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# BLM SOW for Regional Modeling Enhancements

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## ***PURPOSE***

- Leverage ongoing regional air quality modeling to support analyses of future oil and gas development on federal lands

## ***TIMELINE***

- Developed a SOW for 7 additional tasks to enhance modeling results
- Focus is on Tasks 1 – 3 = Source Apportionment
- Presented draft SOW to IWDW-WAQS Technical Committee on Dec. 8<sup>th</sup>
- Presented overview to IWDW-WAQS Oversight Committee on Jan. 23<sup>rd</sup>
- Provided additional clarification and justification to OC
- Revise SOW based on OC comments on Feb. 6<sup>th</sup>
- Tom will be asking Ramboll to provide a proposal based on first 3 tasks of SOW
- OC will review proposal and determine next steps.



## Task 1. Apportion Oil and Gas Emissions by “Federal”, “Non-Federal” and “Tribal” Mineral Ownership

The contractor will apply BLM provided segregated emissions fractions for federal, non-federal and tribal oil and gas development and production to the “2014” and “Continued Historical Trends” oil and gas emissions inventories already completed in the current WESTAR / IWDW-WAQS regional modeling effort. These emissions fractions will be developed by BLM based on percentages of development and production for each county within each oil and gas basin based on mineral ownership. In order to complete this task, both the contractor and BLM will work collaboratively and on a timely basis to exchanging data and information:



## Task 2. Spatial allocation of O&G emissions by Mineral Ownership

Under this task the “2014” and “Continued Historical Trends” oil and gas emissions developed for the current WESTAR / IWDW-WAQS regional modeling effort will be spatially allocated for each basin by Federal, non-Federal and Tribal mineral ownership.



## Task 3. Source Apportionment of Federal Mineral Development Impacts using APCA and PSAT

The purpose of this task is to incorporate the products from Task 1 and Task 2 into the source apportionment modeling being conducted as part of the 2028 “Continued Historical Trends” modeling scenario, a funded task (4.7) in the contract for the current WESTAR / IWDW-WAQS regional modeling effort. The initial plans for that modeling are listed in Attachment B and are subject to change and further refinement in a draft Speciation Sheet for review and discussion to be prepared by the contractor. The contractor will conduct source apportionment modeling using APCA and PSAT tools to determine the contribution to impacts from federal and non-federal oil and gas sector emissions based on mineral ownership.