



Mailing Address:
1 Baldwin Street
Drawer 33
Montpelier, Vermont 05633-5701

Tel.: (802) 828-2295
Fax: (802) 828-2483

STATE OF VERMONT
JOINT FISCAL COMMITTEE
1 Baldwin Street
Montpelier, Vermont 05633-5701

MEMORANDUM

To: James Reardon, Commissioner of Finance & Management

From: Rebecca Buck, Staff Associate *RB*

Date: September 22, 2006

Subject: Status of Position Request

No Joint Fiscal Committee member has requested that the following item be held for review:

JFO #2269 – Request from the Department of Environmental Conservation to establish two (2) new limited service positions: one (1) Environmental Technician III and one (1) Environmental Scientist III. These sponsored positions are 100% federally funded and associated with a continuing U.S. Environmental Protection Agency, National Air Toxics Assessment grant.

[JFO received 08/23/06]

In accordance with 32 V.S.A. §5, the requisite 30 days having elapsed since this item was submitted to the Joint Fiscal Committee, the Governor's approval may now be considered final. We ask that you inform the Secretary of Administration and your staff of this action.

cc: Linda Morse
Canute Dalmasse
Jeffrey Wennberg
Molly Paulger
Jenny Audet

From: "Raycraft, Joanna" <Joanna.Raycraft@state.vt.us>
To: "Michael Obuchowski" <obie@leg.state.vt.us>
Date: 8/31/2006 4:37:42 PM
Subject: RE: A couple of questions regarding JFO #2269

Rep. Obuchowski,

After speaking with Harold Garabedien who is the Project Officer for this study I have more clarity on the ownership of the equipment at the project completion. EPA actually has ownership of the equipment and we must request from them permission to keep the equipment at the end of the project. If permission is granted, which historically has typically been the case, this equipment is to be used on other Federal monitoring projects.

With that piece better clarified, this particular air quality monitoring equipment as mentioned in the scope will be used to better understand how Benzene and other hazardous air pollutants are affecting air quality in Burlington, VT. And from that, DEC will base decisions regarding controls of this air contaminate upon sound scientific information.

We can't fully speculate at this point that we would even be granted permission to keep the equipment once the project is completed. If we were however, whether the instrument would need to be replaced at the end of its useful (10 years forward) will depend upon the our findings from this study (is the consequence of the levels Vermonters are breathing of health significance?), and what measure might be taken (is it necessary to track air quality improvement by this means?).

Therefore the complete answers to these questions are somewhat unknown at this time, as well as what alternatives might exist a decade from now due to the issues described above. Please let me know should you any additional questions.

Thank you again,
Joanna Raycraft
Business Manager
Dept. of Environmental Conservation
802-241-3810
joanna.raycraft@state.vt.us

-----Original Message-----

From: Michael Obuchowski [mailto:obie@leg.state.vt.us]
Sent: Thursday, August 31, 2006 3:34 PM
To: Raycraft, Joanna
Cc: Rebecca Buck
Subject: RE: A couple of questions regarding JFO #2269

Regarding the question 2 answer, is it expected that the equipment will have to be replaced at the end of its useful life? How? Or will Vermont go without?

>>> "Raycraft, Joanna" <Joanna.Raycraft@state.vt.us> 8/31/2006 12:15 PM

>>>

Good Afternoon Everyone,

Please find below the response to questions concerning the equipment budget involved in our request for 2 new limited service positions (JFO #2269). Should you have any questions, or require additional information please do not hesitate contact me directly.

Thank you so much,

Joanna Raycraft
Business Manager
Dept. of Environmental Conservation
802-241-3810
joanna.raycraft@state.vt.us

-----Original Message-----

From: Rebecca Buck [mailto:rbuck@leg.state.vt.us]
Sent: Wednesday, August 30, 2006 10:47 AM
To: Raycraft, Joanna
Cc: Martha Heath; Michael Obuchowski; Steve Klein
Subject: A couple of questions regarding JFO #2269

Good morning Joanna:

JFO #2269 is requesting approval for 2 new limited service positions.

These positions are being requested in connection with additional funding providing for a benzene study in the Burlington area through a continuing EPA air toxics assessment grant. The following are questions that have arisen regarding the grant to support this study:

1) In the accompanying budget detail for this project, the amount budgeted for equipment is \$151,850. This seems like a fairly high amount when considering the project has a total budget of \$499,975. Is there any information you could provide regarding the cost of this equipment?

As you know, the Environmental Protection Agency (EPA) has awarded the Vermont Air Pollution Control Division (APCD) \$499,975 to study benzene concentrations, as well as other hazardous air pollutants in Burlington, VT. The EPA has approved our budget for this project, including our proposed equipment purchases for this study. The air toxics monitoring equipment is highly specific and technical, and only offered by a few manufacturers. The equipment costs for this large project are in-line with expected costs for air toxics monitoring. Please find attached for your reference detailed information on a few of the proposed equipment purchases listed in the budget and some initial quotes (BTX Analyser Sampler, Canister Automated Timers, SUMMA SilocoCan Canisters).

<<BTX Analyser Sampler.pdf>> <<Canister Automated Timers.pdf>>
<<SUMMA Canisters.pdf>>

2) While this equipment is being purchased to support this specific project, what happens to this equipment when this project is completed?

At the end of the project period, we keep and use the new equipment for the rest of its useful life, which is approximately 10 years in most cases.

Please cc Representatives Health and Obuchowski and Steve Klein on your response to me. Thanks. --Becky

CC: "Rebecca Buck" <RBUCK@leg.state.vt.us>, "Steve Klein" <SKLEIN.LCPO1.VTLC@leg.state.vt.us>

From: "Raycraft, Joanna" <Joanna.Raycraft@state.vt.us>
To: "Rebecca Buck" <rbuck@leg.state.vt.us>
Date: 8/31/2006 3:18:13 PM
Subject: RE: A couple of questions regarding JFO #2269

Good Afternoon Everyone,

Please find below the response to questions concerning the equipment budget involved in our request for 2 new limited service positions (JFO #2269). Should you have any questions, or require additional information please do not hesitate contact me directly.

Thank you so much,

Joanna Raycraft
Business Manager
Dept. of Environmental Conservation
802-241-3810
joanna.raycraft@state.vt.us

-----Original Message-----

From: Rebecca Buck [mailto:rbuck@leg.state.vt.us]
Sent: Wednesday, August 30, 2006 10:47 AM
To: Raycraft, Joanna
Cc: Martha Heath; Michael Obuchowski; Steve Klein
Subject: A couple of questions regarding JFO #2269

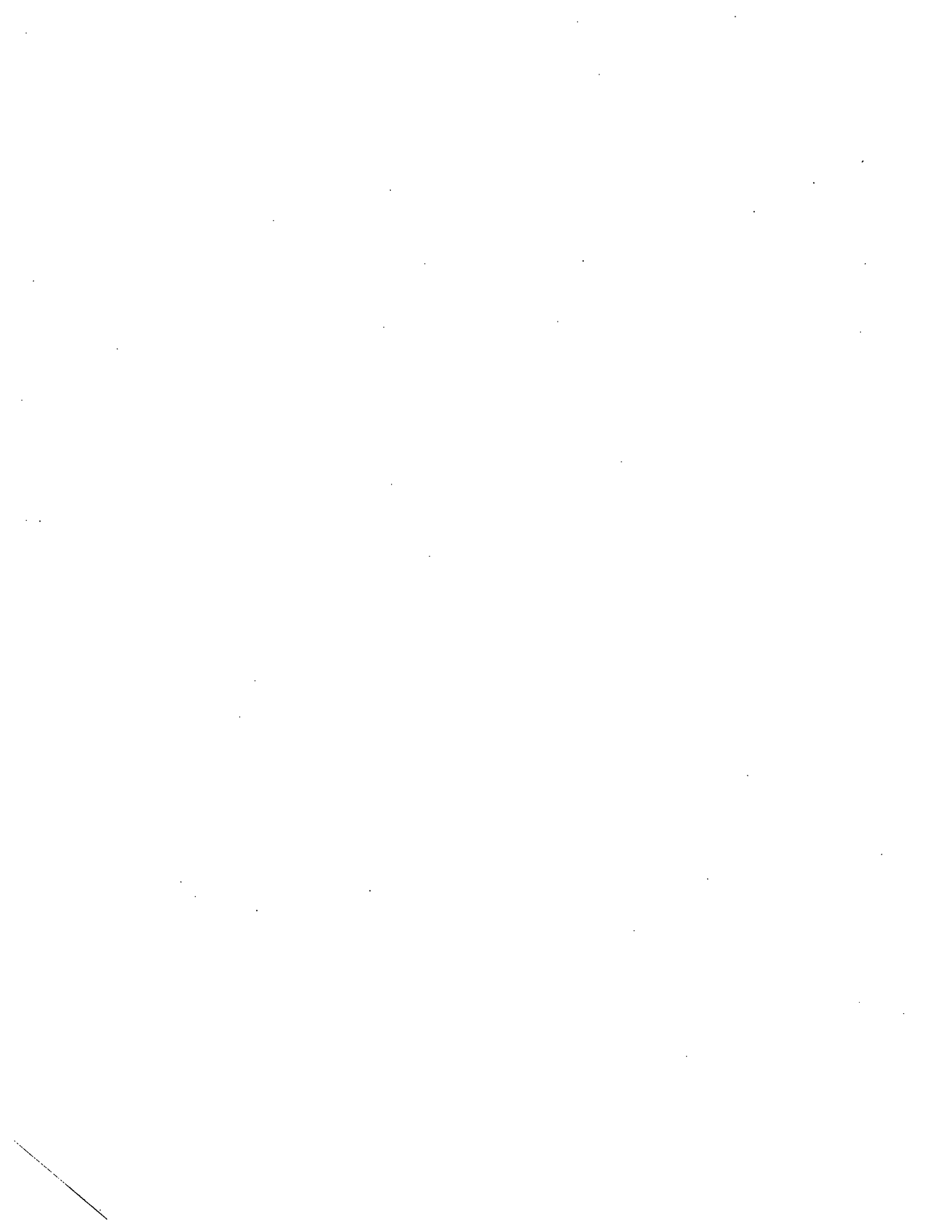
Good morning Joanna:

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<<BTX Analyser Sampler.pdf>> <<Canister Automated Timers.pdf>>



<<SUMMA Canisters.pdf>>

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At the end of the project period, we keep and use the new equipment for the rest of its useful life, which is approximately 10 years in most cases.

Please cc Representatives Heath and Obuchowski and Steve Klein on your response to me. Thanks. --Becky

CC: "Martha Heath" <MPHeath@aol.com>, "Michael Obuchowski" <OBIE.LCPO2.VTLC@leg.state.vt.us>, "Steve Klein" <SKLEIN.LCPO1.VTLC@leg.state.vt.us>

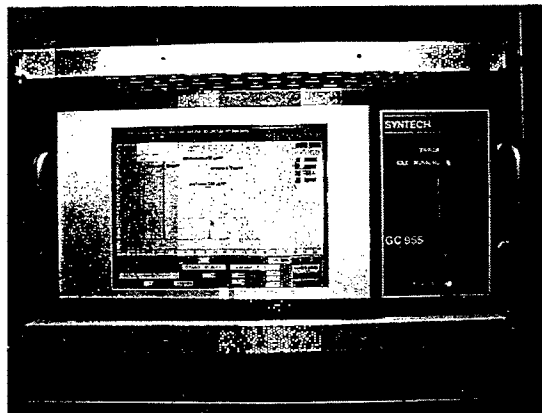


The Syntech Spectras GC955 series 600 BTX analyser

The Syntech Spectras GC955 series 600 BTX analyser is built for the measurement of benzene, toluene and xylene isomers in ambient air.

In the European regulations measurement of benzene in ambient air is now obligatory. The concentration of benzene varies from under 1 to above 100 micrograms per m³.

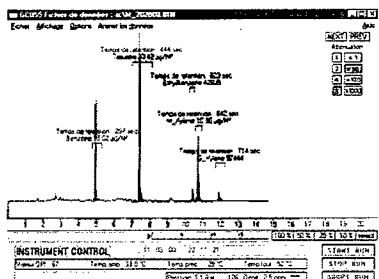
For authorities wanting to measure benzene our instrument is the ideal choice: our instruments are not only designed for the analyst working in the laboratory, but especially for the technician working in a field station or at a control panel. Specialised chemical knowledge is not necessary.



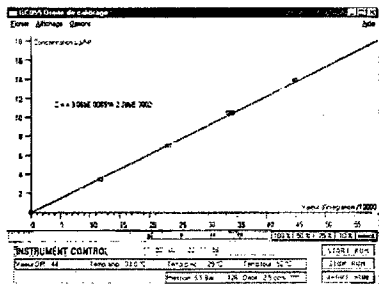
The instrument is a gaschromatograph with a built-in preconcentration system. Hydrocarbons are preconcentrated on Tenax GR, desorbed thermally and separated on an EPA624 equivalent column, to reach optimal separation from interfering hydrocarbons. Analysis is done by a photo ionisation detector. This ensures a high specific sensitivity for benzene and other aromatic hydrocarbons. The new Syntech Spectras GC955 has a higher sensitivity.

In the GC a standard industrial PC with Windows is used. This means that the whole PC structure is available to handle also the results of measurements: data are interpreted and saved on the internal hard disk. Data can also be transferred by network and modem connection. Besides this, analog and digital output options are available to communicate with other data logging systems using several data protocols.

Simple operation, good reliability and low maintenance cost are important to us. With a network of distributors in and outside of Europe you can be sure that your instrument comes complete with an individualised training and that support is available to help if you do encounter problems. The new Syntech Spectras GC955 works on only one gas, nitrogen, using a very small quantity.




Chromatogram of a measurement of BTX in France, 1999



Calibration in the range of 0 to 18 µg / m³

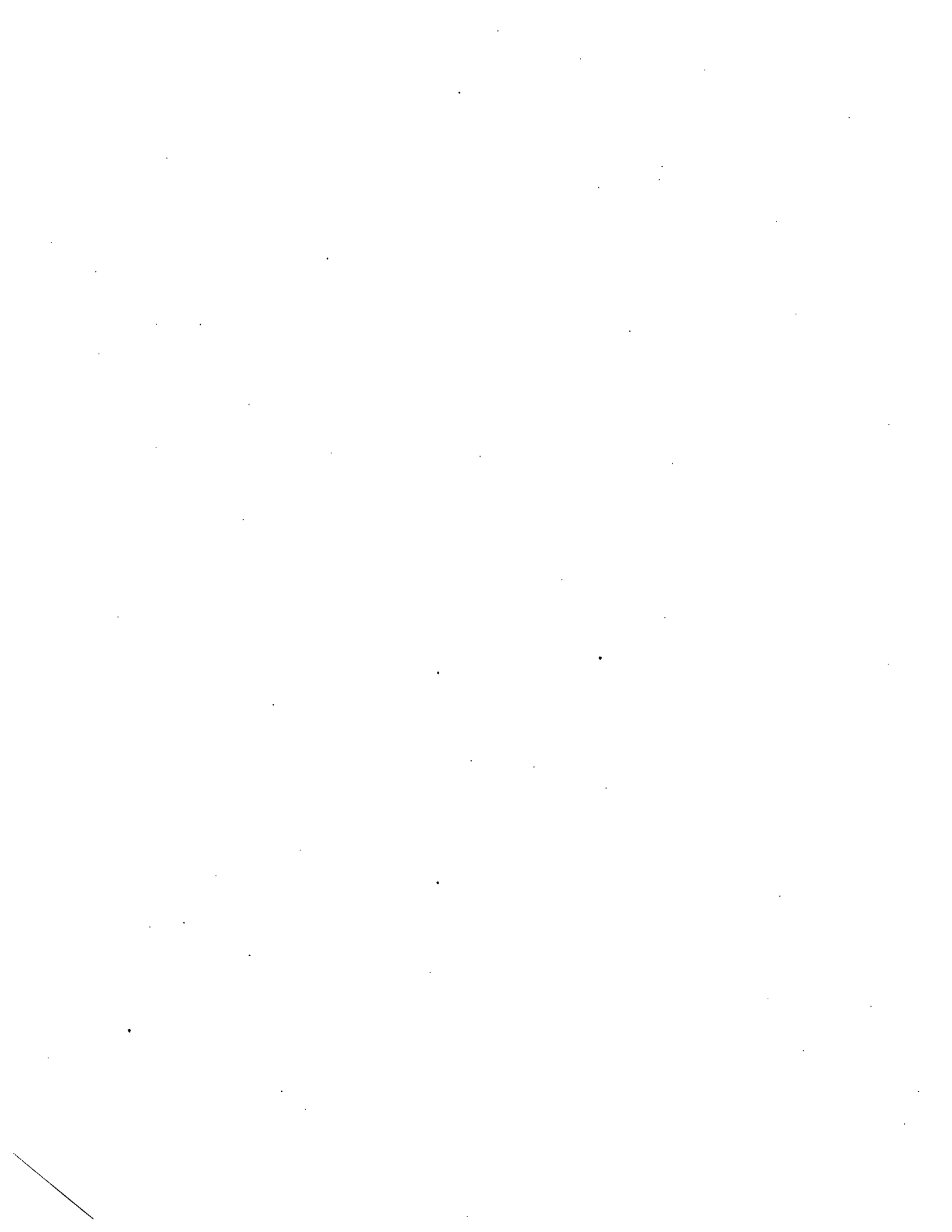
601 BENZENE, toluene and xylenes in air.	PID detector. Lowest detection level for benzene 0.1 µg/m ³ (0.03 vppb). Range: up to 300 ppb. <i>Included items: SERIES 600, column AT624 15m, 0.32 mm ID, 1.8 µm film, cycle time 15 min, temp program 50 - 70 °C</i>
reproducibility	typical <3% at 1 ppb (benzene, with capillary column)
consumption of gas	instrument air: none! Nitrogen: quality 5.0, 4 bar, 6 ml/min
dimensions	19" rack, 5 standard Height Units, depth 37.2 cm net
power demand	220 V AC, 100 VA (110 V AC available)
included hardware	computer Pentium, (300 Mhz, ≥32Mb RAM, >20Gb; 2.5 " harddisk, 10 " colour TFT -LCD display, 1/0 2 x PS2, 3X RS232, 2X USB, Ethernet R145 10/100 Mbit
included software	Windows 98™, control of instrument: direct control via keyboard or mouse, or via remote host (RS232 / modem), data exchange protocols available on demand
Option	Two GC -systems can be controlled by one PC



	WTS, LLC Wilbur Technical Services, LLC 5 Northern Blvd Unit 14 Amherst, NH 03031 Phone: 603-880-7100 Fax: 603-880-3157	Quote #: QWTS- 06073R1

Robert Lacaillade VT Air Pollution Control Building 3 South 103 South Main Street Waterbury, VT 05671-0402	Phone: 802-241-3852 Fax: 802-241-2590 Email: robert.lacaillade@state.vt.us	Date: August 1, 2006 Rep.: John J. Wilbur Delivery:
-------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------	-----------------------------------------------------------

Qty.	Part #	Description	Price	Extended Price
1	GC955	601 BTX Analyzer	\$30,460.00	\$30,460.00
		601 Benzene, Toluene and Xylenes in Air		
		reproducibility		
		consumption of gas		
		dimensions		
		power demand		
		included hardware		
		included software		
		PID detector. Lowest detection level for Benzene 0.1 ug/m ³ (0.03 vppb) Range: up to 300ppb typical < 3% at 1 ppb (benzene with capillary column) Nitrogen: quality 5.0, 4 bar, 6ml/min. 19" rack, 5 standard height units, depth 37.2 cm net 220 VAC, 100 VA (110 VAC available) computer Pentium, 300 Mhz, 32Mb RAM, > 20Gb 2.5 harddisk, 10" color TFT-LCD display, I/O 2xPS2, 3x RS232, 2x USB, Ethernet R145 10/100 Mbit Windows XP Two GC systems can be controlled by embedded PC		
16 hr.	TLBR	On-site Labor	\$110.00	\$1,760.00
		Travel from Amherst, NH to Waterbury, VT		
6 hr.	TRAV	Waterbury, VT	\$90.00	\$540.00
2	PDON	Per diem with overnight	\$210.00	\$420.00
158mi.	MLG	Mileage	\$0.51	\$80.58
Total				\$33,260.58





QUOTE

Page: 1

2207 AGATE COURT
 SIMI VALLEY, CA 93065
 (805) 527-5939

ORDER NUMBER: 0129938
 QUOTE DATE: 4/14/2006

SALESPERSON: IDON
 CUSTOMER NO: VE001

QUOTE TO:
 VT AGENCY OF NAT'L RESOURCES
 103 S. MAIN ST., BLDG. 1 SOUTH
 ATTN: ACCOUNTS PAYABLE
 WATERBURY, VT 05671-0401
 CONFIRM TO:

BILL TO:
 VT AGENCY OF NAT'L RESOURCES
 103 S. MAIN ST., BLDG. 1 SOUTH
 ATTN: ACCOUNTS PAYABLE
 WATERBURY, VT 05671-0401

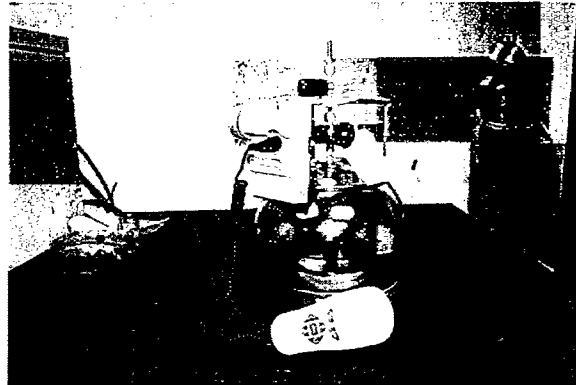
CUSTOMER P.O.	SHIP VIA BEST WAY	F.O.B.	Quote Good for 60 Days			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	PRICE	AMOUNT	
01-39-TM1100	WEEKLY TIMER FOR CS1200 Weekly Timer. Allows automated start/stop during canister sampling. Includes valve and programmable controller. Requires Field Programmer (39-TM1100P) to program. Requires CS1200E or similar. S/N's:	EACH	10.00	850.00	8,500.00	
01-39-TM1100P	Programmer for TM1100 Field Programmer for TM1100. May be used to program several TM1100. Should not be left in the field with the TM1100 after downloading or uploading method.	EACH	5.00	425.00	2,125.00	
01-39-CS1200E	CS1200E Sampler- No Restrictor CS1200 Env. Sampler- No Restrictor.	EACH	10.00	595.00	5,950.00	

SHIPPING & HANDLING CHARGES ARE ESTIMATED

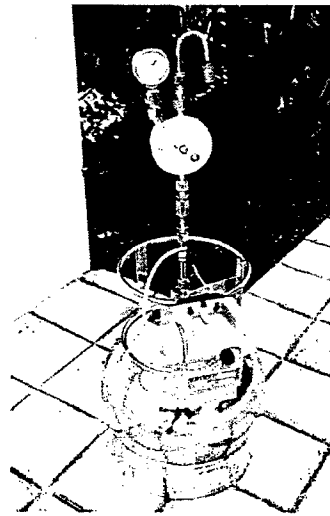
TERMS: Net 30 days

Net Order: 16,575.00
 Less Discount: 0.00
 Freight: 300.00
 Sales Tax: 0.00
 Order Total: 16,875.00

TM1100 AUTOMATED START/STOP TIMER



TM1100 Controller with 6L canister and Transmitter, ready to program in the field or in the lab



TM1100 Controller with 6L canister configured for time integrated sampling with a CS1200 Flow Controller



TM1100 Controller with 6L canister configured for grab sampling with a Silonite coated inlet line and filter



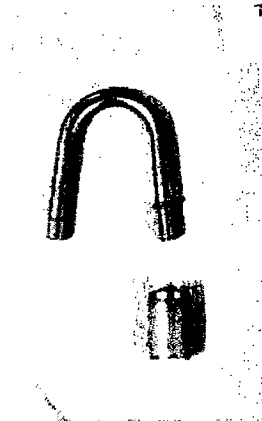
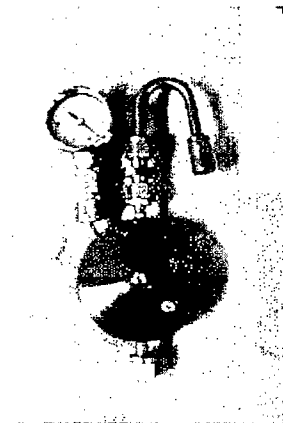
Entech Instruments, Inc.

CS1200E & CS1200ES- Passive Canister Samplers

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Features

- Accurate fill of 6L stainless steel canisters with integration times from 1 hour to 1 week
- Fill 400cc MiniCans in 3 minutes to 8 hours
- Gauge built into controller for compact operation
- Welded & passivated connections are leak tight and cleanup faster than the tape seals found on most samplers.
- Sapphire flow elements provide stable operation form 0† C to 40† C
- 5µm Silonite coated stainless steel filters maintain an inert flow path while eliminating particles
- Separate purge port for fast cleanup without removing the restrictor
- Compatible with TM1000 battery operated digital timer for automated start/stop field sampling
- CS1200ES Silonite™ coating for sulfur and formaldehyde applications
- Entech's inovative sampler design offers the shortest flowpath of any sampler. This miniminses contact with the sample and makes it easy to clean. Filters and inlet lines are easily removed for cleaning, without the need to retape connections. A high speed purge port lets you clean the sampler without removing the restrictor.



Specifications

Inlet pressure:	Atmospheric
Outlet Pressure:	30"Hg - 0 psig
Temperature Range	-10† C to 45† C
Weight	1.6 lbs.

CS1200E - Passive Canister Sampler Includes:

Description	Part Number
Flow Cell/Controller	39-CS1200E
Flow Element/Restrictor	see below

CS1200ES-Passive Canister Sampler Includes:

Description	Part Number
Flow Cell/Controller - Silonite Coated	39-CS1200ES
Flow Element/Restrictor	see below

Entech Instruments, Inc. - CS1200E & CS1200ES- Passive Canister Samplers

Page 2 of 2

30" Hg Vacuum Gauge	39-27500	30" Hg Vacuum Gauge	39-27500
1/4" Stainless Steel Inlet w/ Silonite coated filter	39-CS1200E-02	1/4" Silonite coated Stainless Steel Inlet w/ Silonite coated filter	39-CS1200ES-02

Flow Restrictors: Fill Rates vs Canister Volume

Part Number	Code	Flow Range	0.4 L	1.0 L	2.7 L	3.2 L	6.0 L
39-23010	.1	160 cc/min to 40 cc/min	2 min to 10 min	6 min to 25 min	16 min to 67 min	20 min to 80 min	37min to 2.5 hr
39-23030	.2	54cc.min to 13.5cc.min	7 min to 29 min	18 min to 74 min	50 min to 3.3 hr	1 hr to 3.9 hrs	2 hrs to 7.4 hr
39-23080	.3	20cc/min to 5cc/min	20 min to 80 min	50 min to 3.3 hrs	2.2 hr to 9 hr	2.6 hr to 10.6 hrs	5 hr to 20 hr
39-23240	.4	6.8cc/min to 1.7cc/min	58 min to 3.9 hr	2.4 hrs to 9.8 hrs	6.6 hr to 26.5 hrs	7.8 hr to 31.3 hrs	14.7 hr to 2.4 day
39-24010	.5	1.2cc/min to 0.6cc/min	5.5 hrs to 10 hr	13.8 hrs to 24 hr	37.5 hrs to 3 days	44.4 hr to 3.5 days	3.5 days to 7 days

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SilcoCan™ Air Monitoring Canisters

Page 1 of 3

6 L CANISTERS



Turning Visions into Reality

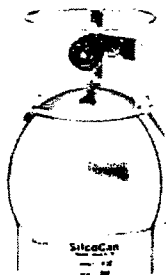
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SilcoCan™ Air Monitoring Canisters

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- High quality, metal-to-metal seal, 2/3-turn valve with stainless steel diaphragms.
- Sizes to support a wide range of sampling needs.
- Optional 3-port valve and optional 30" Hg/60psig vacuum/pressure gauge (other ranges available).
- Unsurpassed inertness, even for sulfur-containing or brominated compounds.
- For critical applications, order a Siltek® treated valve - add suffix "-650" to the catalog number of the canister.

<p>Siltek® treated.</p> <p>High-purity, 2/3-turn valve with stainless steel diaphragms.</p> <p>Vacuum/pressure gauge (optional).</p> <p>Variety of sizes.</p> <p>Stable to 250°C.</p> <p>Siltek® valve available (add suffix "-650" to cat.#).</p>	<p>High inertness--ensures sample stability.</p> <p>No sample adsorption at the valve, for more accurate results; easy to use.</p> <p>Ascertain internal conditions at a glance.</p> <p>Meet extensive range of sampling needs.</p> <p>Heat canister to 250°C for superior cleaning.</p> <p>Completely passive sample pathway ensures sample stability.</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

For ultimate inertness, we treat SilcoCan™ air monitoring canisters with our unique Siltek® passivation technology. Even highly active components, at low parts-per-billion concentrations, can be readily sampled and stored

without loss. The valve is a high quality, metal-to-metal seal, 2/3-turn valve with metal diaphragms. Both stainless steel and Siltek® treated valves are available, in both the 2-port and 3-port configurations.

Whether you are monitoring for TO-14, TO-15, or reactive sulfur compounds, SilcoCan™ canisters are your best choice for stability and inertness. In Tedlar® bags, the stability of low-level (100ppbv) sulfur VOCs is poor, even within 24 hours of sampling.¹ Sulfur compounds react with the metal surface in electropolished canisters, so these canisters are unsuitable for collecting and storing low-level sulfur VOCs.² SilcoCan™ air monitoring canisters, which feature a Siltek® treated surface, offer excellent storage stability for sulfur VOCs at very low levels (1--20ppbv), under dry or humid conditions (Figure 1). The versatility of the SilcoCan™ canister makes it an excellent choice for collecting and storing TO-14 or TO-15 compounds (Figure 2).

Literature of Interest:

- AppNotes: [59347A Study of Reactive Sulfurs in SilcoCan Canisters](#)
 FastFacts: [59276B Environmental Gas Analytical Reference Mixes](#)
 Flyers: [59011A Improved SilcoCan Canisters](#)
 Flyers: [59290B Passive Air Sampling Kits](#)
 TechGuides: [59977B Guide to Passive Air Sampling](#)

Chromatogram

Description	Volume	qty.	Cat.#	Price	Wish list	Cart
SilcoCan™ Canister, 1/4" Valve	1L	ea.	24180	\$531.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister, Siltek® Treated 1/4" Valve	1L	ea.	24180-650	\$586.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with Gauge, 1/4" Valve	1L	ea.	24140	\$733.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with Gauge, Siltek® Treated 1/4" Valve	1L	ea.	24140-650	\$788.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with No Valve	1L	ea.	22090	\$324.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister, 1/4" Valve	3L	ea.	24181	\$551.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister, Siltek® Treated 1/4" Valve	3L	ea.	24181-650	\$606.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with Gauge, 1/4" Valve	3L	ea.	24141	\$753.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with Gauge, Siltek® Treated 1/4" Valve	3L	ea.	24141-650	\$808.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with No Valve	3L	ea.	22091	\$349.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister, 1/4" Valve	6L	ea.	24182	\$571.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister, Siltek® Treated 1/4" Valve	6L	ea.	24182-650	\$627.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with Gauge, 1/4" Valve	6L	ea.	24142	\$773.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with Gauge, Siltek® Treated 1/4" Valve	6L	ea.	24142-650	\$829.00	<input type="checkbox"/>	<input type="checkbox"/>
SilcoCan™ Canister with No Valve	6L	ea.	22092	\$404.00	<input type="checkbox"/>	<input type="checkbox"/>

SilcoCan™ Air Monitoring Canisters

Page 3 of 3

SilcoCan™ Canister, 1/4" Valve	15L	ea.	24183	\$884.00	☐	☐
SilcoCan™ Canister, Siltek® Treated 1/4" Valve	15L	ea.	24183-650	\$940.00	☐	☐
SilcoCan™ Canister with Gauge, 1/4" Valve	15L	ea.	24143	\$1086.00	☐	☐
SilcoCan™ Canister with Gauge, Siltek® Treated 1/4" Valve	15L	ea.	24143-650	\$1142.00	☐	☐
SilcoCan™ Canister with No Valve	15L	ea.	22093	\$758.00	☐	☐
1/4" Replacement Valve (2-port)		ea.	24145	\$218.00	☐	☐
1/4" Replacement Valve (3-port)		ea.	24147	\$228.00	☐	☐
1/4" Siltek® Replacement Valve (2-port)		ea.	24144	\$238.00	☐	☐
1/4" Siltek® Replacement Valve (3-port)		ea.	24146	\$253.00	☐	☐

Restek canisters are originally equipped with high-quality Parker Hannifin diaphragm valves. Each valve is helium leak-tested to 4×10^{-9} cc/sec. The all-stainless steel construction eliminates contamination and withstands temperatures from -100°C to 250°C. Compression outlet fitting, indicator plate to display open or closed position, 1/4" inlet and outlet.

References

- ¹Quang Tran, You-Zhi Tang; Stability of Reduced Sulfur Compounds in Whole Air Samplers, 1994 AWMA/EPA International Symposium of Measurement of Toxic and Related Air Pollutants. (not available from Restek)
- ²Steven Hoyt, Vivian Longacre, and Michale Stroupe, Measurement of Oxygenated Hydrocarbons and Reduced Sulfur Gases by Full Scan GC/MS: EPA TO-14 in Sampling and Analysis of Airborne Pollutants, Eric Winegar and Lawrence Keith, editors, CRC Press LLC, 384pp. (1993). (Restek cat. # 20468)



24140

SilcoCan Canister, 1 Liter
SilcoCan 1/4" Valve, with
gauge
24140-650
SilcoCan Canister, 1 Liter
SilcoCan with Siltek 1/4"
Valve and gauge






24182

SilcoCan Canister, 6 Liter
SilcoCan, 1/4" Valve
24182-650
SilcoCan Canister, 6 Liter
SilcoCan, Siltek 1/4"
Valve



24144

Valve, 2-Port Siltek
Replacement Valve (1/4")
for Air Monitoring Canisters

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Phone: 800-356-1688 or 814-353-1300 <small>© 2006 Restek Corporation, all rights reserved.</small>						

From: Rebecca Buck
To: Joanna.Raycraft@state.vt.us
Date: 8/30/2006 10:46:56 AM
Subject: A couple of questions regarding JFO #2269

Good morning Joanna:

JFO #2269 is requesting approval for 2 new limited service positions. These positions are being requested in connection with additional funding providing for a benzene study in the Burlington area through a continuing EPA air toxics assessment grant. The following are questions that have arisen regarding the grant to support this study:

- 1) In the accompanying budget detail for this project, the amount budgeted for equipment is \$151,850. This seems like a fairly high amount when considering the project has a total budget of \$499,975. Is there any information you could provide regarding the cost of this equipment?
- 2) While this equipment is being purchased to support this specific project, what happens to this equipment when this project is completed?

Please cc Representatives Heath and Obuchowski and Steve Klein on your response to me. Thanks. --
Becky

CC: Heath, Martha; Klein, Steve; Obuchowski, Michael

From: "Raycraft, Joanna" <Joanna.Raycraft@state.vt.us>
To: "Rebecca Buck" <r buck@leg.state.vt.us>
Date: 8/31/2006 3:18:13 PM
Subject: RE: A couple of questions regarding JFO #2269

Good Afternoon Everyone,

Please find below the response to questions concerning the equipment budget involved in our request for 2 new limited service positions (JFO #2269). Should you have any questions, or require additional information please do not hesitate contact me directly.

Thank you so much,

Joanna Raycraft
Business Manager
Dept. of Environmental Conservation
802-241-3810
joanna.raycraft@state.vt.us

-----Original Message-----

From: Rebecca Buck [mailto:r buck@leg.state.vt.us]
Sent: Wednesday, August 30, 2006 10:47 AM
To: Raycraft, Joanna
Cc: Martha Heath; Michael Obuchowski; Steve Klein
Subject: A couple of questions regarding JFO #2269

Good morning Joanna:

JFO #2269 is requesting approval for 2 new limited service positions. These positions are being requested in connection with additional funding providing for a benzene study in the Burlington area through a continuing EPA air toxics assessment grant. The following are questions that have arisen regarding the grant to support this study:

1) In the accompanying budget detail for this project, the amount budgeted for equipment is \$151,850. This seems like a fairly high amount when considering the project has a total budget of \$499,975. Is there any information you could provide regarding the cost of this equipment?

As you know, the Environmental Protection Agency (EPA) has awarded the Vermont Air Pollution Control Division (APCD) \$499,975 to study benzene concentrations, as well as other hazardous air pollutants in Burlington, VT. The EPA has approved our budget for this project, including our proposed equipment purchases for this study. The air toxics monitoring equipment is highly specific and technical, and only offered by a few manufacturers. The equipment costs for this large project are in-line with expected costs for air toxics monitoring. Please find attached for your reference detailed information on a few of the proposed equipment purchases listed in the budget and some initial quotes (BTX Analyser Sampler, Canister Automated Timers, SUMMA SilocoCan Canisters).

<<BTX Analyser Sampler.pdf>> <<Canister Automated Timers.pdf>>

<<SUMMA Canisters.pdf>>

2) While this equipment is being purchased to support this specific project, what happens to this equipment when this project is completed?

At the end of the project period, we keep and use the new equipment for the rest of its useful life, which is approximately 10 years in most cases.

Please cc Representatives Heath and Obuchowski and Steve Klein on your response to me. Thanks. --Becky

CC: "Martha Heath" <MPHeath@aol.com>, "Michael Obuchowski" <OBIE.LCPO2.VTLC@leg.state.vt.us>, "Steve Klein" <SKLEIN.LCPO1.VTLC@leg.state.vt.us>

From: Rebecca Buck
To: Joanna.Raycraft@state.vt.us
Date: 8/30/2006 10:46:56 AM
Subject: A couple of questions regarding JFO #2269

Good morning Joanna:

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- 2) While this equipment is being purchased to support this specific project, what happens to this equipment when this project is completed?

Please cc Representatives Heath and Obuchowski and Steve Klein on your response to me. Thanks. --
Becky

CC: Heath, Martha; Klein, Steve; Obuchowski, Michael



Mailing Address:
1 Baldwin Street
Drawer 33
Montpelier, Vermont 05633-5701

Tel.: (802) 828-2295
Fax: (802) 828-2483

STATE OF VERMONT
JOINT FISCAL COMMITTEE
1 Baldwin Street
Montpelier, Vermont 05633-5701

MEMORANDUM

To: Joint Fiscal Committee Members

From: Rebecca Buck, Staff Associate *RB*

Date: August 24, 2006

Subject: Positions Request

Enclosed please find one (1) request which the Joint Fiscal Office recently received from the Administration:

JFO #2269 – Request from the Department of Environmental Conservation to establish two (2) new limited service positions: one (1) Environmental Technician III and one (1) Environmental Scientist III. These sponsored positions are 100% federally funded and associated with a continuing U.S. Environmental Protection Agency, National Air Toxics Assessment grant.

[JFO received 08/23/06]

The Joint Fiscal Office has reviewed this submission and determined that all appropriate forms bearing the necessary approvals are in order.

In accordance with the procedures for processing such requests, we ask you to review the enclosed and notify the Joint Fiscal Office (Rebecca Buck at 802/828-5969; rbuck@leg.state.vt.us or Stephen Klein at 802/828-5769; sklein@leg.state.vt.us) if you would like this item held for committee review. Unless we hear from you to the contrary by September 7 we will assume that you agree to consider as final the Governor's acceptance of this request.

cc: Michael Smith, Secretary
James Reardon, Commissioner
Linda Morse, Administrative Assistant
Canute Dalmasse, Acting Secretary
Jeffrey Wennberg, Commissioner
Molly Paulger, Classification Manager
Jenny Audet, Classification Program Technician

STATE OF VERMONT
POSITION ACCEPTANCE FORM

JT 04
2209

GRANT SUMMARY: For a modeling validation study on impacts of toxic air pollutants and development of reduction strategies.

DATE: 8/07/06

DEPARTMENT: ANR DEC

GRANT AMOUNT: \$499,975.00 (Existing Grant)

GRANT PERIOD: 05/01/06 – 11/30/07

GRANT/DONOR: CFDA # 66.034 National Air Toxics Assessment / US EPA, EPA New England

POSITIONS REQUESTED (LIMITED SERVICE): 2 Positions;

1 Environmental Technician III

1 Environmental Scientist III

LONG-TERM COSTS TO STATE: No additional costs.

COMMENTS: The \$124,995 state match is already budgeted for activities funded by this existing grant. Adding these positions does not increase the match requirement.

DEPT. OF FINANCE & MANAGEMENT: (INITIAL)
SECRETARY OF ADMINISTRATION: (INITIAL)
SENT TO JOINT FISCAL OFFICE: (DATE)

AWB 8/10/06
8/14/06

RECEIVED
AUG 23 2006
JOINT FISCAL OFFICE

**STATE OF VERMONT
Joint Fiscal Committee Review
Limited Service - Grant Funded
Position Request Form**

This form is to be used by agencies and departments when additional grant funded positions are being requested. Review and approval by the Department of Human Resources must be obtained prior to review by the Department of Finance and Management. The Department of Finance will forward requests to the Joint Fiscal Office for JFC review. A Request for Classification Review Form (RFR) and an updated organizational chart showing to whom the new position(s) would report must be attached to this form. Please attach additional pages as necessary to provide enough detail.

Agency/Department: ANR-DEC-Air Quality Date: 7/20/06

Name and Phone (of the person completing this request): Joanna Raycraft – DEC Business Manager – 241-3810

Request is for:

- Positions funded and attached to a new grant.
 Positions funded and attached to an existing grant approved by JFO #2148 (Grant CFDA# 66.034)

1. Name of Granting Agency, Title of Grant, Grant Funding Detail (attach grant documents):

U.S. Environmental Protection Agency, National Air Toxics Assessment

2. List below titles, number of positions in each title, program area, and limited service end date (information should be based on grant award and should match information provided on the RFR) position(s) will be established only after JFC final approval:

<u>Title* of Position(s) Requested</u>	<u># of Positions</u>	<u>Division/Program</u>	<u>Grant Funding Period/Anticipated End Date</u>
Environmental Scientist III	1	Air Quality	5/1/06 – 11/30/07
Environmental Technician III	1	Air Quality	5/1/06 – 11/30/07

*Final determination of title and pay grade to be made by the Department of Human Resources Classification Division upon submission and review of Request for Classification Review.

3. Justification for this request as an essential grant program need:

The EPA has expanded the National Air Toxics Assessment program to include additional research and study on Spatial and Temporal concentrations of benzene in the Burlington community. A modeling validation study to aid in assessing impacts of toxic air pollutants on affected areas and yield data to assist in development of reduction strategies.

I certify that this information is correct and that necessary funding, space and equipment for the above position(s) are available (required by 32 VSA Sec. 5(b)).

David Schultz _____ Date 24 July 06
Signature of Agency or Department Head

Molly Paulsen _____ Date 7/24/06
Approved/Denied by Department of Human Resources

[Signature] _____ Date 7/20/06
Approved/Denied by Finance and Management

[Signature] _____ Date 8-10-06
Approved/Denied by Secretary of Administration

Comments:

Agency of Natural Resources
Department of Environmental Conservation

Air Pollution Control Division
802-241-3840

MEMORANDUM

To: Joanna Raycraft, DEC Business Manager
Through: Dick Valentinetti, APC, Division Director *Dick Valentinetti*
From: Heidi Hales, APC, Environmental Analyst *H. Hales*
Date: July 6, 2006
Subject: Local-Scale Air Toxics Ambient Monitoring Grant Positions (2)

The Air Pollution Control Division was recently awarded an EPA Local-Scale Air Toxics Ambient Monitoring grant. This grant provides funding for 2 new limited service positions, an Environmental Scientist and an Environmental Technician.

In response to your request, the following items are attached:

1. A brief description of the grant.
2. Duties of the new positions.
3. Projected outcomes.
4. An organization chart with the new positions drawn in along with the requested titles.
5. Vermont Department of Human Resources Job Specifications for an Environmental Scientist III, and an Environmental Technician III.

1. A BRIEF DESCRIPTION OF THE GRANT.

The Environmental Protection Agency (EPA) has awarded the Vermont Air Pollution Control Division a half-million-dollar grant to study benzene concentrations, as well as other hazardous air pollutants in Burlington, VT. Vermont's application was chosen over those of several other competing states. Throughout Vermont, benzene concentrations in the air have exceeded health standards since monitoring began in 1993. Benzene, a component of gasoline, is a known carcinogen and a high-priority hazardous air contaminant. The EPA National Air Toxics Assessment predicts that Chittenden County, VT, is within 90-95% of the highest predicted inhalation exposure values in the United States.

The goals of the study are several: To enhance the database of benzene concentration measurements in Burlington, conduct risk assessments; identify benzene sources; develop a strategy to reduce population exposure to benzene; and validate a model for benzene exposure in Burlington. While the short-term goal is to gather information that will be used to improve air quality for all Vermonters, methods and information collected are expected to be used throughout northern New England (Manchester, NH) and the U.S.

2. DUTIES OF THE NEW POSITIONS.

a. Environmental Scientist III

The incumbent is responsible for the coordination of the air toxics analysis program related to a DEC Air Pollution Control Division EPA grant. Ambient air samples will be analyzed by the incumbent for volatile organic compounds by EPA Method TO15. Data must also be reviewed and validated by the incumbent. The data will be used to validate a model which predicts the concentration of benzene (and other contaminants) in urban areas. This study will generate samples from numerous monitoring locations in Burlington, VT and Manchester, NH. The incumbent's analytical findings will be used to validate and make improvements to the computer model.

The analytical instrumentation used for this analysis requires the incumbent understand and be able to use gas chromatography (GC) coupled with mass spectrometry (MS) to separate, identify and quantify the organic contaminants in ambient air. The incumbent uses EPA method TO15 to provide this analysis. The incumbent uses a GC/MS, sample concentration and autosampler, diluter, canister cleaner and air purifying equipment and maintains this equipment to produce accurate analysis of ambient air samples and generates reports for the Air Pollution Control Program after a comprehensive data review and validation process. (85%)

The incumbent will periodically determine and work to improve method detection limits and to develop the existing method to allow for the addition of parameters, which are indicative of mobile source air toxics. The incumbent will also be responsible for developing a method for the analysis for acrolein using canisters and TO 15 analysis by GC/MS. Acrolein is an important national air toxics risk driver for which the Laboratory has no reliable analytical method. (10%)

Training and supervision of a laboratory technician (5%)

b. Environmental Technician III

- 1) The incumbent is assigned to the Air Pollution Control Technical Services Section to assist with sample collection in periods of high activity. The incumbent will review all field entries and enter data into the Air Pollution database. (20%)
- 2) Canisters are used to collect air samples for volatile toxic organic chemicals. These canisters are cleaned and certified before every sampling event. The incumbent would be responsible for managing the inventory which includes 50 Vermont cans and 20 New Hampshire cans and make repairs as necessary. The incumbent will be responsible for cleaning the cans, verifying that the analysis of clean cans shows that all target parameters are below the method detection limit for each analyte. The incumbent will always have clean cans available for the APC staff and for the New Hampshire APC sampling staff. The incumbent will login all submitted canisters, verify the pressures are suitable for analysis, label the samples and store them for process by a senior chemist. (25%)
- 3) The incumbent will perform a variety of duties in the organic analysis section to assist the senior analysts process Department samples. The duties include but are not limited to: verifying the preservation (pH) of water samples submitted for volatile organic chemical analysis, performing liquid/liquid and Soxhlet extractions of water and soil samples submitted for PCB and pesticide analysis and loading autosamplers, (20%)
- 4) The incumbent will perform technical duties in other parts of the lab. These duties include but not limited to: periodic checking of the operating temperatures of critical support equipment (ovens, water baths, etc.), checking the calibration of all class A pipettes, daily checking of the temperature of all refrigerators and freezers, daily checking of the calibration of balances, periodic checking of safety showers and eyewashes, washing glassware, filling bottle orders and keeping the sample receiving room stocked and tidy. (15%)
- 5) The incumbent will assist a senior with the analysis of samples for inorganic parameters. (20%)

3. PROJECTED OUTCOMES.

The goals of the study are several: To enhance the database of benzene concentration measurements in Burlington, conduct risk assessments; identify benzene sources; develop a strategy to reduce population exposure to benzene; and validate a model for benzene exposure in Burlington

From: "Raycraft, Joanna" <Joanna.Raycraft@state.vt.us>
To: "Rebecca Buck" <rbuck@leg.state.vt.us>
Date: 8/23/2006 10:03:48 AM
Subject: National Air Toxics Assessment - Limited Service Positions

Hello Becky,

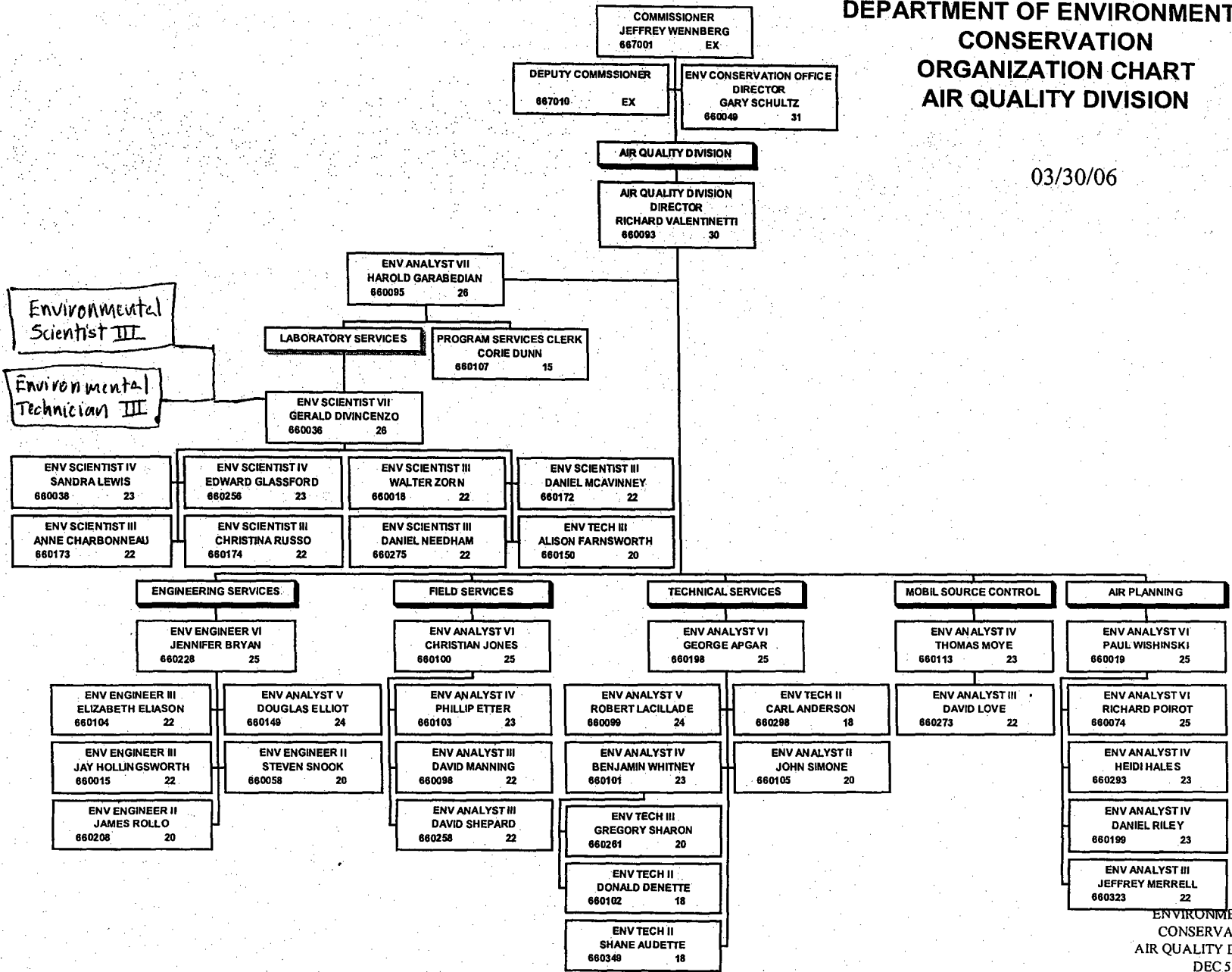
In regard to our conversation yesterday please accept this email as a brief narrative clarifying that the additional monies awarded for this benzene study in the Burlington area in which we are requesting the 2 limited service positions for. These funds (awarded under CFDA# 66.034) are simply a continuation of air toxics work that we have been and are currently performing. The original project scope was for "ambient air toxics monitoring network development and implementation" under which a limited service position (JFO #2148) was created back in 2004. We have continued to receive additional EPA monitoring funds for this overall project that we are using to supplement state funds for the State's Hazardous Air Contaminant Monitoring Program, a monitoring program established by Act 92. These additional monies are as I mentioned earlier a continuation of our studies which are to be used for a short, intensive air monitoring program to determine the variation in concentrations of benzene across the greater Burlington area and to validate a State developed computer model to predict the concentration of benzene and similarly emitted hazardous air contaminants. Once validated, this computer model will be an important tool to assess pollutant exposure, conduct risk assessments and develop a strategy to reduce exposure to benzene and similar air contaminants which is all part of the baseline original project scope.

Thank you again for all of your assistance, and should you need any additional information please do not hesitate to contact me.

Joanna Raycraft
Business Manager
Dept. of Environmental Conservation
802-241-3810
joanna.raycraft@state.vt.us

DEPARTMENT OF ENVIRONMENTAL CONSERVATION ORGANIZATION CHART AIR QUALITY DIVISION

03/30/06



Environmental
Scientist III

Environmental
Technician III

ENVIRONMENTAL
CONSERVATION
AIR QUALITY DIVISION
DEC 5

5.



Job Specifications

ENVIRONMENTAL SCIENTIST III

Job Code: 145806

Pay Plan: CLS Salary Administration Plan

Pay Grade: 22

Occupational Category: Life, Physical & Social Science

Effective Date: 07/04/1999

Class Definition:

Scientific work at a journey professional level for the Department of Environmental Conservation. Duties involve the scientific review and analysis of environmental policies, programs, activities, and data in a variety of department regulatory, non-regulatory, and scientific programs. Duties entail the collection and analysis of scientific data, evaluation of conceptual plans for scientific investigation and the preparation, execution and evaluation of scientific studies. Work at this level differs from lower level scientists in the complexity of projects; degree of independence, responsibility, and accountability; and level of expertise and breadth of knowledge required. May act as a lead worker, overseeing the work of temporary, contractual, or classified employees at a lower level. Work is performed under the direction of a higher-level technical or administrative superior.

Examples of Work:

Independently, following general policies and guidance, plans, develops, and implements scientific programs; reviews and analyses proposed projects and plans for consistency with policies, statutes, regulations, rules, and environmental impact; researches, collects, analyses, and enters information into and maintains data bases, and prepares reports; prepares environmental impact statements and recommendations for corrective actions/alternatives; develops, reviews and processes grant/loan applications; and prepares, develops, presents, and distributes informational and educational materials. Researches scientific and administrative issues. Conducts field work, including project reviews, site inspections, investigations and makes regulatory compliance recommendations, including enforcement in regulatory programs. Participates in the training of staff, and represents the state in public meetings and in legal proceedings. Recommends technical and

administrative program changes. Performs related duties as related.

Environmental Factors:

Duties are largely performed in an office setting; however, some field travel may be necessary for which private means of transportation must be available. Field work may involve exposure to chemicals, gases, hazardous liquid and solid waste, and construction sites during all weather conditions; and may involve traversing rough terrain and bodies of water. Some work outside of regular working hours, including attendance at public meetings, may be required. Strong differences of opinion may be encountered on a regular basis.

Minimum Qualifications:

Knowledge, Skills and Abilities

Considerable knowledge of the scientific method of observation and analysis.

Considerable knowledge of planning principles and procedures.

Considerable knowledge of data gathering techniques and various systems for organizing and interpreting such data.

Considerable knowledge of the laws, regulations, rules, policies, and programs of the Vermont Department of Environmental Conservation applicable to area of assignment.

Considerable knowledge of the principles of biology.

Working knowledge of computer uses and potential in data management and program planning.

Working knowledge of word processing and spread sheet computer programs.

Working knowledge of statistical concepts and procedures.

Working knowledge of the basic principles of environmental management and protection.

Working knowledge of the principals of ecology.

Knowledge of state and federal environmental laws and regulations and Department programs.

Knowledge of the basic principles of chemistry.

Ability to read and understand scientific plans and reports.

Ability to evaluate scientific reports, plans and research papers.

Ability to communicate effectively both orally and in writing.

Ability to read and understand technical writing.

Ability to understand and interpret complex and technical information.

Ability to plan, organize, implement, and administer data gathering systems.

Ability to present research findings in clear, objective, written report form.

Ability to establish and maintain effective working relationships.

Education and Experience

Education: Bachelor's degree in biology, microbiology, chemistry, soils science, geology or hydrogeology.

Experience: Three years of professional experience in environmental biology, microbiology or chemistry, or ecology, soils science, geology or hydrogeology.

OR

Education: Bachelor's degree in any biological-life or physical science.

Experience: Four years of professional experience in environmental biology, microbiology or chemistry, or ecology, soils science, geology, or hydrogeology.

NOTE: Graduate level coursework in environmental biology, microbiology or chemistry, or ecology, soils science, geology or hydrogeology may be substituted for up to two years of the experience requirement on a semester for six month basis.

OR

Experience: Two years experience as an Environmental Scientist II

Special Requirements

n/a

Back



Job Specifications

ENVIRONMENTAL TECHNICIAN III, AC: General

Job Code: 144804

Pay Plan: CLS Salary Administration Plan

Pay Grade: 20

Occupational Category: Engineering and Architecture

Effective Date: 11/18/2001

Class Definition:

Advanced technical work for the Department of Environmental Conservation. The duties involve the gathering, processing and management of technical data and records using computerized systems and technology; equipment maintenance; field inspections and environmental studies and surveys. Employees in this class act with considerable independence and may function as a lead worker. Work is performed under the general supervision of a higher level engineer or administrative supervisor.

Examples of Work:

Performs field measurements, investigations and inspections; land surveying; environmental measurements and sampling; development of site evaluation, inspection and investigation reports; and drafting plans and specifications and computer assisted design (CAD). Direct and organize the maintenance and scheduling of field engineering, surveying, monitoring and sampling equipment. Transport and organize the transportation of field equipment and environmental samples. Enter raw data into established databases. Develop data reports using computer programs. Lead and develop project plans for work teams. Explain Department programs to the public. Participate in work groups and coordinate assignments with other staff. Perform related duties as required.

Environmental Factors:

Duties are performed in both a standard office setting and in the field, for which private means of transportation must be available. Field work may involve exposure to chemicals, gases, hazardous liquid and solid waste, construction sites during all weather conditions and may involve

traversing rough terrain and bodies of water. Heavy lifting and climbing may be required. Some work outside of regular work schedule may be necessary. Strong and conflicting opinions may be encountered.

Minimum Qualifications:

Knowledge, Skills and Abilities

Considerable knowledge of the principles of scientific and technical measurement.

Considerable knowledge of arithmetic and algebraic calculations.

Working knowledge of plan drafting and computer aided design (CAD).

Knowledge of graphic display of information and data.

Knowledge of spread sheet computer programs.

Knowledge of scientific method of observation and analysis.

Awareness of figurative description of physical objects and concepts.

Awareness of the principles and practice of land surveying.

Awareness of map making.

Ability to follow oral and written technical instructions.

Ability to organize and lead work teams.

Ability to communicate effectively, both orally and in writing.

Ability to establish and maintain effective working relationships.

Education and Experience

Education: Associate's degree in engineering, engineering technology, surveying construction technology, architecture or other field closely related to civil, sanitary or environmental engineering.

Experience: Two years at a technical level performing engineering support tasks involved in the planning, surveying, design, inspection, construction, research and statistics, testing, investigation and/or maintenance of various types of civil, sanitary or environmental engineering projects or operations.

Note: Two years as an Environmental Technician II is qualifying.


Note: Additional college course work may be substituted for the experience on a semester for six months basis. Additional work experience as defined above may be substituted for the Associates

Degree on a six months for semester basis.

Special Requirements

n/a

Back

	U.S. ENVIRONMENTAL PROTECTION AGENCY Grant Agreement	ASSISTANCE ID NO.			DATE OF AWARD <i>4/12/06</i>
		PRG	DOC ID	AMEND#	
		XA - 97146101 - 0			MAILING DATE <i>5/19/06</i>
		TYPE OF ACTION New			
PAYMENT METHOD:				ACH# ASAP 0114	

RECIPIENT TYPE: State	Send Payment Request to: Region 1 - Financial Management Office
--------------------------	--------------------------------------------------------------------

RECIPIENT: Vermont D.E.C. 103 S. Main Street, Bldg. 1 So. Waterbury, VT 05671-0401 EIN: 03-6000274	PAYEE: Vermont D.E.C. 103 S. Main Street, Bldg. 1 So. Waterbury, VT 05671-0401
----------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

PROJECT MANAGER Dr. Heidi Colleen Hales 103 S. Main Street, Bldg. 1 So. Waterbury, VT 05671-0401 E-Mail: heidi.hales@state.vt.us Phone: 802-241-3848	EPA PROJECT OFFICER Paul Bryan 1 Congress Street, Suite 1100, CSP Boston, MA 02114-2023 E-Mail: Bryan.Paul@epamail.epa.gov Phone: 617-918-1673	EPA GRANT SPECIALIST Janet Bartlett Grants Management Office, MGM E-Mail: Bartlett.Janet@epamail.epa.gov Phone: 617-918-1972
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PROJECT TITLE AND DESCRIPTION
National Air Toxics Assessment
Spatial and Temporal Concentrations of Benzene in Two Northern New England Communities: A Modeling Validation Study to Aid in Assessing Impacts of Toxic Air Pollutants on Affected Areas and Yield Data to Assist in Development of Reduction Strategies.

BUDGET PERIOD 05/01/2006 - 11/30/2007	PROJECT PERIOD 05/01/2006 - 11/30/2007	TOTAL BUDGET PERIOD COST \$624,970.00	TOTAL PROJECT PERIOD COST \$624,970.00
------------------------------------------	-------------------------------------------	------------------------------------------	-------------------------------------------

NOTE: The Agreement must be completed in duplicate and the Original returned to the appropriate Grants Management Office listed below, within 3 calendar weeks after receipt or within any extension of time as may be granted by EPA. Receipt of a written refusal or failure to return the properly executed document within the prescribed time, may result in the withdrawal of the offer by the Agency. Any change to the Agreement by the Recipient subsequent to the document being signed by the EPA Award Official, which the Award Official determines to materially alter the Agreement, shall void the Agreement.

OFFER AND ACCEPTANCE

The United States, acting by and through the U.S. Environmental Protection Agency (EPA), hereby offers Assistance/Amendment to the Vermont D.E.C. for 80.00 % of all approved costs incurred up to and not exceeding \$499,975 for the support of approved budget period effort described in application (including all application modifications) cited in the Project Title and Description above, signed 08/22/2005 included herein by reference.

ISSUING OFFICE (GRANTS MANAGEMENT OFFICE)	AWARD APPROVAL OFFICE
ORGANIZATION / ADDRESS EPA New England 1 Congress Street, Suite 1100 Boston, MA 02114-2023	ORGANIZATION / ADDRESS U.S. EPA, EPA New England 1 Congress Street, Suite 1100 Boston, MA 02114-2023

THE UNITED STATES OF AMERICA BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY

SIGNATURE OF AWARD OFFICIAL <i>James T. Owens, III</i>	TYPED NAME AND TITLE James T. Owens, III, Dir. Office of Administration and Resource Mgmt.	DATE <i>4/12/06</i>
-----------------------------------------------------------	-----------------------------------------------------------------------------------------------	------------------------

This agreement is subject to applicable U.S. Environmental Protection Agency statutory provisions and assistance regulations. In accepting this award or amendment and any payments made pursuant thereto, (1) the undersigned represents that he is duly authorized to act on behalf of the recipient organization, and (2) the recipient agrees (a) that the award is subject to the applicable provisions of 40 CFR Chapter 1, Subchapter B and of the provisions of this agreement (and all attachments), and (b) that acceptance of any payments constitutes an agreement by the payee that the amounts, if any found by EPA to have been overpaid will be refunded or credited in full to EPA.

BY AND ON BEHALF OF THE DESIGNATED RECIPIENT ORGANIZATION

SIGNATURE <i>Jeffrey Wennberg</i>	TYPED NAME AND TITLE Jeffrey Wennberg, Commissioner	DATE <i>20 APR 06</i>
--------------------------------------	--------------------------------------------------------	--------------------------

EPA Funding Information

FUNDS	FORMER AWARD	THIS ACTION	AMENDED TOTAL
EPA Amount This Action	\$	\$ 499,975	\$ 499,975
EPA In-Kind Amount	\$	\$	\$ 0
Unexpended Prior Year Balance	\$	\$	\$ 0
Other Federal Funds	\$	\$	\$ 0
Recipient Contribution	\$	\$ 124,995	\$ 124,995
State Contribution	\$	\$	\$ 0
Local Contribution	\$	\$	\$ 0
Other Contribution	\$	\$	\$ 0
Allowable Project Cost	\$ 0	\$ 624,970	\$ 624,970

Assistance Program (CFDA)	Statutory Authority	Regulatory Authority
66.034 - Surveys-Studies-Investigations-Demonstrations and Special Purpose Activities relating to the Clean Air Act	Clean Air Act: Sec. 103	40 CFR PART 31

Fiscal									
Site Name	DCN	FY	Approp. Code	Budget Organization	PRC	Object Class	Site/Project	Cost Organization	Obligation / Deobligation
	31G001	06	E1C	01V6	101A04EAT	41.12			499,975
									499,975

Budget Summary Page

Table A - Object Class Category (Non-construction)	Total Approved Allowable Budget Period Cost
1. Personnel	\$197,401
2. Fringe Benefits	\$45,513
3. Travel	\$3,415
4. Equipment	\$155,075
5. Supplies	\$21,635
6. Contractual	\$70,754
7. Construction	\$0
8. Other	\$81,215
9. Total Direct Charges	\$575,008
10. Indirect Costs: % Base	\$49,962
11. Total (Share: Recipient <u>20.00</u> % Federal <u>80.00</u> %.)	\$624,970
12. Total Approved Assistance Amount	\$499,975
13. Program Income	\$0

**National Air Toxics Assessment
Revised Budget Detail for Federal Funds Request**

Position Number	Position Title	Annual Salary 2007	% to Grant	Budget Period	From:	To:
				Salary Expense	05/01/06	11/30/07
660938	Environmental Scientist III, AC: Chemistry	39,249.60	162%	63,403.20		21,176.67
660987	Environmental Technician III	35,068.80	162%	56,649.60		18,920.97
660954	Environmental Technician II	31,616.00	20%	6,323.20		2,111.95

Total FTEs ---> 3.43

Personnel (listed above) subtotal \$ 126,376

Fringe Benefits (based on division average) (incl. FICA, retirement, workers' comp & personal insurance) Rate
33.40% subtotal \$ 42,210

Travel (does not include BGS fleet lease payments; see "Other")
~ Out-of-State Travel 2,030
subtotal \$ 2,030

Equipment (Items with a unit cost under \$5,000 are included due to limitations of accounting system.)
~ BTX Continuous Sampler (2 @ \$40,000 ea.) 80,000
~ Sorbent Tube Samplers (10 @ \$675 ea.) 6,750
~ Sequential Sorbent Tube Sampler 10,000
~ Canister Flow Meters / Automated Timer (16 @ \$2,000) 32,000
~ SUMMA Canisters (33@ \$700) 23,100
subtotal \$ 151,850

Supplies
~ Sample Pump Battery Pack (20 @ \$125) 2,500
~ Monitoring Shelters (7 @ \$1,500) 10,500
~ Sample Pump Battery Charger 125
~ Sorbent Tube Sample Pump Software 200
~ Sorbent Tubes (125 @ \$50) 6,250
subtotal \$ 19,575

Contractual (Sub-Awards)
~ Subcontract for Data Analysis 27,000
~ Subcontract with State of New Hampshire
Personnel
- Program Manager (156 hours @ \$25.67 / hour) 4,005
- Technician (240 hours @ \$14.98 / hour) 3,595
- Engineer (200 hours @ \$19.88 / hour) 3,976
- Fringe Benefits (\$11,576 @ 49.67%) 5,750
Equipment & Other
- (6) Canister Flow Meters / Automated Timer 12,000
- Monitoring Shelter 15,000
- Administration 912
- Indirect Costs 516
Total for State of New Hampshire 45,754
subtotal \$ 72,754

Other
~ Canister Analysis (T0-15) - VT (250 @ \$100) 25,000
~ Canister Analysis (T0-15) - NH (125 @ \$100) 12,500
~ Tube GC Analysis (1,008 @ \$10) 10,080
~ GC Tube Method Development 2,000
subtotal \$ 49,580

Indirect Charges (based on % of personnel costs) Rate
28.17% subtotal \$ 35,600

GRAND TOTAL Total \$ 499,975

Federal Share 100% \$ 499,975
Non-Federal Share 0% \$ -



Mailing Address:
1 Baldwin Street
Drawer 33
Montpelier, Vermont 05633-5701

Tel.: (802) 828-2295
Fax: (802) 828-2483

**STATE OF VERMONT
JOINT FISCAL COMMITTEE**
1 Baldwin Street
Montpelier, Vermont 05633-5701

MEMORANDUM

To: Joint Fiscal Committee Members

From: Rebecca Buck, Staff Associate *RB*

Date: August 24, 2006

Subject: Positions Request

Enclosed please find one (1) request which the Joint Fiscal Office recently received from the Administration:

JFO #2269 – Request from the Department of Environmental Conservation to establish two (2) new limited service positions: one (1) Environmental Technician III and one (1) Environmental Scientist III. These sponsored positions are 100% federally funded and associated with a continuing U.S. Environmental Protection Agency, National Air Toxics Assessment grant.

[JFO received 08/23/06]

The Joint Fiscal Office has reviewed this submission and determined that all appropriate forms bearing the necessary approvals are in order.

In accordance with the procedures for processing such requests, we ask you to review the enclosed and notify the Joint Fiscal Office (Rebecca Buck at 802/828-5969; rbuck@leg.state.vt.us or Stephen Klein at 802/828-5769; sklein@leg.state.vt.us) if you would like this item held for committee review. Unless we hear from you to the contrary by September 7 we will assume that you agree to consider as final the Governor's acceptance of this request.

cc: Michael Smith, Secretary
James Reardon, Commissioner
Linda Morse, Administrative Assistant
Canute Dalmasse, Acting Secretary
Jeffrey Wennberg, Commissioner
Molly Paulger, Classification Manager
Jenny Audet, Classification Program Technician

STATE OF VERMONT
POSITION ACCEPTANCE FORM

JFO #
2269

GRANT SUMMARY: For a modeling validation study on impacts of toxic air pollutants and development of reduction strategies.

DATE: 8/07/06

DEPARTMENT: ANR DEC

GRANT AMOUNT: \$499,975.00 (Existing Grant)

GRANT PERIOD: 05/01/06 – 11/30/07

GRANT/DONOR: CFDA # 66.034 National Air Toxics Assessment / US EPA, EPA New England

POSITIONS REQUESTED (LIMITED SERVICE): 2 Positions;

1 Environmental Technician III

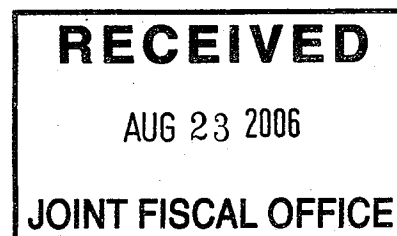
1 Environmental Scientist III

LONG-TERM COSTS TO STATE: No additional costs.

COMMENTS: The \$124,995 state match is already budgeted for activities funded by this existing grant. Adding these positions does not increase the match requirement.

DEPT. OF FINANCE & MANAGEMENT: (INITIAL)
SECRETARY OF ADMINISTRATION: (INITIAL)
SENT TO JOINT FISCAL OFFICE: (DATE)

[Handwritten initials] 8/9/06
[Handwritten initials] 8.10.06
8/14/06



STATE OF VERMONT
Joint Fiscal Committee Review
Limited Service - Grant Funded
Position Request Form

This form is to be used by agencies and departments when additional grant funded positions are being requested. Review and approval by the Department of Human Resources must be obtained prior to review by the Department of Finance and Management. The Department of Finance will forward requests to the Joint Fiscal Office for JFC review. A Request for Classification Review Form (RFR) and an updated organizational chart showing to whom the new position(s) would report must be attached to this form. Please attach additional pages as necessary to provide enough detail.

Agency/Department: ANR-DEC-Air Quality Date: 7/20/06

Name and Phone (of the person completing this request): Joanna Raycraft – DEC Business Manager – 241-3810

Request is for:

- Positions funded and attached to a new grant.
- Positions funded and attached to an existing grant approved by JFO #2148 (Grant CFDA# 66.034)

1. Name of Granting Agency, Title of Grant, Grant Funding Detail (attach grant documents):

U.S. Environmental Protection Agency, National Air Toxics Assessment

2. List below titles, number of positions in each title, program area, and limited service end date (information should be based on grant award and should match information provided on the RFR) position(s) will be established only after JFC final approval:

Title* of Position(s) Requested	# of Positions	Division/Program	Grant Funding Period/Anticipated End Date
Environmental Scientist III	1	Air Quality	5/1/06 – 11/30/07
Environmental Technician III	1	Air Quality	5/1/06 – 11/30/07

*Final determination of title and pay grade to be made by the Department of Human Resources Classification Division upon submission and review of Request for Classification Review.

3. Justification for this request as an essential grant program need:

The EPA has expanded the National Air Toxics Assessment program to include additional research and study on Spatial and Temporal concentrations of benzene in the Burlington community. A modeling validation study to aid in assessing impacts of toxic air pollutants on affected areas and yield data to assist in development of reduction strategies.

I certify that this information is correct and that necessary funding, space and equipment for the above position(s) are available (required by 32 VSA Sec. 5(b)).

David Schultz _____ Date 24 Jul 06
 Signature of Agency or Department Head

Molly Paulsen _____ Date 7/24/06
 Approved/Denied by Department of Human Resources

Jim Rankin _____ Date 8/9/06
 Approved/Denied by Finance and Management

[Signature] _____ Date 8-10-06
 Approved/Denied by Secretary of Administration

Comments:

Agency of Natural Resources
Department of Environmental Conservation

Air Pollution Control Division
802-241-3840

MEMORANDUM

To: Joanna Raycraft, DEC Business Manager
Through: Dick Valentinetti, APC, Division Director *Dick Valentinetti*
From: Heidi Hales, APC, Environmental Analyst *H. Hales*
Date: July 6, 2006
Subject: Local-Scale Air Toxics Ambient Monitoring Grant Positions (2)

The Air Pollution Control Division was recently awarded an EPA Local-Scale Air Toxics Ambient Monitoring grant. This grant provides funding for 2 new limited service positions, an Environmental Scientist and an Environmental Technician.

In response to your request, the following items are attached:

1. A brief description of the grant.
2. Duties of the new positions.
3. Projected outcomes.
4. An organization chart with the new positions drawn in along with the requested titles.
5. Vermont Department of Human Resources Job Specifications for an Environmental Scientist III, and an Environmental Technician III.

1. A BRIEF DESCRIPTION OF THE GRANT.

The Environmental Protection Agency (EPA) has awarded the Vermont Air Pollution Control Division a half-million-dollar grant to study benzene concentrations, as well as other hazardous air pollutants in Burlington, VT. Vermont's application was chosen over those of several other competing states. Throughout Vermont, benzene concentrations in the air have exceeded health standards since monitoring began in 1993. Benzene, a component of gasoline, is a known carcinogen and a high-priority hazardous air contaminant. The EPA National Air Toxics Assessment predicts that Chittenden County, VT, is within 90-95% of the highest predicted inhalation exposure values in the United States.

The goals of the study are several: To enhance the database of benzene concentration measurements in Burlington, conduct risk assessments; identify benzene sources; develop a strategy to reduce population exposure to benzene; and validate a model for benzene exposure in Burlington. While the short-term goal is to gather information that will be used to improve air quality for all Vermonters, methods and information collected are expected to be used throughout northern New England (Manchester, NH) and the U.S.

2. DUTIES OF THE NEW POSITIONS.

a. Environmental Scientist III

The incumbent is responsible for the coordination of the air toxics analysis program related to a DEC Air Pollution Control Division EPA grant. Ambient air samples will be analyzed by the incumbent for volatile organic compounds by EPA Method TO15. Data must also be reviewed and validated by the incumbent. The data will be used to validate a model which predicts the concentration of benzene (and other contaminants) in urban areas. This study will generate samples from numerous monitoring locations in Burlington, VT and Manchester, NH. The incumbent's analytical findings will be used to validate and make improvements to the computer model.

The analytical instrumentation used for this analysis requires the incumbent understand and be able to use gas chromatography (GC) coupled with mass spectrometry (MS) to separate, identify and quantify the organic contaminants in ambient air. The incumbent uses EPA method TO15 to provide this analysis. The incumbent uses a GC/MS, sample concentration and autosampler, diluter, canister cleaner and air purifying equipment and maintains this equipment to produce accurate analysis of ambient air samples and generates reports for the Air Pollution Control Program after a comprehensive data review and validation process. (85%)

The incumbent will periodically determine and work to improve method detection limits and to develop the existing method to allow for the addition of parameters, which are indicative of mobile source air toxics. The incumbent will also be responsible for developing a method for the analysis for acrolein using canisters and TO 15 analysis by GC/MS. Acrolein is an important national air toxics risk driver for which the Laboratory has no reliable analytical method. (10%)

1. A BRIEF DESCRIPTION OF THE GRANT.

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Training and supervision of a laboratory technician (5%)

b. Environmental Technician III

1) The incumbent is assigned to the Air Pollution Control Technical Services Section to assist with sample collection in periods of high activity. The incumbent will review all field entries and enter data into the Air Pollution database. (20%)

2) Canisters are used to collect air samples for volatile toxic organic chemicals. These canisters are cleaned and certified before every sampling event. The incumbent would be responsible for managing the inventory which includes 50 Vermont cans and 20 New Hampshire cans and make repairs as necessary. The incumbent will be responsible for cleaning the cans, verifying that the analysis of clean cans shows that all target parameters are below the method detection limit for each analyte. The incumbent will always have clean cans available for the APC staff and for the New Hampshire APC sampling staff. The incumbent will login all submitted canisters, verify the pressures are suitable for analysis, label the samples and store them for process by a senior chemist. (25%)

3) The incumbent will perform a variety of duties in the organic analysis section to assist the senior analysts process Department samples. The duties include but are not limited to: verifying the preservation (pH) of water samples submitted for volatile organic chemical analysis, performing liquid/liquid and Soxhlet extractions of water and soil samples submitted for PCB and pesticide analysis and loading autosamplers, (20%)

4) The incumbent will perform technician duties in other parts of the lab. These duties include but not limited to: periodic checking of the operating temperatures of critical support equipment (ovens, water baths, etc.), checking the calibration of all class A pipettes, daily checking of the temperature of all refrigerators and freezers, daily checking of the calibration of balances, periodic checking of safety showers and eyewashes, washing glassware, filling bottle orders and keeping the sample receiving room stocked and tidy. (15%)

5) The incumbent will assist a senior with the analysis of samples for inorganic parameters. (20%)

3. PROJECTED OUTCOMES.

The goals of the study are several: To enhance the database of benzene concentration measurements in Burlington, conduct risk assessments; identify benzene sources; develop a strategy to reduce population exposure to benzene; and validate a model for benzene exposure in Burlington

From: "Raycraft, Joanna" <Joanna.Raycraft@state.vt.us>
To: "Rebecca Buck" <rbuck@leg.state.vt.us>
Date: 8/23/2006 10:03:48 AM
Subject: National Air Toxics Assessment - Limited Service Positions

Hello Becky,

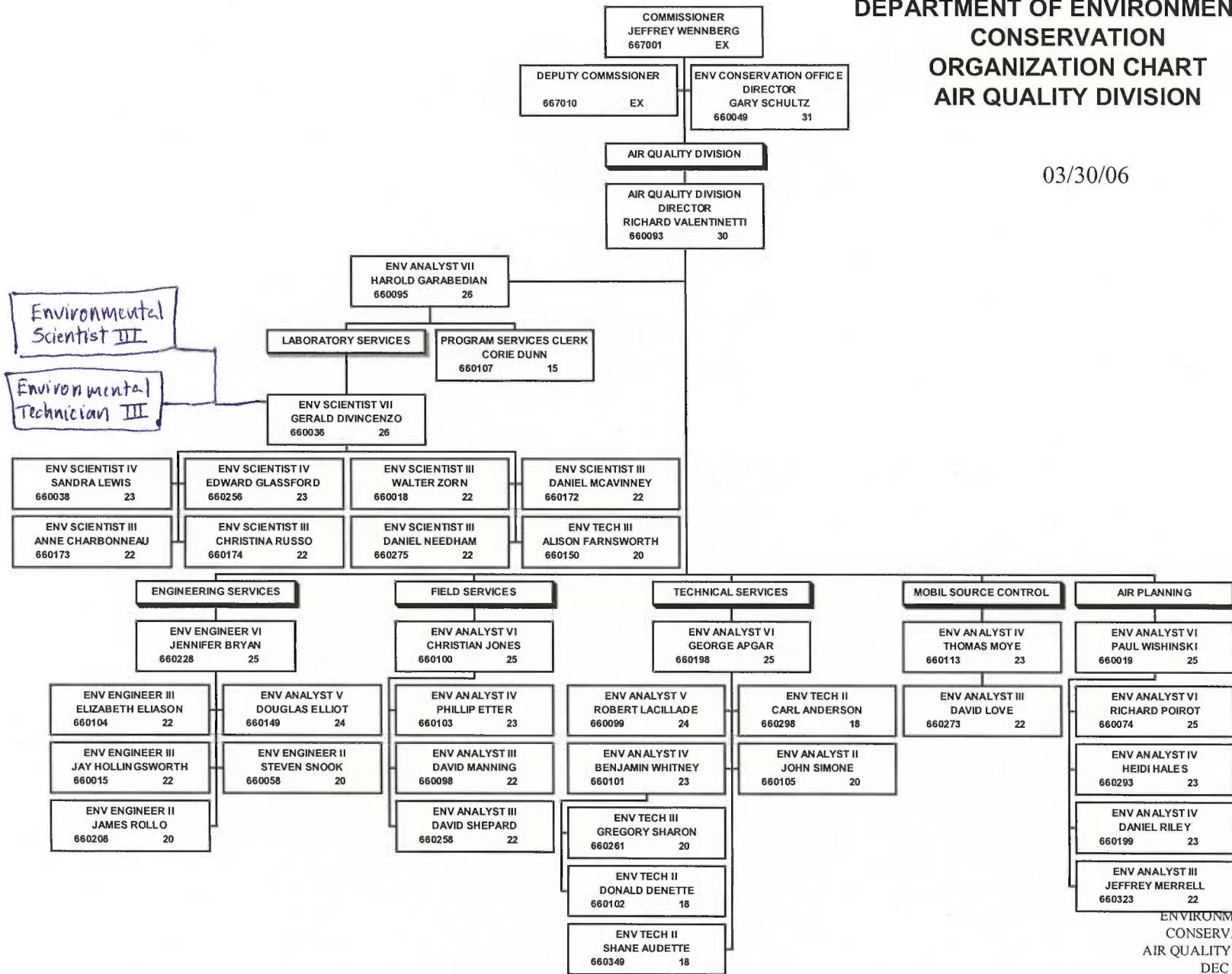
In regard to our conversation yesterday please accept this email as a brief narrative clarifying that the additional monies awarded for this benzene study in the Burlington area in which we are requesting the 2 limited service positions for. These funds (awarded under CFDA# 66.034) are simply a continuation of air toxics work that we have been and are currently performing. The original project scope was for "ambient air toxics monitoring network development and implementation" under which a limited service position (JFO #2148) was created back in 2004. We have continued to receive additional EPA monitoring funds for this overall project that we are using to supplement state funds for the State's Hazardous Air Contaminant Monitoring Program, a monitoring program established by Act 92. These additional monies are as I mentioned earlier a continuation of our studies which are to be used for a short, intensive air monitoring program to determine the variation in concentrations of benzene across the greater Burlington area and to validate a State developed computer model to predict the concentration of benzene and similarly emitted hazardous air contaminants. Once validated, this computer model will be an important tool to assess pollutant exposure, conduct risk assessments and develop a strategy to reduce exposure to benzene and similar air contaminants which is all part of the baseline original project scope.

Thank you again for all of your assistance, and should you need any additional information please do not hesitate to contact me.

Joanna Raycraft
Business Manager
Dept. of Environmental Conservation
802-241-3810
joanna.raycraft@state.vt.us

DEPARTMENT OF ENVIRONMENTAL CONSERVATION ORGANIZATION CHART AIR QUALITY DIVISION

03/30/06



ENVIRONMENTAL
CONSERVATION
AIR QUALITY DIVISION
DEC 5

5.

Job Specifications

ENVIRONMENTAL SCIENTIST III

Job Code: 145806

Pay Plan: CLS Salary Administration Plan

Pay Grade: 22

Occupational Category: Life, Physical & Social Science

Effective Date: 07/04/1999

Class Definition:

Scientific work at a journey professional level for the Department of Environmental Conservation. Duties involve the scientific review and analysis of environmental policies, programs, activities, and data in a variety of department regulatory, non-regulatory, and scientific programs. Duties entail the collection and analysis of scientific data, evaluation of conceptual plans for scientific investigation and the preparation, execution and evaluation of scientific studies. Work at this level differs from lower level scientists in the complexity of projects; degree of independence, responsibility, and accountability; and level of expertise and breadth of knowledge required. May act as a lead worker, overseeing the work of temporary, contractual, or classified employees at a lower level. Work is performed under the direction of a higher-level technical or administrative superior.

Examples of Work:

Independently, following general policies and guidance, plans, develops, and implements scientific programs; reviews and analyses proposed projects and plans for consistency with policies, statutes, regulations, rules, and environmental impact; researches, collects, analyses, and enters information into and maintains data bases, and prepares reports; prepares environmental impact statements and recommendations for corrective actions/alternatives; develops, reviews and processes grant/loan applications; and prepares, develops, presents, and distributes informational and educational materials. Researches scientific and administrative issues. Conducts field work, including project reviews, site inspections, investigations and makes regulatory compliance recommendations, including enforcement in regulatory programs. Participates in the training of staff, and represents the state in public meetings and in legal proceedings. Recommends technical and

administrative program changes. Performs related duties as related.

Environmental Factors:

Duties are largely performed in an office setting; however, some field travel may be necessary for which private means of transportation must be available. Field work may involve exposure to chemicals, gases, hazardous liquid and solid waste, and construction sites during all weather conditions; and may involve traversing rough terrain and bodies of water. Some work outside of regular working hours, including attendance at public meetings, may be required. Strong differences of opinion may be encountered on a regular basis.

Minimum Qualifications:

Knowledge, Skills and Abilities

Considerable knowledge of the scientific method of observation and analysis.

Considerable knowledge of planning principles and procedures.

Considerable knowledge of data gathering techniques and various systems for organizing and interpreting such data.

Considerable knowledge of the laws, regulations, rules, policies, and programs of the Vermont Department of Environmental Conservation applicable to area of assignment.

Considerable knowledge of the principles of biology.

Working knowledge of computer uses and potential in data management and program planning.

Working knowledge of word processing and spread sheet computer programs.

Working knowledge of statistical concepts and procedures.

Working knowledge of the basic principles of environmental management and protection.

Working knowledge of the principals of ecology.

Knowledge of state and federal environmental laws and regulations and Department programs.

Knowledge of the basic principles of chemistry.

Ability to read and understand scientific plans and reports.

Ability to evaluate scientific reports, plans and research papers.

Ability to communicate effectively both orally and in writing.

Ability to read and understand technical writing.

Ability to understand and interpret complex and technical information.

Ability to plan, organize, implement, and administer data gathering systems.

Ability to present research findings in clear, objective, written report form.

Ability to establish and maintain effective working relationships.

Education and Experience

Education: Bachelor's degree in biology, microbiology, chemistry, soils science, geology or hydrogeology.

Experience: Three years of professional experience in environmental biology, microbiology or chemistry, or ecology, soils science, geology or hydrogeology.

OR

Education: Bachelor's degree in any biological-life or physical science.

Experience: Four years of professional experience in environmental biology, microbiology or chemistry, or ecology, soils science, geology, or hydrogeology.

NOTE: Graduate level coursework in environmental biology, microbiology or chemistry, or ecology, soils science, geology or hydrogeology may be substituted for up to two years of the experience requirement on a semester for six month basis.

OR

Experience: Two years experience as an Environmental Scientist II

Special Requirements

n/a

Back



Job Specifications

ENVIRONMENTAL TECHNICIAN III, AC: General

Job Code: 144804

Pay Plan: CLS Salary Administration Plan

Pay Grade: 20

Occupational Category: Engineering and Architecture

Effective Date: 11/18/2001

Class Definition:

Advanced technical work for the Department of Environmental Conservation. The duties involve the gathering, processing and management of technical data and records using computerized systems and technology; equipment maintenance; field inspections and environmental studies and surveys. Employees in this class act with considerable independence and may function as a lead worker. Work is performed under the general supervision of a higher level engineer or administrative supervisor.

Examples of Work:

Performs field measurements, investigations and inspections; land surveying; environmental measurements and sampling; development of site evaluation, inspection and investigation reports; and drafting plans and specifications and computer assisted design (CAD). Direct and organize the maintenance and scheduling of field engineering, surveying, monitoring and sampling equipment. Transport and organize the transportation of field equipment and environmental samples. Enter raw data into established databases. Develop data reports using computer programs. Lead and develop project plans for work teams. Explain Department programs to the public. Participate in work groups and coordinate assignments with other staff. Perform related duties as required.

Environmental Factors:

Duties are performed in both a standard office setting and in the field, for which private means of transportation must be available. Field work may involve exposure to chemicals, gases, hazardous liquid and solid waste, construction sites during all weather conditions and may involve

traversing rough terrain and bodies of water. Heavy lifting and climbing may be required. Some work outside of regular work schedule may be necessary. Strong and conflicting opinions may be encountered.

Minimum Qualifications:

Knowledge, Skills and Abilities

Considerable knowledge of the principles of scientific and technical measurement.

Considerable knowledge of arithmetic and algebraic calculations.

Working knowledge of plan drafting and computer aided design (CAD).

Knowledge of graphic display of information and data.

Knowledge of spread sheet computer programs.

Knowledge of scientific method of observation and analysis.

Awareness of figurative description of physical objects and concepts.

Awareness of the principles and practice of land surveying.

Awareness of map making.

Ability to follow oral and written technical instructions.

Ability to organize and lead work teams.

Ability to communicate effectively, both orally and in writing.

Ability to establish and maintain effective working relationships.

Education and Experience

Education: Associate's degree in engineering, engineering technology, surveying construction technology, architecture or other field closely related to civil, sanitary or environmental engineering.

Experience: Two years at a technical level performing engineering support tasks involved in the planning, surveying, design, inspection, construction, research and statistics, testing, investigation and/or maintenance of various types of civil, sanitary or environmental engineering projects or operations.

Note: Two years as an Environmental Technician II is qualifying.


Note: Additional college course work may be substituted for the experience on a semester for six months basis. Additional work experience as defined above may be substituted for the Associates

Degree on a six months for semester basis.

Special Requirements

n/a

Back

	U.S. ENVIRONMENTAL PROTECTION AGENCY Grant Agreement	ASSISTANCE ID NO.			DATE OF AWARD <i>4/12/06</i>
		PRG	DOC ID	AMEND#	
		XA -	97146101	- 0	MAILING DATE <i>4/19/06</i>
		TYPE OF ACTION New			
PAYMENT METHOD:			ACH# ASAP 0114		

RECIPIENT TYPE: State	Send Payment Request to: Region 1 - Financial Management Office
--------------------------	--------------------------------------------------------------------

RECIPIENT: Vermont D.E.C. 103 S. Main Street, Bldg. 1 So. Waterbury, VT 05671-0401 EIN: 03-6000274	PAYEE: Vermont D.E.C. 103 S. Main Street, Bldg. 1 So. Waterbury, VT 05671-0401
----------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

PROJECT MANAGER Dr. Heidi Colleen Hales 103 S. Main Street, Bldg. 1 So. Waterbury, VT 05671-0401 E-Mail: heidi.hales@state.vt.us Phone: 802-241-3848	EPA PROJECT OFFICER Paul Bryan 1 Congress Street, Suite 1100, CSP Boston, MA 02114-2023 E-Mail: Bryan.Paul@epamail.epa.gov Phone: 617-918-1673	EPA GRANT SPECIALIST Janet Bartlett Grants Management Office, MGM E-Mail: Bartlett.Janet@epamail.epa.gov Phone: 617-918-1972
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PROJECT TITLE AND DESCRIPTION
National Air Toxics Assessment
Spatial and Temporal Concentrations of Benzene in Two Northern New England Communities: A Modeling Validation Study to Aid in Assessing Impacts of Toxic Air Pollutants on Affected Areas and Yield Data to Assist in Development of Reduction Strategies.

BUDGET PERIOD 05/01/2006 - 11/30/2007	PROJECT PERIOD 05/01/2006 - 11/30/2007	TOTAL BUDGET PERIOD COST \$624,970.00	TOTAL PROJECT PERIOD COST \$624,970.00
------------------------------------------	-------------------------------------------	------------------------------------------	-------------------------------------------

NOTE: The Agreement must be completed in duplicate and the Original returned to the appropriate Grants Management Office listed below, within 3 calendar weeks after receipt or within any extension of time as may be granted by EPA. Receipt of a written refusal or failure to return the properly executed document within the prescribed time, may result in the withdrawal of the offer by the Agency. Any change to the Agreement by the Recipient subsequent to the document being signed by the EPA Award Official, which the Award Official determines to materially alter the Agreement, shall void the Agreement.

OFFER AND ACCEPTANCE

The United States, acting by and through the U.S. Environmental Protection Agency (EPA), hereby offers Assistance/Amendment to the Vermont D.E.C. for 80.00 % of all approved costs incurred up to and not exceeding \$499,975 for the support of approved budget period effort described in application (including all application modifications) cited in the Project Title and Description above, signed 08/22/2005 included herein by reference.

ISSUING OFFICE (GRANTS MANAGEMENT OFFICE)	AWARD APPROVAL OFFICE
ORGANIZATION / ADDRESS EPA New England 1 Congress Street, Suite 1100 Boston, MA 02114-2023	ORGANIZATION / ADDRESS U.S. EPA, EPA New England 1 Congress Street, Suite 1100 Boston, MA 02114-2023

THE UNITED STATES OF AMERICA BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY

SIGNATURE OF AWARD OFFICIAL <i>James T. Owens</i>	TYPED NAME AND TITLE James T. Owens, III, Dir. Office of Administration and Resource Mgmt.	DATE <i>4/12/06</i>
------------------------------------------------------	-----------------------------------------------------------------------------------------------	------------------------

This agreement is subject to applicable U.S. Environmental Protection Agency statutory provisions and assistance regulations. In accepting this award or amendment and any payments made pursuant thereto, (1) the undersigned represents that he is duly authorized to act on behalf of the recipient organization, and (2) the recipient agrees (a) that the award is subject to the applicable provisions of 40 CFR Chapter 1, Subchapter B and of the provisions of this agreement (and all attachments), and (b) that acceptance of any payments constitutes an agreement by the payee that the amounts, if any found by EPA to have been overpaid will be refunded or credited in full to EPA.

BY AND ON BEHALF OF THE DESIGNATED RECIPIENT ORGANIZATION

SIGNATURE <i>Jeffrey Wennberg</i>	TYPED NAME AND TITLE Jeffrey Wennberg, Commissioner	DATE <i>20 APR 06</i>
--------------------------------------	--------------------------------------------------------	--------------------------

EPA Funding Information

FUNDS	FORMER AWARD	THIS ACTION	AMENDED TOTAL
EPA Amount This Action	\$	\$ 499,975	\$ 499,975
EPA In-Kind Amount	\$	\$	\$ 0
Unexpended Prior Year Balance	\$	\$	\$ 0
Other Federal Funds	\$	\$	\$ 0
Recipient Contribution	\$	\$ 124,995	\$ 124,995
State Contribution	\$	\$	\$ 0
Local Contribution	\$	\$	\$ 0
Other Contribution	\$	\$	\$ 0
Allowable Project Cost	\$ 0	\$ 624,970	\$ 624,970

Assistance Program (CFDA)	Statutory Authority	Regulatory Authority
66.034 - Surveys-Studies-Investigations-Demonstrations and Special Purpose Activities relating to the Clean Air Act	Clean Air Act: Sec. 103	40 CFR PART 31

Fiscal									
Site Name	DCN	FY	Approp. Code	Budget Organization	PRC	Object Class	Site/Project	Cost Organization	Obligation / Deobligation
	31G001	06	E1C	01V6	101A04EAT	41.12			499,975
									499,975

Budget Summary Page

Table A - Object Class Category (Non-construction)	Total Approved Allowable Budget Period Cost
1. Personnel	\$197,401
2. Fringe Benefits	\$45,513
3. Travel	\$3,415
4. Equipment	\$155,075
5. Supplies	\$21,635
6. Contractual	\$70,754
7. Construction	\$0
8. Other	\$81,215
9. Total Direct Charges	\$575,008
10. Indirect Costs: % Base	\$49,962
11. Total (Share: Recipient <u>20.00</u> % Federal <u>80.00</u> %.)	\$624,970
12. Total Approved Assistance Amount	\$499,975
13. Program Income	\$0

**National Air Toxics Assessment
Revised Budget Detail for Federal Funds Request**

		Budget Period		From:	To:
				05/01/06	11/30/07
Position Number	Position Title	Annual Salary 2007	% to Grant	Salary Expense	Fringe Benefits
660938	Environmental Scientist III, AC: Chemistry	39,249.60	162%	63,403.20	21,176.67
660987	Environmental Technician III	35,068.80	162%	56,649.60	18,920.97
660954	Environmental Technician II	31,616.00	20%	6,323.20	2,111.95
		Total FTEs --->		3.43	
Personnel (listed above)				subtotal	\$ 126,376
Fringe Benefits (based on division average) (incl. FICA, retirement, workers' comp & personal insurance)		Rate 33.40%		subtotal	\$ 42,210
Travel (does not include BGS fleet lease payments; see "Other")					
~ Out-of-State Travel				2,030	
				subtotal	\$ 2,030
Equipment (Items with a unit cost under \$5,000 are included due to limitations of accounting system.)					
~ BTX Continuous Sampler (2 @ \$40,000 ea.)				80,000	
~ Sorbent Tube Samplers (10 @ \$675 ea.)				6,750	
~ Sequential Sorbent Tube Sampler				10,000	
~ Canister Flow Meters / Automated Timer (16 @ \$2,000)				32,000	
~ SUMMA Canisters (33 @ \$700)				23,100	
				subtotal	\$ 151,850
Supplies					
~ Sample Pump Battery Pack (20 @ \$125)				2,500	
~ Monitoring Shelters (7 @ \$1,500)				10,500	
~ Sample Pump Battery Charger				125	
~ Sorbent Tube Sample Pump Software				200	
~ Sorbent Tubes (125 @ \$50)				6,250	
				subtotal	\$ 19,575
Contractual (Sub-Awards)					
~ Subcontract for Data Analysis				27,000	
~ Subcontract with State of New Hampshire					
Personnel					
- Program Manager (156 hours @ \$25.67 / hour)		4,005			
- Technician (240 hours @ \$14.98 / hour)		3,595			
- Engineer (200 hours @ \$19.88 / hour)		3,976			
- Fringe Benefits (\$11,576 @ 49.67%)		5,750			
Equipment & Other					
- (6) Canister Flow Meters / Automated Timer		12,000			
- Monitoring Shelter		15,000			
- Administration		912			
- Indirect Costs		516			
Total for State of New Hampshire				45,754	
				subtotal	\$ 72,754
Other					
~ Canister Analysis (T0-15) - VT (250 @ \$100)				25,000	
~ Canister Analysis (T0-15) - NH (125 @ \$100)				12,500	
~ Tube GC Analysis (1,008 @ \$10)				10,080	
~ GC Tube Method Development				2,000	
				subtotal	\$ 49,580
Indirect Charges (based on % of personnel costs)		Rate 28.17%		subtotal	\$ 35,600
GRAND TOTAL				Total	\$ 499,975
		Federal Share		100%	\$ 499,975
		Non-Federal Share		0%	\$ -

STATE of VERMONT
AGENCY of NATURAL RESOURCES
DEPARTMENT of ENVIRONMENTAL CONSERVATION
~ Commissioners Office ~

MEMORANDUM

Tel: (802) 241-3512

Fax: (802) 244-5141

To: Jason Aronowitz, Financial Analyst
Department of Finance and Management

From: Jeffrey Wennberg, Commissioner
Department of Environmental Conservation

Date: July 13, 2006

Subject: AA-1 Request, including two limited service sponsored positions.

Attached is an State of Vermont AA-1 Form and accompanying supporting information, which includes two limited service positions. Please send to JFO for review and approval.

Thank you for your consideration in this matter. I am available for any additional questions

cc. Tracy LaFrance, Gloria Abbiati

REC'D JUL 17 2006

STATE OF VERMONT
REQUEST FOR GRANT ACCEPTANCE
(use additional sheets as needed)

FORM AA-1
(Rev. 9-90)

1. Agency: **Agency of Natural Resources**
2. Department: **Department of Environmental Conservation**
3. Program: **National Air Toxics Assessment**
4. Legal Title of Grant: **National Air Toxics Assessment**

5. Federal Catalog No.: **66.034**
6. Grantor and Office Address: **US Environmental Protection Agency
1 Congress Street, Suite 1100, MGM
Boston, MA 02114-2023**
7. Grant Period: **19 months** From: **05/01/2006** To: **11/30/07**

8. Purpose of Grant (attach additional sheets if needed):
Spatial and Temporal concentrations of benzene in 2 northern New England communities. A modeling validation study to aid in assessing impacts of toxic air pollutants on affected areas and yeild data to assist in development of reduction strategies.

9. Impact on Existing Programs if Grant is not Accepted:
Would lead to some delay in this program awaiting additional funding.

10. Budget Information:	(1st State FY)	(2nd State FY)	(3rd State FY)
	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>
EXPENDITURES:			
Personal Services	\$ 17,745.89	\$ 106,475.37	\$ 44,364.74
Operating Expenses	\$ 25,916.74	\$ 155,500.42	\$ 64,791.84
Other	\$ 5,218.95	\$ 31,313.68	\$ 13,047.37
TOTAL	\$ 48,881.58	\$ 293,289.47	\$ 122,203.95
REVENUES:			
State Funds:			
Cash	\$ -	\$ -	\$ -
In-Kind	\$ -	\$ -	\$ -
Federal Funds:			
(Direct Costs)	\$ 48,881.58	\$ 293,289.47	\$ 122,203.95
(Statewide Indirect)	\$ -	\$ -	\$ -
(Department Indirect)	\$ 3,747.37	\$ 22,484.21	\$ 9,368.42
Other Funds:			
(source)	\$ -	\$ -	\$ -
TOTAL	\$ 52,628.95	\$ 315,773.68	\$ 131,572.37

Grant will be	Appropriation Nos.	Amounts
allocated to these appropriation expenditure accounts:	6140030000	All

RECD JUL 17 2006

11. Will grant monies be spent by one or more personal service contracts?

YES NO

If YES, signature of appointing authority here indicates intent to follow current guidelines on bidding.

X *Garrett Schultz for JFO*

12a. Please list any requested Limited Service positions:

Titles	Number of Positions
Environmental Scientist III	1
Environmental Technician III	1
TOTAL	2

12b. Equipment and space for these positions:

Is presently available.
 Can be obtained with available funds.

13. Signature of Appointing Authority

I certify that no funds have been expended or committed in anticipation of Joint Fiscal Committee approval of this grant.

Garrett Schultz for JFO
(Signature)

5/30/06
(Date)

Commissioner
(Title)

14. Action by Governor:

Approved
 Rejected

[Signature]
(Signature)

8/10/06
(Date)

15. Secretary of Administration:

Request to JFO
 Information to JFO

[Signature]
(Signature)

8.10.06
(Date)

16. Action by Joint Fiscal Committee: (Dates)

- Request to be placed on JFC agenda _____
- Approved (not placed on agenda in 30 days) _____
- Approved by JFC _____
- Rejected by JFC _____
- Approved by Legislature _____

(Signature)

(Date)

Administrative Conditions

1. The assistance recipient agrees to comply with Executive Order 13202 (Feb. 22, 2001, 66 Fed. Reg. 11225) of February 17, 2001, entitled "Preservation of Open Competition and Government Neutrality Towards Government Contractors' Labor Relations on Federal and Federally Funded Construction Projects," as amended by Executive Order 13208 (April 11, 2001, 66 Fed. Reg. 18717) of April 6, 2001, entitled "Amendment to Executive Order 13202, Preservation of Open Competition and Government Neutrality Towards Government Contractors' Labor Relations on Federal and Federally Funded Construction Projects."

2. National Term and Condition - Indirect Costs

STATE AGENCIES

If the recipient does not have a previously established indirect cost rate, it agrees that it will prepare its indirect cost rate proposal and/or cost allocation plan and in accordance with OMB Circular A-87, "Cost Principles for State, Local, and Indian Tribal Governments."

The recipient must send its proposal to its cognizant federal agency within six (6) months after the close of the governmental unit's fiscal year. If EPA is the cognizant federal agency, the state recipient must send its indirect cost rate proposal within six (6) months after the close of the governmental unit's fiscal year to:

Regular Mail

Financial Analysis and Rate Negotiation Service Center
Office of Acquisition Management
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW, MC 3802R
Washington, DC 20460

Mail Courier (e.g. FedEx, UPS, etc.)

Financial Analysis and Rate Negotiation Service Center
Office of Acquisition Management
US Environmental Protection Agency
1300 Pennsylvania Avenue, NW, 6th floor
Bid and Proposal Room Number 61107
Washington, DC 20004

Recipients are entitled to reimbursement of indirect costs, subject to any statutory or regulatory administrative cost limitations, if they have a current rate agreement or have submitted an indirect cost rate proposal to their cognizant federal agency for review and approval. Recipients are responsible for maintaining an approved indirect cost rate. Recipients with differences between their provisional rates and final rates are not entitled to more than the award amount, without

EPA approval.

Pursuant to 40 CFR 31.26, a recipient agrees to comply with the audit requirements prescribed in the Single Audit Act Amendments, and revised OMB Circular A-133, "Audits of States, Local Governments, and Non-Profit Organizations."

3. LOBBYING AND LITIGATION - ALL RECIPIENTS

Pursuant to EPA's annual Appropriations Act, the chief executive officer of this recipient agency shall require that no grant funds have been used to engage in lobbying of the Federal Government or in litigation against the United States unless authorized under existing law. As mandated by this Act, the recipient agrees to provide certification to the award official via EPA Form 5700-53, *Lobbying and Litigation Certificate*, within 90 days after the end of project period. The form can be accessed at <http://www.epa.gov/ogd/forms/adobe/5700-53.pdf>.

Recipient shall abide by its respective OMB Circular (A-21, A-87, or A-122), which prohibits the use of federal grant funds for litigation against the United States. Any Part 30 recipient shall abide by its respective OMB Circular (A-21 or A-122), which prohibits the use of Federal grant funds to participate in various forms of lobbying or other political activities.

4. LOBBYING - ALL RECIPIENTS

The recipient agrees to comply with Title 40 CFR Part 34, *New Restrictions on Lobbying*. The recipient shall include the language of this provision in award documents for all subawards exceeding \$100,000, and require that subrecipients submit certification and disclosure forms accordingly.

In accordance with the Byrd Anti-Lobbying Amendment, any recipient who makes a prohibited expenditure under Title 40 CFR Part 34 or fails to file the required certification or lobbying forms shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such expenditure.

5. RECYCLING TERM AND CONDITION

ALL RECIPIENTS:

In accordance with EPA Order 1000.25 and Executive Order 13101, *Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition*, the recipient agrees to use recycled paper for all reports which are prepared as a part of this agreement and delivered to EPA. This requirement does not apply to reports prepared on forms supplied by EPA, or to Standard Forms, which are printed on recycled paper and are available through the General Services Administration. Please note that Section 901 of E.O. 13101, dated September 14, 1998, revoked E.O. 12873, *Federal Acquisition, Recycling, and Waste Prevention* in its entirety.

STATE AGENCIES AND POLITICAL SUBDIVISIONS:

Any State agency or agency of a political subdivision of a State which is using appropriated Federal funds shall comply with the requirements set forth in Section 6002 of the Resource Conservation and Recovery Act (RCRA) (42 U.S.C. 6962). Regulations issued under RCRA Section 6002 apply to any acquisition of an item where the purchase price exceeds \$10,000 or where the quantity of such items acquired in the course of the preceding fiscal year was \$10,000 or more. RCRA Section 6002 requires that preference be given in procurement programs to the purchase of specific products containing recycled materials identified in guidelines developed by EPA. These guidelines are listed in 40 CFR 247.

6. ALL RECIPIENTS

Recipient shall fully comply with Subpart C of 40 CFR Part 32, entitled "Responsibilities of Participants Regarding Transactions." Recipient is responsible for ensuring that any lower tier covered transaction, as described in Subpart B of 40 CFR Part 32, entitled "Covered Transactions," includes a term or condition requiring compliance with Subpart C. Recipient is responsible for further requiring the inclusion of a similar term or condition in any subsequent lower tier covered transactions. Recipient acknowledges that failing to disclose the information required under 40 CFR 32.335 may result in the delay or negation of this assistance agreement, or pursuance of legal remedies, including suspension and debarment.

Recipient may access the Excluded Parties List System at www.epls.gov. This term and condition supersedes EPA Form 5700-49, "Certification Regarding Debarment, Suspension, and Other Responsibility Matters."

7. FSR REQUIREMENT

The recipient agrees to submit an Interim Financial Status Report (FSR) (SF269) no later than 90 days after the close of the budget period. If the budget period is longer than one year, the report must be submitted annually, based on the anniversary date of the initial award. The recipient agrees to submit a final FSR no later than 90 days after the end of the project period. FSR's must be submitted to the Grants Management Office.

8. SMALL BUSINESS IN RURAL AREAS

If a recipient awards a contract under an assistance agreement, the recipient agrees and is required to utilize the following affirmative steps:

- a. Placing Small Business in Rural Area (SBRAs) on solicitation lists;
- b. Ensuring that SBRAs are solicited whenever they are potential sources;
- c. Dividing total requirements, when economically feasible, into small tasks or quantities to permit maximum participation by SBRAs;
- d. Establishing delivery schedules, where the requirements of work will permit, which would encourage participation by SBRAs;
- e. Using the services of the Small Business Administration and the Minority Business Development Agency of the U.S. Department of Commerce, as appropriate; and
- f. Requiring the contractor, if it awards subcontracts to take the affirmative steps in subparagraphs a. through e. of this condition.

9. HOTEL AND MOTEL FIRE SAFETY ACT CONDITION

The recipient agrees to ensure that all requisitions for conference, meeting, convention, or training space funded in whole or in part with Federal funds complies with the Hotel and Motel Fire Safety Act of 1990.

10. MBE/WBE FAIR SHARE

A. The recipient agrees to comply with the requirements of EPA's Program for Utilization of Small, Minority and Women's Business Enterprises in procurement under assistance agreements:

1. The recipient accepts the applicable FY 1998 Minority Business Enterprise (MBE)/Womens' Business Enterprise (WBE) "fair share" goals/objectives negotiated with EPA by the State of Vermont/DEC as the current MBE/WBE "fair share" goals/objectives as follows:

	MBE	WBE
Construction	1%	1%
Supplies	1%	1%
Services	1%	1%
Equipment	1%	1%

2. (a) The recipient agrees to ensure, to the fullest extent possible, that at least the applicable "fair share" objectives of Federal funds for prime contracts or subcontracts for supplies, construction, equipment or services are made available to organizations owned or controlled by socially and economically disadvantaged individuals, women and Historically Black Colleges and Universities.
- (b) For assistance agreements related to research under the Clean Air Act Amendments of 1990, the recipient agrees to ensure, to the fullest extent possible, that at least the applicable "fair share" objectives of Federal funds for prime contracts or subcontracts for supplies, construction, equipment or services are made available to organizations owned or controlled by socially and economically disadvantaged individuals, women, disabled Americans, Historically Black Colleges and Universities, Colleges and Universities having a student body in which 40% or more of the students are Hispanic, minority institutions having a minority student body of 50% or more, and private and voluntary organizations controlled by individuals who are socially and economically disadvantaged.

3. The recipient agrees to include in its bid documents the applicable "fair share" objectives and require all of its prime contractors to include in their bid documents for subcontracts the negotiated "fair share" percentages.
4. The recipient agrees to follow the six affirmative steps or positive efforts stated in 40 CFR §30.44(b), 40 CFR §31.36(e), or 40 CFR §35.6580, as appropriate, and retain records documenting compliance.
5. The recipient agrees to submit an EPA form 5700-52A "MBE/WBE Utilization Under Federal Grants, Cooperative Agreements and Interagency Agreements," beginning with the Federal fiscal year quarter the recipient receives the award and continuing until the project is completed. These reports must be submitted to:

U.S. Environmental Protection Agency
Office of Administration and Resource Management
Grants Management Office (MGM)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

within 30 days of the end of the Federal fiscal quarter (January 30, April 30, July 30, and October 30). For assistance awards for continuing environmental programs and assistance awards with institutions of higher education, hospitals and other non-profit organizations, the recipient agrees to submit an EPA form 5700-52A to:

U.S. Environmental Protection Agency
Office of Administration and Resource Management
Grants Management Office (MGM)
1 Congress Street, Suite 1100
Boston, MA 02114-2023

by October 30 of each year.

6. If race and /or gender neutral efforts prove inadequate to achieve a "fair share" objective, the recipient agrees to notify EPA in advance of any race and/or gender conscious action it plans to take to more closely achieve the "fair share" objective.
- B. EPA may take corrective action under 40 CFR Parts 30, 31, and 35, as appropriate, if the recipient fails to comply with these terms and conditions.

11. EPA PAYMENT METHOD

The recipient agrees to the following conditions in accepting the Automated Standard Application for Payment (ASAP)

- a. Cash drawdowns will be made only as actually needed for recipient disbursements;
- b. The recipient will provide timely reporting of cash disbursements and balances, and
- c. The recipient will impose the same standards of timing and reporting on subrecipients, if any.

Failure on the part of the recipient to comply with the above conditions may cause the unobligated portion of the ASAP to be revoked and the method of payment changed to reimbursement.

Programmatic Conditions

The recipient will develop and implement an ongoing quality system. The recipient will document this quality system in a Quality Management Plan (QMP) in accordance with "EPA Requirements for Quality Management Plans" (QA/R-2, 3/01) and submit it to EPA for approval. Within 30 days of the effective date of this assistance agreement, the recipient will submit a schedule for the submission of a QMP; the date for the submittal of the QMP will be no later than 180 days from of the effective date of this assistance agreement. Each submittal should be sent to the following:

- EPA Project Officer (see page 1 of assistance agreement for name and address) and
- Regional Quality Assurance Manager (EQA)
U.S. Environmental Protection Agency
11 Technology Drive
North Chelmsford, MA 01863

The recipient will develop Quality Assurance Project Plans [QAPP] to support all environmental data operations in accordance with "EPA Requirements for Quality Assurance Project Plans" (QA/R-5, 3/01) and/or the "The EPA New England Quality Assurance Project Plan Program Guidance," 2005. The term "environmental data operations" refers to any measurement or information that describe environmental processes, conditions, or location; ecological or health effects; produced from models; compiled from other sources such as data bases and literature; or the performance of environmental technology. The Quality Assurance Project Plan must be approved by EPA before any data collection and/or generation activities begin. Unless an alternate schedule was previously agreed upon, no later than 30 days prior to the scheduled commencement of data collection and/or data generation activities, the recipient will submit a Quality Assurance Project Plan to the following:

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- Regional Quality Assurance Manager (EQA)
U.S. Environmental Protection Agency
11 Technology Drive
North Chelmsford, MA 01863

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