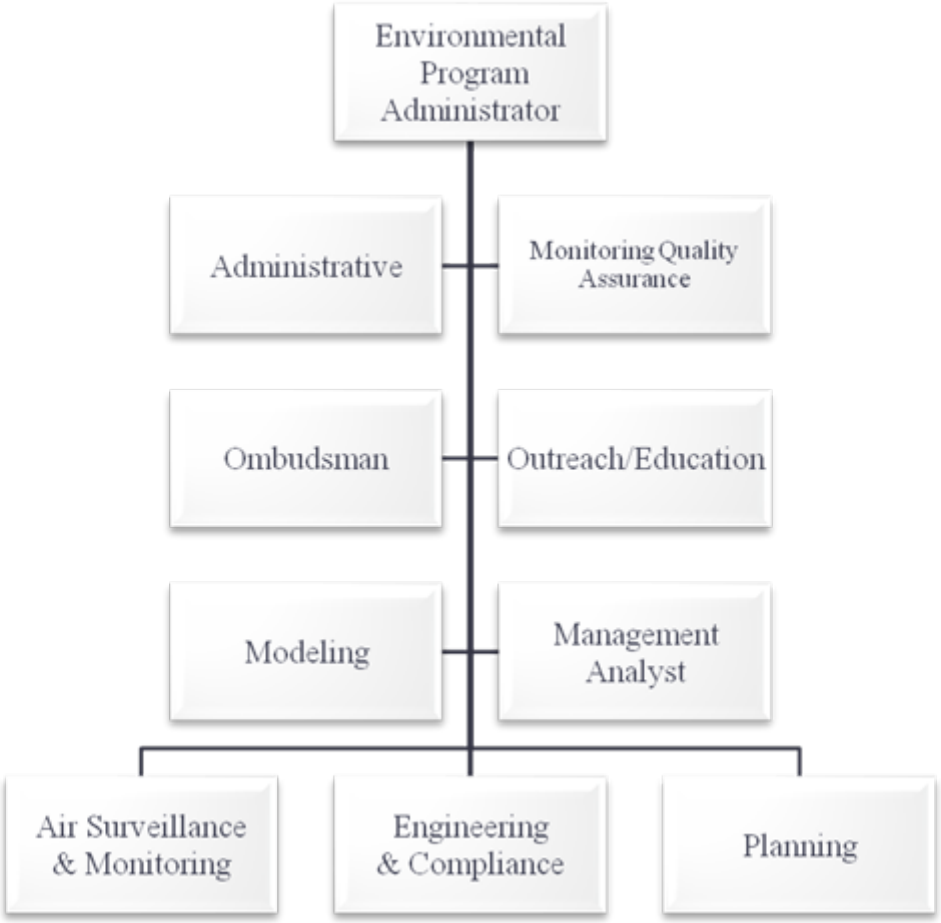
Planning, Organizing, and Implementing Special Studies: Priorities, Resources, Results - Examples and Discussion

DNREC – Air Surveillance

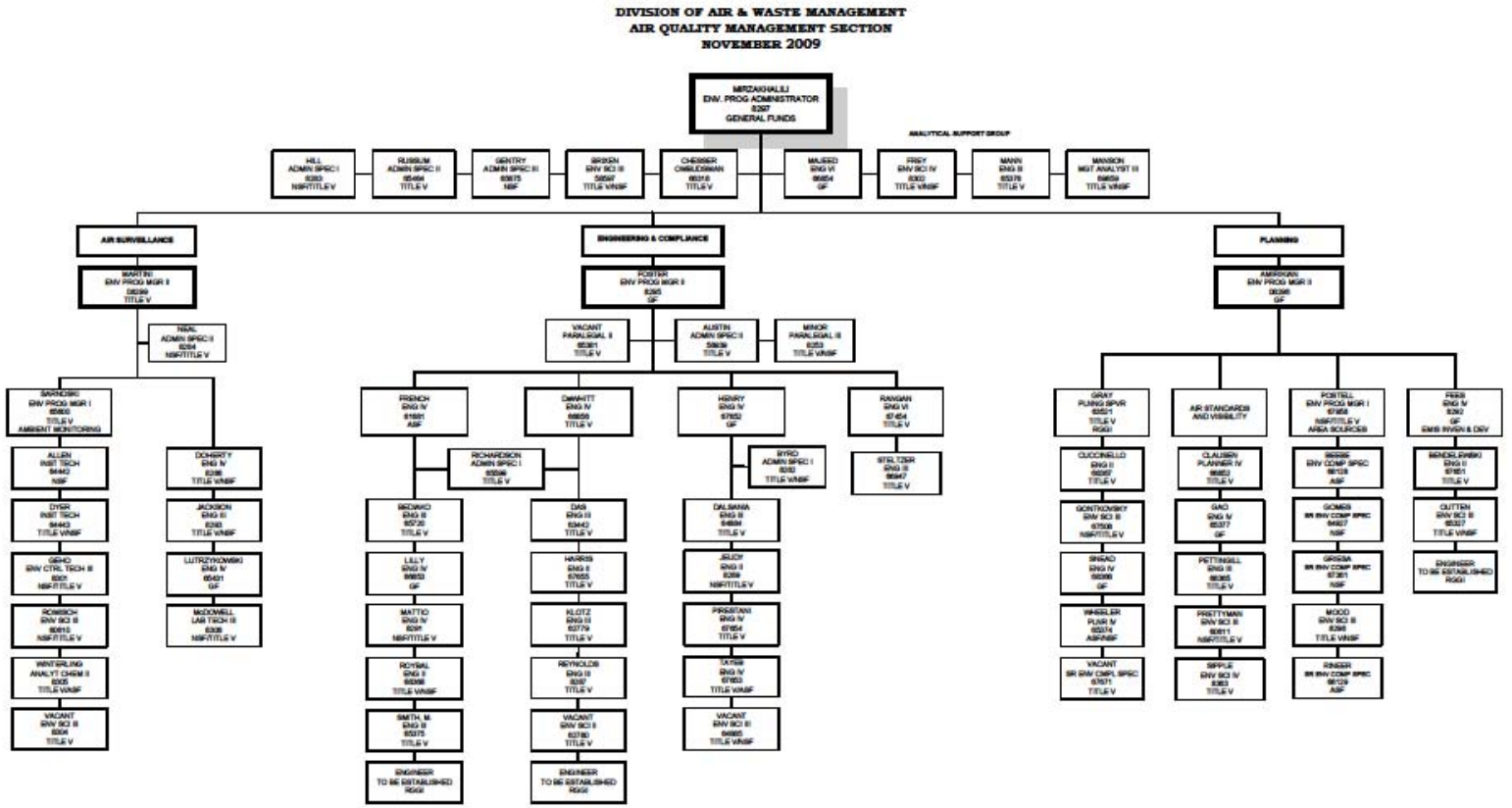
Prepared for: MARAMA Air Monitoring Meeting

February 23 – 24, 2010

Organization of Air Quality Management



Air Quality Management



Strategic Planning

Air Surveillance Branch

- Air Quality Management Mission:
  - To continuously optimize Delaware's Air quality by working with businesses to protect public health, welfare, and the environment.
- Air Surveillance Branch Mission:
  - To support the section mission by verifying actual air pollution emission levels from industrial sources and by monitoring outdoor air pollutants.

Air Surveillance Branch

- Air Surveillance Branch Objectives:
  - Conduct engineering reviews of the plans and methods used for stack testing.
  - Review the plans for the installation and subsequent RATAs of CEMS.
  - Provided analytical / technical support for other Departments / Section programs.
  - Measure ambient concentrations of selected air pollutants and selected meteorological parameters.
  - Ensure data quality through a comprehensive quality assurance and assessment program.
  - Report ambient air concentrations of selected air pollutants and meteorological parameters.
  - Perform administrative responsibilities

Air Surveillance Business Plan

- This document sets out a strategic plan.
- It reviews strengths, weaknesses, threats and opportunities.
- Presents a series of statements relating to our vision, mission, values and objectives.
- Sets out proposed strategies and goals.

Air Surveillance Business Plan

- ***Key Strategies***
  - Non-federal funding will support up to 60% of future expansion.
  - New monitoring equipment will aggressively replace existing equipment within the next 3 - 5 years. (Refer to Attachment A)
  - Value-stream mapping will be integrated into the ambient monitoring program within 1 - 2 years.
  - A fully functional paperless business operation will be implemented in the Source testing group within 1 year.
  - An adequate training program will be developed for all team members within 1 year.

Air Surveillance Business Plan

- ***Key Strategies***
  - A comprehensive inventory of all equipment, indicating age, depreciated value, and replacement cost will be developed within 6 months. A complete parts inventory will be maintained utilizing a Stock room minimum system for consumable items.
  - A process will be developed for preparing, maintaining, and filing Standard Operating Procedures.
  - A routine schedule of performance evaluations will occur to identify any weakness prior to it affecting section objectives.

Air Surveillance Business Plan

- ***Key Strategies***
  - Develop revenue expectations for the branch.
  - Develop a capital budget for the branch.
  - Work with the Section in development of Succession Planning activities.
  - Develop improved partnerships with IT, U of D, and trade organizations.
  - Improve Branch visibility by requiring team participation in trade committees and activities.
  - Develop program for presenting “Special Project” findings to department and other interested organizations.

Types of Special Projects

- Two Categories
  - Planned
  - Directive
    - Short-term (less than one year)
    - Long-term (one year or longer)

Planned Projects

- Examples
  - Delaware Air Toxics Assessment Study
  - Delaware Enhanced Air Toxics Assessment Study
  - Delaware Community Air Toxics Study

Directive Projects

- Examples
  - I-495 Odor Sampling
  - Profiler
  - Dust Sampling around a yard waste site
  - Community air sampling in Wilmington
  - Community air sampling around Claymont Steel
  - Nanoparticle sampling

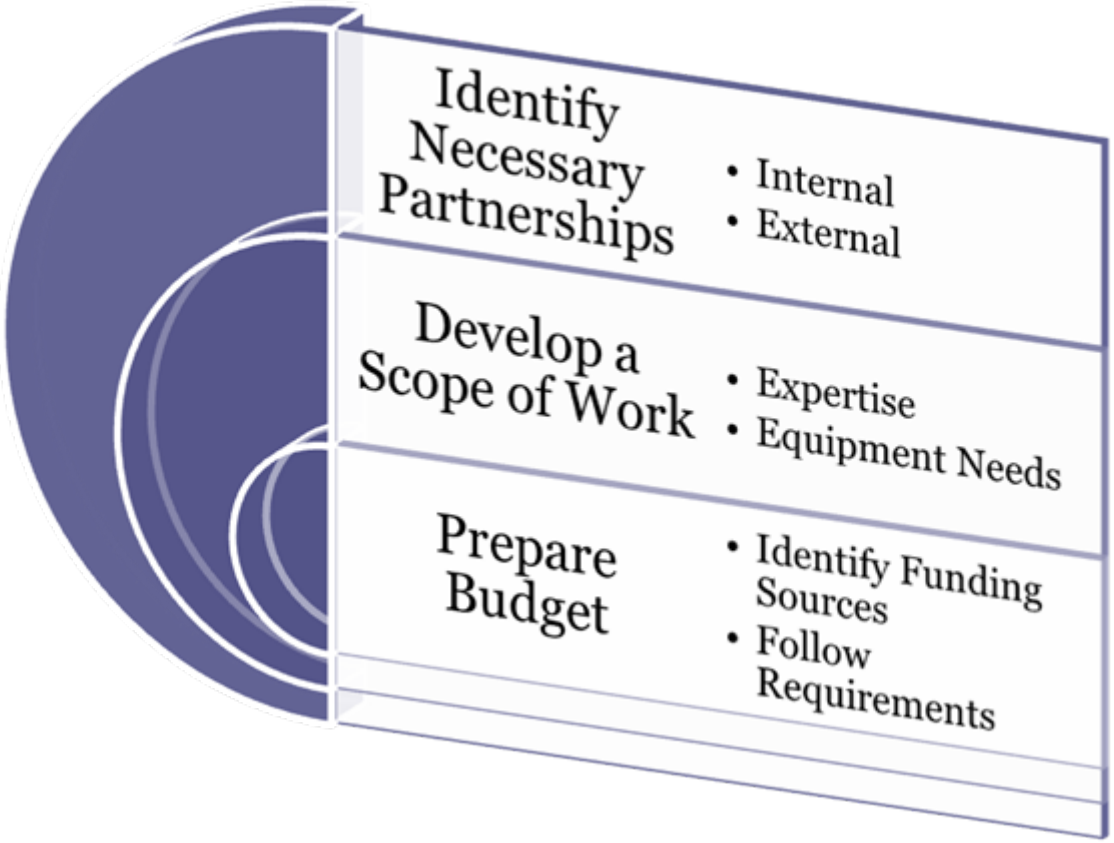
Planned Projects

- Characteristics
  - Advance notice
  - Funded prior to starting
  - Air Monitoring prepares Scope-of-Work and budget
  - Are usually long-term (> 1 year)
  - Provide opportunity for program to develop specific expertise
  - Conclude with a report to present findings
  - Often provide foundation for next steps

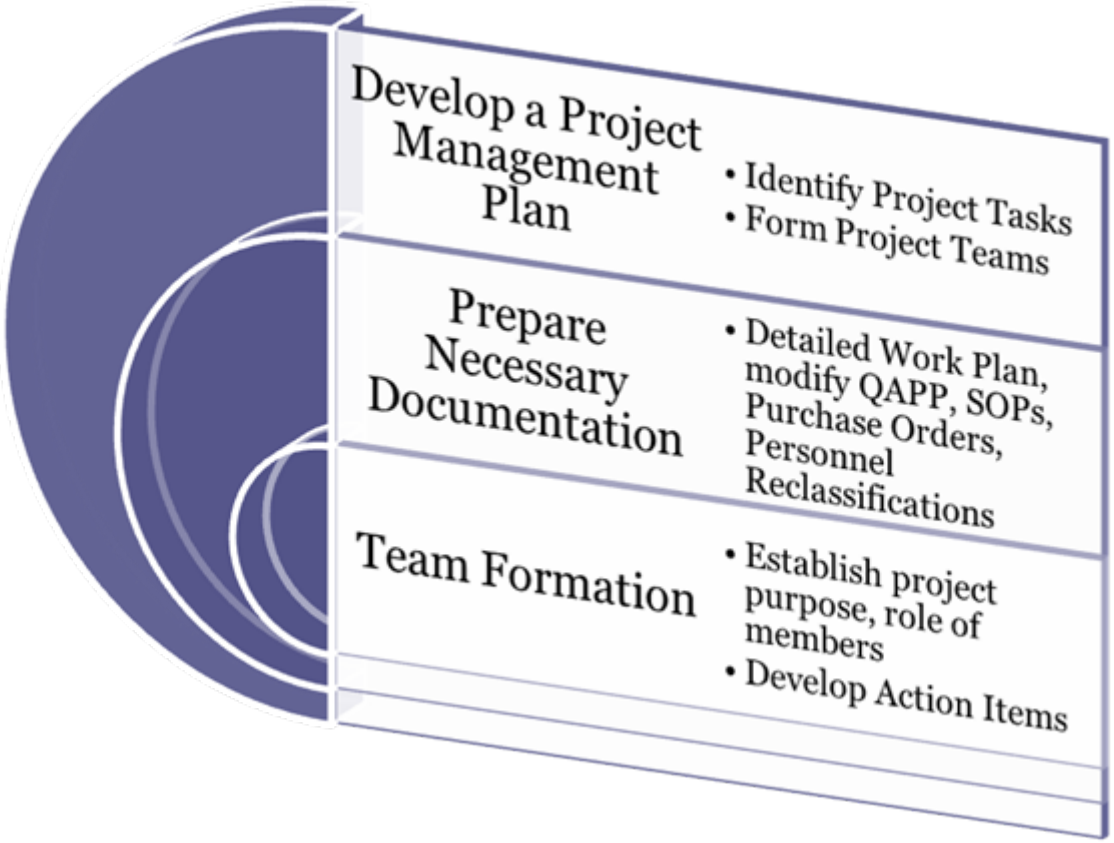
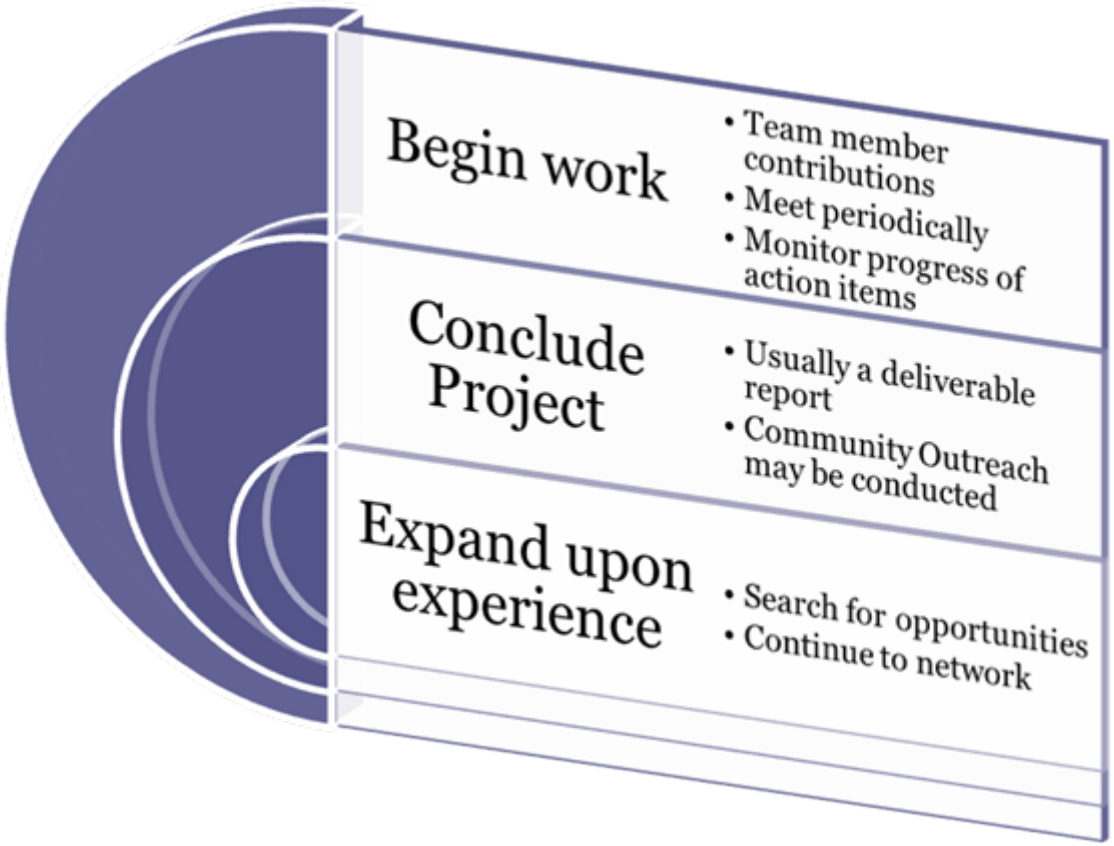
Directive Projects

- Characteristics
  - Short notice
  - Non-funded, initially
  - Air Monitoring has limited ability to provide early input
  - Adapted to the capability of the monitoring team
  - Are usually short-term (several days to several months)
  - Provide opportunity for program to develop specific expertise
  - Limited scope
  - Conclude with a short letter to present findings
  - Often frustrating to staff

Preparing for Planned Projects



If Funding is Awarded: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