



WESTAR QUARTERLY REPORT

Reporting Period: 4th Quarter 2014

Report Date: January 27, 2015

EPA Grant No. XA-00T68001

EPA Grant No. XA-00T82602

NPS Agreement No. P14AC00099

Task 2: P14AC01122-TA

BLM/JFSP Agreement No. L14AC00008

BLM Agreement No. L14AC00077

BLM Agreement No. L14AC00059

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.

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1. EPA CORE GRANT 2011-13

Note: On September 26, 2014 EPA granted a no-cost extension to amend the deadline to complete this grant to December 31, 2015. This extension was specifically for the purpose of “spending down” balances in state travel accounts. Accordingly, the only activities conducted under this grant beginning October 1, 2014 will be state travel expenditures.

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 (September 1, 2011) through the end of the most recent quarter. While authority to spend against the new grant began on September 1, 2011, WESTAR continued to spend down the prior grant through November 2011. Thus expenditures for the first two months of the project period were paid out of the prior grant.

EPA Core Grant 2011-13 Cumulative Grant Awards by Project

Project Title	Total Anticipated Project Period Cost	Total Awards Project Period to Date as of 12/31/2014	Percentage
Operations	840,000	830,312	99%
Training	1,102,500	1,102,500	100%
Regional Tech Support	0	147,208	
State Travel Support	410,961	348,627	85%
Totals	2,353,461	2,428,647	103%

EPA Core Grant 2011-13 Expenses by Object Class through 12/31/2014

Object Class	Budget¹	This Quarter	Cumulative	Percentage
1. Personnel	644,623	(0)	651,517	101%
2. Fringe Benefits	172,051	256	155,844	91%
3. Travel	740,189	39,865	517,352	70%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	114,037	162	113,622	100%
7. Construction	0	(8,363) ²	-	
8. Other	351,727	25,466	361,871	103%
9. Indirect Expenses	406,020	615	446,455	110%
Totals	2,428,647	58,001	2,246,660	93%

- ¹ WESTAR has received approval from EPA Region 9 on budget revisions in light of sequestration reductions, proposed revisions to the cost allocation plan, and the expectation of additional awards from the National Park Service and Bureau of Land Management. Percent of total budget figures are based on original work plan budget.
- ² Corrects expenses misreported on previous quarterly report

2. EPA CORE GRANT 2014-16

Note: Work on activities and spending against this grant began October 2014.

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

<i>Expected Result for Project Period</i>	<i>Results/Outcomes</i>	
	<i>2014 Q4</i>	<i>Project Period Total</i>
27 Air director conference calls, documented with minutes posted on WESTAR's website	3	3
6 Business meetings, documented with minutes and presentations posted on WESTAR's website	0	0
120 Committee and ad hoc workgroup conference calls	8	8
12 Trips by committee chairs to brief air directors on committee activities	0	0
3 Specialty conference on a high priority topic	0	0
3 Meetings held to address emerging topics	0	0
9 Trips by committee representatives to attend national meetings and report back to WESTAR membership	1	1

2) Other Activities this Quarter

- The Regional Haze Work Group began discussions on refining ‘Core Issue’ recommendations previously provided to EPA.
- WESTAR formed a Work Group for the purposes of developing western state comments on the Ozone NAAQS.
- WESTAR staff initiated discussions with national and other regional air quality organizations to meet with OMB on the Woodheater NSPS, and met with EPA-OECA to discuss enforcement implementation of the NSPS.
- WESTAR staff participated in the Clean Air Act Advisory Committee fall meeting.

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

<i>Expected Result for Project Period</i>	<i>Results/Outcomes</i>	
	<i>2014 Q4</i>	<i>Project Period Total</i>
69 Educational opportunities developed and delivered:	12	12
* Aggregate Plants (Phoenix, AZ)		
* Solvent Cleaning (Phoenix, AZ)		
* Landfill Gas Control (Phoenix, AZ)		
* Effective Permit Writing (Las Vegas, NV)		
* Continuous Emission Monitoring (Honolulu, HI)		
* Fugitive Dust (Honolulu, HI)		
* Agg, HMA, Concrete Batch Plants (Honolulu, HI)		
* NOx Emissions: Formation & Control (Santa Fe, NM)		
* Ambient Air Monitoring (Anchorage, AK)		
* Theory & App of A.P. Control (Anchorage, AK)		
* MACT (Anchorage, AK)		
* Intermediate NSR/PSD (Denver, CO)		
1800 Students trained	96	96
3450 Student training days	220	220
1 Training course developed/updated	0	0

2) Other Activities this Quarter

- WESTAR staff serve as members of the National Training Strategy Committee which established goals to: understand the priority training needs of air quality agency professionals; provide training opportunities that meet the priority needs of air quality agency professionals; utilize course materials that are up-to-date, accurate, complete, and easy to use; conduct all training using recognized subject matter experts and effective teachers; and deliver effective and cost-efficient training through the use of existing, new and emerging technologies where appropriate
- WESTAR staff serve as members of the Joint Training Committee (AAPCA, NACAA, EPA) that developed Training Strategy Action Plan which includes efforts in: course update priorities; prioritize and initiate a plan to develop training offerings to fill gaps, based on curriculum project; develop and implement a process to determine the highest priority training needs on an on-going basis; develop and implement a plan for further enhancement and on-going maintenance of APTI-Learn; and re-launch an improved Learning Management System (APTI-Learn).
- WESTAR's staff served in the leadership role for 111(d) efforts to help state agencies better understand proposed rule by identifying agenda topics for face-to-face meetings and conference calls.
- WESTAR staff collaborated with stakeholders outside of the air pollution programs such as the Western Interconnect Energy Board (WIEB) and Regulatory Assistance Project (RAP) in order to inform and enhance air pollution control agency's staff understanding of 111(d) issues of importance to entities such as Public Utility Commissions (PUC), Environmental Commission Boards, electrical grid operators who are, or whose constituencies are, effected by 111(d).

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

<i>Expected Result for Project Period</i>	<i>Results/Outcomes</i>	
	<i>2014 Q4</i>	<i>Project Period Total</i>
15 Regional technical analysis/planning conference calls	4	4
12 Technical Oversight Committee conference calls	2	2
6 Face-to-face WRAP Board meetings	0	0
30 Travel support provided to local agency and tribal WRAP Board members	0	0

2) Other Activities this Quarter

- Staff continued the development of the WRAP Regional Technical Center through discussions with state and federal agencies.
- Staff gave invited presentations at the 22nd Annual Tribal-EPA Region 9 Conference, the 31st Annual Utah Conference on Safety and Industrial Hygiene, and the annual California Desert Air Working Group meeting on western regional technical analyses and results.
 - 22nd Annual Tribal-EPA Region 9 Conference ([PDF](#)) October 17, 2014
 - 31st Annual Utah Conference on Safety & Industrial Hygiene – Environmental Health session on Western and Utah Air Quality ([PDF](#)) October 16, 2014
 - [California Desert Air Working Group](#) (Oct. 7th WRAP Workshop - Western AQ Studies [PDF](#) and Modeling Results [PDF](#), and Oct. 8th CDAWG meeting presentation [PDF](#)) October 7-8, 2014
- Staff gave a workshop for EPA Region 9 management and staff in San Francisco on western regional technical analyses and results.
 - EPA Region 9 Managers Briefing ([PDF](#)) and Technical Workshop December 18, 2014
- Staff executed the November 3-5, 2014 Fires and Oil & Gas Emissions Summit meetings for all relevant branches of national EPA, states, and federal land managers, held at EPA offices in Research Triangle Park, North Carolina.
 - [National Oil and Gas Work Group Summit Meeting – November 4-5, 2014](#)
 - [National Fires Summit Meeting – November 3, 2014](#)
- 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.

- Staff completed and released the announcement materials, and began logistical arrangements for the [2015 WRAP-EPA Western Modeling Workshop](#) in Boulder, CO during the week of May 11, 2015. The workshop will be jointly held with the Hemispheric Transport of Air Pollutants working group sponsored by EPA OAP.
- EPA OAQPS staff requested that WESTAR/WRAP staff chair a session, as well as to organize the plenary session and a panel discussion, and present at the EPA April 2015 [International Emission Inventory Conference](#). Extensive effort was begun in Dec. 2014.
- WESTAR/WRAP staff conducted 6 calls with state and regional EPA staff about specific regional technical efforts for the Regional Haze plans due July 2018.
- Dissemination of reports, data, and summary results were conducted via the [WRAP website](#).
- Updated the West-wide Jumpstart Air Quality Modeling Study ([WestJumpAQMS](#)) web page with additional materials, documenting the ongoing series of follow-up workshops, including presentation materials.
- Staff provided a telephone presentation for the Western Energy Supply and Transmission (WEST) Associates Board call on western regional technical analyses and results.

d. 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 (September 1, 2014) through the end of the most recent quarter. While authority to spend against the new grant began on September 1, 2014, WESTAR continued to spend down the prior grant through September 2014 and will continue to spend down State Travel Support funds through 2015, or until funds from the prior grant are depleted.

**EPA Core Grant 2014-16
Cumulative Grant Awards by Project**

Project Title	Total Anticipated Project Period Cost	Total Awards Project Period to Date as of 12/31/2014	Percentage
Operations	840,000	274,934	33%
Training	1,102,500	367,500	33%
Regional Tech Support	457,452	152,484	33%
State Travel Support	410,961	120,820	29%
Totals	2,761,500	915,738	33%

**EPA Core Grant 2014-16
Expenses by Object Class through 12/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	657,106	52,441	52,441	8%
2. Fringe Benefits	178,098	11,517	11,517	6%
3. Travel	731,738	15,013	15,284	2%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	105,000	-	-	0%
7. Construction	0	-	-	
8. Other	338,488	38,614	38,614	11%
9. Indirect Expenses	751,070	60,098	60,098	8%
Totals	2,761,500	177,683	177,953	6%

3. NPS COOPERATIVE AGREEMENT

Under this agreement, WESTAR/WRAP has agreed to cooperate with the National Park Service in furthering the understanding of air quality 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) was completed on 9/30/2014. Activities related to the \$828 fund balance remaining in Task 1 at the end of the last quarter are included in the following Task 2 summary.

TASK 2: Three State Air Quality Study (P14AC01122)

a. Activity Summary

Under this Task Agreement, WESTAR/WRAP provides collaboration and coordination services for states, tribes, local air agencies, and federal agencies across the Western U.S. under the leadership of the 3-State/Federal Leadership Forum (3-State/FLF). The 3-State/FLF is implementing the Western AQ Study with the following objectives:

- Provide storage and access to consistent, sufficient, comparable and high-quality technical data.

- Provide consistent protocols for technical data and its analysis for air quality impacts to be performed by the Three-State Study partner agencies.
- Initiate and support collaborative work by the federal and state partners on National Environmental Policy Act (NEPA) air quality analyses relative to energy development and for a broad range of air quality planning activities, including emissions, meteorological and air quality modeling.
- Develop technical capacity and improved data sets for the cooperating agencies using standardized reproducible data collection, quality assessment, analysis and storage protocols.
- Identify, document and apply criteria for base year and future year projections.
- Assist NPS and Three-State Study Governing Board in identifying ways and means of ongoing funding to support the data warehouse when operational
- Identify the mechanisms to be used by the technical work groups to report to the Steering Committee and Governing Board for the Three-State Study.

WESTAR/WRAP staff, serving as project coordinator for the Western Air Quality Study conducted the following activities related to the furtherance of these objectives over the reporting period:

Activities related to study coordination:

- Provided staff support for the Oct. 10th 3-State Study Steering Committee meeting.
- Organized and executed two 3-State Technical Committee conference calls.

Activities related to coordinating the efforts of the NPS, 3-State Study partners, and the Data Warehouse technical contractor team to design, assemble, test, populate, and plan further development of the Warehouse:

- Transfer protocols for modeling data and inputs to external users were updated and file transfers began to outside users continued in the 4th quarter 2014.
- Daily work continued on the construction and implementation of the data, web database, visualization tools, associated metadata, and web pages to access and use the Data Warehouse.

Activities related to organizing and attending meetings, webinars, and calls for the 3-State Study:

- More than a dozen conference calls were held this quarter to manage the work of the technical support contractor team including Colorado State University (CSU)-Cooperative Institute for Research in the Atmosphere (CIRA), the University of North Carolina (UNC), and ENVIRON International Corp.
- Outreach efforts with states and federal agency offices in the region surrounding the 3SAQS area, to develop relationships and identify common needs with those agencies

Summary of Work Plan Activities

<i>Expected Result for Project Period</i>	Results/Outcomes	
	<i>2014 Q4</i>	<i>Project-to-date</i>
6 Conference calls with Governing Board or Steering Committee	0	0
5 Face-to-face meetings	2	2
4 Technical milestones requiring special communication effort	4	4

Activities related to ambient monitoring activities in the Utah portion of the Study region:

- Outreach to Utah DAQ to arrange the transfer of funds for ambient monitoring was initiated.

Activities related to air quality modeling for the Study region:

- Regional modeling study results for the 2011 version A modeling platform were reviewed in more detail.
- Work on tasks under the Oct. 2014 through June 2015 Scope of Work was started by ENVIRON.

b. Budget Summary and Status

Task 2 - NPS 3-State Air Quality Study Expenses by Object Class through 12/31/2014

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	75,493	12,476	14,468	19%
2. Fringe Benefits	16,553	1,957	2,230	13%
3. Travel	2,192	906	906	41%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	778,186	-	778,186 ¹	100%
7. Construction	0	-	-	
8. Other	3,456	1,040	1,040	30%
9. Indirect Expenses	75,493	14,437	16,063	21%
Totals	951,373	30,817	812,893	85%

¹ WESTAR has drawn the approved contractual amount as an advance. A summary of contract expenses follows.

Contractor	Budget	This Quarter	Cumulative	Percentage
ENVIRON	705,186	4,940	4,940	1%
State of Utah	73,000	-	-	-
Totals	778,186	4,940	4,940	1%

4. BLM/JFSP COOPERATIVE AGREEMENT (PMDetail)

Under this cooperative agreement, WESTAR, through WRAP, is charged with delivering innovative and useful technical products in the form of a quantitative assessment of prescribed and other fire types' effect on likely PM standards, both 24-hour and annual average for each of three historic years and 2008 alternate future scenarios. This assessment will rank fire contributions by locations. The planned PM exceedance vulnerability matrix will enable federal land management agencies to evaluate future real-world decisions about prescribed burning effects on air quality.

a. Administrative Status

The budget and work plan for this project was submitted to the Joint Fire Sciences Program (JFSP) and the Idaho State Office of the Bureau of Land Management as the grant award entity in November and December 2013. The grant monies were then awarded in February and March 2014, in two increments. Contracts with the four technical support organizations (Air Sciences, Inc.; ENVIRON; Colorado State University; and Carnegie-Mellon University) were executed shortly after the award.

b. Activity Summary

As noted in the section above (Administrative Status), the transition of this project from WGA to WESTAR resulted in a significant disruption of the work being conducted under this project. As a result, several delivery dates were delayed.

Deliverable: Updated FETS website, including empirical analysis results for 2002, 2008, and 2011.

Delivery Dates: Jan/Oct 2013 and May 2014

Status and Activities:

- 2002 results completed June 2014, draft 2008 results added Dec. 2014

Deliverable: Online tools, including regulatory analysis/assessment results with case studies

Delivery Dates: October 2014

Status and Activities:

- Work on analysis and publication of 2008 case studies for publishing results on the [WRAPTools](#) website continues.

Deliverable: Training, including webinar-style training to FLMs on use of online PMDetail tools

Delivery Dates: December 2014

Status and Activities:

- No activity

Deliverable: Data and results

Delivery Dates: Summer 2015

Status and Activities:

- Selection of 2008 filter sample days/locations with large modeled Particulate Matter impacts from fire activities completed Nov. 2014.
- 2011 air quality modeling and evaluation.
- 2011 modeling is underway.

Deliverable: Submit summary of methodology and findings of PMDETAIL to refereed publication(s)

Delivery Dates: Summer 2015

Status and Activities:

- Website, tools, training, and data results will be added, as appropriate, through the September 2015 end point of the project.
- Scoping activities on tools has begun.

c. Budget Summary and Status

WESTAR “inherited” the funds remaining in the PMDETAIL project originally awarded to WGA. WESTAR’s budget for this project is based on an updated Scope of Work reflecting the work completed under the WGA award and the work that remains to be completed under the WESTAR award.

**BLM/JFSP Cooperative Agreement – PMDETAIL Project
Expenses by Object Class through 12/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	14,449.00	2,838	5,457	38%
2. Fringe Benefits	2,040.92	445	814	40%
3. Travel	1,900.00	1,116	2,355	124%
4. Equipment	0.00	-	-	
5. Supplies	0.00	-	-	
6. Contractual	400,039.06	62,265	145,590	36%
7. Construction	0.00	-	-	
8. Other	7,455.00	65	1,142	15%
9. Indirect Expenses	15,211.00	3,329	6,300	41%
Totals	441,094.98	70,059	161,657	37%

5. BLM DRILL RIG NO₂ MONITORING STUDY

a. Activity Summary

WESTAR received initial funding from the American Petroleum Institute (API) in late 2013 to organize a workgroup and develop a work plan and schedule to execute a Study to collect

ambient measurements adjacent to drilling rigs to evaluate actual 1-hour NO₂ impacts from drilling operations. In addition, sufficient data would be collected regarding drilling operations that could be used to verify NO₂ air quality models. The Study will focus on short term episodes.

In May 2014, WESTAR/WRAP responded to a funding opportunity notice from the Bureau of Land Management (BLM) for this Study. A funding proposal was prepared and submitted by WESTAR/WRAP and was then awarded by the BLM as Task 1 under the BLM-WESTAR Cooperative Agreement. The BLM funding is allocated for travel and communications for WESTAR/WRAP staff to support the Study. The BLM funding is also allocated to pay the salary of a 50% full-time equivalent WESTAR contract employee. In August 2014, API transferred funding resources to WESTAR for the bulk of the Colorado field sampling contract.

Activities this quarter included:

- In October and November, the Study Management Team oversaw completion of field sampling by the URS/AECOM contractor at two drill rig sites in northern Colorado.
- The Colorado field study employed NO_x and ozone monitors loaned from the States of MT, ND, and UT, as well as from API and the UT BLM office.
- The BLM Study Management Team member has coordinated the parallel field sampling study on the Alaska North Slope with representatives of the Alaska BLM office, the State of Alaska Air Quality Division, and North Slope Oil & Gas operators.
- The WESTAR/WRAP contract employee managed the Colorado field sampling and coordinated overall Study activities.
- Review of Study activities by the larger workgroup was done on a call on Dec. 10, 2014.
- Field sampling in Alaska was completed in Dec. 2014.
- Field sampling in Colorado was completed in Nov. 2014.
- WESTAR applied for an additional grant for the Study from the BLM in December; those resources will cover contractor support for field sampling, and future data processing and analysis activities.
- EPA has volunteered the services of their level-of-effort contractor for data processing activities during Jan. 2015; data from the Colorado and Alaska field sampling efforts will be transferred to the EPA contractor for that purpose.

[Drill Rig 1-hour NO₂ Collaborative Monitoring Study](#) webpage

Additional materials below were added to the Study webpage in Dec. 2014.

- Alaska Field Study Status Report – December 2014 ([PDF](#))
- Denver-Julesburg Field Study Status Report – December 2014 ([PDF](#))

b. Budget Summary and Status

The BLM Task 1 funding and supplemental funding expected in January 2015 enables Phase 2 of the Study and provides staff support to the entire Study. Remaining Phase 1 funds have been applied to Phases 2 through 4, combined with additional resources that will be needed for these

phases. The combination of funding for WESTAR personnel by BLM and the field sampling contract support from API is the combined funding for this project.

**BLM Drill Rig NO₂ Monitoring Study
BLM Cooperative Agreement
Expenses by Object Class through 12/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	16,800	4,735	10,601	63%
2. Fringe Benefits	6,222	747	1,561	25%
3. Travel	8,426	1,348	1,829	22%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	68,244 ¹	21,420	30,380	16%
7. Construction	0	-	-	
8. Other	1,463	2,819	4,731	323%
9. Indirect Expenses	18,845	5,489	11,772	62%
Totals	120,000¹	36,557	60,873	25%

¹ An additional award of \$120,000 is anticipated in early 2015

**BLM Drill Rig NO₂ Monitoring Study
API Startup and Field Study Funding
Expenses by Object Class through 12/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	3,444	0	3,444	100%
2. Fringe Benefits	469	(0)	469	100%
3. Travel	0	-	-	
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	241,759	231,658	231,658	96%
7. Construction	0	-	-	
8. Other	0	-	-	
9. Indirect Expenses	4,328	0	4,328	100%
Totals	250,000	231,658	239,899	96%

c. Other significant activities

- Field study resources for the Alaska North Slope study site sample collection operations have been volunteered by Conoco-Phillips and BP, reducing the costs to Study sponsors

6. BLM MONTANA-DAKOTAS OIL AND GAS EI PROJECT

This project was completed in the 3rd quarter of 2014. The summary below is the same as the 3rd quarter report, except that the budget summary has been updated to include final expenditures and billings (totaling \$3,975) that occurred in the 4th quarter.

Under this agreement with the BLM Montana-Dakotas Office, WESTAR/WRAP will develop oil and gas (O&G) emissions inventories for the Williston Basin in North Dakota, South Dakota, and Montana, and the Montana North Central (Great Plains) Basin. The WRAP, with expert contractor assistance, will build and report the inventories using the [WRAP Phase III methodology](#) employed in large active basins in the intermountain West. The result will be an accurate, comprehensive criteria pollutant inventory of actual emissions for most major point and area sources associated with exploration and production of O&G in the MT North Central (Great Plains) and ND-SD-MT Williston Basins for year 2011, as well as a mid-term projection year. One benefit of the project is development of a more accurate regional O&G emission inventory data based on input from knowledgeable sources. The project will also contribute to regional air quality modeling efforts and streamline future National Environmental Policy Act (NEPA) reviews by reducing the need for project-specific modeling.

a. Activity Summary

The Williston and Great Plains Basin Project was completed in early Sept. 2014. Project results were delivered via a conference call with dozens of participants from industry, states, federal agencies and the project team. Here is the posting from the [Williston and Great Plains Basin Project web page](#):

Project Results presentation ([PDF](#)) for Sept. 3, 2014 WRAP Oil & Gas Workgroup call

Basin Specific Reports: These Technical Memos contain a description of the sources included in each inventory, the data collection methodology, the inventory preparation procedures and summary tables of the results. The Data Summary spreadsheets contain the summary emissions inventory data itself, including the detailed county-level emissions, emissions by source category and by SCC, permitted and unpermitted emissions if available, and tables and charts of the emissions in similar format to those presented in the report documentation for each basin.

- **Great Plains Basin**
 - 2011 Baseline and 2015 Projection Technical Memo – August 2014 ([PDF](#))
 - 2011 Baseline Data Summary Spreadsheet – August 2014 ([XLSX](#))
 - 2015 Projection Data Summary Spreadsheet – August 2014 ([XLSX](#))
- **Williston Basin**
 - 2011 Baseline and 2015 Projection Technical Memo – August 2014 ([PDF](#))
 - 2011 Baseline Data Summary Spreadsheet – August 2014 ([XLSX](#))
 - 2015 Projection Data Summary Spreadsheet – August 2014 ([XLSX](#))

b. Budget Summary and Status

**BLM MT-Dakotas O&G EI
Expenses by Object Class through 12/31/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	4,818	0	4,839	100%
2. Fringe Benefits	1,011	0	675	67%
3. Travel	329	0	0	0%
4. Equipment	0	-	-	
5. Supplies	0	-	-	
6. Contractual	36,819	3,611	36,818	100%
7. Construction	0	-	-	
8. Other	2,191	365	1,581	72%
9. Indirect Expenses	4,832	(0)	6,087	126%
Totals	50,000	3,975	50,271	100%

7. OTHER SIGNIFICANT ACTIVITIES

- The WESTAR Council directed staff to prepare a draft strategic plan for the organization to be presented for approval at the fall 2015 business meeting. As discussed in the last quarterly report, WESTAR/WRAP is developing a comprehensive technical work plan that, once completed and approved by the membership, will provide a clear framework within which technical projects and activities will be conducted in future years. In part, this framework will help the members identify the work that can be done with the assets and resources currently available, as well as the work that needs to be done to meet member needs. It is envisioned that the WESTAR/WRAP technical work plan will fold into, and be an integral part of WESTAR’s strategic plan.
- Long-time WESTAR member Lynn Terry, Deputy Executive Officer of the California Air Resources Board, retired during the quarter, replaced by Kurt Karperos.
- Rose Jarrahan left WESTAR after serving as Office Manager for 7 months, to go to school full time. Lynn Agnew joined WESTAR as our new Office Manager.

8. CONSOLIDATED EXPENSE SUMMARY

Cumulative Expenses by Object Class and Funding Source through 12/31/2014 All Active Accounts

Object Class	EPA	EPA	NPS	NPS	BLM/JFSP	BLM/API	BLM	BLM	Totals
	Core Grant 2011-2013	Core Grant 2014-2017	Task 1 3-State	Task 2 3-State	PMDETAIL	Drill Rig NO2 Field Study	Air Quality Modeling	MT Dakotas Oil & Gas	
1. Personnel	651,517	52,441	30,872	14,468	5,457	3,444	10,601	4,839	773,637
2. Fringe Benefits	155,844	11,517	4,346	2,230	814	469	1,561	675	177,455
3. Travel	517,352	15,284	318	906	2,355		1,829	0	538,044
4. Equipment	0	-	-	0	0	-	0	0	0
5. Supplies	0	-	-	0	0	-	0	0	0
6. Contractual	113,622	-	-	778,186 ¹	145,590	231,658	30,380	36,818	1,336,254
7. Construction	0	-	-	0	0	-	0	0	0
8. Other	361,871	38,614	7,364	1,040	1,142	-	4,731	1,581	416,343
9. Indirect	446,455	60,098	36,963	16,063	6,300	4,328	11,772	6,087	588,066
Cumulative Expenses	2,246,660	177,953	79,863	812,893	161,657	239,899	60,873	50,000	3,829,798
Budget	2,428,647	2,761,500	79,862	951,373	441,095	250,000	120,000	50,000	7,082,477
Balance Avail	181,987	2,583,547	0	138,480	279,438	10,101	59,127	0	3,252,680

¹ \$4,940 drawn from advance for contractor expenses

**Current Quarter Expenses by Object Class and Funding Source
October 1 – December 31, 2014
All Active Accounts**

	EPA	EPA	NPS	NPS	BLM/JFSP	BLM/API	BLM	BLM	
Object Class	Core Grant 2011-2013	Core Grant 2014-2017	Task 1 3-State	Task 2 3-State	PMDETAIL	Drill Rig NO2 Field Study	Air Quality Modeling	MT Dakotas Oil & Gas	Totals
1. Personnel	0	52,441	-	12,476	2,838	0	4,735	0	72,489
2. Fringe Benefits	256	11,517	4	1,957	445	(0)	747	0	14,926
3. Travel	39,865	15,284	-	906	1,116	-	1,348	0	58,519
4. Equipment	0	-	-	0	0	-	0	0	0
5. Supplies	0	-	-	0	0	-	0	0	0
6. Contractual	162	-	-	0 ¹	62,265	231,658	21,420	3,611	319,116
7. Construction	-8,363 ²	-	-	0	0	-	0	0	-8,363
8. Other	25,466	38,614	825	1,040	65	-	2,819	365	69,194
9. Indirect	615	60,098	-	14,437	3,329	0	5,489	0	83,969
Total Expenses	58,000	177,953	829	30,816	70,059	231,658	36,557	3,976	609,848

¹ \$4,940 drawn from advance for contractor expenses

² Correcting miscoded entry from previous quarter