EPA PM_{2.5} CHEMICAL SPECIATION NETWORK CARBON SAMPLER REPLACEMENT PROGRAM PHASE II

Prepared for:

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Implementation of URG-3000N Samplers At EPA PM_{2.5} Chemical Speciation Network Sites Under National Park Service Contracts C2350010850 and C2350064025

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TABLE OF	CONTENTS
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Section	Page
LIST OF ACRONYMNS AND ABBREVIATIONS	ii
1.0INTRODUCTION1.1EPA Role1.2ARS Role	1 1 2
2.0 DEVIATIONS	15
3.0 CALIBRATION FORMS	16
4.0 SITE PHOTOGRAPHS	17
5.0 SUMMARY	18
APPENDIX A Calibration Forms Ordered by AQS Number	19
APPENDIX B Site Photographs Ordered by AQS Number	59
APPENDIX C Property List for ARS-Install Sites Ordered by AQS Number	92
APPENDIX D Property List for Self-Install Sites Ordered by AQS Number	98
APPENDIX E Master Contact List Ordered by Install-Group Number	101

LIST OF FIGURES

Figure		Page
1-1	ARS-Install Map of CSN Carbon Sampler Phase II	4
1-2	Self-Install Map of CSN Carbon Sampler Phase II	5



LIST OF TABLES

TablePage1-1Phase II Project Timeline61-2ARS-Install Sites Listed by Install-Group Number91-3ARS-Install Sites Listed by AQS Number111-4Self-Install Sites Listed by AQS Number14

LIST OF ACRONYMNS AND ABBREVIATIONS

AQS	Air Quality System (EPA)
ARS	Air Resource Specialists, Inc.
CARB	California Air Resources Board
CSN	Chemical Speciation Network (EPA)
EPA	Environmental Protection Agency (U.S.)
IMPROVE	Interagency Monitoring of Protected Visual Environments
NAAQS	National Ambient Air Quality Standards
NPS	National Park Service
OAQPS	Office of Air Quality Planning & Standards (EPA)
OR DEQ	Oregon Department of Environmental Quality
PM _{2.5}	Particulate matter less than 2.5 microns
POC	Parameter of Occurrence (EPA AQS)
TOR	Thermal Optical Reflectance
TOT	Thermal Optical Transmittance
URG	URG Corporation



1.0 INTRODUCTION

In April 2005, the Clean Air Scientific Advisory Committee gave strong general support for making changes to the Environmental Protection Agency's (EPA's) $PM_{2.5}$ Chemical Speciation Network (CSN) to improve comparability with the rural Interagency Monitoring of Protected Visual Environments (IMPROVE) $PM_{2.5}$ network, which collects mass, ions, elements, and carbon species data. The CSN's objectives are to:

- Provide data to support the development of modeling tools.
- Assess the effectiveness of emission reduction strategies.
- Support other air quality programs and the National Ambient Air Quality Standards (NAAQS).
- Support research studies.

The EPA process, designed to achieve this comparability, involves replacing the CSN carbon sampling channel with Module C of the IMPROVE Version II sampler, and using the IMPROVE carbon Thermal Optical Reflectance (TOR) analysis method instead of the Thermal Optical Transmittance (TOT) method. In addition, the EPA requested the manufacturer of the IMPROVE sampler, URG Corporation (Chapel Hill, NC) to modify the Module C to incorporate improved sampling technologies. The result was a new instrument, the URG-3000N Sequential Particulate Speciation System.

The carbon sampler replacement project has three (3) phases. Phase I involved the replacement of 57 samplers and 2 collocated samplers for a total of 59 samplers at 56 sites. Phase II, the subject of this report, involved the installation of 62 samplers at 61 sites (1 site received 2 samplers). Phase III will commence in May 2009 and will involve 77 installations, which are scheduled to be completed in September 2009.

The Phase II installation effort began December 5, 2008 and was completed April 2, 2009. These installations were classified into two (2) types: Air Resource Specialists (ARS)-performed installations and state-performed installations. States that had been trained in Phase I or states that preferred to install the sampler themselves were allowed to assemble, install, and calibrate the sampler without assistance from ARS.

1.1 EPA ROLE

The EPA is responsible for the coordination of the national $PM_{2.5}$ CSN. The measurement of ambient carbon species is an important component of this network. To achieve national consistency in carbon measurements, the EPA replaced the existing carbon sampler with the new URG-3000N. This change in sampling technology and the associated filter analysis techniques will provide the national consistency the EPA and other monitoring agencies desire.



The objective of this Phase II effort was to procure and install URG-3000N samplers at 61 selected sites. The Scope of Work for this modification consists of the following three (3) subtasks:

- 1. The purchase of 62 samplers was performed by the National Park Service (NPS) for the EPA using EPA funds recently transferred. Samplers were purchased from URG and delivered to ARS for acceptance testing.
- 2. EPA was responsible for determining which CSN sites received the URG-3000N instruments. Following that decision, the EPA regions and states were contacted to assist in assembling a list of site contacts that ARS would use in scheduling the installations.
- 3. EPA provided guidance for calibration methods and tolerances in the form of "Standard Operating Procedure for the URG-3000N Sequential Particulate Speciation System, Interim Version 1.0." EPA also provided guidance on operational procedures that ARS subsequently used during the site training.

1.2 ARS ROLE

ARS received 62 URG-3000N samplers purchased by NPS. Under direction from the EPA, ARS purchased support equipment from URG. The support systems included: sampler cartridges, audit cartridges, and sampler compact flash memory cards. ARS also purchased and received 62 TetraCal flow calibrators from BGI, Inc.

ARS acceptance tested all samplers to resolve any operational issues directly with URG before shipping the samplers for installation. Though all samplers were operationally tested, shipping and handling occasionally caused operational problems during or after installation. ARS technicians generally traveled with spare controllers and modules to replace faulty units upon installation. At completion of each installation group visit, ARS shipped any faulty parts found back to URG for repair. The exception to this policy occurred during the last installation group when no spare controllers or modules were available. Problem instruments during and after that installation have been referred directly to URG for warranty repair.

The samplers were installed either by an ARS field specialist, or were self-installed by state employees. The ARS field specialists generally performed installation visits in groups, where three (3) to six (6) samplers would be installed during each group visit. ARS assigned four (4) field specialists to support this project. The installation groups are indicated on the map in Figure 1-1. ARS coordinated each installation, occasional field repairs, sampler calibrations, and operator training. Table 1-1 is a timeline detailing each installation. Table 1-2 lists the completed ARS installation schedule by installation group number, and Table 1-3 lists the completed ARS installation schedule by Air Quality System (AQS) number.

For the installations to occur efficiently, local agency site personnel were contacted by ARS to determine in advance where the sampler was to be mounted, to identify any pre-visit preparation required (i.e., verify that an electrical outlet was available), and to be available during installation to receive training. ARS installations began on January 12, 2009 and were



completed on April 2, 2009. The samplers to be self-installed (state-performed installations) began shipping from ARS on December 2, 2008. The sampling program for Phase II URG 3000N Samplers began on April 1, 2009 for sites having either the 1-in-3 day or the 1-in-6 day monitoring schedule. Table 1-4 lists the self-install shipping dates by AQS number.

ARS coordinated with the self-install sites to ship the samplers and to provide technical support over the telephone. As with the ARS installation, shipping on occasion caused a controller or module to fail. On these occasions, ARS provided brief troubleshooting and/or parts replacement; ARS shipped the faulty part to URG for repair. Only after the installations were completed were the states required to send their own sampler parts to URG for warranty repair.

ARS completed a Site Installation Summary Form for each installation, which includes a completed installation log sheet, calibration values, and cardinal direction digital photographs when possible. Some sites were not prepared on-time or were not operational at the time of installation and therefore were not calibrated or photographed by ARS. These sites are discussed in Section 2.0, Deviations.



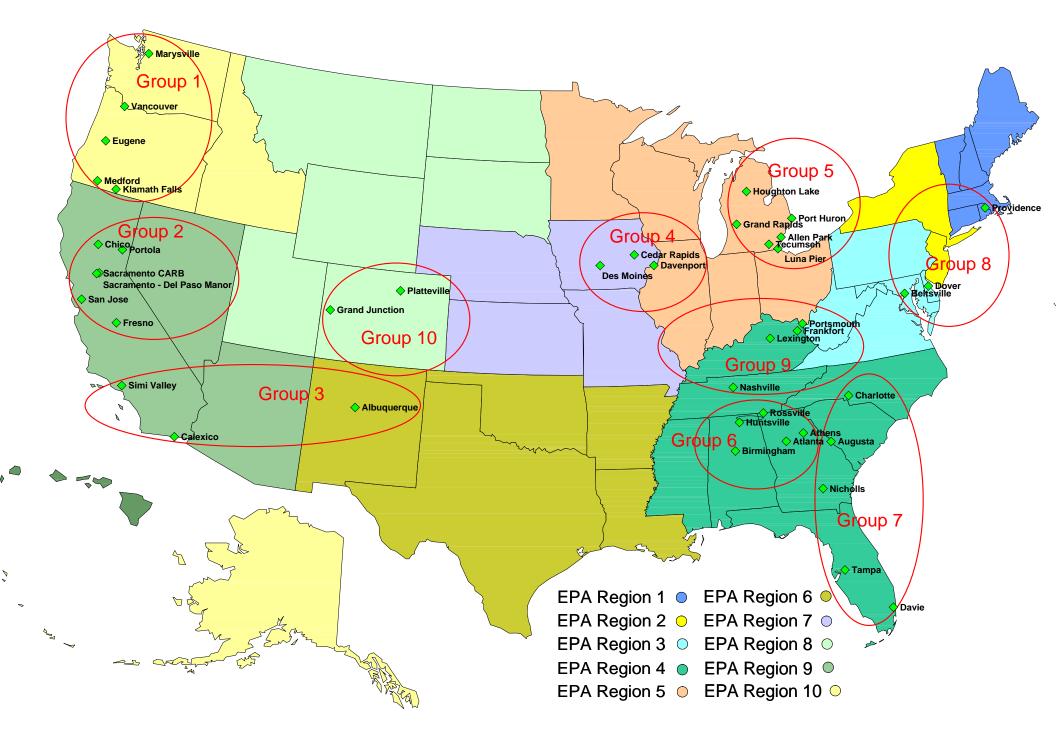


Figure 1-1. ARS-Install Map of CSN Carbon Sampler Phase II.

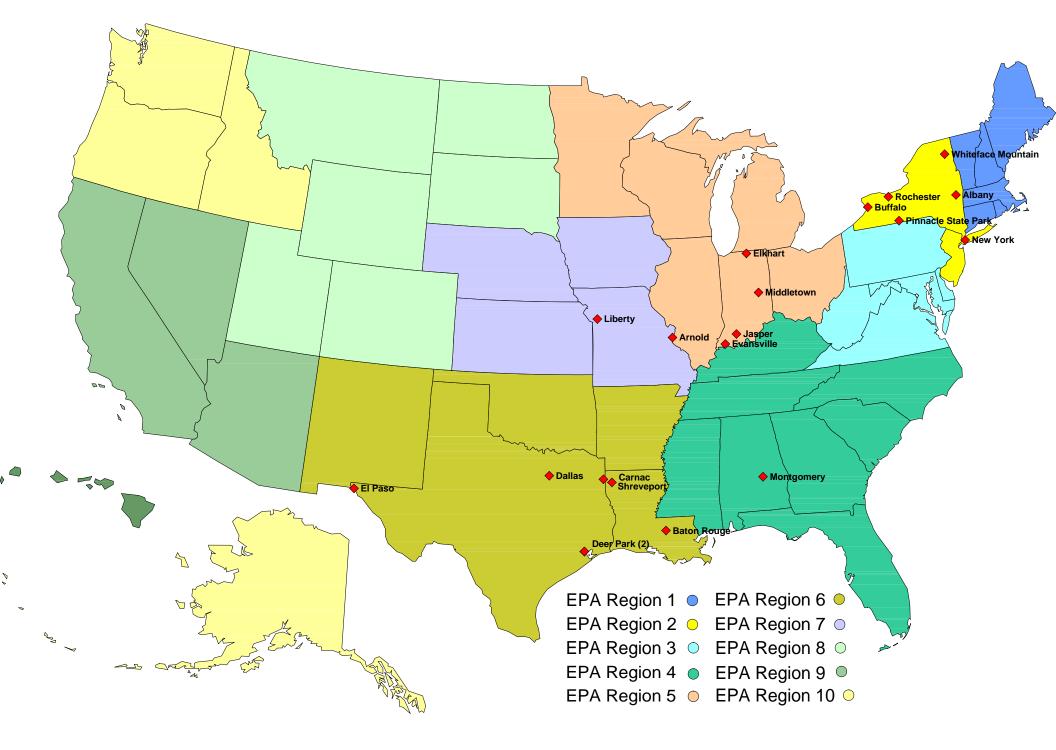


Figure 1-2. Self-Install Map of CSN Carbon Sampler Phase II.

Table 1-1 Phase II Project Timeline

Date	Activity
7/10/07	ARS received a task order from the National Park Service to purchase, test, install, and calibrate the URG-3000N Sequential Particulate Speciation System Samplers, as well as train site operators, in support of the EPA CSN Phase II Carbon Sampler replacement effort.
8/3/07	ARS ordered audit cassettes, operational cassettes, and compact flash cards from URG Corporation for the Phase II effort.
8/3/07	ARS ordered BGI TC5 TetraCal flow calibrators from BGI, Inc.
9/5/08	The 7/10/07 task order was terminated due to substantial modifications to the scope of work by NPS. The modifications ranged from how the samplers were ordered to the number and type of sites being installed.
9/21/08	A new task order was issued by NPS for ARS to acceptance test, install, calibrate, and train at 61 CSN sites. The samplers were purchased directly by NPS and delivered to ARS.
11/4/08	ARS responded to a request from EPA to test the first Phase II URG- 3000N sampler to assure it met the NPS/EPA specifications. Only minor issues were noted. NPS and EPA accepted the first URG-3000N Phase II sampler.
11/11/08	ARS began receiving Phase II URG-3000N samplers.
12/2/08	ARS shipped one (1) sampler to Montgomery, Alabama.
12/4/08	ARS shipped one (1) sampler to Jasper, Indiana.
12/5/08	ARS shipped three (3) samplers to Indiana: Elkhart (1), Evansville (1), and Middletown (1).

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Table 1-1 (Continued) Phase II Project Timeline

Date	Activity
12/9/08	ARS shipped six (6) samplers to New York: Albany (1), Buffalo (1), Pinnacle State Park (1), Queens College (1), Rochester (1) and Whiteface Mountain (1).
1/6/09	ARS shipped one (1) sampler to Albuquerque, New Mexico.
1/7/09	ARS shipped a replacement controller to Mike Walsh in New York. The failed controller was sent back to ARS. URG repaired under warranty.
1/12/09	ARS installed Group 6. The sites included: Athens, Rossville, and Atlanta, GA; and Huntsville and Birmingham, AL. The Rome, GA site was not ready to receive the sampler on the original installation date. Ken Buckley suggested installing at the Rossville, GA site and EPA concurred. Rome installation will occur in Phase III.
1/12/09	ARS installed Group 8. The sites included: Beltsville, MD; Dover, DE; and Providence, RI.
1/14/09	ARS shipped two (2) samplers to Missouri: Arnold (1) and Liberty (1).
1/28/09	ARS shipped five (5) samplers to Texas: Carnac (1), Dallas (1), Deer Park (2), and El Paso (1).
2/3/09	ARS shipped one (1) sampler and calibrator to Jeff Lantz, US EPA in Las Vegas, NV for an EPA auditor's training course. Received back at ARS the following week after the training.
2/10/09	ARS installed Group 9. The sites included: Nashville, TN; Frankfort and Lexington, KY; and Portsmouth, OH. The Frankfort site's assembly, calibration and training occurred in the air quality office. A tornado had cut power to the area on the night before the scheduled installation. The sampler was installed by the operator later when power was restored.

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Table 1-1 (Continued) Phase II Project Timeline

Date	Activity
2/12/09	ARS shipped two (2) samplers to Louisiana: Shreveport (1), Baton Rouge (1).
2/13/09	ARS shipped one BGI TetraCal to Dr. Rama Seshu Tangirala in Washington, DC at EPA request.
2/24/09	ARS installed Group 1. The sites included: Marysville and Vancouver, WA. The Eugene, Klamath Falls, and Medford, OR, sites were installed by the Oregon DEQ. ARS trained the operators at one location at the Oregon DEQ lab.
3/4/09	ARS installed the Platteville, CO site (Group 10).
3/5/09	ARS installed Group 4. The sites included: Cedar Rapids, Des Moines, and Davenport, IA.
3/12/09	ARS installed two (2) sites from Group 3. The sites included: Simi Valley and Calexico, CA.
3/16/09	ARS installed Group 5. The sites included: Luna Pier, Tecumseh, Allen Park, Grand Rapids, Port Huron, and Houghton Lake, MI.
3/19/09	ARS installed the Grand Junction, CO site (Group 10).
3/24/09	Albuquerque, NM, was originally an ARS installation site, which was part of Group 3. However, the site operator indicated on 1/5/09 that he would rather do a self-install. Then on 3/22/09, the operator requested on-site training, which ARS provided on 3/24/09.
3/30/09	ARS installed Group 2. The ARS technician for this group had a personal emergency that caused the postponement of the installation by one (1) week. As a result, the last three (3) sites were installed in April and missed the April 1 Phase II sample start date. The sites included: Chico, Fresno, Portola, Sacramento (Del Paso Manor), Sacramento (CARB), and San Jose, CA.
4/2/09	ARS completed the last Phase II installation in San Jose, CA.



Install Group	AQS	RTI Name	City Name	State	Final Install Date
1	41-029-0133	Medford (OR DEQ)	Medford	OR	2/26/2009
	41-035-0004	Peterson School	Klamath Falls	OR	2/26/2009
	41-039-0060	Lane Co. Regional Air	Eugene	OR	2/26/2009
	53-011-0013	Vancouver	Vancouver	WA	2/25/2009
	53-063-0016	Crown Z	Marysville	WA	2/24/2009
2	06-007-0002	Chico (CARB)	Chico	CA	3/26/2009
	06-019-0008	Fresno - First Street	Fresno	CA	3/23/2009
	06-063-1009	Portola (CARB)	Portola	CA	3/27/2009
	06-067-0006	Del Paso Manor	Sacramento	CA	3/25/2009
	06-067-0010	Sacramento (CARB)	Sacramento	CA	3/25/2009
	06-085-0005	Jackson Street	San Jose	CA	3/24/2009
3	06-025-0005	Calexico (CARB)	Calexico	CA	3/2/2009
	06-111-2002	Simi Valley	Simi Valley	CA	3/3/2009
	35-001-0023	Del Norte	Albuquerque	NM	3/25/2009
4	19-113-0037	Army Reserve Center	Cedar Rapids	IA	3/6/2009
	19-153-0030	Public Health Building	Des Moines	IA	3/9/2009
	19-163-0015	Jefferson Elementary	Davenport	IA	3/5/2009
5	26-081-0020	Grand Rapids	Grand Rapids	MI	3/6/2009
	26-091-0007	Tecumseh	Tecumseh	MI	3/2/2009
	26-113-0001	Houghton Lake	Houghton	MI	3/5/2009
	26-115-0005	Luna Pier	Luna Pier	MI	3/2/2009
	26-147-0005	Port Huron	Port Huron	MI	3/4/2009
	26-163-0001	Allen Park	Allen Park	MI	3/3/2009
6	01-073-2003	Wylam	Birmingham	AL	1/16/2009
	01-089-0014	Huntsville Old Airport	Huntsville	AL	1/15/2009
	13-059-0001	Athens	Athens	GA	1/13/2009

Table 1-2ARS-Install Sites Listed by Install-Group Number

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Install Group	AQS	RTI Name	City Name	State	Final Install Date
6	13-089-0002	South Dekalb	Atlanta	GA	1/12/2009
	13-295-0002	Rossville	Rossville	GA	1/14/2009
7	12-011-1002	Univ. of Florida Ag School	Davie	FL	2/23/2009
	12-057-3002	Sydney	Tampa	FL	3/24/2009
	13-069-0002	General Coffee State Park	Nicholls	GA	2/25/2009
	13-245-0091	Augusta	Augusta	GA	2/26/2009
	37-119-0041	Garinger High School	Charlotte	NC	2/27/2009
8	10-001-0003	Dover	Dover	DE	1/13/2009
	24-033-0030	HU-Beltsville	Beltsville	MD	1/12/2009
	44-007-0022	Urban League	Providence	RI	1/14/2009
9	21-043-0500	Grayson Lake	Frankfort	KY	2/12/2009
	21-067-0012	Lexington Health Dept	Lexington	KY	2/11/2009
	39-087-0012	ODOT	Portsmouth	OH	2/13/2009
	47-037-0023	Lockeland School	Nashville	TN	2/10/2009
10	08-001-0006	Commerce City	Commerce City	CO	3/4/2009
	08-077-0017	Powell Building	Grand Junction	CO	3/19/2009
	08-123-0008	Platteville	Platteville	СО	3/4/2009

Table 1-2 (Continued)ARS-Install Sites Listed by Install-Group Number



AQS	Install Group	RTI Name	City Name	State	Final Install Date
01-073-2003	6	Wylam	Birmingham	AL	1/16/2009
01-089-0014	6	Huntsville Old Airport	Huntsville	AL	1/15/2009
06-007-0002	2	Chico (CARB)	Chico	CA	3/26/2009
06-019-0008	2	Fresno - First Street	Fresno	CA	3/23/2009
06-025-0005	3	Calexico (CARB)	Calexico	CA	3/2/2009
06-063-1009	2	Portola (CARB)	Portola	CA	3/27/2009
06-067-0006	2	Del Paso Manor	Sacramento	CA	3/25/2009
06-067-0010	2	Sacramento (CARB)	Sacramento CARB	CA	3/25/2009
06-085-0005	2	Jackson Street	San Jose	CA	3/24/2009
06-111-2002	3	Simi Valley	Simi Valley	CA	3/3/2009
08-001-0006	10	Commerce City	Commerce City	СО	3/9/2009
08-077-0017	10	Powell Building	Grand Junction	СО	3/19/2009
08-123-0008	10	Platteville	Platteville	СО	3/4/2009
10-001-0003	8	Dover	Dover	DE	1/13/2009
12-011-1002	7	Univ. of Florida Ag School	Davie	FL	2/23/2009
12-057-3002	7	Sydney	Tampa	FL	3/24/2009
13-059-0001	6	Athens	Athens	GA	1/13/2009
13-069-0002	7	General Coffee State Park	Nicholls	GA	2/25/2009
13-089-0002	6	South Dekalb	Atlanta	GA	1/12/2009
13-245-0091	7	Augusta	Augusta	GA	2/26/2009

Table 1-3ARS-Install Sites Listed by AQS Number

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AQS	Install Group	RTI Name	City Name	State	Final Install Date
13-295-0002	6	Rossville	Rossville	GA	1/14/2009
19-113-0037	4	Army Reserve Center	Cedar Rapids	IA	3/6/2009
19-153-0030	4	Public Health Building	Des Moines	IA	3/9/2009
19-163-0015	4	Jefferson Elementary	Davenport	IA	3/5/2009
21-043-0500	9	Grayson Lake	Frankfort	KY	2/12/2009
21-067-0012	9	Lexington Health Dept	Lexington	KY	2/11/2009
24-033-0030	8	HU-Beltsville	Beltsville	MD	1/12/2009
26-081-0020	4	Grand Rapids	Grand Rapids	MI	3/6/2009
26-091-0007	5	Tecumseh	Tecumseh	MI	3/2/2009
26-113-0001	5	Houghton Lake	Houghton Lake	MI	3/5/2009
26-115-0005	5	Luna Pier	Luna Pier	MI	3/2/2009
26-147-0005	5	Port Huron	Port Huron	MI	3/4/2009
26-163-0001	5	Allen Park	Allen Park	MI	3/3/2009
35-001-0023	3	Del Norte	Albuquerque	NM	3/25/2009
37-119-0041	7	Garinger High School	Charlotte	NC	2/27/2009
39-087-0012	9	ODOT	Portsmouth	OH	2/13/2009
41-029-0133	1	Medford (OR DEQ)	Medford	OR	2/26/2009
41-035-0004	1	Peterson School	Klamath Falls	OR	2/26/2009

Table 1-3 (Continued)ARS-Install Sites Listed by AQS Number

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	Install				Final
AQS	Group	RTI Name	City Name	State	Install Date
41-039-0060	1	Lane Co. Regional Air Poll'n Auth	Eugene	OR	2/26/2009
44-007-0022	8	Urban League	Providence	RI	1/14/2009
47-037-0023	9	Lockeland School	Nashville	TN	2/10/2009
53-011-0013	1	Vancouver	Vancouver	WA	2/25/2009
53-063-0016	1	Crown Z	Marysville	WA	2/24/2009

Table 1-3 (Continued)ARS-Install Sites Listed by AQS Number



AQS	RTI Name	City Name	State	Ship Date
01-101-1002	MOMS	Montgomery	AL	12/2/2008
18-037-2001	Jasper Post Office	Jasper	IN	12/8/2008
18-039-0003	Elkhart Pierre Moran	Elkhart	IN	12/8/2008
18-065-0003	Shenandoah High School	Middletown	IN	12/8/2008
18-163-0012	Mill Road	Evansville	IN	12/8/2008
22-015-0008	Shreveport Airport	Shreveport	LA	2/12/2009
22-033-0009	Capitol	Baton Rouge	LA	2/12/2009
29-047-0005	Liberty	Liberty	MO	1/14/2009
29-099-0012	Arnold - R&P	Arnold	МО	1/14/2009
36-001-0005	Albany County Health Dept	Albany	NY	12/9/2008
36-029-0005	Buffalo	Buffalo	NY	12/9/2008
36-031-0003	Whiteface Mountain	Whiteface Mountain	NY	12/9/2008
36-055-1007	Rochester Primary	Rochester	NY	12/9/2008
36-081-0124	Queens College	New York	NY	12/9/2008
36-101-0003	Pinnacle State Park	Pinnacle State Park	NY	1/28/2009
48-113-0069	Dallas Hinton	Dallas	TX	1/28/2009
48-141-0044	Chamizal	El Paso	TX	1/28/2009
48-201-1039	Deer Park (Collocated)	Deer Park	TX	1/28/2009
48-203-0002	Carnac	Carnac	TX	1/28/2009

Table 1-4Self-Install Sites Listed by AQS Number



2.0 **DEVIATIONS**

Several installation trip changes occurred during the March 23 through April 3, 2009 period that deserves explanation. Changes in sampler and support hardware delivery dates, site stakeholder requirements, and the desired sampler startup date required flexibility and a number of installation visit changes listed below:

- Group 2 in northern California (originally scheduled to be installed during the week of March 23) was installed the week of March 30. The delay could not be avoided and resulted in three (3) sites not starting on April 1, 2009. Those three (3) sites are: Del Paso Manor, Sacramento, CA (AQS# 06-067-0006), Sacramento CARB, CA (AQS# 06-067-0010) and San Jose, CA (AQS# 06-085-0005).
- The Frankfort, Kentucky site (AQS# 21-043-0500) was not installed on schedule because of severe weather. A tornado the day before the installation interrupted power to the region. Instead, the assembly and training occurred in a state-run laboratory. The sampler was later installed at the site by the operator.
- The operator and staff from the Albuquerque, New Mexico site (AQS# 35-001-0023) requested a change from ARS-install status to self-install status. Later in March, however, the operator requested ARS training. ARS conducted the training on March 24, 2009.
- The three (3) Group 1 sites in Oregon; Eugene (AQS# 41-039-0060), Medford (AQS# 41-029-0133), and Klamath Falls (AQS# 41-035-0004) were originally self-installations. The Oregon DEQ contact requested training in January. ARS met with the operators and staff to conduct assembly and calibration at the DEQ lab location. The samplers were later installed at the three (3) sites by the operators.
- Only two (2) URG-3000N controllers failed in the initial Phase II installation effort. One was at a New York State Laboratory at Queens College (AQS# 36-081-0124) and the other was at the Albuquerque, NM site (AQS# 35-001-0023). In both cases, replacements were sent and repairs were made by URG under warranty. ARS has no direct knowledge of samplers that failed after a successful installation and calibration.
- The Commerce City site (AQS# 08-001-0006) received the Phase II URG3000N that was originally scheduled for installation at the Powell Building in Grand Junction, CO (AQS# 08-077-0017). The Grand Junction site received the Phase I sampler that previously operated at Commerce City, and the Grand Junction site received a full installation and training visit from ARS. Permission to swap samplers was granted by David Shelow, EPA-OAQPS.
- A Phase II BGI TetraCal was delivered to a Phase III site at Ewa Beach, HI (AQS# 15-003-0010), because the Phase III order was not delivered in time for the Ewa Beach training.



3.0 CALIBRATION FORMS

Whenever possible, ARS conducted a post-installation temperature and barometric sensor calibration, system leak check, and flow rate calibration. The sampler was initialized for site-specific operations including setting the sampler AQS and Parameter-of-Occurrence (POC) number, the sampler date and local standard time, the sample frequency and duration, and the initial stacked filter configuration. Calibration forms are presented in Appendix A, listed by AQS number.

Missing calibration forms occurred for a number of reasons. In order of frequency, the causes were as follows: the installed sampler malfunctioned, the flow calibrator malfunctioned, and, at one site, the flow adaptor was taken off-site by the site operator.



4.0 SITE PHOTOGRAPHS

ARS documented the installation with four (4) photographs taken in four (4) cardinal directions and one (1) good documentation image that showed all instrumentation in relation to the station after each installation. Site photographs are displayed by AQS number in Appendix B.

Missing images occurred for a number of reasons. In order of frequency, the causes were as follows: the ARS field technician had trouble with the camera or forgot to photograph the site, the site was not prepared for installation and was left in a temporary storage location, and at one site, photography was not allowed.



5.0 SUMMARY

As in Phase I of this project, Phase II presented a number of challenges to be overcome. The EPA, NPS, and state and local agencies were cooperative and very helpful in assuring that the samplers, documentation, and sites were prepared before the installation effort. Once the samplers had been received by ARS, scheduled installations were conducted largely on-time and with few delays.

The self-installation concept initiated with Phase II was completed satisfactorily. ARS technicians were contacted by states with a variety of questions; however, they were brief and well developed. It should be noted that ARS labeled each sampler box sent to a self-install site with the intended site's name. Many samplers were sent to a central location in a state, and then transported by the state to the final location. ARS cannot verify that each indicated sampler made it to its intended site as it is possible some were mixed or sent to different sites in a state. The property lists in Appendices C and D reflect the locations of ARS-installed samplers and the intended locations for self-installed samplers, respectively. Appendix E is a master contact list for all sites.

All of us at ARS appreciate the trust and confidence OAQPS showed in allowing us to help with this project. At the time of this report's creation, Phase III of the Carbon Sampler Replacement Program has begun and is expected to be completed before October 2009. Any questions regarding the project or this report should be addressed to the following individuals; please do not hesitate to contact us.

Mark Tigges or David Dietrich

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APPENDIX A

Calibration Forms Ordered by AQS Number





Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Mod Temperature Transfer Stand Barometric Pressure Transfe GPS Latitude/Longitude:	odule S/N: <u>3N-B0449</u> S/N: <u>3N-B0495</u> : <u>Martin Valvur</u> sfer Standard Model: re Transfer Standard Model: : Pressure Transfer Standard Model:		Site O Date: 	chedule:	01-073-2003 5 1/6 Anne 1/16/09 Cal. Date: <u>8/17/07</u> Cal. Date: <u>8/17/07</u> Cal. Date: <u>8/17/07</u>
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1249 3377	<u>Offset</u> 113 21	<u>Sampler</u> -6.4 763.0	Reference -6.4 763.0	Difference Pass / Fail 0 / 0 / 0 /
Leak Check Results:	<u>Max</u> 527	<u>Min</u> 379	<u>Diff</u> 148	mmHg in	Pass / Fail 35 seconds X /
Flow Rate Calibration	Set <u>Poir</u> 19.8 22.0 24.0 New gain=	nt <u>Raw</u> 30 <u>3555</u> 00 <u>3950</u> 00 <u>4343</u>	Sampler <u>Flow</u> <u>17.65</u> <u>19.01</u> <u>24.27</u> , offset= <u>0.31</u> , c	<u>19</u> <u>19</u> 21	w 9.86 9.51 .51
Flow Rate Audit	Point I	-low			<u>ass / Fail</u> ⊠ / □



URG 3000N Carbon Sampler Installation/Calibration Form

Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician:	<u>Huntsville</u> <u>3N-B0442</u> <u>3N-B0524</u> <u>3N-B0483</u> <u>Martin Val</u>	lvur	Site C	Schedule: Dperator (s):	01-089-0014 5 1/6 Winfred Bone 1/15/09
Flow Transfer Standard Mod Temperature Transfer Stand		TetraCal		TC 363	Cal. Date: <u>9/25/07</u> Cal. Date:
Barometric Pressure Transfe		odel: TetraCal		TC 363	Cal. Date: <u>9/25/07</u>
GPS Latitude/Longitude:					
Temp. Calibration (As Left)	<u>Raw</u> 1467	<u>Offset</u> 42	<u>Sampler</u> 22.4	<u>Reference</u> 22.4	Difference Pass / Fail
Barometric Pressure Calibration (As Left)	3348	12	758.0	758.0	
	Max	Min	Diff		Pass / Fail
Leak Check Results:	586	476	111	mmHg in _	<u>35</u> seconds 🛛 / 🔄
Flow Rate Calibration	<u> </u> - :	Set <u>Point Rav</u> 19.80 <u>3644</u> 22.00 <u>3660</u> 24.00 <u>4023</u> ain= <u>5.631</u>	19.17	1 2 2	9.98 1.69 3.77
Flow Rate Audit	Set <u>Point</u> 22.00 Mals T	Sampler <u>Flow</u> 21.97		fference <u>F</u> .27	<u>Pass / Fail</u> ∑ / □
Auditor's Signature:					
Cardinal Photos:	Attendance:	\boxtimes			

Notes:

Air Resource Specialists, Inc.

1901 Sharp Point Drive, Suite E Fort Collins, CO 80525 Phone: 970-484-7941 www.air-resource.com

URG 3000N Carbon Sampler Installation/Calibration Form

Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician:	Chico 3N-B0439 3N-B0350 3N-B0423 Christian Kirk		 	Date:		06-007-0002 5 1/6 Bob Land 3/30/09		
Flow Transfer Standard Moo Temperature Transfer Stand			etraCal utechnics	_	S/N: <u>TC 38</u> S/N: <u>CAR</u>		Cal. Date: Cal. Date:	
	rometric Pressure Transfer Standard Model		TetraCal		S/N: <u>TC 38</u>		Cal. Date:	
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1427 3356		<u>Dffset</u> 57 15	<u>Sam</u> 17.5 759.1	17	<u>ference</u> 3 9.0	Difference 0.2 0.1	e Pass / Fail
Leak Check Results:	<u>Max</u> 652	_	<u>Min</u> 04	<u></u> 		mHg in <u>35</u>	seconds	<u>Pass / Fail</u>
Flow Rate Calibration	News	Set <u>Point</u> 19.80 22.00 24.00 gain=	<u>Raw</u> <u>3334</u> <u>3700</u> <u>4067</u> 5.867	<u>-</u>	Sampler <u>Flow</u> <u>19.89</u> <u>22.09</u> <u>24.30</u> <u>0.45</u> , correla	Reference 	19.88 22.12 24.18	
Flow Rate Audit	Set <u>Point</u> 22.00 brutr	Sample <u>Flow</u> 21.96 A	-	Reference Flow 21.80	<u>Differen</u> 0.16	<u>ce Pass /</u> [] /		

Auditor's Signature: ____

Cardinal Photos:

Attendance: 🔀

Notes:



Station:	Fresno (CA	RB)			AQS #	:	06-01	9-0008	
Controller S/N:	3N-B0361				POC:		5	5	
Sampler Module S/N:	3N-B0347			Run Schedule: <u>1/3</u> Site Operator (s): <u>Patri</u>			1/3		
Pump Box S/N:	3N-B0384						Patrick	Seames	
Technician:	Kelly Blom	me		Date:		3/30/0	9		
Flow Transfer Standard Mod	lel:	TetraCal			S/N:	TC 398		Cal. Date:	10/16/07
Temperature Transfer Stand	lard Model:	Eutech	nnics		S/N:	314018		Cal. Date:	
Barometric Pressure Transf	er Standard Mo	del: <u>TetraC</u>	al		S/N:	TC 398		Cal. Date:	10/16/07
GPS Latitude/Longitude:									
	Raw	Offse	<u>t</u>	Sam	oler	Reference	<u>.</u>	Difference	e Pass / Fail
Temp. Calibration (As Left)	1335	37		9.2		9.7		-0.5	\boxtimes / \square
Barometric Pressure Calibration (As Left)	3317	0		754.2		754.0			
	Max	Min		Diff					Pass / Fail
Leak Check Results:	538	398		141		mmHg in	35	seconds	\boxtimes / \square
Flow Rate Calibration									
	S	Set			Sampler	Refe	erence		
		<u>oint</u>	Raw		Flow		low		
			3382		19.81		.98	-	
			3748		22.03		.11	-	
	24	4.00	130		24.26	24	.14	-	
	New gai	n= <u>5.604</u>	, offs	et= <u>1</u>	.54	, correlati	on= <u>1.</u>	000	
Flow Rate Audit									
	Set	Sampler		rence					
	<u>Point</u>	Flow	Flo	<u>w</u>	Diff	ference	Pass / F	ail	
	22.00	22.05	21.9	1	0.1	0	×/		
	Helly K	Journe							
Auditor's Signature:									
Cardinal Photos: 🔀	Attendance:	3							



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Mod Temperature Transfer Stand			hnics	POC: <u>5</u> Run Schedule: <u>1/6</u> Site Operator (s): <u>Tony</u> Date: <u>3/2/0</u> S/N: <u>TC 216</u> S/N: <u>51-2040725</u>			1/6 <u>Tony Royer</u> 3/2/09 <u> </u>	ny Royer /09 Cal. Date: <u>12/6/07</u> Cal. Date: <u>1/13/09</u>		
Barometric Pressure Transf GPS Latitude/Longitude:	er Standard Model: <u>TetraCal</u> <u>N 32º 40' 36.7″ W 115º 28' 59.0″</u>			S/N: _1	FC 216	Cal. Dat	e: <u>12/6/07</u>			
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1489 3353	<u>Offs</u> 2	<u>et</u>	<u>Sample</u> 25.9 761.0	<u>er</u>	Reference 25.9 761.0	<u>Differer</u> 0 0	<u>nce</u> <u>Pass / Fail</u> 		
Leak Check Results:	<u>Max</u> 701	<u>Mir</u> 677	<u>1</u>	Diff 24		mmHg in <u>3</u>	35 seconds	<u>Pass / Fail</u>		
Flow Rate Calibration	<u>F</u> 1 2 2	Set <u>Point</u> 19.80 _ 22.00 _ 24.00 _ in= <u>5.512</u>	<u>Raw</u> <u>3267</u> <u>3616</u> <u>3976</u> , of	یے : :	ampler Flow 19.91 22.10 24.33 2.13	Referen 	v 1 8 9			
Flow Rate Audit	Set <u>Point</u> 22.00 Som Buckley	Sampler Flow 22.03		rence ow 05	<u>Diff</u>		<u>ass / Fail</u>			
Cardinal Photos: 🔀	Attendance:	\triangleleft								



Station:	Portola	(CARB)			AQS	#:	06-06	3-1009	
Controller S/N:	3N-B041				POC:		5		
Sampler Module S/N:	3N-B041	0			Run	Schedule:	1/6		
Pump Box S/N:	3N-B037	78			Site 0	Operator (s):	George	e Ozanich	
Technician:	Kelly Bl	omme			Date	e:	3/31/0	9	
Flow Transfer Standard Mod	del:	TetraCal			S/N:	TC 398		Cal. Date:	10/16/07
Temperature Transfer Stand	lard Model:	<u>_</u> E	Eutechnics		S/N:	314018		Cal. Date:	1/2/09
Barometric Pressure Transf	er Standard	Model: 1	TetraCal		S/N:	TC 398		Cal. Date:	10/16/07
GPS Latitude/Longitude:									
	Raw		<u>Offset</u>	Sa	mpler	Reference	<u>e</u> _	Differenc	e Pass / Fail
Temp. Calibration (As Left)	1354	3	80	12.	1	12.3			_ / 🗌
Barometric Pressure Calibration (As Left)	2770		13	64	4.0	640.0			/ _
	Max		Min		Diff_				Pass / Fail
Leak Check Results:	538		485	5	3	mmHg i	n <u>35</u>	seconds	
Flow Rate Calibration									
		Set			Sampler	Ref	erence		
		<u>Point</u>	Rav	<u>v</u>	Flow	<u> </u>	low		
		19.80	2885		19.86		7.04	-	
		22.00	3205		22.12		3.76	-	
		24.00	3523		24.32	20	0.51		
	New	gain= <u>4</u>	.719	, offset=	1.22	, correlat	ion= <u>1.</u>	000	
Flow Rate Audit									
	Set	Sampl		Reference					
	<u>Point</u>	Flow	_	Flow	<u>Di</u>	fference	Pass / F	ail	
	22.00	21.98		21.99	0).01	/		
	Kelly	Nom	me						
Auditor's Signature:									
Cardinal Photos: 🔀	Attendance	: 🖂							



Station:	Sacrame	nto (Del P	aso Manor)	AQS	#:	06-0	67-0006		
Controller S/N:	3N-B034				POC: <u>5</u> Run Schedule: <u>1/3</u> Site Operator (s): <u>Rudy</u>			5		
Sampler Module S/N:	3N-B034									
Pump Box S/N:	3N-B034	5						Paez		
Technician:	Kelly Blo	mme			Date:		4/2/0	9		
Flow Transfer Standard Mod	del:	el: <u>TetraCal</u>		_	S/N:	TC 374		Cal. Date:	9/27/07	
Temperature Transfer Stand	ard Model:	<u> </u>	utechnics		S/N:	314018		Cal. Date:	1//09	
Barometric Pressure Transf	er Standard M	/lodel: <u>Te</u>	etraCal	_	S/N:	TC 374		Cal. Date:	9/27/07	
GPS Latitude/Longitude:										
	Raw	<u>c</u>	<u>Dffset</u>	Sam	ipler	<u>Reference</u>	<u>.</u>	Differenc	e Pass / Fail	
Temp. Calibration (As Left)	1463	24	ļ	24.5		23.76			_ / _	
Barometric Pressure Calibration (As Left)	_3347	2	5	754.	0	755.0			/ _	
	Max		<u>Min</u>	Di	ff_				Pass / Fail	
Leak Check Results:	590	4	184	100	6	mmHg in	35	_seconds	\boxtimes / \square	
Flow Rate Calibration										
		Set			Sampler	Refe	erence			
		<u>Point</u>	Raw	_	Flow	F	low			
		19.80	3327		20.15	19	.86	_		
		22.00	3649		22.32	22	.15			
		24.00	3984		24.06	29	.12	_		
	New g	ain= <u>13</u>	.960	, offset=	-27.0	, correla	ation=	0.938		
Flow Rate Audit										
	Set	Sample		Reference						
	<u>Point</u>	Flow		Flow	<u>Dif</u>	ference	Pass /	<u>Fail</u>		
	22.00	21.89		21.86	0	.03	\boxtimes			
	Kelly.	Nom	ne							
Auditor's Signature:										
Cardinal Photos: 🔀	Attendance:	\boxtimes								



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician:	Sacramen 3N-B0490 3N-B0422 3N-B0354 Kelly Blon				AQS #: POC: Run Schedule: Site Operator (s): _! Date:		5 1/6 Mega		
Flow Transfer Standard Model: Temperature Transfer Standard Model Barometric Pressure Transfer Standar GPS Latitude/Longitude:		<u>TetraCal</u> <u>Eutechnics</u> Model: <u>TetraCal</u>		S/N: <u>TC 398</u> S/N: <u>314018</u> S/N: <u>TC 398</u>				Cal. Date: <u>10/16/07</u> Cal. Date: <u>1/09</u> Cal. Date: <u>10/16/07</u>	
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1395 3337	<u>Off</u> 0 4	<u>set</u>	<u>Sample</u> 21.3 757.0	<u>r</u> 	Reference _20.8 _757.0	<u>.</u>	Differenc 0 0	e <u>Pass / Fail</u> _
Leak Check Results:	<u>Max</u> 619	<u>_M</u>	<u>in</u>	Diff 67		mmHg in	35	_seconds	<u>Pass / Fail</u>
Flow Rate Calibration	<u> </u> 	Set <u>Point</u> 19.80 22.00 24.00 1in= <u>5.74</u>	<u>Raw</u> <u>3345</u> <u>3703</u> 4075 4075	_ <u>F</u> _20.		F 1! 21	erence <u>low</u> <u>9.4</u> .62 tion= _	- 1.000	
Flow Rate Audit	Set <u>Point</u> 22.00 <i>Helly</i> 1	Sampler <u>Flow</u> 21.94		erence ow 00	<u>Diffe</u> 0.6	rence	<u>Pass /</u>	<u>Fail</u>	
Cardinal Photos:	Attendance:	\leq							



	troller S/N: <u>3N-B0397</u> pler Module S/N: <u>3N-B0482</u> p Box S/N: <u>3N-B0408</u> hnician: <u>Kelly Blomme</u> w Transfer Standard Model:		raCal	_ I _ I _ S	AQS #: POC: Run Sched Site Opera Date: S/N: <u>TC 3</u> S/N: <u>3140</u> S/N: <u>TC 3</u>	 lule: tor (s):Ge 	5-085-0005 3 orge Stuckert 1/09 Cal. Date: <u>10/16/07</u> Cal. Date: <u>1/2009</u> Cal. Date: <u>10/16/07</u>		
GPS Latitude/Longitude:	<u>N 37º 20.8</u>	88' W 1219	9 53.706'	_					
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1416 3346	<u>01</u> 1	<u>ifset</u>	Sampler 17.6 762.3		<u>ference</u> 16.47 60.0	Difference	e <u>Pass / Fail</u>	
Leak Check Results:	<u>Max</u> 651	<u>60</u>	<u>/lin</u>	<u>Diff</u> 46	n	nmHg in <u>35</u>	seconds	Pass / Fail	
Flow Rate Calibration	New g	Set <u>Point</u> 19.80 22.00 24.00 pain= <u>5.7(</u>	<u>Raw</u> <u>3345</u> <u>3731</u> <u>4101</u> 07, off		9 <u>6</u> 21	Referenc <u>Flow</u> <u>20.39</u> <u>22.30</u> <u>24.56</u> correlation=			
Flow Rate Audit	Set <u>Point</u> 22.00 <i>Helly</i> .	Sampler <u>Flow</u> 22.03	<u></u>	erence low 90	Differen 0.09	<u>ce Pas</u>	<u>s / Fail</u> /		
Cardinal Photos:	Attendance:								



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URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Simi Valley		AQS #	:06-	111-2002	
Controller S/N:	3N-B0418		POC:	5		
Sampler Module S/N:	3N-B0431		Run So	chedule: <u>1/3</u>		
Pump Box S/N:	3N-B0351		Site O	perator (s): <u>Ano</u>	ly Brown	
Technician:	Dave Beichley	/	Date:	3/3/	09	
Flow Transfer Standard Model:		TetraCal	S/N:	FC 417	Cal. Date: <u>12/6/07</u>	
Temperature Transfer Stand	erature Transfer Standard Model:		S/N:	51-2040725	Cal. Date: 1/13/09	
Barometric Pressure Transf	er Standard Mode	I: TetraCal	S/N:	TC 417	Cal. Date: <u>12/6/07</u>	
GPS Latitude/Longitude:	N 34º 16' 35.0″	W 118º 41' 0.17″				
	Raw	<u>Offset</u>	<u>Sampler</u>	<u>Reference</u>	Difference Pass /	<u>Fail</u>
Temp. Calibration (As Left)	1438	49	18.8	18.8	_0/	
Barometric Pressure Calibration (As Left)	3232	19	733.0	733.0	_0/	
	Max	Min	Diff		Pass / Fail	
Leak Check Results:	516	394	123	mmHg in <u>35</u>	seconds	
Flow Rate Calibration						
	Set		Sampler	Reference		
	<u>Poir</u>	t <u>Raw</u>	Flow	Flow	-	
	19.8	0 <u>3222</u>	19.87	19.53		
	22.0	0 <u>3582</u>	22.05	21.50		
	24.0	0 <u>3936</u>	24.25	23.55		
	New gain=	<u>5.464</u> , off	set= <u>1.39</u>	, correlation= _	1.000	
Flow Rate Audit						
	Set Sa	mpler Refer	ence			
	Point F	lowFlo	w <u>Diff</u>	erence Pass	<u>/ Fail</u>	
	22.00 21	.96 23.3	<u>0 -0.</u>	37		
Auditor's Signature:	m Buchly-					
Cardinal Photos:	Attendance: 🔀					



Temperature Transfer Standard Model: Barometric Pressure Transfer Standard Model:		<u>TetraCal</u> Eutechnics	AQS #: POC: Run Schedule Site Operator Date: S/N: <u>TC 397</u> S/N: <u>305454</u> S/N: <u>TC 397</u>	
GPS Latitude/Longitude:	<u>N 39º 3' 49.78″</u>	W 108º 33' 40.30″		_
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1266 2799	<u>Offset</u> 2 _13	<u>Sampler</u> <u>Refere</u> <u>6.5 6.0</u> <u>646.0 646</u>	0 / []
Leak Check Results:	<u>Max</u> 380	<u>Min</u> 290	<u>Diff</u> 90 mmł	<u>Pass / Fail</u> Hg in <u>35</u> seconds
Flow Rate Calibration	Set <u>Poin</u> 19.8(22.0(24.0(New gain=	2940 0 <u>3258</u> 0 <u>3582</u>	<u>Flow</u> 19.80 21.98 24.14	Reference <u>Flow</u> <u>18.66</u> <u>20.56</u> <u>22.56</u> tion= <u>1.000</u>
Flow Rate Audit	Point F 22.00 2'	-	rence <u>ow Difference</u> 89 0.07	<u>Pass / Fail</u>
Cardinal Photos:	Attendance: 🔀			



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Moo Temperature Transfer Stand Barometric Pressure Transfe GPS Latitude/Longitude:	lard Model:	TetraCal Eutechnics TetraCal	AQS #: POC: Run Schedule: Site Operator (s): Date: S/N: <u>TC 415</u> S/N: <u>101611</u> S/N: <u>TC 415</u>		08-077-0017 5 1/6 3/4/09 Cal. Date: 3/4/09 Cal. Date: 1/13/10 Cal. Date: 3/4/09		
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1476 _ 2737	<u>Offset</u> 39 25	Sampler 23.6 631.0	Reference 23.6 631.0	Difference Pass / Fail 0 ☑ / 0 ☑ /		
Leak Check Results:	<u>Max</u> 575	<u>Min</u> 561	<u>Diff</u> 14	mmHg in _	Pass / Fail <u>35</u> seconds X /		
Flow Rate Calibration	Set <u>Point</u> 19.80 22.00 24.00 New gain=		Sampler <u>Flow</u> <u>19.84</u> 22.09 24.32 offset= <u>.004</u> , c	<u>22</u> 24			
Flow Rate Audit	Point Flo	npler Refer ow <u>Flc</u> .90 22.0			' <u>ass / Fail</u> ⊠ / □		
Cardinal Photos:	Attendance: 🔀						



URG 3000N Carbon Sampler Installation/Calibration Form

	atroller S/N: 3N-B0472 npler Module S/N: 3N-B0476 np Box S/N: 3N-B0519 hnician: Christian Kirk w Transfer Standard Model: TetraCal nperature Transfer Standard Model: TetraCal ometric Pressure Transfer Standard Model: TetraCal		Site O Date: S/N:	chedule: perator (s):J	10-001-0003 5 1/6 Joe Martini 1/13/09 Cal. Date: 8/19/08 Cal. Date: 8/28/07 Cal. Date: 8/28/07 Cal. Date: 8/28/07		
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1477 3371	<u>Offset</u> 	<u>Sampler</u> 23.8 763.1	Reference 23.7 763.0	<u>Difference</u> <u>Pass</u> / 0.1	/ Fail	
Leak Check Results:	<u>Max</u> 654	<u>Min</u> 602	<u>Diff</u> 52	mmHg in <u>3</u>	Pass / Fai 5seconds 〇 /		
Flow Rate Calibration	Se <u>Poi</u> 19. 22. 24. New gain:	nt <u>Raw</u> 80 <u>3280</u> 00 <u>3647</u> 00 <u>4010</u>	Sampler <u>Flow</u> <u>19.92</u> <u>22.10</u> <u>24.32</u> , offset= <u>0.39</u> , c	Referen 	v 31 43 55		
Flow Rate Audit	Point	Flow F 21.97 22		_	<u>ıss / Fail</u> ☑ /		

Cardinal Photos: Attendance: Notes: Training in Newcastle, DE. Operators will move to site/bolt down. Black clips broken. My TriCal didn't function (flow only). Date needs to be reset correct date. Set 1 day early to avoid sampling day.



Phone: 970-484-7941 www.air-resource.com

Station:	Davie (Univ of FL Ag School) 3N-B0580			<u>l)</u>	POC: 5			<u>12-011-1002</u> 5 1/3		
Controller S/N:										
Sampler Module S/N:	<u>3N-B0380</u> 3N-B0366									
Pump Box S/N:					Site	• Operator	(s): <u>Ila P</u>	erkins		
Technician: Kelly Blo		lomme	mme				2/23/			
Flow Transfer Standard Model:			TetraCal		S/N	: <u>TC 366</u>		Cal. Date: 2	2/26/07	
Temperature Transfer Standard Model: Barometric Pressure Transfer Standard Model:		Eutechnics		S/N: <u>42580041</u>			Cal. Date: 6/27/08			
		Model:	TetraCal		S/N: <u>TC 366</u>			Cal. Date: <u>2/26/07</u>		
GPS Latitude/Longitude:										
	Raw		Offset		Sampler_	Refer	ence_	Difference	<u>Pass / Fail</u>	
Temp. Calibration (As Left)	1503	35		_2	29.9 2			-3.1	🖂 / 🗌	
Barometric Pressure	metric Pressure <u>3355</u>		5	7	761.5			0.5 /	\boxtimes / \square	
Calibration (As Left)				<u> </u>		761.0				
	Max		Min		Diff			P	lass / Eail	
					Diff			Pass / Fail		
Leak Check Results:	666		626		41	mml	Hg in <u>35</u>	_seconds		
Flow Rate Calibration										
		Set			Sample	er	Reference			
		Point	Ray	w	Flow	<u>, </u>	Flow			
		19.80	3236		19.80		19.77	_		
		22.00	3617		21.80		21.96			
		24.00	3943		24.20		23.90	_		
	Now	aain	5.622	offect	4.24		lation 0	000		
	New	yam=	5.022	_, onset=	1.24	, corre	ation= <u>0.</u>			
Flow Rate Audit										
	Set	Sam	pler	Referen	ice					
	Point Point	Flo	w_	Flow	<u> </u>	Difference	Pass /	<u>Fail</u>		
	22.00	22.0		21.84		0.16	\square			
	Kelly	No	mont							
Auditor's Signature:					_					
Cardinal Photos:	Attendance	e: 🖂								

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URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Tampa (Sy	dney)	AQS	#:	12-057-3002	
Controller S/N:	3N-B0502		POC	:	5	
Sampler Module S/N:	3N-B0356		Run	Schedule:	1/3	
Pump Box S/N:	3N-B0372		Site	Operator (s):	Clemente Lopez	
Technician:	Kelly Blom	me	Date	:	2/24/09	
Flow Transfer Standard Mod	del:	TetraCal	S/N:	TC 425	Cal. Date	. 12/07
Temperature Transfer Stand	lard Model:	Eutechnics	S/N:	304018	Cal. Date	1/13/09
Barometric Pressure Transf	er Standard Mo	del: TetraCal	S/N:	TC 425	Cal. Date	12/07
GPS Latitude/Longitude:	27.96 / -82.2	2				
	Raw	<u>Offset</u>	<u>Sampler</u>	<u>Reference</u>	Difference	<u>e Pass / Fail</u>
Temp. Calibration (As Left)	1420	47	17.1	17.2	-0.1	
Barometric Pressure Calibration (As Left)	3378	7	766.0	767.0		/ []
	Max	Min	Diff			Pass / Fail
Leak Check Results:	710	695	14	mmHg in	<u>35</u> seconds	× –

Flow Rate Calibration

	Set	s	Sampler	Reference
	<u>Point</u>	Raw	Flow	Flow
	19.80	<u>3378 1</u>	9.90	20.64
	22.00	3744 2	2.09	22.87
	24.00	4122 2	4.34	25.10
	New gain= <u>6.068</u>	, offset= <u>0</u>). <u>53 </u>	relation= <u>1.000</u>
Flow Rate Audit				
S	et Sampler	Reference		
Po	<u>oint</u> Flow	Flow	Difference	<u>Pass / Fail</u>
22	2.00 22.01	22.15	-0.14	
A	Elly Nomme	-		
Auditor's Signature:				

Cardinal Photos:

Attendance:

Notes:



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Mod Temperature Transfer Standard Barometric Pressure Transfer GPS Latitude/Longitude:	ard Model:	lvur TetraCa TetraCa	1	POC:5 Run Schedule:1/6			e Wightman		
Temp. Calibration (As Left) _ Barometric Pressure Calibration (As Left)	<u>Raw</u> 1280 3276	<u>Offset</u> 40 9	<u>Samp</u> <u>3.9</u> 744.0	ler <u>Refer</u> 3.9 744.0	<u>ence</u>	Differenc 0 0	e <u>Pass / Fail</u> ⊠ / □ ⊠ / □		
Leak Check Results:	<u>Max</u> 525	<u>Min</u> 373		_	Hg in <u>35</u>	_seconds	Pass / Fail		
Flow Rate Calibration		19.80 <u>34</u> 22.00 <u>34</u> 24.00 <u>4</u> ;	Raw2 4722 8442 2232	ampler <u>Flow</u> 0.12 2.31 4.51 <u>1.80</u> , correlatio	Reference <u>Flow</u> 19.13 20.99 23.41 on= <u>1.000</u>				
Flow Rate Audit	Set <u>Point</u> 22.00 Mals T	Sampler <u>Flow</u> 21.99	Reference Flow 21.75	Difference 0.25	Pass /	Fail			



Station:	Nicholls	(General C	Coffee State Park)		AQS #	<i>t</i> :	13-	-069-0002	
Controller S/N:	3N-B04				POC:		5		
Sampler Module S/N:	3N-B04					chedule			
Pump Box S/N:	3N-B04				Site O	perator	(s): Ro	bert Buice	
Technician:	Kelly B				Date:			4/09	
Flow Transfer Standard Mod	del:	<u> </u>	etraCal		S/N:	TC 384		Cal. Date	: 10/07
Temperature Transfer Stand	ard Model:	E	utechnics		S/N:	304018		Cal. Date	: 1/09
Barometric Pressure Transf	er Standard	Model: <u>T</u>	etraCal		S/N:	TC 384		Cal. Date	: 10/07
GPS Latitude/Longitude:	<u>N 31º 30.</u>	787' W 08	2º 45.014' ELEV	195					
	Raw		<u>Offset</u>	<u>Sampl</u>	ler	<u>Refer</u>	<u>ence</u>	Difference	
Temp. Calibration (As Left)	1452	5	4	22.4		19.7		1.4	
Barometric Pressure Calibration (As Left)	3386		5	768.7		<u> 767.</u>	0	1.7	/
	Max		Min	Diff					Pass / Fail
Leak Check Results:	681	6	.44	37		mm	Hg in <u>35</u>	seconds	\boxtimes / \square
Flow Rate Calibration									
		Set		S	ampler		Reference	•	
		Point 199	Raw	-	Flow		Flow	_	
		19.80	3388	19	9.97		20.93		
		22.00	3761	22	2.22		22.99		
		24.00	4134	24	4.43	_		_	
	New	gain= <u>5</u>	<u>.698</u> , offs	et= <u>1</u>	.96	, cor	relation=	1.000	
Flow Rate Audit									
	Set	Sampl	er Refer	ence					
	<u>Point</u>	Flow	Flo	w	Dif	ference	Pass	<u>/ Fail</u>	
	22.00	21.96	21.83		0.1	12		/	
A	Elly No	7 Danne							
Auditor's Signature:	-80			-					
Cardinal Photos:	Attendance	. 🖂							



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician:	ler S/N: <u>3N-B0436</u> r Module S/N: <u>3N-B0521</u> box S/N: <u>3N-B0462</u> cian: <u>Martin Valvur</u> ansfer Standard Model:		Site C Date:	Schedule: Operator (s):	<u>13-089-0002</u> <u>5</u> <u>1/6</u> <u>Lawrence Wallac</u> <u>1/12/09</u>	e
Temperature Transfer Stand		TetraCal Test 0600		06369742		: 11/13/07
Barometric Pressure Transfe GPS Latitude/Longitude:	er Standard Mo	del: <u>TetraCal</u>	S/N:	TC 290	Cal. Date	:: <u>8/15/08</u>
	Raw	Offset	<u>Sampler</u>	Reference	Differen	<u>ce Pass / Fail</u>
Temp. Calibration (As Left)	1316	85	3.0	3.9	0	
Barometric Pressure Calibration (As Left)	3287	_5	<u>747.0</u>	747.0	0	
	Max	Min	Diff			Pass / Fail
Leak Check Results:	587	495	93	mmHg in	<u>35</u> seconds	\boxtimes / \square
Flow Rate Calibration	<u>P</u> 4 19 22	Set oint <u>Raw</u> 9.80 <u>3501</u> 2.00 <u>3890</u> 4.00 <u>4257</u> n= <u>5.566</u>	Sampler 		rence low 19.20 21.30 23.35 1.000	
Flow Rate Audit		Sampler <u>Flow</u> 21.94		fference).21	Pass / Fail	
Auditor's Signature:						
Cardinal Photos:	Attendance:	\triangleleft				



Station:	Augusta	a (Bungalow	(Road)		AQS #:			13-245-0091		
Controller S/N:	3N-B037				POC:		5			
Sampler Module S/N:	3N-B039	98			Run S	Schedule:	1/6			
Pump Box S/N:	3N-B043	35		_	Site C)perator (s):	Jeff	rey Williams		
Technician:	Kelly Bl	omme		_	Date:		2/26	/09		
Flow Transfer Standard Mod	del:	Te	traCal		S/N:	TC 272		Cal. Date:	8/14/08	
Temperature Transfer Stand	dard Model:	Eu	technics		S/N:	304018		Cal. Date:	1/09	
Barometric Pressure Transf	er Standard	Model: <u>Te</u>	traCal		S/N:	TC 272		Cal. Date:	8/14/08	
GPS Latitude/Longitude:	<u>N 33º 26.</u>	017' W 82º ·	1.344′							
	Raw	<u>0</u>	ffset	San	npler	Referenc	<u>e</u>	Differenc	<u>e Pass / Fail</u>	
Temp. Calibration (As Left)	1431	47		19.0		18.3		-0.7	/	
Barometric Pressure Calibration (As Left)	3375	0		766.0)	766.0		0	/	
	Max		<u>Min</u>	Di	<u>ff</u>				Pass / Fail	
Leak Check Results:	674	632	2	42		mmHg i	n <u>35</u>	seconds		
Flow Rate Calibration										
		Set			Sampler	Ref	erence			
		<u>Point</u>	Raw		Flow		Flow			
		19.80	3378		19.92	2	0.27	_		
		22.00	3744		22.10	2	2.22	_		
		24.00	4117		24.34	2	4.28			
	New	gain= <u>5.4</u>	32,	offset=	2.25	, correla	tion= _	1.000		
Flow Rate Audit										
	Set	Sampler	Re	eference						
	<u>Point</u>	Flow	_	Flow	Dif	ference	Pass /	<u>Fail</u>		
	22.00	22.04	2	2.14	-0	.08	/			
	Kelly	Nom	e.							
Auditor's Signature:										
Cardinal Photos: 🔀	Attendance	: 🖂								



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URG 3000N Carbon Sampler Installation/Calibration Form

Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Moo Temperature Transfer Stand Barometric Pressure Transf GPS Latitude/Longitude:	ard Model:	_TetraCal _TetraCal _TetraCal	Site (Date: S/N: S/N:	Schedule:1 Dperator (s):a	13-115-0005 5 1/6 awrence Wallace 1/14/09 Cal. Date: <u>9/27/07</u> Cal. Date: <u>9/27/07</u> Cal. Date: <u>9/27/07</u>
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1272 3302	<u>Offset</u> 54 -4	<u>Sampler</u> <u>1.7</u> 752.0	<u>Reference</u> 1.7 752.0	Difference Pass / Fail 0 / 0 / 0 /
Leak Check Results:	<u>Max</u> 638	<u>Min</u> 580	<u>Diff</u> 59	mmHg in <u>35</u>	<u>Pass / Fail</u> 5seconds /
Flow Rate Calibration	Set <u>Point</u> 19.80 22.00 24.00 New gain=	3542 3923 4319	Sampler <u>Flow</u> 20.02 22.30 24.50 offset= <u>2.54</u> , o	Referen Flow 19.7 21.6 23.5 correlation= <u>1.</u>	72 60 51
Flow Rate Audit Auditor's Signature:	Set Sam <u>Point Flo</u> 22.00 <u>22.</u> Mals Wal	<u>.</u> <u>.</u>			s <u>s / Fail</u>



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician:	Cedar Rapids (Army Res 3N-B0364 3N-B0392 3N-B0417 Kelly Blomme			AQS #: POC: Run Schedule: Site Operator (s): Date:		3-0037 Burns	
Flow Transfer Standard Moo Temperature Transfer Stand Barometric Pressure Transf GPS Latitude/Longitude:	lard Model: er Standard Mo	<u>TetraCal</u> <u>Eutechnics</u> odel: <u>TetraCal</u> 2298 Long -91/40/	: :	S/N: <u>TC 389</u> S/N: <u>304018</u> S/N: <u>TC 389</u> 		Cal. Date: <u>2/09</u> Cal. Date: <u>1/09</u> Cal. Date: <u>2/09</u>	
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1445 3234	<u>Offset</u> <u>13</u> <u>16</u>	<u>Sampler</u> 22.2 735.1	<u>Refere</u> 22.7 734.0		Difference 0.5 1.1	Pass / Fail
Leak Check Results:	<u>Max</u> 669	<u>Min</u> 653	<u>Diff</u>	mmł	lg in <u>35</u>	_seconds	Pass / Fail
Flow Rate Calibration	<u>F</u> 1 2	Set <u>Point Raw</u> 9.80 <u>3146</u> 2.00 <u>3499</u> 4.00 <u>3844</u> in= <u>5.964</u>		<u>ow</u> 75 96 17	Reference <u>Flow</u> 19.06 21.40 23.45 ation= <u>0.99</u>	- - 99	
Flow Rate Audit	Set <u>Point</u> 22.00 _ Helly Y		Reference Flow 21.92	Difference 0.04	<u>Pass / F</u> ⊠ / [<u>ail</u>	
Auditor's Signature: Cardinal Photos:	Attendance:	\triangleleft					



Station:	Des Moir	nes (Public	Health Building	a)	AQS	#:	19-15	3-0030		
Controller S/N:	3N-B0430				POC:		5			
Sampler Module S/N:	3N-B0404	4			Run S	Schedule:	1/6			
Pump Box S/N:	3N-B0390)			Site C	Operator (s): <u>Chad</u>	Hines		
Technician:	Kelly Blo	mme			Date:		3/9/09)		
Flow Transfer Standard Mod	lel:	Tet	traCal		S/N:	TC 400		Cal. Date:	10/17/07	
Temperature Transfer Stand	lard Model:	Eu	technics		S/N:	304018		Cal. Date:	1/09	
Barometric Pressure Transf	er Standard M	/lodel: <u>Tet</u>	traCal		S/N:	TC 400		Cal. Date:	10/17/07	
GPS Latitude/Longitude:										
	Raw	<u>0</u>	ffset	Sample	er_	Refere	nce	Difference	Pass / Fail	
Temp. Calibration (As Left)	1484	40		28.1		24.3			\boxtimes / \square	
Barometric Pressure Calibration (As Left)	3240	6		738.3		<u>737.0</u>			⊠ <i>ı</i> □	
	Max	<u>_</u>	<u>Min</u>	Diff					Pass / Fail	
Leak Check Results:	669	64	47	22		mmH	g in <u>35</u>	_seconds	\boxtimes / \square	
Flow Rate Calibration										
		Set		Sa	ampler	F	Reference			
		<u>Point</u>	Raw		Flow		Flow			
		19.80	3178	19	9.85		18.92	-		
		22.00	3525	2	2.08		20.92	-		
		24.00	3884	24	4.25		22.96	-		
	New g	ain= <u>5.4</u>	<u>69 </u>	et= <u>0.7</u>	78	_, correlat	tion= <u>1.00</u>	0		
Flow Rate Audit										
	Set	Sampler	Refer	ence						
	Point	Flow	<u>Flo</u>	w	Dif	fference	Pass / F	ail		
	22.00	22.02	21.67	,	0.	35	/			
	Helly.	Nom	L.							
Auditor's Signature:	-									
Cardinal Photos:	Attendance:	\boxtimes								



Station:	Davenp	ort (Jeffe	rson School)		AQS #:			19-163-0015		
Controller S/N:	3N-B03			·	POC:		5	5		
Sampler Module S/N:	3N-B03	95			Run S	Schedule:	1/3			
Pump Box S/N:	3N-B03	99			Site C	Operator (s)	: Amano	da Dylla		
Technician:	Kelly B	omme			Date:		3/5/09			
Flow Transfer Standard Mod	del:	_	TetraCal		S/N:	TC 500		Cal. Date:	9/15/08	
Temperature Transfer Stand	dard Model:	_	TetraCal	_	S/N:	TC 500	_	Cal. Date:	9/15/08	
Barometric Pressure Transf	er Standard	Model:	TetraCal	_	S/N:	TC 500		Cal. Date:	9/15/08	
GPS Latitude/Longitude:	<u>N 41º 31.</u>	8' W 90º	35.262'							
	Raw		<u>Offset</u>	<u>Sam</u>	<u>pler</u>	Reference	<u>ce</u>	Difference	Pass / Fail	
Temp. Calibration (As Left)	1498		45	25.7		25.2		.5	_ / _	
Barometric Pressure Calibration (As Left)	3211		7	732.6		<u>731.0</u>	_	1.6	_ / _	
	Max		Min	Dif	<u>f</u>				Pass / Fail	
Leak Check Results:	552		448	104		mmHg	in <u>35</u>	seconds	\boxtimes / \Box	
Flow Rate Calibration										
		Set			Sampler	Re	ference			
		<u>Point</u>	Raw	-	Flow	_	Flow			
		19.80	3164		19.96	1	9.57	-		
		22.00	3499		22.22	2	21.66	-		
		24.00	3854		24.44		23.61	-		
	New	gain= _	<u>5.405</u> ,	offset= <u></u>	1.53	_, correlatio	on= <u>1.00</u>	0		
Flow Rate Audit										
	Set	Samp	oler F	Reference						
	<u>Point</u>	Flov	<u>v </u>	Flow	Di	fference	<u>Pass / F</u>	ail		
	22.00	21.98		22.84		.88	<u> </u>			
	Kelly	Non	me							
Auditor's Signature:										
Cardinal Photos: 🔀	Attendance	e: 🔀								



Controller S/N: 3N-H Sampler Module S/N: 3N-H Pump Box S/N: 3N-H Technician: Dav Flow Transfer Standard Model: Temperature Transfer Standard Model Barometric Pressure Transfer Standard Model		5 7 ichley Model:	etraCal nomas Scientific	Site Date S/N:	: Schedule: Operator (s):	Cal. Date	e: <u>9/26/07</u> e: <u>12/29/07</u> e: <u>9/26/07</u>
GPS Latitude/Longitude: Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	Raw			<u>Sampler</u> 16.3 754.2	Reference 16.2 750.0	<u>Differen</u> 0.1 4.2	<u>ce Pass / Fail</u>
Calibration (As Left) Leak Check Results: Flow Rate Calibration	<u>Max</u> 571	_	<u>Min</u> <u>-58</u> <u>-8aw</u> <u>-3301</u> <u>-3655</u> <u>-4017</u> <u>505</u> , off	<u>Diff</u> 113 Sample <u>Flow</u> 19.87 22.06 24.24 set= <u>0.76</u>	Flo 	ence w 2 96 93	<u>Pass / Fail</u>
Flow Rate Audit	Set <u>Point</u> 22.00			<u>w D</u>		' <u>ass / Fail</u> 	



Station: Lexington Controller S/N: 3N-B0478 Sampler Module S/N: 3N-B0440 Pump Box S/N: 3N-B0375 Fechnician: Dave Beichley Flow Transfer Standard Model: Femperature Transfer Standard Model: Barometric Pressure Transfer Standard Model		hley Tetr	/		S #: C: Operator (s) e: <u>TC 373</u> : <u>305598</u>	<u>5</u> <u>1/6</u> : Paul I			
				S/N:	TC 373		Cal. Date:	9/27/07	
GPS Latitude/Longitude:	<u>N 38º.06500</u>) W 84.500	00						
	Raw		<u>set</u>	<u>Sampler</u>	<u>Referenc</u>	<u>ce</u>	<u>Differenc</u>	e Pass / Fail	
Temp. Calibration (As Left) Barometric Pressure	3258	<u>23</u> 10		<u>26.5</u> 742.2	<u>24.13</u> 740.0		<u>2.37</u> 2.20		
Calibration (As Left)	<u>Max</u> 495	<u>_M</u> _349	<u>in</u>	 	mmHg	in <u>35</u>	_seconds	Pass / Fail	
Flow Rate Calibration	<u> </u> - :	Set <u>Point</u> 19.80 22.00 24.00 iin= <u>5.</u>	<u>Raw</u> <u>3186</u> <u>3534</u> <u>3884</u> 518 ,	Sample <u>Flow</u> <u>19.86</u> <u>22.10</u> <u>24.30</u> offset= <u>1.3</u>		ference Flow 19.64 21.72 23.71 n= <u>1.00</u>	00		
Flow Rate Audit	Set <u>Point</u> 22.00 Some Benchly	Sampler <u>Flow</u> 21.97			Difference -0.16	<u>Pass / F</u> 	<u>ail</u>		
Cardinal Photos:	Attendance:	\boxtimes							



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Mod Temperature Transfer Stand Barometric Pressure Transf GPS Latitude/Longitude:	lard Model:	3 5 Kirk <u>Tetra</u> <u>Trica</u>	<u> </u>	-	Site C Date: S/N: _ S/N: _	Schedule: Operator (s):	5 1/6	3-0030 ette Eikenbe 9 Cal. Date: Cal. Date: Cal. Date:	<u>9/25/07</u> 3/28/07
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1305 3369	<u>Offs</u> 58 3	<u>et</u>	<u>Sample</u> 2.0 764.2	<u>er</u> 	<u>Referenc</u> 2.3 764.0	<u>e</u>	Difference -0.3 0.2	e <u>Pass / Fail</u> _ 🛛 / 🗌 _ 💟 / 🗍
Leak Check Results:	<u>Max</u> 538	<u>Mir</u> 386	<u>1</u>	<u>Diff</u> 153		mmHg i	n <u>35</u>	seconds	<u>Pass / Fail</u>
Flow Rate Calibration	New g		<u>Raw</u> 3561 3963 4358 84 ,		ampler Flow).84).24 I.24 -2.02,		erence Flow		
Flow Rate Audit	Set <u>Point</u> 22.00 <i>brut</i>	Sampler <u>Flow</u> 21.97 A / <i>Ciit</i>	<u> </u>	erence low 99		iference).02	<u>Pass / F</u>	<u>ail</u>	
Cardinal Photos: 🔀	Attendance:	\boxtimes							



Station:	Grand Ra	oids		AC	QS #:	26-08	1-0020	
Controller S/N:	3N-B039			POC: <u>5</u> Run Schedule: <u>1/6</u>		5		
Sampler Module S/N:	3N-B036	5						
Pump Box S/N:	3N-B036	3		Site Operator (s): <u>Bill En</u>			dres	
Technician:	Christiar	Kirk		Da	ate:	3/6/09	I	
Flow Transfer Standard Mod	lel:	Tetra	Cal	S/	N: <u>TC 418</u>		Cal. Date:	12/6/07
Temperature Transfer Stand	lard Model:	Eute	chnics	S/	N: 99F10161	1	Cal. Date:	1/13/09
Barometric Pressure Transf	er Standard I	Nodel: Tetra	Cal	S/	N: TC 418		Cal. Date:	
GPS Latitude/Longitude:								
	Raw	Offs	set	Sampler	Referen	ice_	Difference	Pass / Fail
Temp. Calibration (As Left)	1418	30		19.1	19.3		-0.2	\boxtimes / \square
Barometric Pressure Calibration (As Left)	3279	2	_	<u>746.0</u>	746.0		0.0	
	Max	Mi	<u>n_</u>	Diff			E	Pass / Fail
Leak Check Results:	543	413		129	mmHg	ı in <u>35</u>	seconds	× /
Flow Rate Calibration								
		Set		Samp	oler R	eference		
		<u>Point</u>	Raw	Flov	w	Flow		
		19.80	3233	19.70		19.89		
		22.00	3592	21.92		21.98		
		24.00	3951	24.12		24.04		
	New g	jain= <u>5.6</u>		offset=1	1.26 , correl	ation= <u>1</u>	.000	
Flow Rate Audit								
	Set	Sampler	Refe	erence				
	Point	Flow	F	low	Difference	<u>Pass / F</u>	ail	
	22.00	21.95	22.	.01	-0.05	/		
Auditor's Signature:	brute	A / Cirl						
.								
Cardinal Photos: 🔀	Attendance:	\bowtie						



Station:	Tecumsel	ı			AQS #	#:	26-09	1-0007	
Controller S/N:	<u>3N-B037</u>	0		POC: <u>5</u> Run Schedule: <u>1/6</u> Site Operator (s): <u>Matt N</u> Date: <u>3/2/09</u>					
Sampler Module S/N:	3N-B040	1					1/6		
Pump Box S/N:	3N-B043	2					owak		
Technician:	Christiar	n Kirk					3/2/09		
Flow Transfer Standard Mod	lel:	Tetr	raCal		S/N: _	TC 391		Cal. Date: <u>10/4/07</u> Cal. Date: <u>1/13/09</u>	
Temperature Transfer Stand	lard Model:	Eute	echnics	_	S/N: _	99F10161	1		
Barometric Pressure Transf	er Standard I	Model: <u>Tetr</u>	aCal		S/N: _	TC 391		Cal. Date:	10/4/07
GPS Latitude/Longitude:									
	Raw	Ofi	fset	Sample		Referer	nce_	Difference	Pass / Fail
Temp. Calibration (As Left)	1311	46		7.1		7.1		0.0	$\overline{\boxtimes}$
					_				
Barometric Pressure Calibration (As Left)	3296	19		<u>746.0</u>	_	746.0		0.0	
	Max	<u></u>	lin_	Diff					Pass / Fail
Leak Check Results:	554	423	}	131		mmHg	y in <u>35</u>	seconds	\boxtimes / \Box
Flow Rate Calibration									
		Set		Sa	ampler	R	eference		
		<u>Point</u>	Raw	<u> </u>	Flow	_	Flow		
		19.80	3441	19	.94		19.07		
		22.00	3825	22	.15		21.06		
		24.00	4202	24	.35		23.31		
	New g	gain= <u>5.</u>	<u>756</u> ,	offset= _	<u>-0.10</u>	_, correla	tion= <u>0.9</u>	999	
Flow Rate Audit									
	Set	Sampler	Refe	erence					
	<u>Point</u>	Flow	<u> </u>	low	Diff	ference	<u>Pass / F</u>	ail	
	22.00	21.96	21.	.91	0.	.07	. 🛛 / [
Auditor's Signature:	pristing	A / Kint							
Cardinal Photos: 🔀	Attendance:	\boxtimes							



Station:	Houghton	Lake		AC	QS #:	26-11	3-0001	
Controller S/N:	3N-B042			POC: <u>5</u> Run Schedule: <u>1/6</u> Site Operator (s): <u>Eric Ha</u>				
Sampler Module S/N:	3N-B045	5						
Pump Box S/N:	3N-B042	0					ansen	
Technician:	Christiar	n Kirk		Da	ate:	3/5/09	3/5/09	
Flow Transfer Standard Mod	lel:	Tetr	raCal	S/	N: <u>TC 421</u>		Cal. Date:	12/11/07
Temperature Transfer Stand	lard Model:		echnics		N: 99F1016	511	Cal. Date:	
Barometric Pressure Transf		Model: Tetr	aCal	_	N: TC 421		Cal. Date:	
GPS Latitude/Longitude:							_	
	Raw	<u>Of</u> i	fset	<u>Sampler</u>	Refere	ence	Difference	<u>Pass / Fail</u>
Temp. Calibration (As Left)	1476	73		14.2	13.7		0.5	🖂 / 🗌
Barometric Pressure Calibration (As Left)	3235	7	-	<u>736.3</u>	736.0		0.3	
	Max	M	lin_	Diff				Pass / Fail
Leak Check Results:	571	468	3	103	mmH	lg in <u>35</u>	seconds	\boxtimes / \square
Flow Rate Calibration								
		Set		Samp	bler	Reference		
		<u>Point</u>	Raw	Flov	w	Flow		
		19.80	3305	19.98		21.71		
		22.00	3677	22.21		23.84		
		24.00	4045	24.43		25.93		
	New g	jain= <u>5.</u>	<u>692</u> ,	offset= <u>2.7</u>	7 <u>5</u> , correla	ation= <u>1.0</u>	00	
Flow Rate Audit								
	Set	Sampler		erence				
	<u>Point</u>	Flow	F	low	<u>Difference</u>	<u> Pass / F</u>	ail	
	22.00	21.92	21.	.87	0.05	<u> </u> /		
Auditor's Signature:	hust	A / Link						
Cardinal Photos:	Attendance:	\boxtimes						



URG 3000N Carbon Sampler Installation/Calibration Form

Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Mod Temperature Transfer Stand Barometric Pressure Transf GPS Latitude/Longitude:	lard Model:	TetraCal Eutechnics	Date: S/N: <u>TC</u>		
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1321 3313	<u>Offset</u> 43 6		<u>Reference</u> 9.9 52.0	Difference Pass / Fail 0.4 / -0.1 /
Leak Check Results:	<u>Max</u> 670	<u>Min</u> 646	<u>Diff</u> 24	mmHg in <u>35</u>	Pass / Fail seconds
Flow Rate Calibration	Se <u>Poi</u> 19. 22. 24. New gain :	int <u>Raw</u> 80 <u>3416</u> 00 <u>3804</u> 00 <u>4181</u>	Sampler <u>Flow</u> <u>19.99</u> <u>22.21</u> <u>24.43</u> offset= <u>0.23</u> , c	Reference Flow 18.98 20.89 23.13	
Flow Rate Audit	<u>Point</u>	Flow Flow Flow Flow Flow Flow Flow Flow	erence low <u>Differ</u> 90 <u>0.01</u>		<u>Fail</u>
Cardinal Photos: 🔀	Attendance:				

Notes: Black clips broken.



Station: Controller S/N: Sampler Module S/N:	Port Huron 3N-B0415 3N-B0362		AQS #: POC: Run Sch	5		
Pump Box S/N:	3N-B0381		Site Operator (s): Bry		Lomerson	
Technician:	Christian Kirl	<u>(</u>	Date:	3/4/09		
Flow Transfer Standard Moo Temperature Transfer Stand	lard Model:	TetraCal Eutechnics		9F101611	Cal. Date: <u>12/6/07</u> Cal. Date: <u>1/13/09</u>	
Barometric Pressure Transf GPS Latitude/Longitude:	er Standard Mode	el: <u>TetraCal</u>	S/N: <u>TC</u>	2 420	Cal. Date: <u>12/6/07</u>	
	Raw	<u>Offset</u>	Sampler	Reference_	Difference Pass / Fail	
Temp. Calibration (As Left)	1377	40	14.5	13.8	0.7 /	
Barometric Pressure Calibration (As Left)	3285		<u>745.8 7</u>	747.5	1.7	
	Max	Min	Diff		Pass / Fail	
Leak Check Results:	568	463	105	mmHg in <u>35</u>	_seconds 🛛 / 🗌	
Flow Rate Calibration						
	Set <u>Poir</u> 19.8 22.0	nt <u>Raw</u> 30 <u>3330</u>	Sampler <u>Flow</u> <u>19.85</u> 22.03	Reference Flow 19.94 21.88		
	24.0 New gain=		24.20 offset= <u>1.88</u> ,	23.93 correlation=1.0	00	
Flow Rate Audit						
		•	erence			
		Flow Fl 21.98 21.	l <u>ow Differ</u> 77 0.21			
Auditor's Signature:	hut A	Kirt				
Cardinal Photos:	Attendance:					



Station:	Allen Park		AQ	S #:	163-0001	
Controller S/N:	3N-B0424		 PO	C: <u>5</u>		
Sampler Module S/N:	3N-B0368		Ru	n Schedule: <u>1/3</u>		
Pump Box S/N:	3N-B0357		Site	e Operator (s): <u>Matt</u>	Nowak	
Technician:	Christian K	íirk	Dat	e: <u>3/3/</u>	09	
Flow Transfer Standard Mod	lel:	TetraCal	S/N	I: <u>TC 390</u>	Cal. Date: 1	0/4/07
Temperature Transfer Stand	lard Model:	Eutechnics	S/N	I: <u>99F101611</u>	Cal. Date: 1	/13/09
Barometric Pressure Transf	er Standard Mo	del: <u>TetraCal</u>	S/N	I: <u>TC 390</u>	Cal. Date: 1	0/4/07
GPS Latitude/Longitude:						
	Raw	<u>Offset</u>	<u>Sampler</u>	Reference_	Difference	Pass / Fail
Temp. Calibration (As Left)	1395	57	13.7	13.8	-0.1	$\boxtimes \square$
Barometric Pressure Calibration (As Left)	3284		<u>746.0</u>		0.0	
	Max	Min	Diff		<u>P</u> ;	ass / Fail
Leak Check Results:	639	606	33	mmHg in <u>35</u>	seconds	\triangleleft / \square
Flow Rate Calibration						
	S	Set	Sampl			
		oint Rav			-	
	19	9.80 <u>3341</u>		19.57		
		2.00 <u>3711</u>		21.73		
	24	4.00 4085	24.27	23.84		
	New gai	n= <u>5.822</u>	, offset= <u>0.2</u>	5, correlation= <u>1</u>	.000	
Flow Rate Audit						
	Set	Sampler	Reference			
	<u>Point</u>	Flow	Flow	Difference Pass	<u>/ Fail</u>	
	22.00	21.95	22.00	-0.05		
Auditor's Signature:	brust A	Kirt				
Cardinal Photos:	Attendance:	\square				



Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician: Flow Transfer Standard Moo Temperature Transfer Stand Barometric Pressure Transfer GPS Latitude/Longitude:	lard Model:	TetraCal Eutechnics TetraCal	Site Op Date: S/N: _T		001-0023 yne Salisbury 09 Cal. Date: <u>3/25/09</u> Cal. Date: <u>3/11/09</u> Cal. Date: <u>3/25/09</u>
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1345 Already calibrate	Offset 36 d by operator	<u>Sampler</u> 10.8	Reference 10.8	<u>Difference</u> <u>Pass / Fail</u> / □
Leak Check Results:	<u>Max</u> 577	<u>Min</u> 559	_Diff18	mmHg in <u>35</u>	Pass / Fail seconds
Flow Rate Calibration	Set <u>Point</u> 19.80 22.00 24.00 New gain=		Sampler <u>Flow</u> <u>19.8</u> 22.0 24.7 offset= <u>1.03</u> , cor	Reference Flow 18.8 21.0 23.2 relation= 1.000	
Flow Rate Audit	Set San <u>Point Flo</u> 22.00 <u>22</u> M	w F		rence Pass / 7 \overline /	
Cardinal Photos:	Attendance:				

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URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Charlotte (Garinger HS)	AQS #:	37-119-0041		
Controller S/N:	3N-B0400	POC:	5		
Sampler Module S/N:	3N-B0428	Run Schedule:	1/3		
Pump Box S/N:	3N-B0348	Site Operator (s):	David Hord		
Technician:	Kelly Blomme	Date:	2/27/09		
Flow Transfer Standard Mod	del: <u>TetraCal</u>	S/N: <u>TC 365</u>	Cal. Date: <u>9/26/07</u>		
Temperature Transfer Stand	lard Model: <u>TetraCal</u>	S/N: TC 365	Cal. Date: <u>9/26/07</u>		
Barometric Pressure Transf	er Standard Model: <u>TetraCal</u>	S/N: <u>TC 365</u>	Cal. Date: <u>9/26/07</u>		
GPS Latitude/Longitude:	N 35º 14.400' W 80º 47.143' ELEV 756				

	Raw	<u>Offset</u>	Sampler	<u>Reference</u>	Difference Pass / Fail
Temp. Calibration (As Left)	1396	_42	15.3	15.5	-0.2 /
Barometric Pressure Calibration (As Left)	3271	4	746.9	744.0	2.9 /
	Max	_Min_	Diff		Pass / Fail
Leak Check Results:	559	451	108	mmHg in <u>35</u>	_seconds 🛛 / 🗌
Flow Rate Calibration					
		Set	Sampler	Reference	
		Point F	Raw Flow	Flow	
		19.80 <u>329</u>	<u>19.84</u>	19.76	-
		22.00 <u>366</u>	5 22.03	21.09	-
		24.00 403	24.24	24.05	
	New	gain= <u>5.817</u>	, offset= <u>0.27</u>	, correlation= <u>0</u>	.978
Flow Rate Audit					
	Set	Sampler	Reference		
	<u>Point</u>	Flow	Flow Dif	ference Pass / F	ail
	22.00	22.03		.02 /	
	Helly	Nomme			
Auditor's Signature:					
Cardinal Photos: 🔀	Attendance	: 🖂			D

Notes:

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URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Portsmouth (ODOT - Ironton)		AQS #:	39-087-0012	
Controller S/N:	3N-B0433		POC:	5	
Sampler Module S/N:	3N-B0371		Run Schedule:	1/6	
Pump Box S/N:	3N-B0474		Site Operator (s):	Darrell Pennington	
Technician:	Dave Beichley		Date:	2/13/09	
Flow Transfer Standard Moo Temperature Transfer Stand Barometric Pressure Transfor GPS Latitude/Longitude:	lard Model:		S/N: <u>TC 378</u> S/N: <u>305596</u> S/N: <u>TC 378</u>	Cal. Date: <u>10/1/07</u> Cal. Date: <u>1/13/09</u> Cal. Date: <u>10/1/07</u>	

Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1288 3305	<u>Offset</u> 43 3	Sampler 4.4 751.0	<u>Reference</u> 4.4 751.0	Difference Pass / Fail 0 / 0 / 0 /
Leak Check Results:	<u>Max</u> 638	<u>Min</u> 583	<u>Diff</u> 55	mmHg in <u>35</u>	Pass / Fail seconds X /
Flow Rate Calibration	Set <u>Point</u> 19.80 22.00 24.00 New gain=	<u>3476</u> <u>3853</u> 4245	Sampler <u>Flow</u> <u>19.84</u> <u>22.03</u> 24.29 , offset= <u>-0.82</u> , c	Reference	
Flow Rate Audit	<u>Point</u> <u>FI</u>	<u>ow</u> <u>F</u>		erence <u>Pass / F</u> .20 / [<u>ail</u>
Cardinal Photos:	Attendance:				$P_{acc} 54 \text{ of } 100$

Notes:

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URG 3000N Carbon Sampler Installation/Calibration Form

Station: Controller S/N: Sampler Module S/N: Pump Box S/N: Technician:	Providence (Urban League) 3N-B0511 3N-B0509 3N-B0450 Christian Kirk		1 	POC: <u>5</u> Run Schedule: <u>1/6</u> Site Operator (s): <u>Iwor</u> Date: <u>1/1</u> S/N: <u>TC 370</u> S/N:		1/6 Iwona Wanot 1/14/09 Cal. Date: <u>9/27/07</u> Cal. Date:	
Temperature Transfer Standard Model:		TetraCal					
Barometric Pressure Transfe GPS Latitude/Longitude:		iodei: <u>Tetracal</u>	_	S/N: <u>TC 3</u>	70	Cal. Date: _	9/27/07
Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1473 3353	<u>Offset</u> 35 7	<u>Sam</u> 23.5 760.1	<u>oler Re</u> 24		Difference -1.3 0.1	Pass / Fail
Leak Check Results:	<u>Max</u> 619	<u>Min</u> 531	88		nmHg in <u>35</u>	<u>I</u> seconds	Pass / Fail
Flow Rate Calibration	New g	19.80	<u>36</u> 072	Sampler _Flow_ 22.06 4.30 0.94, correla	Reference Flow 19.77 21.92 23.96 ation= 1.00	 	
Flow Rate Audit	Set <u>Point</u> 22.00 <i>brutr</i>	Sampler <u>Flow</u> 21.92 A <i>flit</i>	Reference Flow 22.15	Differen	<u>ce Pass</u>		

Auditor's Signature: ____

Cardinal Photos:

Attendance:

Notes:

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Notes:

URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Nashville (Locke	<u>eland School)</u>	AQS #:	47-037-0023	
Controller S/N:	3N-B0409		POC:	5	
Sampler Module S/N:	3N-B0359		Run Schedule:	1/6	
Pump Box S/N:	3N-B0528		Site Operator (s):	Doc Rayford, Novelet Cox	
Technician:	Dave Beichley		Date:	2/10/09	
Flow Transfer Standard M	odel:	TetraCal	S/N: <u>TC 379</u>	Cal. Date: <u>9/28/07</u>	
Temperature Transfer Sta	ndard Model:	Eutechnics	S/N: <u>305598</u>	Cal. Date: <u>1/13/09</u>	
Barometric Pressure Tran	sfer Standard Model:	TetraCal	S/N: <u>TC 379</u>	Cal. Date: <u>9/28/07</u>	
GPS Latitude/Longitude:	N 36º 10' 34.7″ \	N 86º 44' 20.1″			

Temp. Calibration (As Left) Barometric Pressure Calibration (As Left)	<u>Raw</u> 1471 3297	<u>Offset</u> 39 5_	<u>Sampler</u> 27.1 748.7	Reference 23.1 749.0	Difference Pass / Fail 0.1 / 1.7 /
Leak Check Results:	<u>Max</u> 609	<u>Min</u> 529	<u>Diff</u> 80	mmHg in <u>35</u>	Pass / Fail seconds X /
Flow Rate Calibration	Set <u>Poin</u> 19.80 22.00 24.00 New gain=	<u>3236</u> <u>3588</u> 3947	Sampler <u>Flow</u> <u>19.87</u> <u>22.03</u> 24.23 offset= <u>0.62</u> , c	Reference <u>Flow</u> <u>19.33</u> <u>21.38</u> <u>23.42</u> correlation= <u>1.000</u>	
Flow Rate Audit	Point Fl 22.00 <u>21</u> In Buchly	•		<u>ference</u> <u>Pass / F</u> .14 ⊠ / [<u>ail</u>
Cardinal Photos: 🔀	Attendance:				D

Page 56 of 109

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URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Vancouver			AQS #	<i>t</i> :	53-011-0013	
Controller S/N:	oller S/N: <u>3N-B0349</u>		POC: <u>5</u>		5		
Sampler Module S/N: <u>3N-B0413</u>		Run Schedule: 1/6		1/6			
Pump Box S/N:			Site O	Site Operator (s): Jack		ie Brown	
Technician:				Date: <u>2/</u>		2/25/09	25/09
Flow Transfer Standard Mod	lel:	Tet	raCal	S/N: <u>TC 422</u>		Cal. Date	: 8/28/08
Temperature Transfer Stand	ard Model:	Eut	echnics	S/N: <u>304019</u> S/N: <u>TC 422</u>		Cal. Date	:
Barometric Pressure Transfe	er Standard Mo	odel: <u>Tet</u>	raCal			Cal. Date	: 8/28/08
GPS Latitude/Longitude:							
Temp. Calibration (As Left)	<u>Raw</u> 1346	<u>01</u> 31	fset	Sampler 11.3	Reference	<u>Differen</u>	<u>ce Pass / Fail</u>
Barometric Pressure Calibration (As Left)	3393	8	_	<u>748.0</u>	748.0	0	
	Max	<u>_ N</u>	<u>lin</u>	Diff			Pass / Fail
Leak Check Results:	629	56	9	60	mmHg in	<u>35</u> seconds	\boxtimes / \square
Flow Rate Calibration							
		Set		Sampler	Refe	rence	
	<u> </u>	<u>Point</u>	Raw	Flow	FI	ow	

<u>Point</u>	Raw	Flow	Flow
19.80	3365	19.80	19.30
22.00	3750		21.22
24.00	4114	24.32	23.30

New gain= <u>5.374</u>, offset= <u>1.55</u>, correlation= <u>0.999</u>

Flow Rate Audit

 Set
 Sampler
 Reference

 Point
 Flow
 Difference
 Pass / Fail

 22.00
 22.05
 22.14
 0.02
 I

 MddMdd
 Mdddd

Cardinal Photos:

Attendance:

Notes:

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URG 3000N Carbon Sampler Installation/Calibration Form

Station:	Marysville		AQS	S #:	<u>53-061-1007</u>	<u> </u>	
Controller S/N:	3N-B0358		POC):	5		
Sampler Module S/N:	3N-B0416		Run	Schedule:	1/6		
Pump Box S/N:	3N-B0402		Site	Operator (s):	Antony Leo		
Technician:	Martin Valvur		Date	e :	2/24/09		
Flow Transfer Standard Mod	del:	TetraCal	S/N:	TC 501	Cal.	Date:	8/8/08
Temperature Transfer Stand	lard Model:	Eutechnics	S/N:	304019	Cal.	Cal. Date: 1/30/09	1/30/09
Barometric Pressure Transf	er Standard Model	: TetraCal	S/N:	S/N: TC 501		Cal. Date: <u>8/8/08</u>	
GPS Latitude/Longitude:							
	Raw	<u>Offset</u>	<u>Sampler</u>	Reference	<u> </u>	erence	<u>Pass / Fail</u>
Temp. Calibration (As Left)	1315	25	9.0	9.0	0		🖂 / 🗌
Barometric Pressure Calibration (As Left)	3322	_5	754.0	754.0	0		× 1

	Max	Min	Diff		Pass / Fail
Leak Check Results:	407	219	188	mmHg in <u>35</u> seconds	

Flow Rate Calibration

Set		Sampler	Reference
<u>Point</u>	Raw	Flow	Flow
19.80	3322	19.81	19.02
22.00	<u>3811</u>	22.10	20.97
24.00	4195	24.31	23.01

New gain= 5.382 ____, offset= <u>1.24</u>, correlation= <u>1.000</u>

Flow Rate Audit Set Sampler Reference Point Flow Flow Difference Pass / Fail \boxtimes 22.00 22.02 21.93 0.09 Auditor's Signature:

Cardinal Photos:

Attendance:

Notes:

APPENDIX B

Site Photographs Ordered by AQS Number



AQS# 01-073-2003 Birmingham, Alabama



North







East



West

AQS# 01-089-0014 Huntsville, Alabama



North



South







West



Overall

AQS# 06-007-0002 Chico, California



North



South









Overall

AQS# 06-019-0008 Fresno, California



North



South



East



West

AQS# 06-025-0005 Calexico, California



North



East



South



West

AQS# 06-063-1009 Portola, California



North



South



East



West

AQS# 06-067-0006 Sacramento, California (Del Paso Manor)



North



South





West

AQS# 06-067-0010 Sacramento, California (CARB)



South





West

AQS# 06-085-0005 San Jose, California



Northeast



South



AQS# 06-111-2002 Simi Valley, California



North



East



South



West

AQS# 08-077-0017 Grand Junction, Colorado



North



East



South



West



Overall

AQS# 08-123-0008 Platteville, Colorado





Northeast

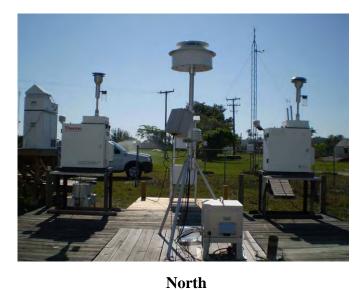


Northwest



East

AQS# 12-011-1002 Davie, Florida





South



East



West

AQS# 12-057-3002 Tampa, Florida



North



South



East



West

AQS# 13-059-0001 Athens, Georgia





South



East

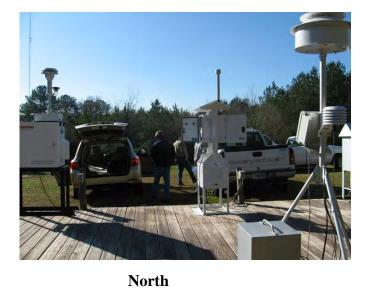


West



Overall

AQS# 13-089-0002 Atlanta, Georgia (South DeKalb)





South



East



Southwest



Overall

AQS# 13-245-0091 Augusta, Georgia



North



South



East



West

AQS# 13-295-0002 Rossville, Georgia





South



East



West



Overall

AQS# 19-113-0037 Cedar Rapids, Iowa



North



South



East



Overall



West

AQS# 19-163-0015 Davenport, Iowa



South



East



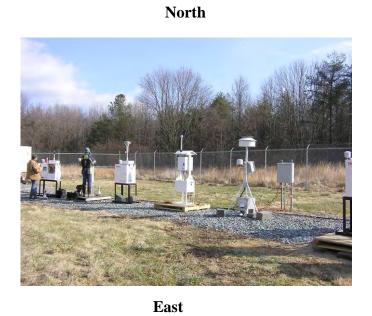
West

AQS# 24-033-0030 Beltsville, Maryland





South





West



Overall

AQS# 26-018-0020 Grand Rapids, Michigan



North



South







West



Overall

AQS# 26-091-0007 Tecumseh, Michigan



North



East



South



West



Overall

AQS# 26-113-0001 Houghton Lake, Michigan



North



South



East



West

AQS# 26-115-0005 Luna Pier, Michigan



North



South



East



West

AQS# 26-147-0005 Port Huron, Michigan



North



South





East

West



Overall

AQS# 26-163-0001 Allen Park, Michigan



North



South



East



West



Overall

AQS# 35-001-0023 Albuquerque, New Mexico



North



South











Overall

AQS# 37-119-0041 Charlotte, North Carolina



North



South



East



West

AQS# 47-037-0023 Nashville, Tennessee





South





East

West



Overall

AQS# 53-011-0013 Vancouver, Washington



North



South





East

West



Overall

AQS# 53-063-0016 Marysville, Washington



North



South



West







Overall

APPENDIX C

Property List for ARS-Install Sites Ordered by AQS Number



Property List for ARS-Install Sites Ordered by AQS Number

AQS Number	RTI Name (City Name)	State	Equipment
01-073-2003	Wylam (Birmingham)	AL	Controller: 3N-B0454
			Module: 3N-B0449
			Pump House: 3N-B0495
			Flow Calibrator: TC5 S/N 352
01-089-0014	Huntsville Old Airport	AL	Controller: 3N-B0442
	(Huntsville)		Module: 3N-B0524
			Pump House: 3N-B0483
			Flow Calibrator: TC5 S/N 363
06-007-0002	CARB (Chico)	CA	Controller: 490 OR 439
			Module: 3N-B0350
			Pump House: 3N-B0423
			Flow Calibrator: TC5 S/N 387
06-019-0008	First Street (Fresno)	CA	Controller: 3N-B0361
			Module: 3N-B0347
			Pump House: 3N-B0384
			Flow Calibrator: TC5 S/N 386
06-025-0005	CARB (Calexico)	CA	Controller: 3N-B0346
			Module: 3N-B0377
			Pump House: 3N-B0360
			Flow Calibrator: TC5 S/N 416
06-063-1009	CARB (Portola)	CA	Controller: 3N-B0439
			Module: 3N-B0410
			Pump House: 3N-B0378
			Flow Calibrator: TC5 S/N 397
06-067-0006	Del Paso Manor	CA	Controller: 3N-B0343
	(Sacramento)		Module: 3N-B0344
			Pump House: 3N-B0395
			Flow Calibrator: TC5 S/N 374
06-067-0010	CARB (Sacramento)	CA	Controller: 490 OR 439
			Module: 3N-B0422
			Pump House: 3N-B0354
			Flow Calibrator: TC5 S/N 414
06-085-0005	Jackson Street (San Jose)	CA	Controller: 3N-B0397
			Module: 3N-B0482
			Pump House: 3N-B0408
			Flow Calibrator: TC5 S/N 393
06-111-2002	Simi Valley (Simi Valley)	CA	Controller: 3N-B0418
			Module: 3N-B0431
			Pump House: 3N-B0351
			Flow Calibrator: NONE

AQS Number	RTI Name (City Name)	State	Equipment
08-077-0017	Powell Building (Phase II site) (Grand Junction)	СО	Controller: 3N-B0209 (Phase I equipment) Module: 3N-B0211
	()		Pump House: 3N-B0165
			Flow Calibrator: TC5 S/N 397
08-001-0006	Commerce City (Phase I site)	СО	Controller: 3N-B0484 (Phase II equipment)
			Module: 3N-B0452
			Pump House: 3N-B0456
			Flow Calibrator: NONE
08-123-0008	Platteville (Platteville)	CO	Controller: 3N-B0517
			Module: 3N-B0479
			Pump House: 3N-B0516
			Flow Calibrator: NONE
10-001-0003	Dover (Dover)	DE	Controller: 3N-B0472
			Module: 3N-B0476
			Pump House: 3N-B0519
			Flow Calibrator: NONE
12-011-1002	Univ. of Fla. Ag. School	FL	Controller: 3N-B0580
	(Davie)		Module: 3N-B0380
			Pump House: 3N-B0366
			Flow Calibrator: TC5 S/N 366
12-057-3002	Sydney (Tampa)	FL	Controller: 3N-B0502
			Module: 3N-B0356
			Pump House: 3N-B0372
			Flow Calibrator: TC5 S/N 425
13-059-0001	Food Science Bldg. (Athens)	GA	Controller: 3N-B0508
			Module: 3N-B0488
			Pump House: 3N-B0438
			Flow Calibrator: TC5 S/N 360
13-069-0002	General Coffee State Park	GA	Controller: 3N-B0406
	(Nicholls)		Module: 3N-B0434
			Pump House: 3N-B0429
			Flow Calibrator: TC5 S/N 384
13-089-0002	South Dekalb (Atlanta)	GA	Controller: 3N-B0436
			Module: 3N-B0521
			Pump House: 3N-B0462
			Flow Calibrator: TC5 S/N 362
13-245-0091	Augusta (Augusta)	GA	Controller: 3N-B0376
			Module: 3N-B0398
			Pump House: 3N-B0435
			Flow Calibrator: TC5 S/N 385

AQS Number	RTI Name (City Name)	State	Equipment
13-115-0005	Rossville (Rossville)	GA	Controller: 3N-B0475
			Module: 3N-B0473
			Pump House: 3N-B0510
			Flow Calibrator: TC5 S/N 372
18-163-0012	Mill Road Firestation #17	IN	Controller: 3N-B0526
	(Evansville)		Module: 3N-B0497
			Pump House: 3N-B0468
			Flow Calibrator: TC5 S/N 357
19-113-0037	Army Reserve Center	IA	Controller: 3N-B0364
	(Cedar Rapids)		Module: 3N-B0392
			Pump House: 3N-B0417
			Flow Calibrator: TC5 S/N 389
19-153-0030	Public Health Building	IA	Controller: 3N-B0430
	(Des Moines)		Module: 3N-B0404
			Pump House: 3N-B0390
			Flow Calibrator: TC5 S/N 400
19-163-0015	Jefferson Elementary	IA	Controller: 3N-B0394
	(Davenport)		Module: 3N-B0395
			Pump House: 3N-B0399
			Flow Calibrator: TC5 S/N 388
21-043-0500	Grayson Lake (Frankfort)	KY	Controller: 3N-B0520
			Module: 3N-B0515
			Pump House: 3N-B0387
			Flow Calibrator: TC5 S/N 367
21-067-0012	Lexington Health Department	KY	Controller: 3N-B0478
	(Lexington)		Module: 3N-B0440
			Pump House: 3N-B0375
			Flow Calibrator: TC5 S/N 373
24-033-0030	HU-Beltsville (Beltsville)	MD	Controller: 3N-B0487
			Module: 3N-B0443
			Pump House: 3N-B0525
			Flow Calibrator: TC5 S/N 361
26-081-0020	Grand Rapids (Grand Rapids)	MI	Controller: 3N-B0391
			Module: 3N-B0365
			Pump House: 3N-B0363
			Flow Calibrator: TC5 S/N 418
26-091-0007	Tecumseh (Tecumseh)	MI	Controller: 3N-B0370
			Module: 3N-B0401
			Pump House: 3N-B0432
			Flow Calibrator: TC5 S/N 391

Property	List for	ARS-Install	Sites	Ordered	hv	AQS Number
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AQS Number	RTI Name (City Name)	State	Equipment
26-113-0001	Houghton Lake	MI	Controller: 3N-B0421
	(Houghton Lake)		Module: 3N-B0455
			Pump House: 3N-B0420
			Flow Calibrator: TC5 S/N 421
26-115-0005	Luna Pier (Luna Pier)	MI	Controller: 3N-B0388
			Module: 3N-B0383
			Pump House: 3N-B0405
			Flow Calibrator: TC5 S/N 419
26-147-0005	Port Huron (Port Huron)	MI	Controller: 3N-B0415
			Module: 3N-B0362
			Pump House: 3N-B0381
			Flow Calibrator: TC5 S/N 420
26-163-0001	Allen Park (Allen Park)	MI	Controller: 3N-B0424
			Module: 3N-B0368
			Pump House: 3N-B0357
			Flow Calibrator: TC5 S/N 390
35-001-0023	Del Norte High School	NM	Controller: 3N-B0412
	(Albuquerque)		Module: 3N-B0353
			Pump House: 3N-B0477
			Flow Calibrator: TC5 S/N 371
37-119-0041	Garinger High School	NC	Controller: 3N-B0400
	(Charlotte)		Module: 3N-B0428
			Pump House: 3N-B0348
			Flow Calibrator: TC5 S/N 365
39-087-0012	ODOT	OH	Controller:3N-B0433
	(Portsmouth)		Module: 3N-B0371
			Pump House: 3N-B0474
			Flow Calibrator: TC5 S/N 378
41-029-0133	OR DEQ (Medford)	OR	Controller: 3N-B0352
			Module: 3N-B0464
			Pump House: 3N-B0414
			Flow Calibrator: TC5 S/N 423
41-035-0004	Peterson School	OR	Controller: 3N-B0379
	(Klamath Falls)		Module: 3N-B0425
	、		Pump House: 3N-B0396
			Flow Calibrator: TC5 S/N 424
41-039-0060	Lane County Regional Air	OR	Controller: 3N-B0403
	Pollution Authority		Module: 3N-B0386
	(Eugene)		Pump House: 3N-B0396
	(2		Flow Calibrator: TC5 S/N 426

Property List for ARS-Install Sites Ordered by AQS Number

AQS Number	RTI Name (City Name)	State	Equipment
44-007-0022	Urban League (Providence)	RI	Controller: 3N-B0511
			Module: 3N-B0509
			Pump House: 3N-B0450
			Flow Calibrator: TC5 S/N 370
47-037-0023	Lockeland School (Nashville)	TN	Controller: 3N-B0409
			Module: 3N-B0359
			Pump House: 3N-B0528
			Flow Calibrator: TC5 S/N 379
53-011-0013	Vancouver (Vancouver)	WA	Controller: 3N-B0349
			Module: 3N-B0413
			Pump House: 3N-B0411
			Flow Calibrator: TC5 S/N 422
53-061-1007	Crown Z (Marysville)	WA	Controller: 3N-B0358
			Module: 3N-B0416
			Pump House: 3N-B0402
			Flow Calibrator: TC5 S/N 401
ARS Office	Fort Collins	СО	Flow Calibrators: S/Ns 396, 390, 415

APPENDIX D

Property List for Self-Install Sites Ordered by AQS Number



Property List for Self-Install Sites Ordered by AQS Number

AQS Number	RTI Name (City Name)	State	Equipment
01-101-1002	MOMS (Montgomery)	AL	Controller: 3N-B0382
			Module: 3N-B0407
			Pump House: 3N-B0453
			Flow Calibrator: TC5 S/N 354
18-037-2001	Jasper Post Office (Jasper)	IN	Controller: 3N-B0448
			Module: 3N-B0374
			Pump House: 3N-B0504
			Flow Calibrator: TC5 S/N 364
18-039-0003	Elkhart Pierre Moran School	IN	Controller: 3N-B0496
	(Elkhart)		Module: 3N-B0485
			Pump House: 3N-B0486
			Flow Calibrator: TC5 S/N 347
18-065-0003	Shenandoah High School	IN	Controller: 3N-B0493
	(Middletown)		Module: 3N-B0527
			Pump House: 3N-B0498
			Flow Calibrator: TC5 S/N 351
22-015-0008	Shreveport Airport	LA	Controller: 3N-B0373
	(Shreveport)		Module: 3N-B0389
			Pump House: 3N-B0369
			Flow Calibrator: TC5 S/N 412
22-033-0009	Capitol (Baton Rouge)	LA	Controller: 3N-B0355
			Module: 3N-B0419
			Pump House: 3N-B0393
			Flow Calibrator: TC5 S/N 394
29-047-0005	Liberty (Liberty)	MO	Controller: 3N-B0505
			Module: 3N-B0506
			Pump House: 3N-B0522
			Flow Calibrator: TC5 S/N 377
29-099-0012	Arnold R&P (Arnold)	MO	Controller: 3N-B0457
			Module: 3N-B0446
			Pump House: 3N-B0480
			Flow Calibrator: TC5 S/N 379
36-001-0005	Albany County Healt Dept.	NY	Controller: 3N-B0490
	(Albany)		Module: 3N-B0491
			Pump House: 3N-B0447
			Flow Calibrator: TC5 S/N 349

Property List for Self-Install Sites Ordered by AQS Number

AQS Number	RTI Name (City Name)	State	Equipment
36-029-0005	Buffalo (Buffalo)	NY	Controller: 3N-B0460
			Module: 3N-B0494
			Pump House: 3N-B0501
			Flow Calibrator: TC5 S/N 350
36-031-0003	Whiteface Mountain	NY	Controller: 3N-B0469
	(Whiteface Mountain)		Module: 3N-B0512
	(Not in a city)		Pump House: 3N-B0492
			Flow Calibrator: TC5 S/N 359
36-055-1007	Rochester Primary	NY	Controller: 3N-B0499
	(Rochester)		Module: 3N-B0503
			Pump House: 3N-B0444
			Flow Calibrator: TC5 S/N 358
36-081-0124	Queens College (New York)	NY	Controller: 3N-B0466
			Module: 3N-B0470
			Pump House: 3N-B0507
			Flow Calibrator: TC5 S/N 427
36-101-0003	Pinnacle State Park	NY	Controller: 3N-B0481
	(Pinnacle State Park)		Module: 3N-B0461
	(Not in a city)		Pump House: 3N-B0459
			Flow Calibrator: TC5 S/N 348
48-113-0069	Dallas Hinton (Dallas)	TX	Controller: 3N-B0523
			Module: 3N-B0500
			Pump House: 3N-B0513
			Flow Calibrator: TC5 S/N 368
48-141-0044	Chamizal (El Paso)	TX	Controller: 3N-B0385
			Module: 3N-B0437
			Pump House: 3N-B0465
			Flow Calibrator: TC5 S/N 376
48-201-1039	Deer Park 1 - Collocated	TX	Controller: 3N-B0445
	(Deer Park)		Module: 3N-B0518
			Pump House: 3N-B0471
			Flow Calibrator: TC5 S/N 369
48-201-1039	Deer Park 2 - Collocated	ΤX	Controller: 3N-B0514
	(Deer Park)		Module: 3N-B0498
			Pump House: 3N-B0489
			Flow Calibrator: NONE
48-203-0002	Carnac (Carnac)	ΤX	Controller: 3N-B0451
			Module: 3N-B0467
			Pump House: 3N-B0441
			Flow Calibrator: NONE

APPENDIX E

Master Contact List Ordered by Install-Group Number



Install		Scheduled Install		Controller/Module/ Pump House/	SiteID/Site	City Name/RTI Name, EPA Schedule,				
Group	Region	Date	State	Flow Calibrator	Location		Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
1	10	2/26/2009	OR	Controller: 3N-B0352	41-029-0133	Medford	OR DEQ Laboratory	Christopher McGarry	503-693-5715	McGarry.Christopher@deq.state.or.us
-	10			Module: 3N-B0464		902 Grant Ave.	3150 NW 229th Ave.			
				Pump House: 3N-B0414		Medford, OR	Suite 150			
				Flow Calibrator: TC5 S/N 423		induisia, ort	Hillsboro, OR 97124-6536			
		shipped 2/19		Flow Calibrator: TC5 S/N 413		SCHED:				
		sinpped 2/19		riow canorator. res 6/14 415		POC:5				
1	10	2/26/2009	OR	Controller: 3N-B0379	41-035-0004	Klamath Falls/Peterson	OR DEQ Laboratory	Christopher McGarry	503-693-5715	McGarry.Christopher@deg.state.or.us
_				Module: 3N-B0425		School	3150 NW 229th Ave.	J		
				Pump House: 3N-B0396		4856 Clinton St.	Suite 150			
				Flow Calibrator: TC5 S/N 424		Klamath Falls, OR	Hillsboro, OR 97124-6536			
						SCHED:				
						POC:5				
1	10	2/26/2009	OR	Controller: 3N-B0403	41-039-0060	Eugene/Lane County	OR DEQ Laboratory	Christopher McGarry	503-693-5715	McGarry.Christopher@deg.state.or.us
				Module: 3N-B0386		Regional Air Poll. Auth.	3150 NW 229th Ave.	J		
				Pump House: 3N-B0396		Amazon Park/499 E. 29th	Suite 150			
				Flow Calibrator: TC5 S/N 426		Eugene, OR	Hillsboro, OR 97124-6536			
						SCHED:	-			
						POC:5				
1	10	2/25/2009	WA	Controller: 3N-B0349	53-011-0013	Vancouver	Dept. of Ecology	Jackie Brown (site operator)		jackie@swcleanair.org
_				Module: 3N-B0413		8205 NE 4th Plain Rd.	3190 160th Ave. SE	(
				Pump House: 3N-B0411		Vancouver, WA	Bellevue, WA 98008			
				Flow Calibrator: TC5 S/N 422			ATTN: John Williamson	John Williamson	425-649-7118	jwil461@ecy.wa.gov
						SCHED:				· · · · · · · · · · · · · · · · · · ·
						POC:5				
1	10	2/24/2009	WA	Controller: 3N-B0358	53-061-1007	Marysville-7th Ave.	Dept. of Ecology	Anthony Leo(site operator)		aleo461@ecy.wa.gov
				Module: 3N-B0416		1605 7th St.	3190 160th Ave. SE			
				Pump House: 3N-B0402		Marysville, WA	Bellevue, WA 98008			
				Flow Calibrator: TC5 S/N 401			ATTN: John Williamson	John Williamson	425-649-7118	jwil461@ecy.wa.gov
				Spare Cont: 3N-B0421		SCHED:				
				Spare Mod: 3N-B0499		POC:5				
2	9	3/30/2009	CA	Controller: 490 OR 439	06-007-0002	CARB	CARB	Bob Land	530-895-5156	rland@arb.ca.gov
				Module: 3N-B0350		468 Manzanita Ave., Suite #10	468 Manzanita Ave., Suite #10			NOTE: SHIPPED MEMORY CARDS AND
				Pump House: 3N-B0423		Chico, CA 95926	Chico, CA 95926			CASSETTES TO SAMANTHA SCOLA AT
				Flow Calibrator: TC5 S/N 387						CALIFORNIA AIR RESOURCES BOARD
						SCHED:	ATTN: Bob Land			1927 13TH ST., SACRAMENTO, CA
						POC:5				95811 ON 3/10/09
2	9	3/30/2009	CA	Controller: 3N-B0361	06-019-0008	CARB	CARB	Patrick Seames	559-228-1825	pseames@arb.ca.gov
				Module: 3N-B0347		3425 N. First St.	3425 N. First St.	Joe Guerrero		jguerrero@arb.ca.gov
				Pump House: 3N-B0384			Suite 205b			
				Flow Calibrator: TC5 S/N 386		Fresno, CA 93726	Fresno, CA 93726			
						SCHED:	ATTN: Patrick Seames			
						POC:5				
2	9	3/31/2009	CA	Controller: 3N-B0439	06-063-1009	CARB	Northern Sierra APCD	George Ozanich	530-283-4654	george@myaivdistrict.com
				Module: 3N-B0410		161 Nevada St.	270 County Hospital Rd.			
				Pump House: 3N-B0378		Portola, CA	Ste. 127			
				Flow Calibrator: TC5 S/N 397			Quincy, CA 95971			
						SCHED:	ATTN: George Ozanich			
						POC:5				

Install Group	Region	Scheduled Install Date	State	Controller/Module/ Pump House/ Flow Calibrator	SiteID/Site Location	City Name/RTI Name, EPA Schedule, & POC	Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
2	9	4/2/2009	CA	Controller: 3N-B0343 Module: 3N-B0344	06-067-0006		Sacramento Metropolitan AQMD	John Ching	916-874-4839 916-874-4899 fax	jching@airquality.org
				Pump House: 3N-B0395		Sacramento, CA	777 12th St., 3rd Floor Sacramento, CA 95814-1908	Jaspreet Gosal (Site Op)	916-874-4841	jgosal@airquality.org
				Flow Calibrator: TC5 S/N 374			ATTN: John Ching		916-531-0015 cell	
2	9	4/2/2009	CA	Controller: 490 OR 439	06-067-0010	CARB	CARB	Steve Aston	916-327-4724	saston@arb.ca.gov
-	,		0.1	Module: 3N-B0422		1309 T St.	1927 13th St.	5670715151	,10 027 1121	<u>Sacton O di Di Calgo r</u>
				Pump House: 3N-B0354 Flow Calibrator: TC5 S/N 414		Sacramento, CA	Sacramento, CA 95811	Megan McKay	916-327-0885	mmckay@arb.ca.gov
						SCHED: POC:5				
2	9	4/1/2009	CA	Controller: 3N-B0397	06-085-0005		BAAQMD	George Stuckert	408-295-0692	gstuckert@baaqmd.gov
				Module: 3N-B0482		158 Jackson Street, Suite B	158 Jackson Street, Suite B			
				Pump House: 3N-B0408 Flow Calibrator: TC5 S/N 393		San Jose, CA 95112	San Jose, CA 95112			
						SCHED: POC:5	ATTN: George Stuckert			
3	9	3/2/2009	CA	Controller: 3N-B0346 Module: 3N-B0377	06-025-0005	Calexico/CARB	CARB 1029 Ethel St.	Tony Royer	760-768-0132	troyer@arb.ca.gov
				Pump House: 3N-B0360 Flow Calibrator: TC5 S/N 416			Calexico, CA 92231			
				now canonator. res 5/10 410		SCHED: POC:5				
3	9	3/3/2009	CA	Controller: 3N-B0418	06-111-2002	Simi Valley	Ventura	Jim McElroy	805-662-6979	jimm@vcapcd.org
				Module: 3N-B0431		5400 Cochran St.	669 County Square Dr.	Andy Brown	805-662-6979	
				Pump House: 3N-B0351 Flow Calibrator: NONE		Simi Valley, CA	Ventura, CA 93003			
						SCHED: POC: 5				
3	6	**	NM	Controller: 3N-B0412	35-001-0023	Albuquerque/Del Norte HS	City of Albuquerque	Fabian Macias	505-768-1969	fmacias@cabq.gov
		1/6/2009		Module: 3N-B0353			Environmental Health Dept.		505-768-1973 fax	
				Pump House: 3N-B0477		Albuquerque, NM	11850 Sunset Gardens SW Albuquerque, NM 87121	Dwayne Salisbury	505-768-1966 505-768-1977 fax	dsalisbury@cabq.gov
		shipped		Flow Calibrator: TC5 S/N 371			ATTN: Dwayne Salisbury		505-708-1977 lax	<u>dsansbury@cabq.gov</u>
		2/13/2009		Controller: 3N-B0367		POC:5	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT			
4	7	3/6/2009	IA	Controller: 3N-B0364	19-113-0037	Cedar Rapids/Army	Linn County Public Health Dept	Kyle Lundberg	319-892-6040	Kyle.Lundberg@linncounty.org
				Module: 3N-B0392		Reserve Center	501 13th St. NW		319-521-3068 cell	
				Pump House: 3N-B0417		1599 Wenig Rd. NE	Cedar Rapids, IA 52405	David Burns	319-521-3080 cell	
				Flow Calibrator: TC5 S/N 389		Cedar Rapids, IA	ATTN: Kyle Lundberg			
				Controller: 3N-B0397		SCHED:				
				Module: 3N-B0347		POC:5				
4	7	3/9/2009	IA	Controller: 3N-B0430	19-153-0030		Polk County Air Quality	Chad Hines	515-286-3524	
				Module: 3N-B0404		U	5885 NE 14th St.			
				Pump House: 3N-B0390		· · · · · · · · · · · · · · · · · · ·	Des Moines, IA 50313			
				Flow Calibrator: TC5 S/N 400		Des Moines, IA				
				1		SCHED:				
						POC:5				

Install Group	Region		State	Controller/Module/ Pump House/ Flow Calibrator	Location		Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
4	7	3/5/2009	IA	Controller: 3N-B0394 Module: 3N-B0395 Pump House: 3N-B0399 Flow Calibrator: TC5 S/N 388	19-163-0015	Davenport/Jefferson Elementary 10 St. & Vine St. Davenport, IA SCHED: POC:5	University Hygenic Lab 102 Oakdale Campus H10108 Iowa City, IA 52242	Sean Fitzsimmons, PhD	515-281-8923	<u>Sean.Fitzsimmons@dnr.state.ia.us</u>
5	5	3/6/2008	МІ	Controller: 3N-B0391 Module: 3N-B0365 Pump House: 3N-B0363 Flow Calibrator: TC5 S/N 418	26-081-0020	Grand Rapids 1179 Monrow NW Grand Rapids, MI SCHED: POC:5	Michigan Department of Environmental Quality 815 Filley St. Lansing, MI 48906 ATTN: Eric Hansen	Bill Endres Dan Ling (call to set up install date)	616-456-3158 517-204-1707 cell	<u>None given</u> lingd@michigan.gov
5	5		МІ	Controller: 3N-B0370 Module: 3N-B0401 Pump House: 3N-B0432 Flow Calibrator: TC5 S/N 391	26-091-0007	Tecumseh 6792 Raisin Center Highway Tecumseh, MI SCHED: POC:5	Michigan Department of Environmental Quality 815 Filley St. Lansing, MI 48906 ATTN: Eric Hansen	Matthew Nowak Dan Ling (call to set up install date)	313-790-4898 517-204-1707 cell	<u>nowakmr@michican.gov</u> lingd@michigan.gov
5	5	3/5/2008	MI	Controller: 3N-B0421 Module: 3N-B0455 Pump House: 3N-B0420 Flow Calibrator: TC5 S/N 421	26-113-0001	Lansing/Houghton Lake 1769 S. Jeffs Rd. Houghton Lake, MI SCHED: POC:5	Michigan Department of Environmental Quality 815 Filley St. Lansing, MI 48906 ATTN: Eric Hansen	Eric Hansen Dan Ling (call to set up install date)	616-456-3158 517-204-1707 cell	<u>hansen@michigan.gov</u> lingd@michigan.gov
5	5	3/2/2008	MI	Controller: 3N-B0388 Module: 3N-B0383 Pump House: 3N-B0405 Flow Calibrator: TC5 S/N 419	26-115-0005	Luna Pier 3229 East Dean Rd. Luna Pier, MI SCHED: POC:5	Michigan Department of Environmental Quality 815 Filley St. Lansing, MI 48906 ATTN: Eric Hansen	Matthew Nowak Dan Ling (call to set up install date)	313-790-4898 517-204-1707 cell	nowakmr@michican.gov lingd@michigan.gov
5	5	shipped 4/9/09	MI	Controller: 3N-B0415 Module: 3N-B0362 Pump House: 3N-B0381 Flow Calibrator: TC5 S/N 420 Flow Calibrator: TC5 S/N 399	26-147-0005	Port Huron 2525 Dove Rd. Port Huron, MI SCHED: POC:5	Michigan Department of Environmental Quality 815 Filley St. Lansing, MI 48906 ATTN: Eric Hansen	Bryan Lomerson Dan Ling (call to set up install date)	734-891-0164 517-204-1707 cell	LomersonB@michigan.gov lingd@michigan.gov
5	5	3/3/2008	МІ	Controller: 3N-B0424 Module: 3N-B0368 Pump House: 3N-B0357 Flow Calibrator: TC5 S/N 390	26-163-0001	Allen Park 14700 Goddard Allen Park, MI SCHED: POC:5	Michigan Department of Environmental Quality 815 Filley St. Lansing, MI 48906 ATTN: Eric Hansen	Matthew Nowak Dan Ling (call to set up install date)	313-790-4898 517-204-1707 cell	<u>nowakmr@michican.gov</u> lingd@michigan.gov
6	6	1/16/2009	AL	Controller: 3N-B0454 Module: 3N-B0449 Pump House: 3N-B0495 Flow Calibrator: TC5 S/N 352	01-073-2003		Jefferson County DOH 401 14th St. South Room L205 Birmingham, AL 35233	Randy Dillard	205-930-1281 205-960-7817 cell	randy.dillard@jchd.org

		Scheduled Instal								
Install Group	Region	Date	State	Controller/Module/ Pump House/ Flow Calibrator	SiteID/Site Location	City Name/RTI Name, EPA Schedule, & POC	Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
6	4	1/15/2009	AL	Controller: 3N-B0442	01-089-0014	Huntsville	City of Huntsville Natural	Debra Hopson	256-427-5760	Debra.Hopson@hsvcity.com
Ŭ	-	1/13/2009	AL	Module: 3N-B0524	01-089-0014	2201 Airport Rd.	Resources &	Debra Hopson	230-427-3700	Debra. Hopson @ itsverty.com
				Pump House: 3N-B0483		Huntsville, AL	Environmental Mgmt			
				*		Huntsville, AL	320 Fountain Circle			
				Flow Calibrator: TC5 S/N 363		SCHED:	Huntsville, AL 35801			
						POC:5	Huntsville, AL 55801			
	4	1/13/2009	GA		13-059-0001	Athens/Food Science Bldg	Georgia Dept. of Natural	Ken Buckley	404-362-2738	Ken.Buckley@dnr.state.ga.us
6	4	1/15/2009	GA	Controller: 3N-B0508	13-039-0001	0	U X			
				Module: 3N-B0488		Univ. of Georgia	Resources	Jane Wightman	706-247-4362	None given
				Pump House: 3N-B0438		Athens, GA	235 Ansley Drive			
				Flow Calibrator: TC5 S/N 360			Athens, GA 30605			
						SCHED:				
						POC:5				
6	4	1/12/2009	GA	Controller: 3N-B0436	13-089-0002	Atlanta/South Dekalb	Georgia Dept. of Natural	Ken Buckley	404-362-2738	Ken.Buckley@dnr.state.ga.us
				Module: 3N-B0521			Resources	Lawrence Wallace	678-427-4580	None given
				Pump House: 3N-B0462			4244 International Pky.			
				Flow Calibrator: TC5 S/N 362		L	Suite 120			
						SCHED:	Atlanta, GA 30354			
						POC:5				
6	4	1/14/2009	GA	Controller: 3N-B0475	13-115-0005	Rossville Site	Georgia Dept. of Natural	Ken Buckley	404-362-2738	Ken.Buckley@dnr.state.ga.us
				Module: 3N-B0473		601 Maple St. Lot #7	Resources	Jim Harris	706-235-0566	None given
				Pump House: 3N-B0510		Rossville, GA 30741	1068 Barker Rd. SW			
				Flow Calibrator: TC5 S/N 372			Rome, GA 30165			
						SCHED:				
						POC:5				
7	4	2/23/2009	FL	Controller: 3N-B0580	12-011-1002	Davie /Univ. of Fla. Ag. School	Broward County EPD	Monica Pognon	954-519-1476	mpognon@broward.org
				Module: 3N-B0380		3205 SW 70th Ave.	Air Quality Div.		954-290-6753 cell	
				Pump House: 3N-B0366		Davie, FL	3211 College Avenue	Ila Perkins	954-519-1293	
				Flow Calibrator: TC5 S/N 366			Davie, FL 33314		954-914-1825 cell	iperkins@broward.org
				Spare Cont.: 3N-B0397		SCHED:				
				Spare Mod: 3N-B0347		POC:5				
7	4	2/24/2009	FL	Controller: 3N-B0502	12-057-3002	Tampa/Sydney	Air Management Division	Tom Tamanini	813-627-2600x1256	Tamanini@epchc.org
				Module: 3N-B0356		1167 N. Dover Rd.	EPC of HC Roger P.			
				Pump House: 3N-B0372		Tampa, FL	Stewart Center			
				Flow Calibrator: TC5 S/N 425			3629 Queen Palm Drive			
						SCHED:	Tampa, FL 33619-1309			
		2/25/20005	<u></u>		12.050.0002	POC:5		D L (D L ())	220, 122,0050	NT .
7	4	2/25/2009	GA	Controller: 3N-B0406	13-069-0002	General Coffee State Park	Robert Buice	Robert Buice(operator)	229-423-9959	None given
				Module: 3N-B0434		46 John Coffee Road	216 W. Palm St.	(shipping to Robert's		
				Pump House: 3N-B0429		Nicholls, GA 31554	Fitzgerald, GA 31750	home address)	404 262 2720	K D. H. GL
				Flow Calibrator: TC5 S/N 384				Ken Buckley	404-362-2738	Ken.Buckley@dnr.state.ga.us
						SCHED:				
		a /a < /a 0.00	a.		10 015 0001	POC:5	1 (2) 11		404 004 0005	57 · ·
7	4	2/26/2009	GA	Controller: 3N-B0376	13-245-0091	Augusta	Jeffery Williams	Jeffery Williams (operator)	404-281-3085	None given
				Module: 3N-B0398		2216 Bungalow Rd.	402 Normandy Pl.	(shipping to Jeffery's		
				Pump House: 3N-B0435		Augusta, GA 30906	Augusta, GA 30909	home address)	10.1.070.0500	
				Flow Calibrator: TC5 S/N 385				Ken Buckley	404-362-2738	Ken.Buckley@dnr.state.ga.us
						SCHED:				
						POC:5	1			

Install Group	Region	Scheduled Instal Date	State	Controller/Module/ Pump House/ Flow Calibrator	Location	City Name/RTI Name, EPA Schedule, & POC	Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
7	4	2/27/2009	NC	Controller: 3N-B0400 Module: 3N-B0428 Pump House: 3N-B0348 Flow Calibrator: TC5 S/N 365	37-119-0041	Charlotte/Garinger High School 1130 Eastway Dr. Charlotte, NC SCHED: POC:5	Mecklenburg County Air Quality 700 N. Tryon St., Ste. 205 Charlotte, NC 28202	Jeff Francis	704-336-5462 980-721-2042	Jeff.Francis@mecklenburgcountync.gov
8	3	1/13/2009	DE	Controller: 3N-B0472 Module: 3N-B0476 Pump House: 3N-B0519 Flow Calibrator: NONE		Dover Water St. Dover, DE SCHED: POC:5	DNREC-Air Quality Mgmt. 715 Grantham Lane New Castle, DE 19720	Joe Martini	302-323-4542	joseph.martini@state.de.us
8	3	1/12/2009	MD	Controller: 3N-B0487 Module: 3N-B0443 Pump House: 3N-B0525 Flow Calibrator: TC5 S/N 361		Beltsville/HU-Beltsville Howard University's Beltsville Laboratory, 12003 Old Baltimore Pkwy, Beltsville, MD SCHED: POC:5	Maryland Dept. of Env. 1800 Washington Blvd. Beltsville, MD 21230	Ryan Auvil	410-537-3961	rauvil@mde.state.md.us
8	1	1/14/2009	RI	Controller: 3N-B0511 Module: 3N-B0509 Pump House: 3N-B0450 Flow Calibrator: TC5 S/N 370		Providence/Urban League 212 Prairie Ave. Providence, R1 SCHED: POC:5	Rhode Island Dept. of Health Lab 50 Orms St. Providence, RI 02904	Roy Heaton	401-222-5550	<u>roy.heaton@health.ri.gov</u>
9	4	2/12/2009	KY	Controller: 3N-B0520 Module: 3N-B0515 Pump House: 3N-B0387 Flow Calibrator: TC5 S/N 367	21-043-0500	Grayson Lake Camp Webb Grayson Lake, KY SCHED: POC:5	Dept. of Energy & Env. Prot. 200 Fair Oaks Lane Frankfort, KY 40601	Andrea Keatley	502-564-3999	Andrea.Keatley@ky.gov
9	4	2/11/2009	KY	Controller: 3N-B0478 Module: 3N-B0440 Pump House: 3N-B0375 Flow Calibrator: TC5 S/N 373 Spare Cont: 3N-B0388 Spare Mod: 3N-B0362	21-067-0012	Frankfort/ Lexington Health Department 650 Newtown Pike Lexington, KY SCHED: POC:5	Dept. of Energy & Env. Prot. 200 Fair Oaks Lane Frankfort, KY 40601	Andrea Keatley	502-564-3999	Andrea.Keatley@ky.gov
9	5	2/13/2009	ОН	Controller:3N-B0433 Module: 3N-B0371 Pump House: 3N-B0474 Flow Calibrator: TC5 S/N 378	39-087-0012	Ironton, OH 450 Commerce Drive Ironton, OH SCHED: POC:5	Portsmouth Local Air Agency 605 Washington St. Portsmouth, OH 45662 ATTN: D. Pennington	Darrell Pennington	740-353-5156x306	Darrell_Pennington@epa.state.oh.us
9	4	2/10/2009	TN	Controller: 3N-B0409 Module: 3N-B0359 Pump House: 3N-B0528 Flow Calibrator: TC5 S/N 379	47-037-0023	Nashville/Lockeland School 105 S. 17th St. Nashville, TN SCHED: POC:5	Metro Public Health Dept. 311 23rd Ave. N. Nashville, TN 37203	Rob Raney	615-340-5653	Rob.Raney@nashville.goy

Install Group	Region	Scheduled Install Date	State	Controller/Module/ Pump House/ Flow Calibrator	Location		Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
10	8	3/19/2009	со	Controller: Module: Pump House: Flow Calibrator: (Phase I Sampler)	08-077-0017	Powell Building 650 South Ave. Grand Junction, CO SCHED: POC:5	Bradley Rink 4300 Cherry Creek Dr. S. APCD-TS-B1 Denver, CO 80246-1530	Bradley Rink	303-692-3225 303-913-3583 cell	<u>bradley.rink@state.co.us</u>
10	8	3/4/2009	со	Controller: 3N-B0517 Module: 3N-B0479 Pump House: 3N-B0516	08-123-0008	Platteville 1004 Main St. Platteville, CO SCHED: POC:5	Bradley Rink 4300 Cherry Creek Dr. S. APCD-TS-B1 Denver, CO 80246-1530	Bradley Rink	303-692-3225 303-913-3583 cell	bradley.rink@state.co.us
Self- Install	4	shipped 12/2/2008	AL	Controller: 3N-B0382 Module: 3N-B0407 Pump House: 3N-B0453 Flow Calibrator: TC5 S/N 354	01-101-1002	Montgomery/MOMS Division 1350 Coliseum Blvd. Montgomery, AL 36110-2059 SCHED: POC:5	ADEM - Field Operations Division 1350 Coliseum Blvd. Montgomery, AL 36110-2059	Michael Malaier	334-260-2747	mml@adem.state.al.us
Self- Install	5	shipped 12/4/2008	IN	Controller: 3N-B0448 Module: 3N-B0374 Pump House: 3N-B0504 Flow Calibrator: TC5 S/N 364	18-037-2001	Jasper/Jasper Post Office 200 W. 6th St. Jasper, IN SCHED: POC:5	Dept. of Environmental Management 2525 N. Shadeland Ave. Bldg. 21, Suite 100 Indianapolis, IN 46219	John Wicker	317-308-3257	JWICKER@idem.IN.gov
Self- Install	5	shipped 12/5/2008	IN	Controller: 3N-B0496 Module: 3N-B0485 Pump House: 3N-B0486 Flow Calibrator: TC5 S/N 347	18-039-0003	Elkhart/ Elkhart Pierre Moran School 200 W. Lusher Ave. Elkhart, IN SCHED: POC:5	Dept. of Environmental Management 2525 N. Shadeland Ave. Bldg. 21, Suite 100 Indianapolis, IN 46219	John Wicker	317-308-3257	JWICKER@idem.IN.gov
Self- Install	5	shipped 12/5/2008	IN	Controller: 3N-B0493 Module: 3N-B0527 Pump House: 3N-B0498 Flow Calibrator: TC5 S/N 351	18-065-0003	Middletown/Shenandoah High School 7354 W. US 36 Middletown, IN SCHED: POC:5	Dept. of Environmental Management 2525 N. Shadeland Ave. Bldg. 21, Suite 100 Indianapolis, IN 46219	John Wicker	317-308-3257	JWICKER@idem.IN.gov
Self- Install	5	shipped 12/5/2008	IN	Controller: 3N-B0526 Module: 3N-B0497 Pump House: 3N-B0468 Flow Calibrator: TC5 S/N 357	18-163-0012	Evansville/Mill Road 425 West Mill Rd./ Firestation #17 Evansville, IN SCHED: POC:5	Dept. of Environmental Management 2525 N. Shadeland Ave. Bldg. 21, Suite 100 Indianapolis, IN 46219	John Wicker	317-308-3257	JWICKER@idem.IN.gov
Self- Install	6	shipped 2/12/2009	LA	Controller: 3N-B0373 Module: 3N-B0389 Pump House: 3N-B0369 Flow Calibrator: TC5 S/N 412	22-015-0008	Shreveport Airport 1425 Airport Drive Shreveport, LA SCHED: POC:5	LADEQ 1525 Fairfield, Room 520 Shreveport, LA 71101-4388 ATTN: Joel Harris	Joel Harris	318-676-7781	joel.harris@la.gov

Install Group	Region		State	Controller/Module/ Pump House/ Flow Calibrator	Location		Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
Self- Install	6	2/12/2009	LA	Controller: 3N-B0355 Module: 3N-B0419 Pump House: 3N-B0393 Flow Calibrator: TC5 S/N 394	22-033-0009	Baton Rouge / Capitol 1061-A Leesville Ave. Baton Rouge, LA SCHED: POC:5	LADEQ Air Analysis Section 602 North 5th St. Baton Rouge, LA 70802 ATTN: Corey Parent	Cory Parent	225-765-2663	<u>cory.parent@la.gov</u>
Self- Install	7	1/14/2009	мо	Controller: 3N-B0505 Module: 3N-B0506 Pump House: 3N-B0522 Flow Calibrator: TC5 S/N 377	29-047-0005	Liberty Hwy 33 & County Home Rd. Liberty, MO ZIPCODE SCHED: POC:5	Missouri Dept. of Natural Resources 2710 W. Main St. Jefferson City, MO 65109 ATTN: Tyson Wehmeyer	Tyson Wehmeyer	573-526-3347	<u>tyson.wehmeyer@@dnr.mo.gov</u>
Self- Install	7	1/14/2009	мо	Controller: 3N-B0457 Module: 3N-B0446 Pump House: 3N-B0480 Flow Calibrator: TC5 S/N 379	29-099-0012	Amold/R&P Amold, MO ZIPCODE SCHED: POC:5	Missouri Dept. of Natural Resources 2710 W. Main St. Jefferson City, MO 65109 ATTN: Tyson Wehmeyer	Tyson Wehmeyer	573-526-3347	<u>tyson.wehmeyer@@dnr.mo.gov</u>
Self- Install	6	shipped 1/6/2009 shipped 2/13/2009	NM	Controller: 3N-B0412 Module: 3N-B0353 Pump House: 3N-B0477 Flow Calibrator: TC5 S/N 371 Controller: 3N-B0367	35-001-0023	Albuquerque/Del Norte HS 4700 San Mateo NE Albuquerque, NM SCHED: POC:5	City of Albuquerque Environmental Health Dept. 11850 Sunset Gardens SW Albuquerque, NM 87121 ATTN: Dwayne Salisbury	Fabian Macias Dwayne Salisbury	505-768-1969 505-768-1973 fax 505-768-1966 505-768-1977 fax	fmacias@cabq.gov dsalisbury@cabq.gov_
Self- Install	2		NY	Controller: 3N-B0490 Module: 3N-B0491 Pump House: 3N-B0447 Flow Calibrator: TC5 S/N 349	36-001-0005	Albany County Healt Dept. Green & Ferry Streets Albany, NY SCHED: POC:5	Bureau of Air Quality Surveillance I University Place D305 Rennsselaer, NY 12144	Mike Walsh	518-525-2717	mpwalsh@gw.dec.state.ny.us
Self- Install	2	shipped 12/9/2008	NY	Controller: 3N-B0460 Module: 3N-B0494 Pump House: 3N-B0501 Flow Calibrator: TC5 S/N 350	36-029-0005	Buffalo Trailer, 185 Dingens St. Buffalo, NY SCHED: POC:5	Bureau of Air Quality Surveillance 1 University Place D305 Rennsselaer, NY 12144	Mike Walsh	518-525-2717	mpwalsh@gw.dec.state.ny.us
Self- Install	2	shipped 12/9/2008	NY	Controller: 3N-B0469 Module: 3N-B0512 Pump House: 3N-B0492 Flow Calibrator: TC5 S/N 359	36-031-0003	Whiteface Mountain Base of mountain ASRC, SUNY SCHED: POC:5	Bureau of Air Quality Surveillance 1 University Place D305 Rennsselaer, NY 12144	Mike Walsh	518-525-2717	mpwalsh@gw.dec.state.ny.us
Self- Install	2	shipped 12/9/2008	NY	Controller: 3N-B0499 Module: 3N-B0503 Pump House: 3N-B0444 Flow Calibrator: TC5 S/N 358	36-055-1007	Rochester Primary 30 Yarmouth Rd. Rochester, NY SCHED: POC:5	Bureau of Air Quality Surveillance 1 University Place D305 Rennsselaer, NY 12144	Mike Walsh	518-525-2717	mpwalsh@gw.dec.state.ny.us

Install Group	Region	Scheduled Install Date	State	Controller/Module/ Pump House/ Flow Calibrator	SiteID/Site Location	City Name/RTI Name, EPA Schedule, & POC	Shipping Address	Contact Name(s)	Contact Phone(s)	Contact E-mail(s)
Self- Install	2	shipped 12/16/2008	NY	Controller: 3N-B0466 Module: 3N-B0470 Pump House: 3N-B0507 Flow Calibrator: TC5 S/N 427	36-081-0124	New York/ Queens College 14439 Gravett Road New York, NY SCHED: POC:5	NY DEC-BAQS Reg.2 Annex 11-15 47th Avenue Long Island, NY 11101	Ed Marion	718-482-6609	None given
Self- Install	2	shipped 12/9/2008 Shipped 4/9/09	NY	Controller: 3N-B0481 Module: 3N-B0461 Pump House: 3N-B0459 Flow Calibrator: TC5 S/N 348 Flow Calibrator: TC5 S/N 374	36-101-0003	Pinnacle State Park 1904 Pinnacle Road NY SCHED: POC:5	Bureau of Air Quality Surveillance I University Place D305 Rennsselaer, NY 12144	Mike Walsh	518-525-2717	mpwalsh@gw.dec.state.ny.us
Self- Install	6	shipped 1/28/2009	тх	Controller: 3N-B0523 Module: 3N-B0500 Pump House: 3N-B0513 Flow Calibrator: TC5 S/N 368	48-113-0069	Dallas Hinton 1415 Hinton Street Dallas, TX SCHED: POC:5	TCEQ 12100Park 35 Circle Building B Austin, TX 78753 ATTN: Kristin Bourdon	Kristin Bourdon	512-239-0883	kbourdon@TCEQ.state.tx.us
Self- Install	6	shipped 1/28/2009	тх	Controller: 3N-B0385 Module: 3N-B0437 Pump House: 3N-B0465 Flow Calibrator: TC5 S/N 376	48-141-0044	El Paso/Chamizal 800 S. San Marcial Street El Paso, TX SCHED: POC:5	TCEQ 12100Park 35 Circle Building B Austin, TX 78753 ATTN: Kristin Bourdon	Kristin Bourdon	512-239-0883	kbourdon@TCEQ.state.tx.us
Self- Install	6	shipped 1/28/2009	ТХ	Controller: 3N-B0445 Module: 3N-B0518 Pump House: 3N-B0471 Flow Calibrator: TC5 S/N 369	48-201-1039	Deer Park 4514 1/2 Durant Street Deer Park, TX SCHED: POC:5	TCEQ 12100Park 35 Circle Building B Austin, TX 78753 ATTN: Kristin Bourdon	Kristin Bourdon	512-239-0883	kbourdon@TCEQ.state.tx.us
Self- Install	6	shipped 1/28/2009	ТХ	Controller: 3N-B0514 Module: 3N-B0498 Pump House: 3N-B0489 Flow Calibrator: NONE	48-201-1039	Deer Park 2 4514 1/2 Durant Street Deer Park, TX SCHED: POC:5	TCEQ 12100Park 35 Circle Building B Austin, TX 78753 ATTN: Kristin Bourdon	Kristin Bourdon	512-239-0883	kbourdon@TCEQ.state.tx.us
Self- Install	6	shipped 1/28/2009	ТХ	Controller: 3N-B0451 Module: 3N-B0467 Pump House: 3N-B0441 Flow Calibrator: NONE	48-203-0002	Carnac Hwy. 134 & Spur 449 Carnac, TX SCHED: POC:5	TCEQ 12100Park 35 Circle Building B Austin, TX 78753 ATTN: Kristin Bourdon	Kristin Bourdon	512-239-0883	kbourdon@TCEQ.state.tx.us
Self- Install	4		NC	Flow Calibrator: TC5 S/N 298	37-067-0022		Forsyth County Environmental Affairs Dept. 537 N. Spruce St. Winston-Salem, NC 27101 ATTN: Patrick Reagan	Pat Reagan	336-703-2440	reaganpa@forsyth.cc