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**WRAP Topic Areas – Future Projects/Tasks, and Background Information (December 1, 2020)**

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| **Topic / WRAP “home”** | **Project/Task** | **Background Info** | **Geographic Scope** | **Likely Support** |
| Fire and Smoke Emissions and Impacts  /  Fire & Smoke WG (needs an updated mission statement) | 1. Identify all the smoke management plans (SMPs) in the region and compare them (e.g. decision making process, rules, activity, seasonality) 2. Create a site for tracking regional burn decisions in near real-time that lists info on decisions and completed burns from fire agencies 3. Research and develop data needs and sources, emission inventory approaches, and evaluate remote sensing products 4. Wildfire data (monitoring, modeling, emissions, etc.) 5. Coordinate on wildland prescribed fire and smoke management programs | * Requires update to FSWG mission statement, membership, and goals * Implementation of Conceptual Model for Fire Data project findings will require dedicated ongoing funding * Other? | WESTAR-WRAP region-wide  Include CenSARA and LADCO regions as well?  International data needed as well | In-Kind: state, tribe, federal land manager participation in FSWG and associated project  Funding: WESTAR to fund [Conceptual Model for Fire Data project](http://www.wrapair2.org/pdf/ConceptualModelFireData_2021_scope%20no%20costs.pdf) |
| Oil & Gas Emissions Tracking and Analysis  /  Oil & Gas WG | 1. Extend period of performance for Ramboll contract to allow for items such as state specific assistance 2. Annual compilation of agency program review to capture regulatory changes 3. Assess and improve 2017 NEI O&G emissions estimates for IWDW-WAQS western regional modeling | * Contractor task work supported by in-kind oversight by OGWG * Will require regular discussion and oversight by OGWG * Other? | CA, AK, Intermountain region-wide  CenSARA region | In-Kind: state, tribe, federal land manager participation in OGWG  Funding: WESTAR to fund limited-scope contractor support for task work |
| Regional emissions and air quality analysis  /  Regional Technical Operations WG | 1. Conduct an ozone source apportionment modeling run using CAMx APCA (Anthropogenic Precursor Culpability Assessment) diagnostic tool to apportion source categories and states contributing to regional ozone transport and international contributions 2. Build and evaluate base year model performance for 2017 IWDW-WAQS western regional modeling platform 3. Identify Emission Inventory development needs and refinements, both anthropogenic and natural (such as Biogenic Emissions Inventory Improvements) | * Contractor task work supported by in-kind oversight by RTOWG * Will require regular discussion and oversight by RTOWG * Other? | WESTAR-WRAP region-wide  Include CenSARA and LADCO regions as well?  International data needed as well | In-Kind: state, tribe, federal land manager participation in RTOWG  Funding: WESTAR to fund limited-scope contractor support for task work |
| WESTAR/WRAP-wide studies  /  WRAP staff | 1. Applying remote sensing data for air quality forecasting, for air quality management, and to public health decisions 2. Implement projects proposed to NASA when funded  * [Applying Advanced Earth Science Data for Aiding Air Quality Forecasting and Management Decisions](http://www.wrapair2.org/pdf/Applying%20Advanced%20Earth%20Science%20Data%20for%20Aiding%20Air%20Quality%20Forecasting%20and%20Management%20Decisions.docx) * [Applying Earth Science Data to Air Quality Management and Public Health Decisions](http://www.wrapair2.org/pdf/Applying%20Earth%20Science%20Data%20to%20Air%20Quality%20Management%20and%20Public%20Health%20Decisions%20-%20NASA%20RFI%20response%20Jan31_2020%20%281%29.pdf)  1. Assess regional resources to support emerging topics and needs  * Small sensors / alternative monitoring technologies * Air toxics monitoring * Fenceline monitoring * Environmental justice initiatives * GHG/other inventories | * For 12 and 13, contractor work supported by in-kind oversight by Technical Steering Committee, and WESTAR Planning and Technical Committees * For 14, prepare assessment and decide how to implement in WESTAR-WRAP groups (Note: Small sensor workgroup planned to be formed in WESTAR Technical Committee) * Will require regular discussion and oversight by TSC and WESTAR Committees * Other? | WESTAR-WRAP region-wide  Include CenSARA and LADCO regions as well?  International data needed as well | In-Kind: state, tribe, federal land manager, local air agency, and EPA participation  Funding: For 12 and 13, WESTAR to fund limited-scope contractor support as NASA provides resources. For 14, project work and resource needs to be determined. |
| Regional Haze SIP Completion and Implementation  /  Tribal Data Work Group  also RHPWG ? | 1. Technical assistance for tribes with state SIP (or related) reviews 2. Ongoing Regional Haze planning support from WESTAR-WRAP staff 3. Other? | * Contractor work supported by in-kind oversight by TDWG (and RHPWG?) * Will require regular discussion and oversight by TDWG (and RHPWG?) * Other? | WESTAR-WRAP region-wide | WESTAR to fund limited-scope assistance to tribes via contracted support by ITEP |