



## NADP Shared Services and Responsibilities

### NADP Program Office Commitment

The National Atmospheric Deposition Program (NADP) is a cooperative research program which measures, assesses and reports on the exposure of natural and cultural resources to atmospheric chemical deposition throughout North America. Support for this cooperative research program comes from federal, state, and local government agencies; Native American organizations; State Agricultural Experiment Stations (SAES); universities; and non-governmental organizations. Data from NADP is used to facilitate cleaner water, healthier air quality, more productive fisheries, smarter environmental planning, improved air quality forecasting, stronger roads and buildings and responsible environmental stewardship. The Program Office, located at the Wisconsin State Laboratory of Hygiene at the University of Wisconsin-Madison, coordinates the five NADP networks:

1. **National Trends Network (NTN).** The NTN provides data on the amounts, trends, and geographic distributions of the deposition of acids, nutrients, and base cations in precipitation. NTN sites collect weekly samples that are sent to the NADP Central Analytical Laboratory (CAL) for measurement of acidity (as pH), solution conductivity, sulfate, chloride, nitrate, orthophosphate, ammonium, calcium, magnesium, sodium and potassium.
2. **Mercury Deposition Network (MDN).** The MDN provides data on the amounts, trends, and geographic distributions of the deposition of mercury by precipitation. MDN sites collect weekly samples. MDN samples are sent to the NADP Mercury Analytical Laboratory for measurement of total mercury. Methyl mercury measurements are an option.
3. **Atmospheric Mercury Network (AMNet).** The AMNet provides data on the concentrations of gaseous elemental mercury and can also include mercury speciation sampling in air samples collected at sites. Measurements are used to develop estimates for total and dry mercury deposition.
4. **Ammonia Monitoring Network (AMoN).** The AMoN provides data to evaluate long-term trends in ambient ammonia concentrations and deposition, and aids in understanding of nitrogen inputs to the environment.
5. **Mercury Litterfall Network (MLN).** The MLN provides data on the amounts and geographic distributions of mercury deposition through biomass movement to the Earth's surface. The MLN sites collect monthly/seasonal samples. MLN samples are sent to the NADP Mercury Analytical Laboratory (HAL) for measurement of total and methyl mercury.

The NADP Program Office will provide the coordination, provision of chemical analysis and data validation, site operator support and training, limited equipment repair, quality assurance, and management of NADP database and Web site (<http://nadp.slh.wisc.edu>). This Web site provides access to weekly and daily precipitation chemistry data; monthly, seasonal and annual precipitation-weighted mean concentrations; annual and seasonal wet deposition amounts; daily precipitation amounts; color maps of precipitation concentrations and wet deposition amounts;

atmospheric mercury concentrations; descriptive site information; annual reports and brochures; and operations manuals and quality assurance information. The Program Office will also produce special reports, outreach, and planning and implementation of bi-annual business meetings and an annual scientific symposium.

### **NADP Subscriber Commitment**

Partnerships are created with the NADP Program Office to establish site(s) with one or more networks as listed above. To ensure the highest data quality for your site and the NADP network, the subscriber provide a sample site that meets NADP siting requirements, conduct weekly site visits, equipment maintenance, ensure site operators are properly trained, follow the NADP and network manuals and standard operating procedures (<http://nadp.slh.wisc.edu/siteOps/>), collect and submit the samples and data in a timely manner, and communicate with the PO timely reports of equipment malfunctions and problems and with monthly review of preliminary data.

### **Quotes/Invoicing/Payments**

The Wisconsin State Laboratory of Hygiene – Accounts Receivable department will provide quotes representing an annual dollar amount for each site and network. Quotes can be designed to meet the fiscal budgeting and business process needs of your organization. Invoices will be created on a defined schedule as it pertains to your business process in a quarterly, semi-annual, or annual basis. All invoices will be emailed to the fiscal contact identified on the billing account. Accepted payment methods are: ACH/EFT, credit card, and check. This information is listed on the invoice. You can contact WSLH-Accounts Receivable by emailing [NADPbill@slh.wisc.edu](mailto:NADPbill@slh.wisc.edu).

Fees are based on an annual period of 12 months (see next page). The fee schedule is reviewed annually between WSLH NADP Program Office and the NADP Budget Committee. Notifications of price increases and the effective date will be sent to all subscribers at that time.



## Annual Network Operating Costs

	<u>National Trends Network (NTN)</u>	<u>Mercury Deposition Network (MDN)</u>		<u>Ammonia Monitoring Network (AMoN)</u>		<u>Atmospheric Mercury Network (AMNet)</u>		<u>Mercury Litterfall Network (MLN)</u>
	Basic Sampling	Total Mercury (TM) Weekly	Methyl Hg (MM) Monthly	Basic Sampling		Basic Sampling		Basic Sampling
Program Office/Data	\$1,000	\$2,300	\$1,950	Single	Triplicate	Speciation	GEM Only	Season
Analytical charges	\$4,264	\$6,994	-	\$500	\$500	\$6,000	\$4,000	-
NED Fee (equipment)	\$182	\$182	-	\$1,976	\$2,964	-	-	\$2,000
				-	-	-	-	-
<b>TOTAL</b>	<b>\$5,446</b>	<b>\$9,476</b>	<b>\$11,426</b>	<b>\$2,476</b>	<b>\$3,464</b>	<b>\$6,000</b>	<b>\$4,000</b>	<b>\$2,000</b>
Return shipping (to lab)	Not included	\$480	-	Included		-	-	Not Included
<b>Notes:</b>	Return shipping of 1000 mL Nalgene bottle and supplies to Madison, WI USA Will vary based on location.  NED Fee = \$3.50/week for equipment repair services	TM Chem = \$134.50*52 wks  Daily TM is available as an option, contact PO.  Return shipping to the lab is available as an option.	MM Chem = \$150*13 (4 wk period/yr.)  Weekly or 4 weekly MM must be done with TM	Continental U.S. 2-way shipping is included.  Out of country one-way shipping may require additional charges.  First year of sampling requires a \$100 sampler housing charge.		Speciation sites measure gaseous elemental Hg (GEM), gaseous oxidized Hg (GOM), and particulate-bound mercury (PBM).  GEM Only sites measure gaseous elemental mercury.  (Includes site visit, QA of data, and pending deposition calculations)		Return shipping of samples and supplies to Madison, WI USA will vary based on location.

NADP Approved Equipment				
	Price*	NTN	MDN	Supplier
<b>Precipitation Gage (2 options)</b>				
ETI NOAH IV	\$5,990	X	X	<a href="#">ETI Instrument Systems, Inc.</a> 1225 Red Cedar Circle, Suite A Fort Collins, CO 80524 Tel.970-484-9393 Email: <a href="mailto:info@etisensors.com">info@etisensors.com</a>
or				
Ott Pluvio <sup>2</sup> L or S	\$3,950/\$4315	X	X	Hach Environmental ( <a href="#">OTT Hydromet</a> ) 5600 Lindbergh Drive Loveland, CO 80539 Tel. 800-949-3766 Email: <a href="mailto:sales@otthydromet.com">sales@otthydromet.com</a>
Ott requires additional data system	~\$1,400	X	X	Manufactured at the NADP PO
<b>Precipitation Collector</b>				
NCON Bucket Style Precipitation Collector (00-120-110)	\$4,995	X		<a href="#">NCON Systems</a> 130 Old Edwards Road Arnoldsville, GA 30619 Tel. 800-932-6266 Email: <a href="mailto:info@n-con.com">info@n-con.com</a>
NCON Single Chimney Precipitation Collector (00-125-110)	\$5,790		X	
or NCON Dual Chimney Precipitation Collector (00-127-110)	\$6,600		X	
<b>Possible Additional Equipment</b>				
Android device for data transfer		X	X	Contact PO for requirements Tel. 800-952-7353 Email: <a href="mailto:nadp@slh.wisc.edu">nadp@slh.wisc.edu</a>
SC115 Data transfer key	\$225	X	X	
Alter Windshield (required at snowy sites, <a href="#">see map</a> )	\$570	Possible		
Balance for sample weighing	\$650	X		



ETI Rain Gage



Hach Pluvio<sup>2</sup> Gage



NCON Bucket Style Collector



NCON Chimney Style Collector

\* Contact the vendor for most up to date equipment costs