



WESTAR QUARTERLY REPORT

Reporting Period: 2nd quarter 2021

Report Date: July 31, 2021

EPA Grants No. XA-99T67301-0

NPS Agreement No.

P19AC01205

Regardless of funding source, all of the projects and activities conducted by WESTAR are consistent with and intended to achieve the purposes of the organization spelled out in Article 2 of WESTAR's Articles of Association, including promoting the exchange of information related to air quality management, developing procedures to meet air quality objectives and to protect environmental resources, to establish workgroups to investigate specific topics, and to develop recommendations for the consideration of the membership. This report summarizes activities and outcomes for this reporting period.

Reporting Organization:

Name: Western States Air Resources (WESTAR)
DUNS#: 1460040020000
Address: 3 Caliente Road #8
Santa Fe, NM 87508
Telephone: (505) 954-1160

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1. EPA CORE GRANT 2017-2019

Note: Work on activities and spending against this grant began December 2017.

a. Budget Summary and Status

The following tables summarize the status of WESTAR's Core Grant budget, comparing cumulative grant awards since the inception of the current grant (October 1, 2017) through the end of the most recent quarter.

EPA Core Grant 2017-21

Expenses by Object Class through 6/30/2021

Object Class	Budget	This Quarter	Cumulative Expenses	Percentage
1. Personnel	1,426,014	110,247	1,355,055	95%
2. Fringe Benefits	389,063	25,308	332,321	85%
3. Travel	557,493	0	355,094	64%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	1,018,934	69,080	1,076,088	106%
7. Construction	0	0	0	
8. Other	642,240	62,727	612,060	95%
9. Indirect Expenses	1,194,195	55,400	990,237	83%
Totals	5,227,939	322,762	4,720,856	90%

a. Activity Summary: Operations Project

The purpose of the Operations project is to develop, implement, and support the policy and technical activities at WESTAR that benefit member states. Funding for this project comes entirely from member state contributions. In addition, personnel from member states and federal land management agencies contribute their time and expertise to many of the tasks performed under this project.

1) Status of work plan activities – Operations Project

<i>Expected Result for Project Period</i>	Results/Outcomes	
	<i>2021 Q2</i>	<i>Project Period Total</i>
47 Air director conference calls, documented with minutes posted on WESTAR’s website	2	36
10 Business meetings, documented with minutes and presentations posted on WESTAR’s website	1	7
175 Committee and ad hoc workgroup conference calls	10	118
20 Trips by committee chairs to brief air directors on committee activities	0	16
5 Specialty conference on a high priority topic	0	1

5 Meetings held to address emerging topics	0	3
15 Trips by committee representatives to attend national meetings and report back to WESTAR membership	0	3

2) Other Activities this Quarter – Operations Project

*WESTAR participated in the EPA Residential Woodsmoke Conference Calls

*WESTAR staff participated in the Four Corners Air Quality Oversight Group calls

*WESTAR staff worked with EPA staff to identify improvements that could be made to the AERR

b. Activity Summary: Training Project

The purpose of the Training Project is to: (1) deliver high quality training courses/workshops that meet the needs and expectations of state and local air agency staff within the fifteen-state WESTAR region; (2) develop needed, cost-effective, responsive, and western-states-focused training opportunities; and (3) act as the main point of contact for information and educational training opportunities related to air quality training.

1) Status of work plan activities – Training Project

<i>Expected Result for Project Period</i>	<u>Results/Outcomes</u>	
	<i>2021 Q2</i>	<i>Project Period Total</i>
100 Educational opportunities developed and delivered:	9	57
* Effective Permit Writing (online)		
· Principles & Practices of AP Control		
* (online)		
· Effective Permit Writing (online)		
3000 Students trained	315	1544
5750 Student training days	608	4047
1 Training course developed/updated	0	0

Other Activities this Quarter – Training Project

- WESTAR staff continues to work with state, local and tribal air quality government agencies in the fifteen Western United States to identify each agency’s most important training needs for FY2022.
- WESTAR staff works with the JTC Air Quality training group to move classroom training courses to online training to better serve the current needs of state, local and tribal air quality professionals. Assisted with the development of Effective Permit Writing.
- WESTAR staff serves as a member of the JTC Steering Committee. The Steering Committee oversees the operations of four work groups by providing guidance, evaluating resource needs, identifies priorities, assigns projects, provides assessments, and fosters communication. The four work groups are: 1) Communications; 2) Curriculum; 3) Training Delivery; and 4) Learning Management Systems (LMS)
- WESTAR staff is a co-lead for the Training Delivery work group.
- WESTAR staff is a committee member on the Communications workgroup, Learning Management System (LMS) workgroup, and the Curriculum workgroup.

c. Activity Summary: Regional Technical Support Project

The purpose of the Regional Technical Support project is to provide technical support to member agencies related to analysis of monitoring data, analysis and preparation of emissions inventories, regional modeling analyses, and operation and maintenance of web databases – all for member agencies to use in their air quality management and planning activities.

1) Status of work plan activities – Regional Technical Support Project

<i>Expected Result for Project Period</i>	<u>Results/Outcomes</u>	
	<i>2021 Q2</i>	<i>Project Period Total</i>
125 Work Group and Subcommittee Conference calls	18	323
50 Technical Steering Committee conference calls	3	42
10 Face-to-face WRAP Board meetings	0	4
50 Travel support provided to local agency and tribal WRAP Board members	0	25
5 Technical Steering Committee Face-to-face meetings	0	3
50 WRAP Board calls	3	32

2) Other Activities this Quarter – Regional Technical Support Project

- The WRAP Regional Technical Center is being implemented through the Intermountain West Data Warehouse (IWDW), linked with the Technical Support System v2 and delivering the modeling results from the Western Air Quality Study, providing access to air quality data of all types and results from regional modeling studies. Regional modeling tasks and deliverables from WESTAR contracts support both the Regional Haze analysis and Western Air Quality Study. Regional Haze modeling work and data transfer was completed and initial work on the 2017 western regional modeling platform was started.
- Staff continued to work with state and federal agencies, including regional EPA offices, to discuss and collect input on regional technical analysis needs in the western U.S. The IWDW is also hosting and distributing the 2016 National Emissions Inventory Collaborative emissions modeling platform “beta” and “v1” versions with future year projections, and associated data files for distribution.
- Dissemination of reports from projects, meetings, and calls, as well as data and summary results were also conducted via the WRAP website for Work Groups and the Technical Steering Committee.
- The WRAP Technical Steering Committee and 3 of the 5 Work Groups (Fire & Smoke, Oil & Gas, and Regional Haze Planning) under their direction met regularly.
- The Technical Steering Committee and Co-Chairs of WRAP Work Groups and Subcommittees meet monthly on a Coordination call.

The Technical Steering Committee and Work Groups began work to implement the WRAP Board approved “Future project prioritization topics” from the Board’s December 2, 2020 meeting.

2. NPS COOPERATIVE AGREEMENT

Under these agreements, WESTAR/WRAP has agreed to cooperate with the National Park Service in furthering the understanding of air quality and air pollution formation, transport and effects in the western U.S., which includes but is not limited to ambient monitoring and data reporting, creation and operation of databases, development of emission inventories, performance of air quality modeling to understand the effects of pollution and to facilitate discussion of possible mitigation, and the development of outreach and education products toward bettering the understanding of Western air quality by the public and stakeholders. Projects and activities under this Agreement will be individually authorized by separate task agreements, with each project or activity having a separate work plan and budget developed cooperatively between the NPS and WESTAR/WRAP.

TASK 1: 3-State Study Coordination and Data Warehouse (P14AC00133)

This Task was completed on 9/30/2014.

TASK 2: Three State Air Quality Study (P14AC01122)

This Task was completed on 6/30/2016.

TASK 3: Intermountain West Data Warehouse – Western Air Quality Study (IWDW-WAQS) (P14AC01122)

This Task was completed on 12/31/2019.

TASK 4: Intermountain West Data Warehouse – Western Air Quality Study (IWDW-WAQS)

This task was completed on 12/31/2018.

TASK 5: Intermountain West Data Warehouse-Western Air Quality Study (IWDW-WAQS) P18AC01186

This task was completed on 9/30/2020.

WESTAR/WRAP staff serve as project coordinator for the IWDW-WAQS, at 0.20 FTE time.

a. Activity Summary

Contractual resources from this task have been used to complete the 2014-based western regional modeling with 2028 projections for Regional Haze planning, as well as contract work to initiate technical data development for a 2017-based regional modeling platform.

Intermountain West Data Warehouse-Western Air Quality Study (IWDW-WAQS) Agreement P19AC01205

Under this Agreement, WESTAR/WRAP serves as the project coordinator for the Western Air Quality Study and performs technical tasks through contractors to include:

- Air quality modeling;
- Support and coordination of IWDW operations and maintenance;
- Assistance in education and outreach to stakeholders and the public;
- Organization and participation in meetings, webinars and conference calls.

Beginning in the 4th quarter 2020, WESTAR is the sole funding source for IWDW staffing and incremental task work by contractors for WAQS modeling, using resources from this agreement and supplemented by other funding streams within WESTAR. The historic approach of direct funding of IWDW staffing by NPS was completed in the 3rd quarter 2020. WESTAR/WRAP staff serve as project coordinator for the IWDW-WAQS, at 0.20 FTE time. In the 1st quarter 2021, WESTAR provided oversight for contractor analyses to develop technical inputs for the 2017-based regional modeling platform; those results will be released for review and comment to WESTAR-WRAP members and the IWDW-WAQS Technical Committee during the 3rd quarter 2021.

**NPS Cooperative Agreement
P19AC01205
Expenses by Object Class through 6/30/2021**

Object Class	Budget	This Quarter	Cumulative	
			Expenses	Percentage
1. Personnel	23,343	4,583	9,673	41%
2. Fringe Benefits	4,446	952	2,007	45%
3. Travel	0	0	0	
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	358,525	120,179	252,410	70%
7. Construction	0	0	0	
8. Other	0	0	0	
9. Indirect Expenses	14,749	1,938	10,248	69%
Totals	401,063	127,652	274,338	68%

3. OTHER SIGNIFICANT ACTIVITIES

WESTAR co-chairs the Federal/State Technical Work Collaboration Group and organizes monthly and quarterly conference calls to share information about EPA and MJO technical work.

WESTAR-WRAP significant special meetings, staff activities, presentations, and external meeting participation

- Participation in NASA HAQAST Tiger Team scoping meetings in early April.
- Regional Haze Results meetings #8 and #9 were held April 1st and May 5th for all WESTAR-WRAP member agencies to disseminate data, provide training on display tools, and assist with western Regional Haze planning.
- Ongoing monthly national coordination meetings with OAPQS, other Multi-Jurisdictional Organizations, and States on emissions data uses and future projections.
- Planning support for Air & Waste Management Association’s Visibility Specialty Conference in Bryce Canyon City, UT on October 5-8, 2021.
- Led by the WRAP Technical Steering Committee (TSC) Co-Chairs, WESTAR-WRAP staff assisted with review and drafting updates to the TSC organizational documents for review by the TSC and the WRAP Board.
- WESTAR-WRAP staff prepared and submitted 2 proposals for NASA ROSES grant funding on June 30th. WESTAR-WRAP staff is the principal investigator leading a team for the *Wildland Fire Emissions Data Warehouse (WFEDW)* proposal and is the Co-Principal Investigator for the *Organizing Remote Sensing Science Data for a Purpose: Decision Support Systems for Air Quality Management Applications* proposal, teaming the University of Alabama in Huntsville and WESTAR-WRAP.
- NASA TEMPO Science Team Meeting participation (June 2-3)

4. CONSOLIDATED EXPENSE SUMMARY

Cumulative Expenses by Object Class and Funding Source through 6/30/2021 All Active Accounts

	EPA	NPS	
Object Class	Core Grant 2017-21	P19AC01205	Totals
1. Personnel	1,355,055	9,673	1,364,728
2. Fringe	332,321	2,007	334,327
3. Travel	355,094	0	355,094
4. Equipment	0	0	0
5. Supplies	0	0	0
6. Contractual	1,076,088	252,410	1,328,499
7. Construction	0	0	0
8. Other	612,060	0	612,060
9. Indirect	990,237	10,248	1,000,486
Cumulative Expenses	4,720,856	274,338	4,995,194
Budget	5,227,939	401,063	5,629,002
Balance Avail	507,082	126,725	633,808

¹Total of \$401,063 drawn from advance for contractor expenses; advance balance = \$126,725

Current Quarter Expenses by Object Class and Funding Source – All Active Accounts

	EPA	NPS	
Object Class	Core Grant 2017-2021	P19AC01205	Totals
1. Personnel	110,247	4,583	114,830
2. Fringe Benefits	25,308	952	26,260
3. Travel	0	0	0
4. Equipment	0	0	0
5. Supplies	0	0	0
6. Contractual	69,080	120,179	189,259
7. Construction	0	0	0
8. Other	62,727	0	62,727
9. Indirect	55,400	1,938	57,338
Total Expenses	322,762	127,652	450,414