

Scope of Work

Application and Possible Refinement of a Dust Definition for WRAP

February 28, 2005

Task 1: Feasibility Analysis

The Contractor shall perform a feasibility analysis of the use of the current draft definition of dust for the purposes outlined by WRAP. The analysis will include a source-by-source review of available data/methods that could be used to characterize dust as anthropogenic and/or natural and to characterize the natural range of disturbance for specific sources. The review will include:

1. Compilation and Evaluation of Available Data
2. Assessment of Metrics and Databases/Data Sources for Ecology, Geology, and Climatology

The Contractor shall develop a Feasibility Assessment Protocol as guidance for the feasibility assessment of specific applications of the draft dust definition, based on the availability and quality of existing data/methods for dust sources of concern. The Contractor will prepare and submit a draft assessment report, including:

1. Initial estimate of implementation feasibility based on review of applicable databases/method, including a tabular summary of databases and data sources indicating the strengths, weaknesses, and general estimates of the relative costs of database use and implementation.
2. Draft Feasibility Assessment Protocol for application of the draft dust definition to specific projects
3. An assessment of the general feasibility of implementing the draft dust definition for broad WRAP purposes, including the identification of barriers to feasible implementation, if any.

Upon request, the Contractor could recommend enhanced, optional work that would enhance the feasibility of applying the dust definition. A separate scope of work and cost estimate would be prepared at that time.

A final assessment report shall be submitted after review by the WRAP project manager and Dust Emissions Joint Forum (DEJF).

Task 2: Definition Refinement and Case Studies

The Contractor shall recommend refinements to the draft definition, as necessary. The Contractor will identify potential case studies to assess the feasibility of applying the dust

definition in specific cases and to highlight the strengths and weaknesses of the current definition. After consultation with the WRAP project director, the Contractor will apply the Feasibility Assessment Protocol and existing databases/methods identified in Task 1 to assess the general natural and anthropogenic contribution of the inventoried sources, where data is available. The contractor will prepare and submit:

1. a technical memorandum recommending refinements to the draft dust definition
2. a draft report on the results of two agreed-upon case studies

Based on the results of these case studies, the DEJF may determine that additional case studies would be useful or desirable for specific cases. Upon request, the Contractor could prepare a separate scope of work and cost estimate for applying the dust definition to additional case studies.

The final refinements to the draft dust definition and the final report on the case studies shall be submitted after review by the WRAP project manager and DEJF.

Task 3: Definition Review and Finalization

The Contractor shall support the DEJF in obtaining and responding to a broad review of the refined draft definition. The Contractor shall participate in up to two conference calls with stakeholders and attend one workshop. The Contractor shall summarize the comments received and recommend responses and any appropriate revisions to the refined draft definition.

Task 4: Implementation Support

Upon request and as resources permit, the Contractor shall provide support to other WRAP forums and to other DEJF projects which may be in a position to implement or benefit from the final dust definition. For example, the Contractor could work with DEJF and other WRAP forums to familiarize them with the application of the dust definition, its uses and limitations. The Contractor could also assist the forums in a review of their projects and assessment of the potential benefits of using the dust definition. In addition, the Contractor could assist these forums for specific projects by applying the Feasibility Assessment Protocol, and assessing additional resources and costs if available databases are not sufficient, implementing the dust definition to partition dust inventories, and conducting modeling using these partitioned inventories to achieve the goals of those projects. The deliverables for this task are unknown at this time.

At the end of the project, the Contractor shall also submit all relevant data, including databases of emission and activity/surrogate data, digital maps, and GIS files.

All reports and relevant data shall be submitted to the WGA in electronic format. Paper copies may be submitted at the Contractor's discretion.

Schedule

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The project schedule and deliverable dates are presented in the following table. If the WRAP project manager requests that additional effort be redirected to Tasks 1 or Task 2, the schedule would be adjusted consistent with that change. The Contractor shall provide monthly progress reports to WRAP. The project schedule also includes monthly conference calls to discuss project issues.

Task 1: Draft Feasibility Assessment Begin Draft report Final report	22 February 2005 29 April 2005 31 May 2005
Task 2: Definition Refinement and Case Studies Begin Refinement of the dust definition, if necessary Case study results	2 May 2005 31 May 2005 30 June 2005
Task 3: Definition Review and Finalization Workshop Comments summary and recommendations	TBD 30 days after close of comment period
Task 4: Implementation Support	TBD
End of monthly progress reports and conference calls	Monthly, March 31 –July 29, 2005