



WESTAR QUARTERLY REPORT

Reporting Period: 2nd Quarter 2014

Report Date: July 30, 2014

EPA Grant No. XA-00T68001

EPA Grant No. XA-00T82601

NPS Agreement No. P14AC00133

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

a. Activity Summary: Operations Project

The purpose of the Operations project is to provide technical, policy, and administrative support to WESTAR members. Funding for this project comes entirely from member state contributions.

1) Status of work plan activities

WESTAR’s previous report summarized CY2013 activities, results and outcomes. Collectively, the 4th quarter reports from CY2011, 2012, and 2013 represent the total results/outcomes of the activities included in WESTAR’s 2011-2013 work plan and budget. WESTAR’s 2014-2016 grant application, work plan and budget were submitted in June 2014. Pending approval of a new grant work plan, the “Expected Results for CY2014” in the chart below are preliminary and are presented for tracking purposes only.

<i>Expected Result for CY2014</i>	<i>Results/Outcomes</i>	
	<i>2014 Q2</i>	<i>Year-to-date</i>
10 air director conference calls, documented with minutes posted on WESTAR’s website	3	6
2 business meetings, documented with minutes and presentations posted on WESTAR’s website	1	1
24 Committee conference calls	6	12
16 Ad hoc Work Group conference calls	6	15
1 specialty conference on a technical and/or policy topic	0	0
1 meetings held to address priority, emerging topics	0	1
2 trips by committee representatives to attend national meetings and report back to WESTAR membership	0	0

2) Other Significant Activities:

- After consulting with a joint Planning/Technical Committee ad-hoc work group formed last quarter to comment on EPA's modeling platform, WESTAR submitted additional comments to the docket.
- A joint Planning/Technical Committee ad hoc work group discussed the SO2 Data Reporting Rule, and found that the views of the membership were too diverse to develop consensus comments on behalf of WESTAR.
- WESTAR continued to host and participate in discussions on the Woodheater NSPS with its members and outside organizations.
- WESTAR sought and incorporated EPA input on its 2018 Regional Haze SIP project plan.

b. Activity Summary: Training Project

WESTAR's Training Program addresses the near-future training needs of western air quality agencies by identifying critical needs, and offering training courses and workshops that closely match these needs. To accomplish these tasks and responsibilities, WESTAR Training Manager works closely with WESTAR Committee members, Air Directors, WESTAR's staff, western air agency staff, and reviews written comments/suggestions on course evaluations.

WESTAR's Training Program offers two types of educational opportunities:

- i. State/Local Directed:
 - a. Western state/local air agencies are asked to review agency business objectives for the upcoming year;
 - b. State/local agencies assist WESTAR's Training Manager in reviewing the objectives, agendas, and topics of numerous training courses to identify the education opportunity that most closely matches agency business objectives;
 - c. Trainings are conducted as geographically close to the agency as possible in order to reduce barriers and enhance opportunity for staff cross training; and,
 - d. These State/Local Directed educational opportunities generally utilize a standardized course format;
- ii. Specialty Courses:
 - a. Subject matter for Specialty Courses are generally identified by Air Directors and WESTAR's committees;
 - b. These Specialty Courses address new/emerging air quality issues requiring extensive course development activities.

1) Status of work plan activities

WESTAR's previous report summarized CY2013 activities, results and outcomes. Collectively, the 4th quarter reports from CY2011, 2012, and 2013 represent the total results/outcomes of the activities included in WESTAR's 2011-2013 work plan and budget. WESTAR's 2014-2016 grant application, work plan and budget were submitted in June 2014. Pending approval of a new

grant work plan, the “Expected Results for CY2014” in the chart below are preliminary and are presented for tracking purposes only.

<i>Expected Result for CY2014</i>	<i>Results/Outcomes</i>	
	<i>2014 Q2</i>	<i>Year-to-date</i>
25 educational opportunities developed and delivered:	4	5
* April 15-18: Sources & Control of VO (APTI 482)		
* May 12-16: QA for AP Measurement Sys. (APTI 470)		
* May 19-23: QA for AP Measurements Sys. (APTI 470)		
* May 20-23: Permit Practices & Procedures (NACT 334)		
500 students trained	92	138*
1100 student training days	400	538*

* Totals include corrections to quarterly data reported in 2014 quarter 1 report
 Note: WESTAR offered 28 training courses during CY2013, to 815 students, and totaling 1519 student days.

2) Other Activities this Quarter

- In order to help improve our member agencies understanding of the requirements, timing, and program elements, WESTAR staff keeps informed of EPA’s Carbon Pollution Standards for new (111(b)) and existing (111(d)) power plants. Unlike 111(b), for which the impacts on our member agencies are expected to be limited, 111(d) will affect most of WESTAR’s member agencies, and will require extensive resource commitment.
- WESTAR staff serves as a committee member on EPA’s LMS Maintenance/Enhancement/Technical Issues workgroup. Hour long conference calls are held every other Tuesday. The goal of the workgroup is to help EPA and its contractor improve the overall experience of EPA’s APTI-Learn.net Learning Management System (LMS) for the end-user by identifying updates, enhancements, and maintenance issues, and identifying workable and resource-wise solutions.
- WESTAR staff participates on the National Training Strategy workgroup. Conference calls are held at least once a month, or more often when needed. The group is comprised of MJOs, NACAA representatives, AAPCA and EPA. The purposes of the group are to review/prioritize long-term higher-level issues, identify potential opportunities and solutions, and identify cooperative working opportunities.
- WESTAR staff participates on four subcommittees of the National Training Strategy workgroup. Conference calls are held at least once a month, or more often when needed. The group is comprised of MJOs, NACAA representatives, AAPCA and EPA. The purposes of the group are to develop processes for specific issues as identified by the NTS workgroup.
- WESTAR staff actively participates on NACAA’s Joint Training Committee.

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

WESTAR’s previous report summarized CY2013 activities, results and outcomes. Collectively, the 4th quarter reports from CY2011, 2012, and 2013 represent the total results/outcomes of the activities included in WESTAR’s 2011-2013 work plan and budget. WESTAR’s 2014-2016 grant application, work plan and budget were submitted in June 2014. Pending approval of a new grant work plan, the “Expected Results for CY2014” in the chart below are preliminary and are presented for tracking purposes only.

<i>Expected Result for CY2014</i>	<u>Results/Outcomes</u>	
	<i>2014 Q2</i>	<i>Year-to-date</i>
4 Technical Steering Committee meetings / calls documented on website	3	4
4 WRAP Board calls / meetings documented on website	5	5
Participation in 4 face to face technical coordination meetings	2	7

2) Other Activities this Quarter

- Staff continued the development of the Western Regional Modeling Framework through discussions with state and federal agencies.
- Staff conducted workshops sponsored by the State of Utah in Salt Lake City, the State of South Dakota in Pierre, and EPA Region 8 Tribal Air Quality meetings in Denver for state, federal, and local air agencies and land managers on western regional technical analyses and results.
- Staff presented at Midwestern/Central States Technical Workshop and participated in workshop discussions.
- Staff presented keynote talk at 16th “Global Emissions Initiative (GEIA)” Conference: *Bridging Emissions Science and Policy*.
- Staff followed-up on detailed regional technical comments on the EPA OAQPS 2011 and 2018 modeling platforms with OAPQS and OAR-CAMD.
- Staff participated in the NASA Discover-AQ and NCAR FRAPPÉ Science Planning Meeting for the July-August field study.

- Staff coordinated development of November 2014 Fire and Oil & Gas Emissions meetings for all relevant branches of national EPA offices in Research Triangle Park, North Carolina.
- 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.

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, 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
Cumulative Grant Awards by Project
CY2011-2013**

Project Title	Total Anticipated Project Period Cost	Total Awards Project Period to Date as of 6/30/2014	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
Expenses by Object Class through 6/30/2014**

Object Class	Budget¹	This Quarter	Cumulative	Percentage
1. Personnel	644,623	40,539	606,871	94%
2. Fringe Benefits	172,051	10,414	145,149	84%
3. Travel	740,189	54,327	419,446	57%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	114,037	10,298	109,603	96%
7. Construction	0	0	0	
8. Other	351,727	48,689	336,405	96%
9. Indirect Expenses	406,020	43,582	399,049	98%
Totals	2,428,647	207,850	2,016,523	83%

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.

e. Other Significant Activities – EPA Core Grant

WESTAR staff participated with Western Interstate Energy Board (WIEB) staff on conference calls, webinars, and as a panel member at its annual meeting of western PUC commissioners and staff, utility industry representatives, Federal Energy Regulatory Commission commissioners. The purpose of the relationship is to enhance understanding of the issues surrounding 111(d), and encourage discussion among impacted stakeholders in advance of the release of the proposed regulations. During WESTAR's Spring Business meeting WIEB staff participated as speakers to further continue the dialog and increase understanding.

2. EPA NOVATION AGREEMENT

a. Activity Summary

Under this agreement, WESTAR has agreed to be bound by and to perform the grant in accordance with the terms and conditions contained in the predecessor grant with WGA and to carry out the remaining tasks and activities set forth in that grant work plan. Western states and tribes are relying on WESTAR, through WRAP, to assist them in developing Regional Haze SIPs under CFR Sections 51.308 and 51.309, which are the requirements to implement visibility protection for Federal Class I areas under 169A of the Clean Air Act. Commitments include:

Commitment: Periodic progress reports to EPA on the status of objectives

- WESTAR prepares quarterly activity summaries and posts reports on the WESTAR website at www.westar.org/ActivityReports.html.

Commitment: Conference calls and meetings for WRAP members to coordinate on the execution and applications of the studies and projects

- WESTAR/WRAP staff and Technical Steering Committee members prepared and presented a comprehensive description of elements for regional technical and planning support work to be included in the WRAP 2014-18 Integrated Work Plan; the presentation occurred at the [WESTAR/WRAP meetings in late May](#).
- Staff conducted 8 calls with state and regional EPA staff about specific regional technical efforts for the Regional Haze plans due July 2018.

Commitment: Dissemination of reports, data, and summary results via the [WRAP website](#)

- WRAP hosted a presentation with the EPA Clean Air Markets Division on projections of Electrical Generation Unit for western states' air quality planners.
- 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:
 - [South Dakota](#) (Modeling Results [PDF](#) & Western AQ Studies [PDF](#)), June 4, 2014

- [Utah](#) (Modeling Results [PDF](#) & Western AQ Studies [PDF](#)), April 16, 2014 - Utah Division of Air Quality [blog](#) April 24, 2014
- See previous quarterly report for a summary of prior presentations

b. Budget Summary and Status

**EPA Novation Agreement
Expenses by Object Class through 6/30/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	42,192	12,019	33,699	80%
2. Fringe Benefits	14,514	1,699	4,439	31%
3. Travel	7,230	6,859	9,476	131%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	0	0	0	
7. Construction	0	0	0	
8. Other	10,372	2,028	2,868	28%
9. Indirect Expenses	36,494	14,603	35,176	96%
Totals	110,802	37,208	85,657	77%

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.

a. Activity Summary

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

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 for 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 3-State Air Quality Study (3SAQS), conducted the following activities related to the furtherance of these objectives over the reporting period:

Activities related to preparing project status reports for the NPS and the 3-State Study partners:

- Provided staff support for late April 3-State Study Steering Committee meeting.
- Organized and executed two 3-hour 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:

- Extensive efforts are being implemented through weekly conference calls and other project management tools, to achieve September 2014 completion of version 1 of the 3-State Data Warehouse, to align with the deliverables listed in the 2012-14 3SAQS work plan.
- Regional modeling studies for 2008, 2011, and future projections are underway in this quarter, to be completed in the 3rd quarter 2014, to provide databases for subsequent studies by cooperating agencies, their contractors, and other users – for NEPA and other air quality planning efforts.
- Successfully completed hiring process for two (2) new staff at Colorado State University's Cooperative Institute for Research in the Atmosphere (CIRA), the host organization for the 3-State Study Data Warehouse; these staff are dedicated to the completion and implementation of the Data Warehouse.
- Transfer protocols for modeling data and inputs to external users were prepared in anticipation of transfer test sequences with outside users in the 3rd quarter 2014.
- Daily work on the construction and implementation of the data, web database, visualization tools, associated metadata, and web pages to access and use the Data Warehouse was accomplished by the technical contractor team – with review by the 3-State Technical Committee on 2 conference calls during this quarter.

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), ENVIRON International Corp., and Air Resource Specialists (ARS).
- More than a half-dozen conference calls were held this quarter to coordinate the input of 3-State Study cooperator staff from Colorado BLM, the States of Wyoming, Utah, and Colorado, and the EPA Region 8 office with the work of the technical support contractor team including Colorado State University-CIRA, UNC, ENVIRON, and ARS.

b. Budget Summary and Status

**NPS 3-State Study Coordination and Data Warehouse
Expenses by Object Class through 6/30/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	35,178	13,270	22,823	65%
2. Fringe Benefits	4,968	1,872	3,223	65%
3. Travel	950	147	245	26%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	0	0	0	
7. Construction	0	0	0	
8. Other	1,734	2,693	3,820	220%
9. Indirect Expenses	37,032	16,003	28,435	77%
Totals	79,862	33,985	58,546	73%

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, WESTAR will be working with the BLM Project Officer to revise the delivery dates listed below.

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

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

Delivery Dates: October 2014

Status and Activities:

- Analysis of 2008 case studies for publishing results on the [WRAPTools](#) website has been rescheduled for July through September 2014.

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.
- 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, on a quarterly basis in the July 2014 through the September 2015 end point of the project.
- Added 2002 results.
- 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 6/30/2014

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	14,449.00	595.77	1,441.11	10%
2. Fringe Benefits	2,040.92	86.18	206.06	10%
3. Travel	1,900.00	1,089.72	1,239.28	65%
4. Equipment	0.00	0.00	0.00	
5. Supplies	0.00	0.00	0.00	
6. Contractual	400,039.06	15,462.65	15,462.65	4%
7. Construction	0.00	0.00	0.00	
8. Other	7,455.00	665.64	723.77	10%
9. Indirect Expenses	15,211.00	755.72	1,825.95	12%
Totals	441,094.98	18,655.68	20,898.82	5%

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.

Activities this quarter included:

- A Management Team has been formed to advance the study consisting of state, BLM, EPA, and industry members.
- The Study Management Team has drafted and released a Request for Proposal for field study sampling activities.
- The BLM Study Management Team member has coordinated the planning of 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.
- WESTAR/WRAP staff have solicited and received approval from two different Oil & Gas production companies for the Study to test their drill rigs at 3 different locations.
- The WESTAR/WRAP contract employee was hired, and started July 1, 2014, to plan and manage the field sampling activities.
- Review of Study activities by the larger workgroup was scheduled for July 2014.
- Field sampling in Alaska is planned to begin in July and run through December 2014.
- Field sampling in Colorado is planned to begin in August, to complete in Fall 2014.
- A Study web page has been set up to track ongoing Study activities; see current web page content below.

[Drill Rig 1-hour NO₂ Collaborative Monitoring Study – June 2014 status](#)

The purpose of this Study is to collect ambient measurements adjacent to operating drilling rigs to evaluate actual 1-hour NO₂ impacts from drilling operations. In addition, sufficient data would be collected regarding emissions from drilling operations that could be used to verify NO₂ air quality models. The Study is designed to focus on short term episodes as opposed to a long term monitoring program. Long term monitoring is not practical because of the short duration that a drilling rig is at a single location (less than 30 days).

The funding and work plan for this Study is in development. More information will be added.

- Study Organization call – November 2013 ([PDF](#))
- Company Assistance Needed for Ambient Air Quality NO₂ Drill Rig Field Study Program – May 2014 ([PDF](#))
- Drill Rig 1-hour NO₂ Emissions and Air Quality Study Outreach - May 2014 ([PDF](#))
- Collaborative Drill Rig 1-hour NO₂ Impacts Study presentation – EPA/State/Local Modelers Meeting – April 2014 ([PPTX](#))
- WESTAR RFP #2014-01 for Drill Rig NO₂ Monitoring Project – June 20, 2014 ([PDF](#))
- Questions and answers from pre-proposal call about WESTAR RFP #2014-01 – June 28, 2014 ([PDF](#))

b. Budget Summary and Status

Start-up funding for this project has been provided by API for Phase 1 of the Study. This financial support has been provided to fund WESTAR/WRAP to organize the workgroup, and to develop a work plan and schedule to execute the remaining phases of the Study. The funding for Phase 1 is not intended to be used completely, instead to be seed money toward the larger project. The BLM Task 1 funding enables Phase 2 of the Study and provides staff support to the entire Study. Remaining Phase 1 funds will be applied to Phases 2 through 4, combined with additional resources that will be needed for these phases.

**BLM Drill Rig NO₂ Monitoring Study
API Startup Funding
Expenses by Object Class through 6/30/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel		2,028	3,444	
2. Fringe Benefits		283	469	
3. Travel			0	
4. Equipment			0	
5. Supplies			0	
6. Contractual			0	
7. Construction			0	
8. Other			0	
9. Indirect Expenses		2,548	4,328	
Totals	20,000	4,859	8,241	41%

**BLM Drill Rig NO₂ Monitoring Study
BLM Cooperative Agreement
Expenses by Object Class through 6/30/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	16,800	0	0	0
2. Fringe Benefits	6,222	0	0	0
3. Travel	8,426	0	0	0
4. Equipment	0	0	0	0
5. Supplies	0	0	0	0
6. Contractual	68,244	0	0	0
7. Construction	0	0	0	0
8. Other	1,463	0	0	0
9. Indirect Expenses	18,845	0	0	0
Totals	120,000	0	0	0

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.
- Staff is coordinating the Drill Rig NO₂ monitoring project with the [FRAPPE study](#) to establish a study site in the Denver/Front Range area of northern Colorado, with field sampling to occur in the July-August 2014 FRAPPE study timeframe.

6. BLM MONTANA-DAKOTAS OIL AND GAS EI PROJECT

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 Schedule was updated on May 19, 2014. After completing the initial Williston and Great Plains inventory drafts at the beginning of 2014 under a separate agreement with the BLM, comments revealed that there was additional tribal source well data available from EPA as compiled from their “Minor Source” permitting program under a Federal Implementation Plan known as “Review of New Sources and Modifications in Indian Country.” In discussions with the BLM, it was decided that it would be advantageous to analyze this minor source Tribal data for possible inclusion in the inventories, make revisions to the inventories if the Tribal minor source data proved useful, and document the complete methodology and results for the final 2011 and 2015 Williston and Great Plains Basins inventories. Although accurate in their project descriptions, the February 27, 2013 Project Overview and Technical Approach documents posted above have schedules that are now out of date with the project scope enhancements brought about by the review of Tribal data. The current project schedule is found here: ([PDF](#)).

The [Williston and Great Plains Basin Project web page](#) will track ongoing activities; release of the draft project report is planned for August and a conference call to review and brief BLM, other federal land managers, states, EPA, and O&G producers is planned for late August. Twice-monthly project conference calls for the BLM project manager, WESTAR/WRAP staff, and the contractor team are being held.

b. Budget Summary and Status

**BLM MT-Dakotas O&G EI
Expenses by Object Class through 6/30/2014**

Object Class	Budget	This Quarter	Cumulative	Percentage
1. Personnel	4,818	2,136	2,136	44%
2. Fringe Benefits	1,011	298	298	29%
3. Travel	329	0	0	0%
4. Equipment	0	0	0	
5. Supplies	0	0	0	
6. Contractual	36,819	10,198	10,198	28%
7. Construction	0	0	0	
8. Other	2,191	0	0	0%
9. Indirect Expenses	4,832	2,479	2,479	51%
Totals	50,000	15,111	15,111	30%

7. OTHER SIGNIFICANT ACTIVITIES

- WESTAR was audited under the Single Audit Act during the quarter. There were no issues or findings.

8. CONSOLIDATED EXPENSE SUMMARY

Cumulative Expenses by Object Class and Funding Source through 6/30/2014 All Active Accounts

Object Class	EPA Core Grant	EPA Novation	NPS 3-State Task	BLM/JFSP PMDETAIL	BLM/API Drill Rig NO2 Startup	BLM Project 1- Drill Rig NO2	BLM MT Dakotas Oil & Gas
1. Personnel	606,871	33,699	22,823	1,441	3,444	-	2,136
2. Fringe Benefits	145,149	4,439	3,223	206	469	-	298
3. Travel	419,446	9,476	245	1,239	-	-	-
4. Equipment	-	-	-	-	-	-	-
5. Supplies	-	-	-	-	-	-	-
6. Contractual	109,603	-	-	15,463	-	-	10,198
7. Construction	-	-	-	-	-	-	-
8. Other	336,405	2,868	3,820	724	-	-	-
9. Indirect	399,049	35,176	28,435	1,826	4,328	-	2,479
Cumulative Expenses	2,016,523	85,657	58,546	20,899	8,241	-	15,111
Budget	2,428,647	110,802	79,862	441,095	20,000	120,000	50,000
Balance Avail	412,124	25,145	21,316	420,196	11,759	120,000	34,889

Expenses by Object Class and Funding Source
April 1, 2014 – June 30, 2014
All Active Accounts

	EPA	EPA	NPS	BLM/JFSP	BLM/API	BLM	BLM
Object Class	Core Grant	Novation	3-State Task	PMDETAIL	Drill Rig NO2 Startup	Project 1-Drill Rig NO2	MT Dakotas Oil & Gas
1. Personnel	40,539	12,019	13,270	596	2,028	-	2,136
2. Fringe Benefits	10,414	1,699	1,872	86	283	-	298
3. Travel	54,327	6,859	147	1,090	-	-	-
4. Equipment	-	-	-	-	-	-	-
5. Supplies	-	-	-	-	-	-	-
6. Contractual	10,298	-	-	15,463	-	-	10,198
7. Construction	-	-	-	-	-	-	-
8. Other	48,689	2,028	2,693	666	-	-	-
9. Indirect	43,582	14,603	16,003	756	2,548	-	2,479
Total Expenses	207,850	37,208	33,985	18,656	4,859	-	15,111