

**BREATH ALCOHOL EQUIPMENT  
REPAIR AND MAINTENANCE**

Instrument: 8000 Serial Number: 80-005944 Location: TOXL

1. Instrument repairs/maintenance performed:

HISTORY: SUBJECT SPIT IN BREATH HOSE, LOW CONTROLS, PURGE FAILS  
1-15-2017: REPLACED BREATH HOSE, CONTINUOUS AIR BLANKS, LOW CONTROLS & PURGE FAILS CONTINUED  
SET ASIDE TO BE WORKED ON DURING ANNUAL INSPECTIONS  
6-1-2017: DETERMINED SUBSTANCE STILL IN PREHEAT CHAMBER B, OPTIONS: CLEAN OR REPLACE  
6-5-2017: REPLACED SAMPLE CHAMBER ASSEMBLY  
6-9-2017: ADJUSTED CALIBRATION DUE TO REPLACING SAMPLE CHAMBER ASSEMBLY  
6-9-2017: RAN GASES AND SOLUTIONS TO VERIFY WORKING SAMPLE CHAMBER ASSEMBLY  
6-9-2017: ACA, STABILITY & SUBJECT (BREATH HOSE) TESTS VERIFY OPERATION OF INSTRUMENT

2. Does the instrument require further testing? Yes or No  
If Yes, continue.  
If No, sign and date below.

3. If needed, set the time, date, and location. \_\_\_\_\_

4. Does the flow need to be calibrated? Yes or No  
If Yes, attach paperwork.

5. Does the optical bench need to be calibrated? Yes or No  
If Yes, attach test records.

6. Does the gas regulator need to be calibrated? Yes or No

PSI gauge reading \_\_\_\_\_ PSI display reading \_\_\_\_\_

Set instrument to Wet Bath and run tests:

7. Low AC. Use < 0.03 AC in ACA mode. Attach test record. \_\_\_\_\_

Sim SN: \_\_\_\_\_ Lot #: \_\_\_\_\_ AC: \_\_\_\_\_

8. Linearity Test. Use ≥ 0.25 AC in ACA mode. Attach test record. \_\_\_\_\_

Sim SN: \_\_\_\_\_ Lot #: \_\_\_\_\_ AC: \_\_\_\_\_

Set instrument to Gas and run tests:

- 9. Print test. Attach test record. \_\_\_\_\_
- 10. Interferent Check. Use a 0.10 AC ethanol plus 0.05% acetone in ABA mode.  
Attach test record. \_\_\_\_\_  
Sim SN: \_\_\_\_\_ Lot #: \_\_\_\_\_ AC: \_\_\_\_\_
- 11. RFI Check. Run in CMS mode. Key radio during any room air or subject test.  
Attach test record. \_\_\_\_\_
- 12. Calibration Check. Use a valid 0.080 AC Ethanol Gas Standard. Run three  
calibration sets in ACA mode. Attach test records. \_\_\_\_\_

Lot No. \_\_\_\_\_ Cylinder No. \_\_\_\_\_ Expiration Date \_\_\_\_\_

Test 1 _____	Test 1 _____	Test 1 _____
Test 2 _____	Test 2 _____	Test 2 _____
Test 3 _____	Test 3 _____	Test 3 _____

Average \_\_\_\_\_

*Charles E. Eden*  
Field Inspector's Signature

6-9-2017  
Date

*Deb Shanaver*  
Reviewed by

12 June 17  
Date

TOXL  
 Intoxilyzer - Alcohol Analyzer  
 Model 8000 SN 80-005944  
 06/09/2017 12:59:01

Auto Calibration

pg 1 of 2

<<<<<			3um	>>>>>	<<<<<			9um	>>>>>
Solution = 0.000 g/210L or 0.0000 mg/l, Samples = 4, Discarded = 1 <u>0.000 AC</u>									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	0.0760	(-0.0220)		0.0880	(0.0020)				MP3064
Sample #2	0.0740	(0.0110)		0.1400	(-0.0190)				Milli Q H <sub>2</sub> O
Sample #3	0.0630	(0.0220)		0.1450	(-0.0010)				
Sample #4	0.0600	(0.0380)		0.1430	(-0.0050)				
Avg % Abs	0.0657	(0.0237)		0.1427	(-0.0083)				
STD DEV	0.0074	(0.0136)		0.0025	(0.0095)				
REL STD DEV	11.225	(57.367)		1.764	(113.420)				
Solution = 0.040 g/210L or 0.1905 mg/l, Samples = 4, Discarded = 1 <u>0.040 AC</u>									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	0.7440	(-0.0110)		1.5000	(-0.0260)				MP3068
Sample #2	0.7440	(0.0130)		1.4790	(0.0150)				Lot: 201601D
Sample #3	0.7790	(-0.0020)		1.4950	(-0.0010)				Exp: 1/26/2018
Sample #4	0.7730	(-0.0010)		1.4750	(0.0160)				
Avg % Abs	0.7653	(0.0033)		1.4830	(0.0100)				
STD DEV	0.0187	(0.0084)		0.0106	(0.0095)				
REL STD DEV	2.446	(251.595)		0.714	(95.394)				
Solution = 0.080 g/210L or 0.3810 mg/l, Samples = 4, Discarded = 1 <u>0.080</u>									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	1.4830	(-0.0230)		2.8620	(-0.0240)				MP3048
Sample #2	1.4740	(0.0010)		2.8370	(0.0210)				Lot: 201604F
Sample #3	1.4610	(0.0220)		2.8330	(0.0200)				Exp: 4/19/2018
Sample #4	1.4730	(0.0180)		2.8290	(0.0340)				
Avg % Abs	1.4693	(0.0137)		2.8330	(0.0250)				
STD DEV	0.0072	(0.0112)		0.0040	(0.0078)				
REL STD DEV	0.492	(81.589)		0.141	(31.241)				
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1 <u>0.100 AC</u>									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	1.8810	(-0.0230)		3.5510	(-0.0080)				MP3065
Sample #2	1.8500	(0.0240)		3.5420	(0.0180)				Lot: 201509C
Sample #3	1.8430	(0.0150)		3.5410	(0.0170)				Exp: 9/15/2017
Sample #4	1.8380	(0.0200)		3.5110	(0.0320)				
Avg % Abs	1.8437	(0.0197)		3.5313	(0.0223)				
STD DEV	0.0060	(0.0045)		0.0176	(0.0084)				
REL STD DEV	0.327	(22.928)		0.499	(37.551)				
Solution = 0.300 g/210L or 1.4286 mg/l, Samples = 4, Discarded = 1 <u>0.300 AC</u>									
Sample	% Abs	(% Abs Ref)		% Abs	(% Abs Ref)				
Sample #1	5.3250	(-0.0220)		9.8390	(-0.0220)				MP3057
Sample #2	5.2920	(0.0420)		9.8240	(0.0740)				Lot: 201603A
Sample #3	5.3280	(0.0370)		9.8170	(0.1140)				Exp: 03/01/2018
Sample #4	5.2720	(0.0750)		9.7470	(0.1310)				
Avg % Abs	5.2973	(0.0513)		9.7960	(0.1063)				
STD DEV	0.0284	(0.0206)		0.0426	(0.0293)				
REL STD DEV	0.536	(40.223)		0.435	(27.520)				

TOXL  
 Intoxilyzer - Alcohol Analyzer  
 Model 8000 SN 80-005944  
 06/09/2017 12:59:01

Auto Calibration

pg 2 of 2

```

<<<<<      3um      >>>>>
-----
Zero Order Coef   -161.58
First Order Coef  2667.80
Second Order Coef 11.17
-----
  Act      Fit      Residual
(g/210L)  (g/210L)  (g/210L)
0.000     0.000     -0.0003
0.040     0.040     0.0004
0.080     0.079     0.0006
0.100     0.101    -0.0007
0.300     0.300     0.0000
-----
  
```

```

<<<<<      9um      >>>>>
-----
-178.15
1369.62
10.89
-----
  Act      Fit      Residual
(g/210L)  (g/210L)  (g/210L)
0.000     0.000     -0.0004
0.040     0.039     0.0006
0.080     0.080     0.0004
0.100     0.101    -0.0007
0.300     0.300     0.0000
-----
  
```

```

<<<<<      3um      >>>>>
-----
Solution = 0.100 g/210L or 0.4762 mg/l, Samples = 4, Discarded = 1
Sample
Sample #1      4443.00
Sample #2      4496.00
Sample #3      4392.00
Sample #4      4446.00
Avg            4444.6665
STD DEV       52.0128
REL STD DEV   1.170
H2O adjust (mg/l*10k) 317
  
```

```

<<<<<      9um      >>>>>
-----
4385.00
4402.00
4389.00
4401.00
4397.3335
7.2342
0.165
364
  
```

*0.100 AC*  
*LOT: 32316100A1*  
*Q4L: 003*  
*Exp: 1/5/2019*

Atmospheric Pressure = 938

\*\*\*\*\*CALIBRATION SUCCESSFUL\*\*\*\*\*

*- ADJUSTED DUE TO REPLACING SAMPLE CHAMBER ASSEMBLY (SAMPLE CHAMBER, HEATER, LIGHT SOURCE, DETECTORS) UNIT*



Intoxilyzer Test Record and Checklist  
 NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 14:28

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:29
02 Std. Gas	0.020	14:29
03 Room Air	0.000	14:30
04 Std. Gas	0.021	14:30
05 Room Air	0.000	14:30
06 Std. Gas	0.020	14:31
07 Room Air	0.000	14:31

Lot No = 02617020A7  
 Cyl No = 2  
 Exp Date = 03/05/2019  
 County = 08 Oper No. = 666666

*Charles Eder*

Operator Signature  
 CHARLES EDER

Remarks: 0.020 AC

LOT: 02617020A7

Form 106-18000  
 CYL: 002  
 Exp: 3/5/2019

Intoxilyzer Test Record and Checklist  
 NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 14:33

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:33
02 Std. Gas	0.161	14:34
03 Room Air	0.000	14:34
04 Std. Gas	0.161	14:35
05 Room Air	0.000	14:35
06 Std. Gas	0.161	14:36
07 Room Air	0.000	14:36

Lot No = 15615160A5  
 Cyl No = 1  
 Exp Date = 07/05/2017  
 County = 08 Oper No. = 666666

*Charles Eder*

Operator Signature  
 CHARLES EDER

Remarks: 0.160 AC

LOT: 15615160A5  
 Exp: 7/5/2017

Form 106-18000  
 CYL: 001

Intoxilyzer Test Record and Checklist  
 NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 14:38

DRY CAL CHECK

Test	AC	Time
01 Room Air	0.000	14:38
02 Std. Gas	0.303	14:39
03 Room Air	0.000	14:39
04 Std. Gas	0.303	14:40
05 Room Air	0.000	14:40
06 Std. Gas	0.303	14:41
07 Room Air	0.000	14:41

Lot No = 02717300A1  
 Cyl No = 1  
 Exp Date = 03/05/2019  
 County = 08 Oper No. = 666666

*Charles Eder*

Operator Signature  
 CHARLES EDER

Remarks: 0.300 AC  
 LOT: 02717300A1  
 Exp: 3/5/2019

Form 106-18000  
 CYL: 001

DRY GAS STANDARD CHECKS

0.020 AC, 0.160 AC, & 0.300 AC

Intoxilyzer Test Record and Checklist  
 NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 15:14

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:15
02 Std. Sol.	0.050	15:15
03 Room Air	0.000	15:16
04 Std. Sol.	0.050	15:17
05 Room Air	0.000	15:17
06 Std. Sol.	0.049	15:18
07 Room Air	0.000	15:18

08 Sim Temp = 34.0°C

Simul Ser No = MP3066  
 Std Sol No = 201601C  
 County = 08 Oper No. = 666666

*Charles E Eder*

Operator Signature  
 CHARLES EDER

Remarks: 0.050 AC  
 MP3066  
 Lot: 201601C  
 Exp: 1-12-2018  
 Form 106-18000

Intoxilyzer Test Record and Checklist  
 NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 15:20

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:21
02 Std. Sol.	0.152	15:21
03 Room Air	0.000	15:22
04 Std. Sol.	0.153	15:23
05 Room Air	0.000	15:23
06 Std. Sol.	0.153	15:24
07 Room Air	0.000	15:25

08 Sim Temp = 34.0°C

Simul Ser No = MP3058  
 Std Sol No = 201508A  
 County = 08 Oper No. = 666666

*Charles E Eder*

Operator Signature  
 CHARLES EDER

Remarks: 0.150 AC  
 MP3058  
 Lot: 201508A  
 Exp: 8-11-2017  
 Form 106-18000

Intoxilyzer Test Record and Checklist  
 NDOAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 15:36

WET CAL CHECK

Test	AC	Time
01 Room Air	0.000	15:36
02 Std. Sol.	0.396	15:37
03 Room Air	0.000	15:38
04 Std. Sol.	0.396	15:38
05 Room Air	0.000	15:39
06 Std. Sol.	0.395	15:40
07 Room Air	0.000	15:40

08 Sim Temp = 34.0°C

Simul Ser No = MP3061  
 Std Sol No = 201605F  
 County = 08 Oper No. = 666666

*Charles E Eder*

Operator Signature  
 CHARLES EDER

Remarks: 0.400 AC  
 MP3061  
 Lot: 201605F  
 Exp: 5-19-2018  
 Form 106-18000

*SIMULATOR SOLUTION CHECKS*

*0.050 AC, 0.150 AC & 0.400 AC*

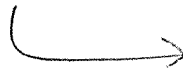
CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 14:49

STABILITY TESTS

0.190 AC  
 DRY GAS STANDARD



0.080 AC  
 SIMULATOR SOLUTION



Test	AC	Time
01 Room Air	0.000	14:50
02 Std. Gas	0.188	14:50
03 Room Air	0.000	14:51
04 Std. Gas	0.189	14:51
05 Room Air	0.000	14:52
06 Std. Gas	0.188	14:52
07 Room Air	0.000	14:53
08 Std. Gas	0.188	14:53
09 Room Air	0.000	14:54
10 Std. Gas	0.189	14:54
11 Room Air	0.000	14:55
12 Std. Gas	0.189	14:55
13 Room Air	0.000	14:56
14 Std. Gas	0.189	14:56
15 Room Air	0.000	14:57
16 Std. Gas	0.188	14:57
17 Room Air	0.000	14:58
18 Std. Gas	0.188	14:58
19 Room Air	0.000	14:59
20 Std. Gas	0.188	14:59
21 Room Air	0.000	15:00
22 Std. Gas	0.188	15:00
23 Room Air	0.000	15:01
24 Std. Gas	0.189	15:01
25 Room Air	0.000	15:02
26 Std. Gas	0.189	15:02
27 Room Air	0.000	15:03
28 Std. Gas	0.189	15:03
29 Room Air	0.000	15:04
30 Std. Gas	0.187	15:04
31 Room Air	0.000	15:05
32 Std. Gas	0.187	15:05
33 Room Air	0.000	15:06
34 Std. Gas	0.188	15:06
35 Room Air	0.000	15:07
36 Std. Gas	0.188	15:07
37 Room Air	0.000	15:08
38 Std. Gas	0.189	15:08
39 Room Air	0.000	15:09
40 Std. Gas	0.188	15:09
41 Room Air	0.000	15:10
42 Cal Check Stats:		
43 Average	0.1883	
44 Std Dev	0.0007	
45 Rel Std Dev	0.35%	

*Charles Eder*

Operator Signature  
 CHARLES EDER

Remarks: STABILITY TEST  
 0.190 AC  
 Lot: 19115190A3  
 Exp: 8/5/2017 CML004

CMI, Inc. Intoxilyzer Alcohol Analyzer  
 North Dakota Model 8000 SN 80-005944  
 Location = TOXL 8164.14.00 09/16  
 06/09/2017 15:43

Test	AC	Time
01 Room Air	0.000	15:44
02 Std. Sol.	0.080	15:45
03 Room Air	0.000	15:45
04 Std. Sol.	0.080	15:46
05 Room Air	0.000	15:46
06 Std. Sol.	0.081	15:47
07 Room Air	0.000	15:48
08 Std. Sol.	0.081	15:48
09 Room Air	0.000	15:49
10 Std. Sol.	0.080	15:50
11 Room Air	0.000	15:50
12 Std. Sol.	0.081	15:51
13 Room Air	0.000	15:51
14 Std. Sol.	0.080	15:52
15 Room Air	0.000	15:53
16 Std. Sol.	0.081	15:53
17 Room Air	0.000	15:54
18 Std. Sol.	0.080	15:55
19 Room Air	0.000	15:55
20 Std. Sol.	0.080	15:56
21 Room Air	0.000	15:57
22 Std. Sol.	0.080	15:57
23 Room Air	0.000	15:58
24 Std. Sol.	0.080	15:59
25 Room Air	0.000	15:59
26 Std. Sol.	0.081	16:00
27 Room Air	0.000	16:00
28 Std. Sol.	0.081	16:01
29 Room Air	0.000	16:02
30 Std. Sol.	0.081	16:02
31 Room Air	0.000	16:03
32 Std. Sol.	0.080	16:04
33 Room Air	0.000	16:04
34 Std. Sol.	0.080	16:05
35 Room Air	0.000	16:05
36 Std. Sol.	0.080	16:06
37 Room Air	0.000	16:07
38 Std. Sol.	0.080	16:07
39 Room Air	0.000	16:08
40 Std. Sol.	0.080	16:09
41 Room Air	0.000	16:09
42 Cal Check Stats:		
43 Average	0.0804	
44 Std Dev	0.0005	
45 Rel Std Dev	0.61%	

*Charles Eder*

Operator Signature  
 CHARLES EDER

Remarks: STABILITY TEST  
 0.080 AC  
 MP 3059  
 Lot: 16180  
 Exp: 8-1-2018

Intoxilyzer Test Record and Checklist  
NDODAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
North Dakota Model 8000 SN 80-005944  
Location = TOXL 8164.14.00 09/16  
06/09/2017 16:13


Test	AC	Time
01 Diagnostic	OK	16:13
02 Room Air	0.000	16:14
03 Subject Test 1	0.079	16:14
04 Room Air	0.000	16:17
05 Std. Gas	0.081	16:18
06 Room Air	0.000	16:19
07 Subject Test 2	0.080	16:20
08 Room Air	0.000	16:20
09 Reported AC	0.079	16:14

Difference OK  
No RFI Detected

Sub Name = DISCOVER, THE SPIRIT  
Sub DOB = 01/01/1982  
Sub Sex = Female Weight = 150  
Test = DUI Cit = 0.080 AC  
Dr. Lic. = ND/D15821456  
Lot No = 17316080A2  
Cyl No = 28  
Expiration Date = 08/05/2018  
County = 08 Oper No. = 666666

20 minute waiting period ascertained? Y  
Clean Mouthpiece used and disposed? Y  
Clean Mouthpiece used and disposed? Y

I followed the Approved Method and the instructions displayed by the Intoxilyzer in conducting this test.



Operator Signature  
CHARLES EDER

Remarks: 0.080 AC  
SIMULATOR SOLUTION  
THROUGH BREATH HOSE

Form 106-18000

MP3059 0.080 AC  
LOT: 16180  
EXP: 8-1-2018

Intoxilyzer Test Record and Checklist  
NDODAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
North Dakota Model 8000 SN 80-005944  
Location = TOXL 8164.14.00 09/16  
06/09/2017 16:21

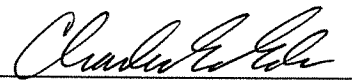
Test	AC	Time
01 Diagnostic	OK	16:22
02 Room Air	0.000	16:22
03 Subject Test 1	0.151	16:23
04 Room Air	0.000	16:25
05 Std. Gas	0.080	16:26
06 Room Air	0.000	16:27
07 Subject Test 2	0.150	16:28
08 Room Air	0.000	16:29
09 Reported AC	0.150	16:28

Difference OK  
No RFI Detected

Sub Name = DISCOVER, THE SPIRIT  
Sub DOB = 01/01/1982  
Sub Sex = Female Weight = 150  
Test = DUI Cit = 0.150 AC  
Dr. Lic. = ND/D15821456  
Lot No = 17316080A2  
Cyl No = 28  
Expiration Date = 08/05/2018  
County = 08 Oper No. = 666666

20 minute waiting period ascertained? Y  
Clean Mouthpiece used and disposed? Y  
Clean Mouthpiece used and disposed? Y

I followed the Approved Method and the instructions displayed by the Intoxilyzer in conducting this test.



Operator Signature  
CHARLES EDER

Remarks: 0.150 AC  
SIMULATOR SOLUTION  
THROUGH BREATH HOSE

Form 106-18000

MP3058 0.150 AC  
LOT: 201508000A  
EXP: 8-11-2017

Intoxilyzer Test Record and Checklist  
NDODAG Crime Lab. Div., Bismarck, ND 58501

CMI, Inc. Intoxilyzer Alcohol Analyzer  
North Dakota Model 8000 SN 80-005944  
Location = TOXL 8164.14.00 09/16  
06/09/2017 16:37

Test	AC	Time
01 Diagnostic	OK	16:38
02 Room Air	0.000	16:38
03 Subject Test 1	0.047	16:39
04 Room Air	0.000	16:41
05 Std. Gas	0.080	16:42
06 Room Air	0.000	16:44
07 Subject Test 2	0.047	16:44
08 Room Air	0.000	16:45
09 Reported AC	0.047	16:39

Difference OK  
No RFI Detected

Sub Name = DISCOVER, THE SPIRIT  
Sub DOB = 01/01/1982  
Sub Sex = Female Weight = 150  
Test = DUI Cit = 0.050 AC  
Dr. Lic. = ND/D15821456  
Lot No = 17316080A2  
Cyl No = 28  
Expiration Date = 08/05/2018  
County = 08 Oper No. = 666666

20 minute waiting period ascertained? Y  
Clean Mouthpiece used and disposed? Y  
Clean Mouthpiece used and disposed? Y

I followed the Approved Method and the instructions displayed by the Intoxilyzer in conducting this test.



Operator Signature  
CHARLES EDER

Remarks: 0.050 AC CEE  
SIMULATOR SOLUTION  
THROUGH BREATH HOSE

Form 106-18000

MP3006 0.050 AC  
LOT: 201601C  
EXP: 1-12-2018