW 3.309  
-C- -S-  
758

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 8021. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0228 1.0278  
12:19 04/20/98

ID CODE: C000000042 WTB.1000 CAL#1  
CARBON 8.198% SULFUR .000282%  
OXYGEN FLOW 3.299  
-C- -S-  
Jalsd

Ad x0.1

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10351. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0208 1.0267  
### OUT-SEN BEGIN ###  
12:21 04/20/98

ID CODE: C000000045 WTB.0010 CAL#1  
CARBON 0.8116% SULFUR .000042%  
OXYGEN FLOW 3.306  
-C- -S-  
0.818

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10425. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0223 1.0273  
### OUT-SEN BEGIN ###  
12:23 04/20/98

ID CODE: C000000046 WTB.9980 CAL#1  
CARBON 0.8111% SULFUR .000042%  
OXYGEN FLOW 3.309  
-C- -S-  
ctd

BLANK +.000000 +.000000  
TIME 40. 30.  
PEAK 10769. 0.  
CALIB. 0.5903 0.8981  
K.FAC. 1.0231 1.0278

20.4.98

SL 4238-1 Cgas

21.4.98 MUC 4238-2 Long

12:24 04/20/98

## AMBIENT MONITOR

ID CODE C00000343 Wt0.1019 CAL#1

13:53 04/21/98

CARBON 11.25% SULFUR .000443  
OXYGEN FLOW 3.314

-C -S-

BLANK +.000000 +.000000

O2 FLOW L/min .005

TIME 40. 30.

C. CELL TMP. °C 49.8

PEAK 14915. 0.

S. CELL TMP. °C 48.2

CALIB. 0.5903 0.8981

OVEN TMP. °C 49.2

K FRC. 1.0240 1.0287

CAT. HTR. TMP. °C 342.4

12:26 04/20/98

5. REFF. 5.00

ID CODE C00000344 Wt0.2510 CAL#1

5. VOLT + 5.00

CARBON 13.76% SULFUR .000163

24. VOLT + 23.98

OXYGEN FLOW 3.309

30. VOLT + 29.99

-C -S-

2x303 BLANK +.000000 +.000000

13:54 04/21/98

SW TIME 40. 30.

C. EHTR. 5.50

PEAK 7663. 0.

S. EHTR. 5.50

CALIB. 0.5903 0.8981

C. IR CELL 8.276

K FRC. 1.0231 1.0284

S. IR CELL 8.510

\*\*\* CLEAVING TIME \*\*\*

12:27 04/20/98

ID CODE C00000347 Wt0.1009 CAL#1

13:55 04/21/98

CARBON 6.982% SULFUR .000427

CARBON 11.80% SULFUR .00040%

OXYGEN FLOW 3.310

OXYGEN FLOW 3.345

-C -S-

303 BLANK +.000000 +.000000

-C -S-

ST TIME 40. 30.

BLANK +.000000 +.000000

PEAK 7448. 0.

TIME 40. 30.

CALIB. 0.5903 0.8981

PEAK 13923. 0.

K FRC. 1.0233 1.0286

CALIB. 0.5903 0.8981

12:33 04/20/98

K FRC. 1.0239 1.0348

ID CODE C00000348 Wt0.0700 CAL#1

13:55 04/21/98

CARBON 5.770% SULFUR .00030%

CARBON 11.99% SULFUR .00006%

OXYGEN FLOW 3.318

OXYGEN FLOW 3.338

-C -S-

wST BLANK +.000000 +.000000

-C -S-

TIME 40. 30.

BLANK +.000000 +.000000

PEAK 2265. 0.

TIME 40. 30.

CALIB. 0.5903 0.8981

PEAK 13919. 0.

K FRC. 1.0241 1.0294

CALIB. 0.5903 0.8981

12:36 04/20/98

K FRC. 1.0230 1.0330

ID CODE C00000349 Wt1.0048 CAL#1

13:57 04/21/98

CARBON 0.8150% SULFUR .00004%

CARBON 12.17% SULFUR .00010%

OXYGEN FLOW 3.309

OXYGEN FLOW 3.336

-C -S-

0.818 BLANK +.000000 +.000000

-C -S-

ST TIME 40. 30.

BLANK +.000000 +.000000

PEAK 9927. 0.

TIME 40. 30.

CALIB. 0.5903 0.8981

PEAK 15089. 0.

K FRC. 1.0231 1.0284

CALIB. 0.5903 0.8981

12:37 04/20/98

K FRC. 1.0276 1.0326

ID CODE C00000350 Wt1.9050 CAL#1

13:58 04/21/98

CARBON 0.8203% SULFUR .00002%

CARBON 0.8203% SULFUR .00002%

OXYGEN FLOW 3.329

OXYGEN FLOW 3.329

-C -S-

STD BLANK +.000000 +.000000

BLANK +.000000 +.000000

TIME 40. 30.

TIME 40. 30.

PEAK 18017. 0.

PEAK 18017. 0.

CALIB. 0.5903 0.8981

CALIB. 0.5903 0.8981

K FRC. 1.0264 1.0314

K FRC. 1.0264 1.0314

Long

MUC 4238-2

21.4.98

14:59 04/21/98

ID CODE C080000054 WT1.0030 CAL#1  
 CARBON 0.8227% SULFUR .00003%  
 OXYGEN FLOW 3.327  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10657. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0257 1.0310  
  
 ID CODE C080000055 WT1.0010 CAL#1  
 CARBON 0.8222% SULFUR .00003%  
 OXYGEN FLOW 3.325  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10658. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0254 1.0307  
  
 ID CODE C080000056 WT1.0040 CAL#1  
 CARBON 0.8133% SULFUR .00003%  
 OXYGEN FLOW 3.324  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8711. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0248 1.0305  
  
 ID CODE C080000057 WT1.0060 CAL#1  
 CARBON 0.8136% SULFUR .00003%  
 OXYGEN FLOW 3.326  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6541. 0.  
 CALIB. 0.5903 0.8981  
 K FRC. 1.0250 1.0314

PPR STACK CALIBRATION ???

14:03 04/21/98

ID CODE WEIGHT CARBON% SULFUR%  
 C080000057 1.0069 0.8136 .00003  
 C080000054 1.0040 0.8133 .00002  
 C080000055 1.0019 0.8222 .00007  
 C080000054 1.0030 0.8227 .00003  
 C080000053 1.0050 0.8203 .00002  
 C080000052 0.1000 12.17 .00010  
 C080000051 0.1000 11.98 .00006  
 C080000050 0.1000 11.98 .00040  
 C080000049 1.0040 0.8159 .00004  
 C080000048 0.0500 3.750 .00030

CARBON STR.% 00.8136

OLD C-CAL -1- 0.5903  
 INCLUDE CARBON  
 C080000057 0.8136  
 C080000056 0.8133  
 C080000055 0.8222  
 C080000054 0.8227  
 C080000053 0.8203  
 NEW C-CAL -1- 0.5900

14:04 04/21/98

ID CODE WEIGHT CARBON% SULFUR%  
 C080000057 1.0069 0.8131 .00003  
 C080000056 1.0040 0.8129 .00002  
 C080000055 1.0019 0.8218 .00007  
 C080000054 1.0030 0.8223 .00003  
 C080000053 1.0050 0.8199 .00002  
 C080000052 0.1000 12.16 .00010  
 C080000051 0.1000 11.97 .00006  
 C080000050 0.1000 11.79 .00040  
 C080000049 1.0040 0.8146 .00004  
 C080000048 0.0500 3.750 .00030

PPR END CALIBRATION ???

14:05 04/21/98

ID CODE C080000058 WT1.0050 CAL#1  
 CARBON 0.8233% SULFUR .00004%  
 OXYGEN FLOW 3.330  
 -C- -S-  
 0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10510. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0259 1.0316  
  
 ID CODE C080000059 WT1.0090 CAL#1  
 CARBON 0.8192% SULFUR .00003%  
 OXYGEN FLOW 3.331  
 -C- -S-

0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 10094. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0267 1.0317

14:13 04/21/98  
 ID CODE C080000060 WT0.0990 CAL#1  
 CARBON 12.16% SULFUR .00007%  
 OXYGEN FLOW 3.333  
 -C- -S-

0,818 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 15355. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0268 1.0321

14:15 04/21/98  
 ID CODE C080000061 WT0.1000 CAL#1  
 CARBON 7.0202% SULFUR .00010%  
 OXYGEN FLOW 3.329  
 -C- -S-

303 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8240. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0258 1.0314  
  
 14:17 04/21/98

ID CODE C080000062 WT0.0500 CAL#1  
 CARBON 3.774% SULFUR .00104%  
 OXYGEN FLOW 3.325  
 -C- -S-

WST BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 2092. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0247 1.0313

21.4.98

MUC 4238 -2

Long

14:18 04/21/98

ID CODE C00000063 WTD. 0000 CAL#1  
 CARBON 0.2739% SULFUR .00053%  
 OXYGEN FLOW 3.328  
 -C- -S-

WST

BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 2335. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0259 1.0312  
 14:28 04/21/98

ID CODE C00000064 WTD. 1000 CAL#1  
 CARBON 0.3900% SULFUR .00024%  
 OXYGEN FLOW 3.324

58std

-C- -S-  
 BLANK +.000000 +.000000  
 TIME 40. 30.  
 PEAK 620. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0252 1.0305  
 14:21 04/21/98

ID CODE C00000065 WTD. 1000 CAL#1  
 CARBON 0.2539% SULFUR .00053%  
 OXYGEN FLOW 3.293

9-10

-C- -S-  
 BLANK +.000000 +.000000  
 TIME 59. 30.  
 PEAK 228. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0195 1.0245  
 14:23 04/21/98

ID CODE C00000066 WTD. 1000 CAL#1  
 CARBON 0.2401% SULFUR .00053%  
 OXYGEN FLOW 3.299

10-11

-C- -S-  
 BLANK +.000000 +.000000  
 TIME 55. 30.  
 PEAK 211. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0214 1.0261  
 \*\*\* CLEAVING TIME \*\*\*  
 14:24 04/21/98

ID CODE C00000067 WTD. 1000 CAL#1  
 CARBON 0.2294% SULFUR .00053%  
 OXYGEN FLOW 3.305

11-12

-C- -S-  
 BLANK +.000000 +.000000  
 TIME 57. 30.  
 PEAK 188. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0222 1.0272  
 14:26 04/21/98

ID CODE C00000068 WTD. 1000 CAL#1  
 CARBON 0.2412% SULFUR .00026%  
 OXYGEN FLOW 3.322

12-13

-C- -S-  
 BLANK +.000000 +.000000  
 TIME 51. 30.  
 PEAK 168. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0216 1.0266

14:28 04/21/98

ID CODE C00000069 WTD. 1000 CAL#1  
 CARBON 0.2223% SULFUR .00029%  
 OXYGEN FLOW 3.312  
 -C- -S-

13-14

BLANK +.000000 +.000000  
 TIME 55. 30.  
 PEAK 152. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0231 1.0289  
 14:29 04/21/98

ID CODE C00000070 WTD. 1000 CAL#1  
 CARBON 0.2270% SULFUR .00011%  
 OXYGEN FLOW 3.316  
 -C- -S-

14-15

BLANK +.000000 +.000000  
 TIME 56. 30.  
 PEAK 194. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0234 1.0291  
 14:31 04/21/98

ID CODE C00000071 WTD. 1000 CAL#1  
 CARBON 0.2291% SULFUR .00044%  
 OXYGEN FLOW 3.320  
 -C- -S-

15-16

BLANK +.000000 +.000000  
 TIME 49. 30.  
 PEAK 212. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0241 1.0303  
 14:33 04/21/98

ID CODE C00000072 WTD. 1000 CAL#1  
 CARBON 0.2277% SULFUR .00029%  
 OXYGEN FLOW 3.322  
 -C- -S-

16-77

BLANK +.000000 +.000000  
 TIME 51. 30.  
 PEAK 264. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0302  
 14:34 04/21/98

ID CODE C00000073 WTD. 1000 CAL#1  
 CARBON 0.2682% SULFUR .00083%  
 OXYGEN FLOW 3.320  
 -C- -S-

17-18

BLANK +.000000 +.000000  
 TIME 54. 30.  
 PEAK 252. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0303  
 14:36 04/21/98

ID CODE C00000074 WTD. 1000 CAL#1  
 CARBON 0.2422% SULFUR .00014%  
 OXYGEN FLOW 3.320  
 -C- -S-

18-19

BLANK +.000000 +.000000  
 TIME 55. 30.  
 PEAK 189. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0297

Long

MUL 4238-2

21.4.98

14:37 04/21/98  
 ID CODE C000000075 WTD.1000 CAL#1  
 CARBON 0.5467% SULFUR .00022%  
 OXYGEN FLOW 3.321

58

std

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 42. 30.  
 PEAK 584. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0253 1.0305

14:39 04/21/98

ID CODE C000000076 WTD.0040 CAL#1  
 CARBON 0.8158% SULFUR .00001%  
 OXYGEN FLOW 3.321

0.818

std

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 42. 30.  
 PEAK 7713. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0253 1.0305

14:40 04/21/98

ID CODE C000000077 WTD.1010 CAL#1  
 CARBON 12.15% SULFUR .00006%  
 OXYGEN FLOW 3.327

lolo

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 14937. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0257 1.0316

14:42 04/21/98

ID CODE C000000078 WTD.0510 CAL#1  
 CARBON 3.643% SULFUR .00036%  
 OXYGEN FLOW 3.324

wsy

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 2187. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0252 1.0305

\*\*\* OUT-SEN BEGUN \*\*\*

14:44 04/21/98

ID CODE C000000079 WTD.1010 CAL#1  
 CARBON 7.184% SULFUR .00022%  
 OXYGEN FLOW 3.327

303 Ad

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 8237. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0257 1.0316

14:45 04/21/98

ID CODE C000000079 WTD.1000 CAL#1  
 CARBON 0.5793% SULFUR .00022%  
 OXYGEN FLOW 3.322

58std

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 691. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0300

14:47 04/21/98  
 ID CODE C000000081 WTD.1000 CAL#1  
 CARBON 0.2146% SULFUR .00017%  
 OXYGEN FLOW 3.324

14-20

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 53. 30.  
 PEAK 180. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0258 1.0305

14:48 04/21/98

ID CODE C000000082 WTD.1000 CAL#1  
 CARBON 0.2473% SULFUR .00011%  
 OXYGEN FLOW 3.322

20-21

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 53. 30.  
 PEAK 216. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0255 1.0302

14:50 04/21/98

ID CODE C000000083 WTD.1000 CAL#1  
 CARBON 0.2005% SULFUR .00032%  
 OXYGEN FLOW 3.321

21-22

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 49. 30.  
 PEAK 184. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0253 1.0300

14:51 04/21/98

ID CODE C000000084 WTD.1000 CAL#1  
 CARBON 0.2260% SULFUR .00015%  
 OXYGEN FLOW 3.320

22-23

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 55. 30.  
 PEAK 188. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0251 1.0297

14:53 04/21/98

ID CODE C000000085 WTD.1000 CAL#1  
 CARBON 0.2415% SULFUR .00020%  
 OXYGEN FLOW 3.323

23-24

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 59. 30.  
 PEAK 246. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0256 1.0303

14:55 04/21/98

ID CODE C000000086 WTD.1000 CAL#1  
 CARBON 0.2323% SULFUR .00037%  
 OXYGEN FLOW 3.321

24-25

-C- -S-  
 BLANK +.00000 +.00000  
 TIME 54. 30.  
 PEAK 284. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0258 1.0300

27-4-98

MAC 4238-7

Long

\*\*\* CLEARING TIME \*\*\*  
14:56 04/21/98

ID CODE C080000087 WTB.1000 CAL#1  
CARBON 0.2023% SULFUR .00019%  
OXYGEN FLOW 3.320

-C- -S-

**25-26** BLANK +.00000 +.00000  
TIME 45. 30.  
PEAK 196. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0244 1.0303  
14:58 04/21/98

ID CODE C080000088 WTB.1000 CAL#1  
CARBON 0.3641% SULFUR .00015%  
OXYGEN FLOW 3.320

**58 Ad**  
-C- -S-  
BLANK +.00000 +.00000  
TIME 47. 30.  
PEAK 580. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0247 1.0297  
14:59 04/21/98

ID CODE C080000089 WTB.1000 CAL#1  
CARBON 0.2803% SULFUR .00026%  
OXYGEN FLOW 3.320

**5-6**  
-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 256. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0251 1.0297  
15:01 04/21/98

ID CODE C080000090 WTB.1000 CAL#1  
CARBON 0.5842% SULFUR .00036%  
OXYGEN FLOW 3.320

**58 Ad**  
-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 717. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0251 1.0297  
15:02 04/21/98

ID CODE C080000091 WTB.9980 CAL#1  
CARBON 0.8298% SULFUR .00037%  
OXYGEN FLOW 3.319

**0,818**  
-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 10148. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0250 1.0302  
15:03 04/21/98

**Std**  
ID CODE C080000092 WTB.0070 CAL#1  
CARBON 0.8287% SULFUR .00036%  
OXYGEN FLOW 3.322

**0,818**  
**44**  
-C- -S-  
BLANK +.00000 +.00000  
TIME 49. 30.  
PEAK 10628. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0255 1.0302

\*\*\* OUT-SEA BEGUN \*\*\*

15:06 04/21/98

ID CODE C080000095 WTB.0110 CAL#1  
CARBON 0.2242% SULFUR .00014%  
OXYGEN FLOW 3.324

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 10664. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0258 1.0305  
15:07 04/21/98

ID CODE C080000093 WTB.1000 CAL#1  
CARBON 12.15% SULFUR .00022%  
OXYGEN FLOW 3.322

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 16631. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0255 1.0302  
15:09 04/21/98

ID CODE C080000094 WTB.0490 CAL#1  
CARBON 3.758% SULFUR .00020%  
OXYGEN FLOW 3.321

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 2120. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0250 1.0300  
15:10 04/21/98

ID CODE C080000096 WTB.1010 CAL#1  
CARBON 7.173% SULFUR .00028%  
OXYGEN FLOW 3.321

**303 Ad**  
-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 8311. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0250 1.0300  
15:11 04/21/98

ID CODE C080000097 WTB.0000 CAL#1  
CARBON 1.80090% SULFUR .00002%  
OXYGEN FLOW 3.324

-C- -S-

BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 1. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0255 1.0305  
15:13 04/21/98

ID CODE C080000098 WTB.1000 CAL#1  
CARBON 0.5583% SULFUR .00016%  
OXYGEN FLOW 3.322

-C- -S-

**58 Ad**  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 656. 0.  
CALIB. 0.5900 0.8981  
K FRC. 1.0255 1.0302  
15:14 04/21/98

(good yes) 15:14 04/21/98  
 ID CODE C000000099 WTD.0020 CAL#1  
 CARBON 5.8183% SULFUR .000002%  
 OXYGEN FLOW 3.321  
 -C- -S-  
**0.818**  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9670. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0253 1.0300  
 15:30 04/21/98  
 ID CODE C000000099 WTD.0090 CAL#1  
 CARBON 5.0192% SULFUR .000007%  
 OXYGEN FLOW 3.329  
**58**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9616. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0290 1.0331  
 15:31 04/21/98  
 ID CODE C000000091 WTD.1000 CAL#1  
 CARBON 7.1852% SULFUR .000051%  
 OXYGEN FLOW 3.329  
**183**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9630. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0270 1.0314  
 15:32 04/21/98  
 ID CODE C000000092 WTD.1000 CAL#1  
 CARBON 5.0322% SULFUR .000132%  
 OXYGEN FLOW 3.329  
**293**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9496. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0267 1.0314  
 15:34 04/21/98  
 ID CODE C000000093 WTD.1000 CAL#1  
 CARBON 7.5242% SULFUR .000028%  
 OXYGEN FLOW 3.328  
**298**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8864. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0265 1.0312  
 15:35 04/21/98  
 ID CODE C000000094 WTD.1000 CAL#1  
 CARBON 5.8352% SULFUR .000132%  
 OXYGEN FLOW 3.326  
**318**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6508. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0262 1.0309

15:36 04/21/98  
 ID CODE C000000095 WTD.1000 CAL#1  
 CARBON 5.2432% SULFUR .000132%  
 OXYGEN FLOW 3.325  
**413**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9197. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0260 1.0307  
 15:38 04/21/98  
 ID CODE C000000096 WTD.1010 CAL#1  
 CARBON 7.9432% SULFUR .000033%  
 OXYGEN FLOW 3.326  
**598**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9610. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0262 1.0309  
 \*\*\* CLEANING TIME \*\*\*  
 15:40 04/21/98  
 ID CODE C000000097 WTD.1000 CAL#1  
 CARBON 5.1682% SULFUR .000132%  
 OXYGEN FLOW 3.326  
**688**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9610. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0267 1.0309  
 15:41 04/21/98  
 ID CODE C000000098 WTD.1000 CAL#1  
 CARBON 5.8732% SULFUR .000024%  
 OXYGEN FLOW 3.324  
**708**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 6848. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0264 1.0305  
 15:42 04/21/98  
 ID CODE C000000099 WTD.1010 CAL#1  
 CARBON 6.5392% SULFUR .000032%  
 OXYGEN FLOW 3.324  
**728**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 8997. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0264 1.0305  
 15:44 04/21/98  
 ID CODE C000000100 WTD.1000 CAL#1  
 CARBON 7.5302% SULFUR .000028%  
 OXYGEN FLOW 3.324  
**758**  
 -C- -S-  
 BLANK +.00000 +.00000  
 TIME 40. 30.  
 PEAK 9056. 0.  
 CALIB. 0.5900 0.8981  
 K FRC. 1.0264 1.0305

29.4.98

SL 4238-7

Eyes

15:45 04/21/98  
ID CODE C000000011 W71.0010 CAL#1  
CARBON 6.8205% SULFUR .00004%

8,818  
Add  
OXYGEN FLOW 3.320  
-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 9616. 0.  
CALIB. 0.5980 0.8981  
K FRC. 1.0254 1.0297

15:48 04/21/98  
ID CODE C000000012 W70.1010 CAL#1  
CARBON 12.16% SULFUR .00025%

OXYGEN FLOW 3.327  
-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK 16498. 0.  
CALIB. 0.5980 0.8981  
K FRC. 1.0263 1.0310

15:50 04/21/98  
ID CODE C000000013 W70.0500 CAL#1  
CARBON 3.617% SULFUR .00030%

OXYGEN FLOW 3.321  
-C- -S-  
BLANK +.00000 +.00000  
TIME 40. 30.  
PEAK ~ 1698. 0.  
CALIB. 0.5980 0.8981  
K FRC. 1.0253 1.0300

WST