

Network Management

Rotek Environmental Inc. provides a full range of monitoring requirements in support of Ambient Air Monitoring Networks. Along with providing technical expertise in the selection, operation and maintenance of specialized air monitoring instrumentation, we have proven experience in the area of Network Management. For several years, Rotek has provided contractual support for the Nanticoke Environmental Committee (NEC) air monitoring program.

This network consists of state-of-the-art continuous air monitoring instrumentation, real-time telemetry, data acquisition and a number of particulate and VOC monitoring instruments. Monitoring is required in support of local airshed management, both Provincial and Federal monitoring programs and to assess off property impacts of local industries (Figure 1).

Rotek provides a full line of network management requirements to meet program delivery. These Network functions include ;

Budgetary Requirement

- prepare annual operating budget (Figure2)
- provide and maintain the required budgetary documentation
- provide detailed breakdown of operational costs
- negotiate with suppliers for competitive pricing
- coordinate payment of associated utility costs such as; (communication & hydro)
- provide monthly summary of utility accounts and lease agreements

Network Service Contract

- provide and stock parts/ supplies required to maintain air monitoring network with minimal downtime
- operate, maintain, service and repair required network instrumentation
- coordinate required utility services such as, hydro and communication
- coordinate offsite lease agreements with land owners
- coordinate activities of sub-contractors providing support to the network such as; software upgrades, compatible data acquisition systems ,Electrical / HVAC contractors

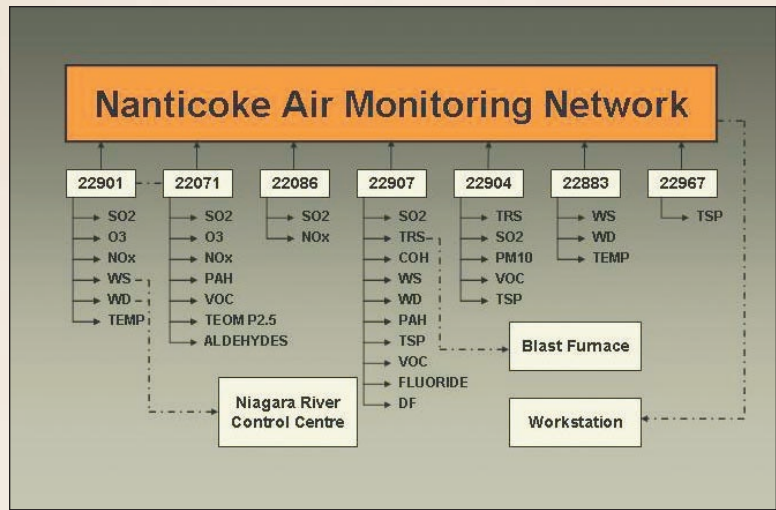


Figure 1 - Nanticoke Air Monitoring Network

- provide Web based data access
- provide Health and Safety requirements and comply with all applicable codes
- provide back-up instrumentation to minimize downtime
- provide 24 hour service
- carry out special survey requests

Laboratory Support

- negotiate with accredited laboratories for sample analysis
- coordinate shipping of samples to and from laboratories
- provide, complete and maintain required field data sheets and chain of custody forms

Quality Assurance and Control Requirements

- incorporate required QA/QC activities
- maintain scheduled calibration records
- provide required annual summaries of all data and QA/QC reports.

Data Reporting and Validation Requirements

- provide data summaries as per client requirements
- apply required correction factors to data
- provide both raw and finalized QA/QC edited data

Commissioning Air Monitoring Stations

- purchase / lease or rent air monitoring stations
- obtain required permits for station installation
- arrange for security and safety mechanisms such as; fencing and intruder alarm systems
- ensure adequate climate control
- ensure Health and Safety requirements such as; roof access ladder, safety grading and roof railing (Figure 3)
- provide station up-grading as needed
- Installation of glass sampling manifold and sample probes (Figure 4)

Providing Training Courses

- provide specific training for clients on the operation and maintenance of air monitoring instrumentation
- develop a training plan for the operation and maintenance of air monitoring instrumentation
- provide course outline, supporting documentation material and hands on training
- provide on-going technical support to client
- carry out module lectures and presentations

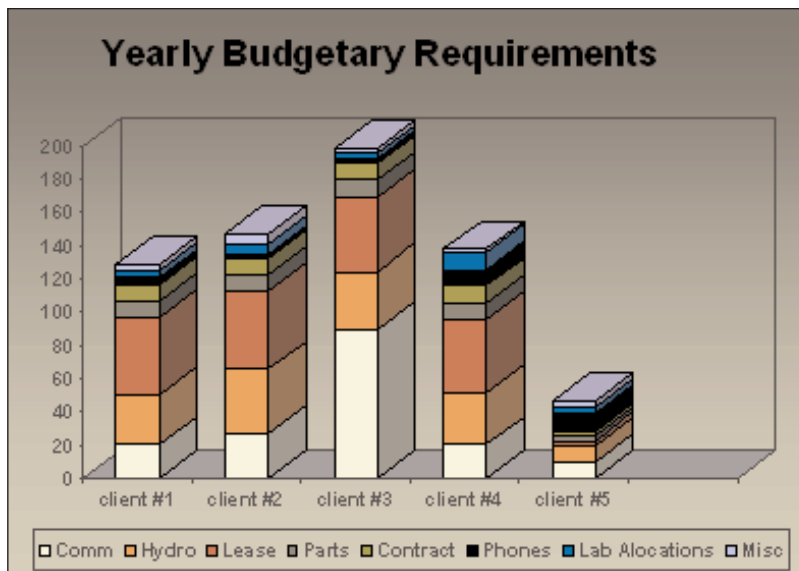


Figure 2 - Budgetary Requirements



Figure 3 - Nanticoke Air Monitoring Station

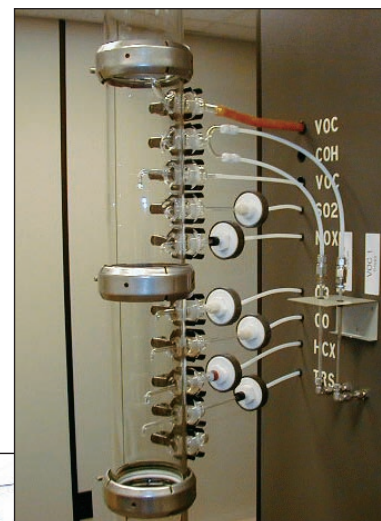


Figure 4 - Glass Sampling Manifold