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INVOICE COVER LETTER

Tuesday, August 7, 2018

ATTN: Andrew Hoekzema
Director of Regional Services
Capital Area Council of Governments
6800 Burleson Road, Bldg. 310, Suite 165
Austin, TX 78744

RE: Contract #: Operation of Continuous Air Monitoring Stations 2018 / 2019
Invoice #: CAPCOG 18-013 July 2018
Invoice Period of Service: 7/1/18 – 7/31/18
Total Invoice Amount: $11,759.96

This invoice is for services provided by Dios Dado Environmental Ltd. for operation and network maintenance of CAPCOG sites, as the terms set forth in the above referenced contract.

See the discussion and list of deliverables as follows:

1. July Data Return reported in attachment 1: Data Return Report for Austin -- Region 11.
   All O3 sites reporting >95% data return, *No units showed 100% this month due to TCEQ system wide outage on 7-25-18*. July Data Return Rh units were all <100% as well, Individual RH reports are included for each site. TEOM data return from 601 is >95%.
2. Site activities are reported in attachment 2: CAPCOG activities log and operator's log set.
3. All units have good data that is reporting to LEADS system correctly. The data sets for July have been validated.
4. A site survey of C690 Lake Georgetown is on hold until CAPCOG decides to move forward.
5. Fayetteville C601: on 7/23 TEOM was showing high temperatures inside cabinet. Discovered the exhaust fan went out. On 7/24 the fan was replaced and TEOM cabinet temps returned to normal.
6. C1603- Gorzycki: Battery backup was malfunctioning. Unit replaced with repaired unit.
7. C1604-Lockhart: 7/25/18: Battery backup went out. replaced batteries.
   Lockhart A/C issue
   7/2/18: Checked on A/C at site, it's not blowing air. A/C was purchased 8/31/17 and is still under warranty. Seller was contacted.
   7/6/18: We contacted manufacturer regarding warranty per seller's instruction. ASA Electronics stated they would email a warranty claim form for A/C Technician to complete upon initial inspection. ASA does not cover initial inspection. They did state they would cover parts and labor of repair.
   7/10/18: We had not yet received the form from ASA, contacted them again. We made an appointment with Chapman Heat and Air for 7/16.
   7/16/18: We received warranty form from ASA and emailed it to A/C Tech. prior to appointment at 1:00 P.M. Our field tech waited at the site until 5:00 P.M. and the A/C tech did not show.
   7/17/18: A/C tech. inspected the unit, fan wheel was broken. Photos of AC were taken by request of ASA.
   7/20/18: We received the completed warranty form from A/C tech and emailed it to ASA along with photos and other required documents.
   7/23/18: Received notice from ASA that they were shipping out a new fan blade to the A/C technician on Monday 7/23/18.
   7/27/18: Chapman's Heat and Air received the part from ASA late in the afternoon.

7/30/18: Phoned A/C tech to schedule a time to meet at the site to install the part. He said he realized on Friday when he received the part that he had checked the wrong item on the warranty form and received the wrong part in error. He said he ordered the correct part (at his company's expense) on Friday 7/27/18 and it would take about seven days to receive it. He said he would notify us when he receives it.

8. C6602: 7/17/18: Adjusted A/C in trailer.
   7/23/18: Entered the station to relocate the trailer 5 ft. away from the fence. Moved the trailer and verified that the O3 unit, A/C, Zeno and router are all online.

Please remit payment to address above, respectfully,
Jim McCraw
Founding Partner
Dios Dado Environmental Ltd.

Attachment 1: CAPCOG Data Return Report – July 2018
Austin - Region 11

00:00 LST July 1, 2018 through 00:00 LST August 1, 2018

CAMS	Location	Pollution Data			Meteorological Data			
		O3 %	PM2.5(Lcl)accpt %	Poll %	WDR %	WSR %	Out Temp %	Met %
601	Fayette County C601	99.5	99.1	99.3	99.9	99.9	99.9	99.9
614	Dripping Springs School C614	99.6	*	99.6	99.9	99.9	99.9	99.9
684	CAPCOG McKinney Roughs C684	99.3	*	99.3	99.7	99.7	99.7	99.7
690	CAPCOG Lake Georgetown C690	99.5	*	99.5	99.9	99.9	99.9	99.9
1603	Gorzycki Middle School C1603	95.3	*	95.3	95.7	95.7	95.7	95.7
1604	Lockhart C1604	96.2	*	96.2	96.5	96.5	96.5	96.5
1605	St. Edwards University C1605	99.9	*	99.9	99.9	99.9	99.9	99.9
1675	CAPCOG San Marcos Staples Road C1675	99.5	*	99.5	99.9	99.9	99.9	99.9
6602	CAPCOG Hutto College Street C6602	99.5	*	99.5	99.7	99.7	99.7	99.7
	Region 11 Averages	**98.7**	**99.1**	**98.7**	**99.0**	**99.0**	**99.0**	**99.0**

Relative Humidity – Data Return Loss for Austin -- Region 11

00:00 LST July 1, 2018 through 00:00 LST August 1, 2018
Selected date range: 31 days (744 hours)

Report includes an average of data from only these CAMS: 614 684 690 1603 1604 1605 1675 6602

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	14
LST => AQ (Lost)	52
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	5886
Summary	
Total Monitors	8
Total Null Data Code Flags	66
Total Ambient Flags †	5886
Total Samples	5952
Invalid Percent	1.1
Valid Percent	98.9
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Relative Humidity – Data Return Loss for Austin -- Region 11

00:00 LST July 1, 2018 through 00:00 LST August 1, 2018
Selected date range: 31 days (744 hours)

INDIVIDUAL SITES:

Report includes data from only these CAMS: 614

Data Flag	Rel Humid 62201
Null Data Codes	
LST => AQ (Lost)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	743
Summary	
Total Monitors	1
Total Null Data Code Flags	1
Total Ambient Flags †	743
Total Samples	744
Invalid Percent	0.1
Valid Percent	99.9
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 684

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	1
LST => AQ (Lost)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	742
Summary	
Total Monitors	1
Total Null Data Code Flags	2
Total Ambient Flags †	742
Total Samples	744
Invalid Percent	0.3
Valid Percent	99.7
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 690

Data Flag	Rel Humid 62201
Null Data Codes	
LST => AQ (Lost)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	743
Summary	
Total Monitors	1
Total Null Data Code Flags	1
Total Ambient Flags †	743
Total Samples	744
Invalid Percent	0.1
Valid Percent	99.9
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 1603

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	10
LST => AQ (Lost)	22
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	712
Summary	
Total Monitors	1
Total Null Data Code Flags	32
Total Ambient Flags †	712
Total Samples	744
Invalid Percent	4.3
Valid Percent	95.7
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 1604

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	2
LST => AQ (Lost)	24
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	718
Summary	
Total Monitors	1
Total Null Data Code Flags	26
Total Ambient Flags †	718
Total Samples	744
Invalid Percent	3.5
Valid Percent	96.5
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 1675

Data Flag	Rel Humid 62201
Null Data Codes	
LST => AQ (Lost)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	743
Summary	
Total Monitors	1
Total Null Data Code Flags	1
Total Ambient Flags †	743
Total Samples	744
Invalid Percent	0.1
Valid Percent	99.9
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Report includes data from only these CAMS: 6602

Data Flag	Rel Humid 62201
Null Data Codes	
FEW => AI (Insufficient Samples)	1
LST => AQ (Lost)	1
Ambient or Ambient With Qualifier Code	
VAL (Ambient Data) †	742
Summary	
Total Monitors	1
Total Null Data Code Flags	2
Total Ambient Flags †	742
Total Samples	744
Invalid Percent	0.3
Valid Percent	99.7
	Rel Humid
† Ambient data includes all data with the following flags or qualifier codes: VAL	

Attachment 2: CAPCOG Site Activities Log and Operators Log set.

July 2018 CAPCOG Activity Logs:

DATE	DESCRIPTON
07/02/2018	C601- Performed monthly TEOM audit, PMI 41-030, 41-030a, 41-030b, and PMI 04-014.
	C1604 - Performed PMI 04-014
	C-1675- Performed PMI 04-014
07/03/2018	C684 - Performed PMI 04-014
	C614 - Performed PMI 04-014
07/05/2018	C690 - Performed PMI 04-014
	C6602 - Performed PMI 04-014
	C1603 - Performed PMI 04-014
07/16/2018	C601- Performed PMI 04-014, gathered audit gear info for TCEQ
	C1604 - Performed PMI 04-014, ac work
07/17/2018	C690 - Performed PMI 04-014, ac adjust
	C6602 - Performed PMI 04-014, ac adjust
07/18/2018	C614 - Performed 5 pt cal, performed PMI 04-014
	C1675 - Performed 5 pt cal, performed PMI 04-014
07/19/2018	C1603 - Performed 5 pt cal, Performed PMI 04-014
	C684 - Performed 5 pt cal, Performed PMI 04-014
07/23/2018	C6602 - Moved trailer 5 ft from edge of property
	C601 - Trouble shot TEOM temp issues
07/24/2018	C6602 - Performed 5 pt cal, Performed PMI 04-014
	C601 - Performed 5 pt cal, Performed PMI 04-014
07/25/2018	C1603 - Performed 5 pt cal, Performed PMI 04-014
	C690 - Performed 5 pt cal, Performed PMI 04-014

July 2018 CAPCOG Operator Logs:

Operator Logs for Fayette County C601

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 Fayette County C601 (48_149_0001)
Mon Jul 02, 2018	06:13:34	Ccarrasco	07/02/2018	Checked site status online
Mon Jul 02, 2018	11:43:55			07-02-18: Onsite to conduct monthly TEOM verification and PMI 4-14. TEOM values pre audit: OK, 4, 32%, 27.1, 0.073, 252.13360, 50,50,50, 3.01, 13.63, tot mass 1123.10. Performed TEOM PMI's 04-014, 41-030,41-030a and b. TEOM passed verification, final values= OK, 4, 20%, 17.4, 0.052, 225.45790, 50, 50, 50, 3.00, 13.62, tot mass=-0.81 (Changed filter). Placed instrument back in K code, and departed site, all secure. M Aguilar
Tue Jul 03, 2018	03:28:49			Automatic time sync
Tue Jul 03, 2018	06:46:17	Ccarrasco	07/03/2018	Checked site status online
Thu Jul 05, 2018	07:15:04	Ccarrasco	07/05/2018	Checked site status online
Thu Jul 05, 2018	18:05:23			Status OK, Mode 4, Filter Loading 24%, Mass 12.0, Noise 0.040, Frequency 252.31788, Total Mass 243.36, Case Temp 50.00, Air Temp 50.00, Cap Temp 50.00, Main Flow 3.00, Aux Flow 13.63, BH, LCRA, 07/05/18
Fri Jul 06, 2018	10:49:56			07-06-18: I didn't have enough time to conduct both audits on the 2nd, so I'm Onsite to conduct Quarterly TEOM verification. TEOM values pre audit: OK, 4, 25%, 8.2, 0.050, 252.30476, 50,50,50, 3.00, 13.63, tot mass 8.2. Performed TEOM PMI's 04-014, 41-030, 41-030a and b. TEOM passed verification, final values= OK, 4, 22%, 7.2, 0.077, 252.50772, 50, 50, 50, 3.00, 13.62, tot mass=-0.06. Placed instrument back in K code, and departed site, all secure. M Aguilar
Sat Jul 07, 2018	03:28:50			Automatic time sync
Mon Jul 09, 2018	06:37:42	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:28:49			Automatic time sync
Tue Jul 10, 2018	07:08:53	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:46:33	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:02:06	Ccarrasco	07/12/2018	Checked site status online
Thu Jul 12, 2018	12:26:36			Status OK, Mode 4, %Filter Loading 27%, Mass 11.9, Noise 0.082, Frequency 252.08308, Total Mass 6.81, Case Temp 50.00, Air Temp 50.00, Cap Temp 50.00, Main Flow 3.00, Aux Flow 13.63, BH, LCRA, 7/12/18
Fri Jul 13, 2018	05:54:51	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:28:50			Automatic time sync
Mon Jul 16, 2018	05:48:55	Ccarrasco	07/16/2018	Checked site status online
Mon Jul 16, 2018	12:49:01			07-16-18: Entered the station to conduct PMI-04-014, also checked O3 parameters, all look good. Performed PMI04-014, and collected audit kit info for TCEQ. Departed site safely. M Aguilar
Tue Jul 17, 2018	03:28:47			Automatic time sync
Tue Jul 17, 2018	05:54:12	Ccarrasco	07/17/2018	Checked site status online
Wed Jul 18, 2018	06:28:23	Ccarrasco	07/18/2018	Checked site status online

Thu Jul 19, 2018	06:33:20	Ccarrasco	07/19/2018	Checked site status online
Fri Jul 20, 2018	06:07:19	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:28:51			Automatic time sync
Sat Jul 21, 2018	14:30:13			7-21-18 StatusOK, Mode4, FiltLoad31, Mass16.9, Noise0.0, Freq252.0165824, TotalMass0, CaseTemp50, AirTemp50, CapTemp50, MainFlow3.00, AuxFlow13.62 BF
Sat Jul 21, 2018	14:40:00			M[As[A
Sat Jul 21, 2018	14:47:31			Status OK, Mode 4, % Filter Loading 31%, Mass 16.9, Noise 0.0, Frequency 252.0165824s[AK[CM[Be[D,[D [C, Total Mass 0, Case Temp 50.0, Air Temp 50.0, Cap Temp 50.0, Main Flow 3.00, Aux Flow 13.62
Mon Jul 23, 2018	06:01:25	Ccarrasco	07/23/2018	Checked site status online
Mon Jul 23, 2018	14:02:57			07-23-18: Entered station to evaluate the internal TEOM temp issues. The exhaust fan is not working. TCEQ will be notified to order another. Made log entry, left site secure. M Aguilar/ B White
Mon Jul 23, 2018	16:28:11	BWhite	07/23/2018	7-23-18: Entered the station to relocate the trailer 5 ft away from the fence. Moved the trailer and verified that the o3 unit, a.c., Zeno and router are all online. Made log once back at the office, didn't have laptop in the field.
Tue Jul 24, 2018	08:06:55	Ccarrasco	07/24/2018	Checked site status online
Tue Jul 24, 2018	12:24:26			07-24-18: Entered station to conduct monthly 5 pt calibration with TS 165C-74465-376 cal date 9-21-18.Placed O3 in Q code. 400 set = 801.2 mv = 400.6 ppb 300 set = 600.3 mv = 300.16ppb 200 set = 400.5 mv = 200.25 ppb 70 set = 140.13mv = 70.06 ppb 0 set = 2.5 mv = 1.25 ppb Replaced the TEOM exhaust fan, temp down to 83'f. Placed O3 back in K code Left site safe and secure. M Aguilar
Tue Jul 24, 2018	12:27:44			07-24-18: Entered incorrect Zero lvl readings, these are correct. Entered station to conduct monthly 5 pt calibration with TS 165C-74465-376 cal date 9-21-18.Placed O3 in Q code. 400 set = 801.2 mv = 400.6 ppb 300 set = 600.3 mv = 300.16ppb 200 set = 400.5 mv = 200.25 ppb 70 set = 140.13mv = 70.06 ppb 0 set = 3.16 mv = 1.58 ppb Replaced the TEOM exhaust fan temp down to 83f. Placed O3 back in K code Left site safe and secure. M Aguilar data will be recorded. The instrument will be left in q code and the data validators will be notified so that they can k code the instrument when the mass concentration reaches a posative number. These results are preliminary. J Dennis
Wed Jul 25, 2018	06:12:39	Ccarrasco	07/25/2018	Checked site status online
Thu Jul 26, 2018	06:17:12	Ccarrasco	07/26/2018	Checked site status online
Thu Jul 26, 2018	19:32:15			Status OK, Mode 4, Filter Loading 34%, Mass 13.1, Noise 0.115, Frequency 251.8427824, Total Mass 0, Case Temp 50, Air Temp 50, Cap Temp 50, Main Flow 3.00, Aux Flow 13.63 7/26/18 AK
Fri Jul 27, 2018	06:06:09	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:28:51			Automatic time sync
Mon Jul 30, 2018	06:28:18	Ccarrasco	07/30/2018	Checked site status online

Mon Jul 30, 2018	14:17:26	BWhite	07/23/2018	Disregard following log entry made on 7/23/18, was meant for CAMS 6602: 7-23-18: Entered the station to relocate the trailer 5 ft away from the fence. Moved the trailer and verified that the o3 unit, a.c., Zeno and router are all online. Made log once back at the office, didn't have laptop in the field. BWhite.
Tue Jul 31, 2018	03:28:50			Automatic time sync
Tue Jul 31, 2018	06:05:00	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for Dripping Springs School C614

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 Dripping Springs School C614 (48_209_0614)
Mon Jul 02, 2018	06:13:50	Ccarrasco	07/02/2018	Checked site status online
Tue Jul 03, 2018	03:28:40			Automatic time sync
Tue Jul 03, 2018	06:46:30	Ccarrasco	07/03/2018	Checked site status online
Tue Jul 03, 2018	13:41:22			07-03-18: Entered the station to perform PMI 04-014. Also checked the O3 unit pressures, temps, and flows. All are ok. Made log, left site securely. M aguilar
Thu Jul 05, 2018	07:15:21	Ccarrasco	07/05/2018	Checked site status online
Sat Jul 07, 2018	03:28:40			Automatic time sync
Mon Jul 09, 2018	06:37:59	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:28:44			Automatic time sync
Tue Jul 10, 2018	07:09:08	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:46:49	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:02:20	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:55:08	Ccarrasco	07/13/2018	Checked site status online
Mon Jul 16, 2018	05:49:15	Ccarrasco	07/16/2018	Checked site status online
Tue Jul 17, 2018	03:28:40			Automatic time sync
Tue Jul 17, 2018	05:54:26	Ccarrasco	07/17/2018	Checked site status online
Wed Jul 18, 2018	06:28:40	Ccarrasco	07/18/2018	Checked site status online
Wed Jul 18, 2018	11:58:12			7-18-18: Entered the station to reconduct monthly 5 point cal using 165 sn 165- 74465-376 cal date 9-21-18. Placed unit in Q code. 400:801.1 mv: 400.55 300:602.8 mv: 301.4 ppb 200:399.7 mv: 199.85 ppb 70:140 mv: 70 ppb 0:1.8 mv: 0.46 ppb No adjustments were made, performed pmi 04-014, placed unit back in K code ,made log entry , left site safe. MA
Thu Jul 19, 2018	06:33:35	Ccarrasco	07/19/2018	Checked site status online
Fri Jul 20, 2018	06:07:35	Ccarrasco	07/20/2018	Checked site status online
Mon Jul 23, 2018	06:01:39	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	03:28:43			Automatic time sync
Tue Jul 24, 2018	08:07:09	Ccarrasco	07/24/2018	Checked site status online
Wed Jul 25, 2018	06:12:53	Ccarrasco	07/25/2018	Checked site status online
Thu Jul 26, 2018	06:17:27	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:06:24	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:28:44			Automatic time sync
Mon Jul 30, 2018	06:28:33	Ccarrasco	07/30/2018	Checked site status online
Tue Jul 31, 2018	03:28:41			Automatic time sync
Tue Jul 31, 2018	06:05:16	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for CAPCOG McKinney Roughs C684

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 CAPCOG McKinney Roughs C684 (48_021_0684)
Mon Jul 02, 2018	06:14:09	Ccarrasco	07/02/2018	Checked site status online
Tue Jul 03, 2018	03:43:37			Automatic time sync
Tue Jul 03, 2018	06:46:45	Ccarrasco	07/03/2018	Checked site status online
Tue Jul 03, 2018	11:32:27			07-03-18: Entered the station to perform PMI 04-014. Also checked the O3 unit pressures, temps, and flows. All are ok. Made log, left site securely. M aguilar
Thu Jul 05, 2018	07:15:37	Ccarrasco	07/05/2018	Checked site status online
Mon Jul 09, 2018	06:38:18	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:43:38			Automatic time sync
Tue Jul 10, 2018	07:09:34	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:47:06	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:02:35	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:55:24	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:43:38			Automatic time sync
Mon Jul 16, 2018	05:49:32	Ccarrasco	07/16/2018	Checked site status online
Tue Jul 17, 2018	03:43:38			Automatic time sync
Tue Jul 17, 2018	05:54:42	Ccarrasco	07/17/2018	Checked site status online
Wed Jul 18, 2018	06:28:59	Ccarrasco	07/18/2018	Checked site status online
Thu Jul 19, 2018	06:33:51	Ccarrasco	07/19/2018	Checked site status online
Thu Jul 19, 2018	15:19:22			07-19-18: Entered the station to reconduct monthly 5 point cal using 165 sn 165- 74465-376 cal date 9-21-18. Placed unit in Q code. 400:798.83 mv: 399.41 300:600.6 mv: 300.3 ppb 200:400.1 mv: 200.05 ppb 70:139.8 mv: 69.91 ppb 0:0.2 mv: 0.1 ppb No adjustments were made, performed pmi 04-014, placed unit back in K code ,made log entry , left site safe. MA
Fri Jul 20, 2018	06:07:51	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:43:38			Automatic time sync
Mon Jul 23, 2018	06:01:53	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	08:07:25	Ccarrasco	07/24/2018	Checked site status online
Wed Jul 25, 2018	06:13:11	Ccarrasco	07/25/2018	Checked site status online
Thu Jul 26, 2018	06:17:44	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:06:40	Ccarrasco	07/27/2018	Checked site status online
Mon Jul 30, 2018	06:28:50	Ccarrasco	07/30/2018	Checked site status online
Tue Jul 31, 2018	03:43:39			Automatic time sync
Tue Jul 31, 2018	06:05:37	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for CAPCOG Lake Georgetown C690

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 CAPCOG Lake Georgetown C690 (48_491_0690)
Mon Jul 02, 2018	06:14:26	Ccarrasco	07/02/2018	Checked site status online
Tue Jul 03, 2018	03:13:09			Automatic time sync
Tue Jul 03, 2018	06:46:59	Ccarrasco	07/03/2018	Checked site status online
Thu Jul 05, 2018	07:15:52	Ccarrasco	07/05/2018	Checked site status online
Thu Jul 05, 2018	12:05:17			07-05-18: Entered the station to perform pmi 04-014, changed the filter. Also adjusted the inside a.c.temp. Made log entry and left site safe and secure. M Aguilar
Sat Jul 07, 2018	03:13:08			Automatic time sync
Mon Jul 09, 2018	06:38:33	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:13:09			Automatic time sync
Tue Jul 10, 2018	07:09:49	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:47:22	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:02:52	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:55:41	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:13:08			Automatic time sync
Mon Jul 16, 2018	05:49:50	Ccarrasco	07/16/2018	Checked site status online
Tue Jul 17, 2018	03:13:11			Automatic time sync
Tue Jul 17, 2018	05:54:57	Ccarrasco	07/17/2018	Checked site status online
Tue Jul 17, 2018	10:27:17			7-17-18: Entered the station to perform PMI 04014. Changed filter and adjusted the a.c. temp inside the trailer.Left site securely. M Aguilar
Wed Jul 18, 2018	06:29:19	Ccarrasco	07/18/2018	Checked site status online
Thu Jul 19, 2018	06:34:07	Ccarrasco	07/19/2018	Checked site status online
Fri Jul 20, 2018	06:08:06	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:13:08			Automatic time sync
Mon Jul 23, 2018	06:02:09	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	03:13:08			Automatic time sync
Tue Jul 24, 2018	08:07:40	Ccarrasco	07/24/2018	Checked site status online
Wed Jul 25, 2018	06:13:25	Ccarrasco	07/25/2018	Checked site status online
Wed Jul 25, 2018	14:18:38			7-25-18: Entered the station to conduct monthly 5 point cal using 165 sn 165-74465- 376 cal date 9-21-18. Placed unit in Q code. 400:801.06 mv: 400.53 ppb 300:601.26 mv: 300.63 ppb 200:400.1 mv: 200.05 ppb 70:140.86 mv: 70.43 ppb 0:2.53 mv: 1.26 ppb placed unit back in K code, made log entry, left site safe. MA
Thu Jul 26, 2018	06:18:01	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:07:00	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:13:08			Automatic time sync
Mon Jul 30, 2018	06:29:07	Ccarrasco	07/30/2018	Checked site status online
Tue Jul 31, 2018	03:13:09			Automatic time sync
Tue Jul 31, 2018	06:05:55	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for Gorzycki Middle School C1603

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 Gorzycki Middle School C1603 (48_453_1603)
Mon Jul 02, 2018	06:16:05	Ccarrasco	07/02/2018	Checked site status online
Tue Jul 03, 2018	03:13:09			Automatic time sync
Tue Jul 03, 2018	06:47:59	Ccarrasco	07/03/2018	Checked site status online
Thu Jul 05, 2018	07:16:55	Ccarrasco	07/05/2018	Checked site status online
Sat Jul 07, 2018	03:13:09			Automatic time sync
Mon Jul 09, 2018	06:39:57	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:13:08			Automatic time sync
Tue Jul 10, 2018	07:11:07	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:48:33	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:03:55	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:56:50	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:13:09			Automatic time sync
Mon Jul 16, 2018	05:50:56	Ccarrasco	07/16/2018	Checked site status online
Tue Jul 17, 2018	03:13:10			Automatic time sync
Tue Jul 17, 2018	05:56:01	Ccarrasco	07/17/2018	Checked site status online
Wed Jul 18, 2018	06:30:34	Ccarrasco	07/18/2018	Checked site status online
Thu Jul 19, 2018	06:35:28	Ccarrasco	07/19/2018	Could not check site status online
Thu Jul 19, 2018	12:24:02			7-19-18: Entered the station to reconduct monthly 5 point cal using 165 sn 165- 74465-376 cal date 9-21-18. Placed unit in Q code. 400:801.96 mv: 400.98 300:599.83 mv: 299.91 ppb 200:400.5 mv: 200.25 ppb 70:140.06 mv: 70.03 ppb 0:1.9 mv: 0.95 ppb No adjustments were made, performed PMI 04-014, took the UPS, it was malfunctioning, moved all power to another surge protector. Placed unit back in K code , made log entry , left site safe. MA
Fri Jul 20, 2018	06:09:16	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:13:08			Automatic time sync
Mon Jul 23, 2018	06:03:06	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	03:13:09			Automatic time sync
Tue Jul 24, 2018	08:08:41	Ccarrasco	07/24/2018	Checked site status online
Wed Jul 25, 2018	06:14:51	Ccarrasco	07/25/2018	Checked site status online
Thu Jul 26, 2018	06:19:08	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:08:07	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:13:07			Automatic time sync
Mon Jul 30, 2018	06:30:13	Ccarrasco	07/30/2018	Checked site status online
Tue Jul 31, 2018	03:13:09			Automatic time sync
Tue Jul 31, 2018	06:07:00	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for Lockhart C1604

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 Lockhart C1604 (48_055_1604)
Mon Jul 02, 2018	06:15:49	Ccarrasco	07/02/2018	Checked site status online
Mon Jul 02, 2018	13:38:19			7-2-18: Entered the station to perform pmi 04-014 and to check the a.c. settings. The a.c. is not blowing air, I reset the unit, but still no air is blowing. Reported it back to Dios Dado. Made log entry and left site safe and secure. M Aguilar
Tue Jul 03, 2018	03:13:10			Automatic time sync
Tue Jul 03, 2018	06:47:45	Ccarrasco	07/03/2018	Checked site status online
Thu Jul 05, 2018	07:16:41	Ccarrasco	07/05/2018	Checked site status online
Sat Jul 07, 2018	03:13:08			Automatic time sync
Mon Jul 09, 2018	06:39:43	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:13:08			Automatic time sync
Tue Jul 10, 2018	07:10:51	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:48:18	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:03:38	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:56:36	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:13:09			Automatic time sync
Mon Jul 16, 2018	05:50:41	Ccarrasco	07/16/2018	Checked site status online
Mon Jul 16, 2018	15:38:43			7-16-18: Entered the station to perform pmi 04-014. changed filter and waited for the a.c. tech, he didn't show up by 5pm co I left. Will return when a.c. tech is lined up. Left site securely. M Aguilar
Tue Jul 17, 2018	03:13:10			Automatic time sync
Tue Jul 17, 2018	05:55:47	Ccarrasco	07/17/2018	Checked site status online
Wed Jul 18, 2018	06:30:11	Ccarrasco	07/18/2018	Checked site status online
Thu Jul 19, 2018	06:34:58	Ccarrasco	07/19/2018	Checked site status online
Fri Jul 20, 2018	06:09:00	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:13:09			Automatic time sync
Mon Jul 23, 2018	06:02:53	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	03:13:09			Automatic time sync
Tue Jul 24, 2018	08:08:26	Ccarrasco	07/24/2018	Checked site status online
Wed Jul 25, 2018	06:14:35	Ccarrasco	07/25/2018	Could not check site status online
Wed Jul 25, 2018	10:26:30			7-25-18: Entered the station to check LST status. The CPS is out, will need to take with to refill the batteries, and to conduct monthly 5 point cal using 165 sn 165- 74465-376 cal date 9-21-18.Plced the O3 unit into Q code. 400:800.85 mv: 400.41 ppb 300:99.23 mv: 299.61 ppb 200:400.4 mv: 200.2 ppb 70:141.4 mv: 70.7 ppb 0:0.2 mv: 0.1 ppb All equipment is up and running, No adjustments were made, placed the O3 unit back into K code, made log entry, left site safe. M Aguilar
Thu Jul 26, 2018	06:18:53	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:07:51	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:13:07			Automatic time sync
Mon Jul 30, 2018	06:29:58	Ccarrasco	07/30/2018	Checked site status online
Tue Jul 31, 2018	03:13:09			Automatic time sync

Tue Jul 31, 2018	06:06:47	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for CAPCOG San Marcos Staples Road C1675

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 CAPCOG San Marcos Staples Road C1675 (48_209_1675)
Mon Jul 02, 2018	06:14:43	Ccarrasco	07/02/2018	Checked site status online
Mon Jul 02, 2018	15:30:16			7-2-18: Entered the station to perform PMI 04-014, changed the filter, Made log entry and left site safe and secure. M Aguilar
Tue Jul 03, 2018	03:43:38			Automatic time sync
Tue Jul 03, 2018	06:47:13	Ccarrasco	07/03/2018	Checked site status online
Thu Jul 05, 2018	07:16:09	Ccarrasco	07/05/2018	Checked site status online
Sat Jul 07, 2018	03:43:38			Automatic time sync
Mon Jul 09, 2018	06:38:53	Ccarrasco	07/09/2018	Checked site status online
Mon Jul 09, 2018	06:39:14	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:43:38			Automatic time sync
Tue Jul 10, 2018	07:10:07	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:47:38	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:03:07	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:55:57	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:43:39			Automatic time sync
Mon Jul 16, 2018	05:50:07	Ccarrasco	07/16/2018	Checked site status online
Tue Jul 17, 2018	03:43:39			Automatic time sync
Tue Jul 17, 2018	05:55:14	Ccarrasco	07/17/2018	Checked site status online
Wed Jul 18, 2018	06:29:36	Ccarrasco	07/18/2018	Checked site status online
Wed Jul 18, 2018	15:23:23			7-18-18: Entered the station to reconduct monthly 5 point cal using 165 sn 165- 74465-376 cal date 9-21-18. Placed unit in Q code. 400:800.4 mv: 400.2 300:599.2 mv: 299.76 ppb 200:400.83 mv: 200.41 ppb 70:140.8 mv: 70.4 ppb 0:.75 mv: 0.375 ppb No adjustments were made, performed PMI 04-014, placed unit back in K code, made log entry , left site safe. MA
Thu Jul 19, 2018	06:34:22	Ccarrasco	07/19/2018	Checked site status online
Fri Jul 20, 2018	06:08:23	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:43:37			Automatic time sync
Mon Jul 23, 2018	06:02:24	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	03:43:38			Automatic time sync
Tue Jul 24, 2018	08:07:55	Ccarrasco	07/24/2018	Checked site status online
Wed Jul 25, 2018	06:13:44	Ccarrasco	07/25/2018	Checked site status online
Thu Jul 26, 2018	06:18:17	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:07:17	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:43:37			Automatic time sync
Mon Jul 30, 2018	06:29:26	Ccarrasco	07/30/2018	Checked site status online
Tue Jul 31, 2018	03:43:37			Automatic time sync
Tue Jul 31, 2018	06:06:13	Ccarrasco	07/31/2018	Checked site status online

Operator Logs for CAPCOG Hutto College Street C6602

Date	Time (CST)	Operator	Visit Date	Log Entry
				07/01/2018 -- 08/01/2018 CAPCOG Hutto College Street C6602 (48_491_6602)
Mon Jul 02, 2018	06:15:24	Ccarrasco	07/02/2018	Checked site status online
Tue Jul 03, 2018	03:13:09			Automatic time sync
Tue Jul 03, 2018	06:47:29	Ccarrasco	07/03/2018	Checked site status online
Thu Jul 05, 2018	07:16:29	Ccarrasco	07/05/2018	Checked site status online
Thu Jul 05, 2018	13:12:24			07-05-18: Entered the station to perform PMI 04-014 ,changed the filter, Made log entry and left site safe and secure. M Aguilar
Sat Jul 07, 2018	03:13:08			Automatic time sync
Mon Jul 09, 2018	06:39:30	Ccarrasco	07/09/2018	Checked site status online
Tue Jul 10, 2018	03:13:08			Automatic time sync
Tue Jul 10, 2018	07:10:28	Ccarrasco	07/10/2018	Checked site status online
Wed Jul 11, 2018	05:48:03	Ccarrasco	07/11/2018	Checked site status online
Thu Jul 12, 2018	06:03:23	Ccarrasco	07/12/2018	Checked site status online
Fri Jul 13, 2018	05:56:20	Ccarrasco	07/13/2018	Checked site status online
Sat Jul 14, 2018	03:13:07			Automatic time sync
Mon Jul 16, 2018	05:50:26	Ccarrasco	07/16/2018	Checked site status online
Tue Jul 17, 2018	03:13:08			Automatic time sync
Tue Jul 17, 2018	05:55:32	Ccarrasco	07/17/2018	Checked site status online
Tue Jul 17, 2018	12:01:34			7-17-18: Entered the station to perform PMI 04014. Changed filter and adjusted the a.c. temp inside the trailer. Left site securely. M Aguilar
Wed Jul 18, 2018	06:29:53	Ccarrasco	07/18/2018	Checked site status online
Thu Jul 19, 2018	06:34:41	Ccarrasco	07/19/2018	Checked site status online
Fri Jul 20, 2018	06:08:40	Ccarrasco	07/20/2018	Checked site status online
Sat Jul 21, 2018	03:13:09			Automatic time sync
Mon Jul 23, 2018	06:02:39	Ccarrasco	07/23/2018	Checked site status online
Tue Jul 24, 2018	03:13:08			Automatic time sync
Tue Jul 24, 2018	08:08:12	Ccarrasco	07/24/2018	Checked site status online
Tue Jul 24, 2018	15:54:21			7-24-18: Entered the station to reconduct monthly 5 point cal using 165 sn 165- 74465-376 cal date 9-21-18. Placed unit in Q code. 400:800.6mv: 400.3 ppb 300:98.46 mv: 299.23 ppb 200:401.4 mv: 200.63 ppb 70:139.63 mv: 69.81 ppb 0:1.0 mv: 0.5 ppb placed unit back in K code, made log entry, left site safe. MA
Wed Jul 25, 2018	06:14:02	Ccarrasco	07/25/2018	Checked site status online
Thu Jul 26, 2018	06:18:39	Ccarrasco	07/26/2018	Checked site status online
Fri Jul 27, 2018	06:07:36	Ccarrasco	07/27/2018	Checked site status online
Sat Jul 28, 2018	03:13:06			Automatic time sync
Mon Jul 30, 2018	06:29:43	Ccarrasco	07/30/2018	Checked site status online

Mon Jul 30, 2018	14:16:00	BWhite	07/23/2018	Delayed Log: this entry was mistakenly entered in CAMS 601 operators log. Should have been Hutto C6602: 7-23-18: Entered the station to relocate the trailer 5 ft away from the fence. Moved the trailer and verified that the o3 unit, a.c., Zeno and router are all online. Made log once back at the office, didn't have laptop in the field. BWhite
Tue Jul 31, 2018	03:13:10			Automatic time sync
Tue Jul 31, 2018	06:06:32	Ccarrasco	07/31/2018	Checked site status online
Tue Jul 31, 2018	15:27:51	M Aguilar	06/07/2018	Just discovered log entry made during site visit on 6-7-18 did not post in the electronic logs. The log is as follows: 6-7-18: Entered the station to perform bi-monthly checks. Left site safe and secure.

Attachment 3: CAPCOG 5 pt calibration results*.

CAPCOG July 2018 – 5 point calibration results																
5pt. Monthly Calibrations **Site**	**Calibration Date**	**0 ppb check**	**% out**	**DQO met**	**70 ppb check**	**% out**	**DQO met**	**200 ppb check**	**% out**	**DQO met**	**300 ppb check**	**% out**	**DQO met**	**400 ppb check**	**% out**	**DQO met**
C601	7/24/2018	1.58	0.3	yes	70.1	0.1	yes	200.3	0.1	yes	300.2	0.1	yes	400.6	0.1	yes
C614	7/18/2018	0.5	0.1	yes	70.1	0.2	yes	199.9	-0.1	yes	301.4	0.5	yes	400.6	0.1	yes
C684	7/19/2018	0.1	0.0	yes	69.9	-0.1	yes	200.1	0.0	yes	300.3	0.1	yes	399.4	-0.1	yes
C690	7/25/2018	1.3	0.3	yes	70.4	0.6	yes	200.1	0.0	yes	300.6	0.2	yes	400.5	0.1	yes
C1603	7/19/2018	1.0	0.2	yes	70.0	0.0	yes	200.3	0.1	yes	299.9	0.0	yes	401.0	0.2	yes
C1604	7/25/2018	0.1	0.0	yes	70.7	1.0	yes	200.2	0.1	yes	299.6	-0.1	yes	400.4	0.1	yes
C1675	7/18/2018	0.4	0.1	yes	70.4	0.6	yes	200.4	0.2	yes	299.8	-0.1	yes	400.2	0.0	yes
C6602	7/24/2018	0.5	0.1	yes	69.8	-0.3	yes	200.6	0.3	yes	299.2	-0.3	yes	400.3	0.1	yes

This table shows the percentage of error of the machine from the known source.
<3% outstanding; <5% excellent; <7% good; >7% DQO not met.

In many cases we are able to maintain < 1% error for the most accurate data possible. None of the data was more than 5% out, and that is due to normal machine linearity imperfections.