



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
RESEARCH TRIANGLE PARK, NC 27711

March 14, 2006

OFFICE OF  
AIR QUALITY PLANNING  
AND STANDARDS

MEMORANDUM

SUBJECT: FY 2006-funded Utilization of the National Contract for Site Support and Laboratory Analysis of Ambient Speciated Nonmethane Organic Compounds (SNMOC), Total Nonmethane Organic Compound (NMOC), Toxics (UATMP), Photochemical Assessment Monitoring (PAMS), and Hazardous Air Pollutants (HAP's)

FROM: Phil Lorang, Group Leader  
Ambient Air Monitoring Group (D243-02)

A handwritten signature in black ink, appearing to read "Phil Lorang", written over the "FROM:" line.

TO: Toxics Contacts, Regions 1-10  
PAMS Coordinators, Regions 1-10  
NAMS/SLAMS Coordinators, Regions 1-10

The purpose of this memorandum is to solicit your Region's specifications for the associated program support you will provide to States in the form of field support and laboratory analysis of ambient air samples via the 5-year national contract awarded to Eastern Research Group (ERG) to cover such services for FY 2004-2009. This contract includes analysis support for the SNMOC, NMOC, UATMP, PAMS, and selected HAP's categories, along with Performance Evaluation (PE) sample analyses. Performance Evaluation samples are also referred to as Proficiency Testing samples. The contract also provides for media and analysis of dansyl hydrazine (DNSH) or dinitrophenylhydrazine (DNPH) cartridges for acrolein sampling, but OAQPS no longer recommends either of these methods and will not accept requests for its use. Acrolein in ambient air should be measured in the gas phase using TO15. All TO 15 analysis ordered under the contract will include report of the acrolein results. A brief description and summary of the available ambient monitoring support programs and their unit costs can be found in Table 1. FY 2007 unit costs have also been included for planning purposes.

Ozone-season SNMOC/NMOC/PAMS-list VOC sampling and carbonyl sampling usually begin the first week in June. New and continuing UATMP sites are normally initiated in fall/winter; however, HAP analysis support and any other programs that require VOC analyses can be started at any time during the year. FY 2006 funding is used to support samples received between June 1, 2006 and June 30, 2007.

If your State/local monitoring agencies or Tribal monitoring organizations want to participate in these programs, you should follow the procedures outlined below:

1. After surveying your agencies, you should send an e-mail to Maggie Dougherty in EPA, OAQPS, Research Triangle Park, NC ([dougherty.margaret@epa.gov](mailto:dougherty.margaret@epa.gov)) identifying the desired program line item number(s) from Table 1, the desired number of sites and/or samples, and the period of performance.

For FY 2006, state/local STAG funds have been identified and set aside in OAQPS for associated program support via this national contract before determining the Region-by-Region allocation of grant funds. These funds are shown in Table 2, which contains the same amounts as in Table A-7 of the FY 2006 National Program and Grant Guidance ([http://www.epa.gov/ocfo/npmguidance/oar/2005/oar\\_finalnpmguide.pdf](http://www.epa.gov/ocfo/npmguidance/oar/2005/oar_finalnpmguide.pdf)) except for subsequent adjustments of the Regional office totals for FY2006 rescissions and taps. The value of associated services actually utilized up to the amounts shown in the bottom line of Table 2 does not count in determining the overall 105 STAG match requirement by the state/local agency.

If the funds set aside are more than needed, OAQPS can transfer back to your Region the surplus funds for use in your grants to the same or other state/local agencies. If the amount of funds set aside is less than the costs of services needed by your state/local monitoring agencies, you can send a procurement request/commitment notice or transfer funds to OAQPS (RPIO-27; Budget Organization – 53GS; Budget Object Class - 4183) to cover the difference. Funds transferred in this way do count in determining the overall 105 STAG match requirement by the state/local agency.

Information you provide by April 1, 2006, regarding whether the amounts shown in Table 2 are appropriate for services needed in the July 1, 2006 through June 1, 2007 period will also be used to formulate Table A-7 of the FY 2007 National Program and Grant Guidance document, unless you also provide a different estimate for the July 1, 2007 through June 30, 2008 period. Good estimates now will avoid unnecessary funds transfer later, and can help minimize the amount of the required FY 2007 state/local match.

2. For services requested by a Tribal organization, you need to send a procurement request/commitment notice to transfer Tribal STAG funds to OAQPS.

3. Upon receipt of your request, Mrs. Dougherty will prepare the appropriate paperwork to forward to the Contracts Office. The contractor cannot begin work until a Delivery Order is issued against the ERG contract by the EPA Contracting Officer. After the Delivery Order is awarded, the contractor will contact the State/local agency to coordinate the start date and arrange shipping of collection media, etc. To assure that services can begin in a timely manner, you should allow at least 6 weeks from the submittal of the request. **If you do not get your request in before August 1, 2006, please use the FY07 pricing.** If you need more information or clarification, please call Mrs. Dougherty at 919/541-2344.

Attachments

Table 1  
 SNMOC/NMOC/ UATMP, PAMS, and HAP's Support  
 and Associated Costs (2006 and 2007)

Line Item		Unit	Cost (\$) FY06/FY07	Shipping (\$)	Total (\$)
0001	<u>Speciated NMOC and NMOC Base Site Support</u> • Standard Base program requires 96 SNMOC samples total (Base Collection frequency, 4 months, 5 days per week) • Site Coordination • QA/QC Program and Standards • Instrument Certification and Installation • Travel • Final Data Validation, Reduction, Reporting • Options A through E below must be specified at the beginning of the program	Per Site	10,245/10,372	500/500	10,745/10,872
0001A*	NMOC Sample Analysis Using TO-12 • Canister Cleaning and Handling • NMOC analysis using TO-12 • Monthly Data Validation, Reduction, Reporting • AIRS Input	Per Sample	87/89	30	117/119
0001B*	Speciated NMOC Sample Analysis Using GC/FID • Canister Cleaning and Handling • Speciated NMOC Analysis using GC/FID w/MSD verification when needed • Monthly Data Validation, Reduction, Reporting • AIRS Input	Per Sample	288/294	30	318/324
0001C*	Toxics Sample Analysis Using TO-15 • Canister Cleaning and Handling • Toxics Sample Analysis Using TO-15 (including acrolein) • Monthly Data Validation, Reduction, Reporting • AIRS Input	Per Sample	356/366	30	386/396
0001D*	Carbonyl Sample Analysis Using TO-11A, including sample cartridge • Carbonyl Analysis using TO-11A for 15 Target compounds (not including acrolein) • Purchase and distribution of DNPH cartridges • Monthly Data Validation, Reduction, Reporting • AIRS Input	Per Sample	125/126	8	133/134

Line Item		Unit	Cost (\$) FY06/FY07	Shipping (\$)	Total (\$)
0001E*	Concurrent Toxics and Speciated Hydrocarbon Sample Analysis Using TO-15 and GC/MS-FID <ul style="list-style-type: none"> <li>• Canister cleaning and handling</li> <li>• One concurrent sample analysis with toxics analysis on the GC/MSD and SNMOC on the GC/FID with MSD verification when needed</li> <li>• Monthly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> </ul>	Per Sample	465/472	30	495/502
0002	UATMP Base Site Support <ul style="list-style-type: none"> <li>• (Base program frequency is 1 year, 1 sample per 12 days)</li> <li>• Site support (problem solving/trouble shooting)</li> <li>• Site coordination</li> <li>• Instrument Certification and Installation</li> <li>• Travel</li> <li>• QA/QC Program and Standards</li> <li>• Final Data Validation, Reduction, Reporting</li> <li>• Options A through D below must be specified at the beginning of the program</li> </ul>	Per Site	16,061/16,295	500	16,561/16,795
0002A*	Toxics Sample Analysis Using TO-15 <ul style="list-style-type: none"> <li>• Canister Cleaning and Handling</li> <li>• Toxics Analysis using TO-15 (including acrolein)</li> <li>• Quarterly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> <li>• Typical Base Program requires at least 37 samples, replicates and duplicates</li> </ul>	Per Sample	356/361	30	386/391
0002B*	Carbonyl Sample Analysis Using TO-11A, including sample cartridge <ul style="list-style-type: none"> <li>• DNPH cartridge handling</li> <li>• Carbonyl analysis using TO-11A for 15 Target compounds (not including acrolein)</li> <li>• Purchase and distribution of DNPH cartridges</li> <li>• Quarterly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> <li>• Typical Base Program requires at least 53 samples, replicates and duplicates and field blanks</li> </ul>	Per Sample	127/131	8	135/139

Line Item		Unit	Cost (\$) FY06/FY07	Shipping (\$)	Total (\$)
0002C*	Speciated NMOC Sample Analysis Using GC/FID <ul style="list-style-type: none"> <li>• Canister Cleaning and Handling</li> <li>• Speciated NMOC Analysis using GC/FID w/MSD verification when needed</li> <li>• Quarterly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> </ul>	Per Sample	287/292	30	317/322
0002D*	Concurrent Toxics and Speciated Hydrocarbon Sample Analysis Using TO-15 and TC/MS-FID <ul style="list-style-type: none"> <li>• Canister cleaning and handling</li> <li>• One concurrent sample analysis with toxics analysis on the GC/MSD and SNMOC on the GC/FID with MSD verification when needed</li> <li>• Quarterly Data Validation, Reduction, Report</li> <li>• AIRS Input</li> </ul>	Per Sample	465/472	30	495/502
0003	Carbonyl Base Site Support <ul style="list-style-type: none"> <li>• (Base program frequency is 1 year, 1 sample per 12 days)</li> <li>• Site support (problem solving/trouble shooting)</li> <li>• Site Coordination</li> <li>• Instrument Certification and Installation</li> <li>• Travel</li> <li>• QA/QC Program and Standards</li> <li>• Final Data Validation, Reduction, Reporting</li> <li>• Option A must be specified at the beginning of the program</li> </ul>	Per Site	7,689/7,775	500	8,189/8,275
0003A*	Carbonyl Sample Analysis Using TO-11A, including sample cartridge <ul style="list-style-type: none"> <li>• DNPH cartridge handling</li> <li>• Carbonyl Analysis using TO-11A for 15 Target compounds (not including acrolein)</li> <li>• 10% Replicates, Duplicates, and Blanks</li> <li>• Purchase and distribution of DNPH cartridges</li> <li>• Monthly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> </ul>	Per Sample	125/126	8	133/134
0004	PAMS Technical Site Support <ul style="list-style-type: none"> <li>• Preventive maintenance on instrumentation (Ian Seeley Support)</li> <li>• On-site technical assistance and consultation for PAMS VOC analysis set-up and operation</li> <li>• Options A through E below must be specified at the beginning of the program</li> </ul>	Per Site	9,400/9,625	100	9,500/9,725

Line Item		Unit	Cost (\$) FY06/FY07	Shipping (\$)	Total (\$)
0004A	PAMS QA Support (80 hours) <ul style="list-style-type: none"> <li>• QC data validation on analysis (STI Support)</li> <li>• Technical QA Support as required</li> <li>• Standard prep, round robin analysis support, and data validation, reduction and analysis</li> <li>• Coordinate sample sharing services</li> <li>• Provide audit standards containing at least 8 species tested in the TAD for GC analysis</li> </ul>	Per Site	9,580/9,770	N/A	9,580/9,770
0004B	PAMS Canister Sample analysis following the TAD <ul style="list-style-type: none"> <li>• Canister cleaning and handling</li> <li>• VOC analysis (PAMS list) using the GC/FID with MSD verification when needed. Requires 10% reps and dups</li> <li>• Monthly data validation, reduction, and reporting</li> <li>• AIRS input</li> </ul>	Per Sample	289/293	30	319/323
0004C	Carbonyl Sample Analysis Using TO-11A, including sample cartridge <ul style="list-style-type: none"> <li>• DNPH cartridge handling</li> <li>• Carbonyl analysis using TO-11A for 15 target compounds (not including acrolein)</li> <li>• Typically requires 10% Reps, Dups, and Blanks</li> <li>• Purchase and distribution of DNPH cartridge</li> <li>• Monthly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> </ul>	Per Sample	125/126	8	133/134
0004D	Toxics Sample Analysis Using TO-15 <ul style="list-style-type: none"> <li>• Canister cleaning and handling</li> <li>• Toxics analysis using TO-15 (including acrolein)</li> <li>• Monthly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> </ul>	Per Sample	360/366	30	390/396
0004E	Concurrent Toxics and Speciated Hydrocarbon Sample Analysis Using TO-15 and GC/MS-FID <ul style="list-style-type: none"> <li>• Canister Cleaning and Handling</li> <li>• one concurrent sample analysis with toxics analysis on the GC/MSD and SNMOC analysis on the GC/FID w/MSD verification when needed</li> <li>• Monthly Data Validation, Reduction, Reporting</li> <li>• AIRS Input</li> </ul>	Per Sample	465/471	30	495/501

Line Item		Unit	Cost (\$) FY06/FY07	Shipping (\$)	Total (\$)
The following applies only to line item 0005 and any 0005 subitems:					
(a) Analysis types listed as subitems can be ordered individually or in combination; however, the minimum order is 90 samples					
(b) All sample collection activities and associated equipment are to be provided by the participants.					
(c) Sample analysis only					
(d) Monthly Data Validation, Reduction, and Reporting					
(e) A monthly final letter report will present the HAPS data in a validatable format, but not in the contract laboratory program					
(f) HAP's data entry into the AIRS database final data set					
(g) Samples media appropriate for the proposed methods.					
0005	Hazardous Air Pollutants Support (HAPS)	Per Bulk Support	35,443/36,249	1,000	36,443/37,249
0005A	Category I HAPS only costs (TO-15)	Per Sample	360/365	30	390/395
0005B	Category II HAPS only costs (TO-11A)	Per Sample	125/127	8	133/135
0005C1	Category III HAPS - Hydrazine	Per Sample	228/230	8	236/238
0005C2	Category III HAPS - Hydrocyanic Acid	Per Sample	194/202	8	202/210
0005C3	Category III HAPS - Carbon Disulfide	Per Sample	222/228	8	230/236
0005C4	Category III HAPS - Phosgene	Per Sample	159/161	8	167/169
0005C5	Category III HAPS - Bis(2-chloroethyl) ether & Bis (2-ethylhexyl) phthalate - (include with semi volatiles)	Per Sample	463/470	30	493/500
0005C6	Category III HAPS - 2, 3, 7, 8 Tetrachlorodibenzo-p-dioxin (includes management fee)	Per Sample	528/553	30	558/583
0005C7	Category III HAPS - Ethylene Oxide	Per Sample	218/233	8	226/241
0005D	Category IV HAPS only costs (semi volatiles by 8270)	Per Sample	470/477	30	500/507
0005E	Category V HAPS only costs (metals by ICP/MS)	Per Sample	229/239	8	237/247

Line Item		Unit	Cost (\$) FY06/FY07	Shipping (\$)	Total (\$)
0005F	Hexavalent Chromium (California Method 049)	Per Sample	173/176	8	181/184
0005G	Hexavalent Chromium Base Support * Contractor shall provide a Chrome VI Collection System	Per Site	6,637/6,735	500	7,137/7,235
0005H	Acrolein monitor & sample analyses using DNSH-cartridge cartridge sampling (methods as described in "Development of the Personal (CLP) format. Aldehydes and Ketones Sampler Based Upon DNSH Derivatization on Solid Sorbent")	Per Sample	NOT AVAILABLE		
0006A	PE sample analysis, VOC's	Per Sample	551/560	8	559/568
0006B	PE Sample analysis, Carbonyls	Per Sample	217/221	8	225/229
0006C	PE sample analysis, PAH's	Per Sample	254/258	8	262/266
0006D	PE sample analysis, Metals	Per Sample	252/256	8	260/264

**\*Cannot be selected as a stand-alone program**

PE samples shall be generated and analyzed and sent as "blind" samples to the participating agency. If an agency uses national contractor for analysis, the agency will not be able to use this contract for PE sample support.

**TABLE 2**  
**FY2006 STAG Funds Held by OAQPS for Associated Program Support**

Region	1	2	3	4	5	6	7	8	9	10	Totals
Funds Identified in "Final National Program and Grant Guidance for Fiscal Years 2006 - 2008," April 27, 2005											
Categories											
SNMOC Sampling Sites				26,271							26,271
UATMP Sites		468,276		29,264				128,608			626,148
PAMS Q/A Support	10,139	11,273	14,772	28,690	29,004	2,463			125,000		221,341
Carbonyl Monitoring		41,160		93,626	12,000				30,000		176,786
HAP Support		26,714									26,714
PM Filters	6,461	18,442	38,372	59,810	76,312	19,112	25,262	33,086	55,000	27,258	359,115
Totals	16,600	565,865	53,144	237,661	117,316	21,575	25,262	161,694	210,000	27,258	1,436,375
Revised FY06 totals including tap and rescission	16,356	557,540	52,362	234,164	115,590	21,258	24,890	159,315	206,910	26,857	1,415,242