

Summary for NO2 for 2011-2013 Monitoring Burden and Costs

Jan 22, 2010

Cost Element	Average 2011-2013 NO2				Average 2011-2013 General Network					
	Labor Hours	Labor Costs	Non-labor O & M	Equip/Contract \$	Total Cost	Labor Hours	Labor Costs	Non-labor O & M	Equip/Contract \$	Total Cost
1. Network Design	642	\$40,932		\$289,002	\$40,932	86,840	\$178,073			\$178,073
2. Site Installation	477	\$20,540			\$309,541				\$1,491,228	\$1,491,228
3. Sampling & Analysis	13,340	\$587,876	\$104,231		\$692,107	131	\$13,100	\$98,425	\$2,200	\$113,724
4. Maintenance	9,560	\$531,671	\$130,289		\$661,960					
5. Data Management	5,447	\$315,730			\$315,730	777	\$40,637		\$465,721	\$40,637
6. Quality Assurance	15,339	\$962,205			\$962,205					\$465,721
7. Supervision	4,669	\$278,532			\$278,532					
<b>Totals</b>	<b>49,474</b>	<b>\$2,737,485</b>	<b>\$234,520</b>	<b>\$289,002</b>	<b>\$3,261,007</b>	<b>87,748</b>	<b>\$231,810</b>	<b>\$98,425</b>	<b>\$1,959,149</b>	<b>\$2,289,383</b>

NO2 Grand Total Average 2011-2013

Cost Element	Labor Hours	Labor Costs	Non-labor O & M	Equip/Contract \$	Total Cost
1. Network Design	87,482	\$219,004	\$0	\$0	\$219,004
2. Site Installation	477	\$20,540	\$0	\$1,780,230	\$1,800,770
3. Sampling & Analysis	13,471	\$600,976	\$202,656	\$2,200	\$805,831
4. Maintenance	9,560	\$531,671	\$130,289	\$0	\$661,960
5. Data Management	6,225	\$356,367	\$0	\$0	\$356,367
6. Quality Assurance	15,339	\$962,205	\$0	\$465,721	\$1,427,926
7. Supervision	4,669	\$278,532	\$0	\$0	\$278,532
<b>Totals</b>	<b>137,222</b>	<b>\$2,969,295</b>	<b>\$332,944</b>	<b>\$2,248,151</b>	<b>\$5,550,390</b>







**Table 5.2, 2012 NO2 Monitoring Costs**

Jan 22, 2010

Cost Element	Previous Amortized Hours and Costs						New Site Hours and Costs						Summary NO2					
	# Old Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# New Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# Old Plus New Sites	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	
1. Network Design																		
Network design study (RO)	71	30	7	\$1,920	304	\$19,474	71	30	7	\$1,920	304	\$19,474		609	\$38,948			
Site selection (RO)	71	8	7	\$492	81	\$4,994	71	8	7	\$492	81	\$4,994		162	\$9,987			
<b>Element #1 totals</b>					<b>385</b>	<b>\$24,467</b>					<b>385</b>	<b>\$24,467</b>		<b>771</b>	<b>\$48,935</b>			
2. Site Installation																		
Analyzer	83		7	\$13,806		\$163,700	84		7	\$13,806		\$165,672					\$329,372	
Spare analyzers	4		7	\$13,806		\$8,185	4		7	\$13,806		\$8,284					\$16,469	
Procurement	83	8	7	\$231	95	\$2,745	84	8	7	\$231	96	\$2,778		191	\$5,522			
Equipment installation	83	16	7	\$799	190	\$9,474	84	16	7	\$799	192	\$9,588		382	\$19,062			
<b>Element #2 totals</b>					<b>285</b>	<b>\$184,103</b>					<b>288</b>	<b>\$186,321</b>		<b>573</b>	<b>\$24,584</b>		<b>\$345,840</b>	
3. Supplies and Site Visits																		
Supplies	83						84						167			\$117,500		
Routine site visits	83						84	5,040		\$2,995		\$251,586	167	15,000	\$500,178			
<b>Element #3 totals</b>												<b>\$251,586</b>		<b>15,000</b>	<b>\$500,178</b>		<b>\$117,500</b>	
4. Maintenance																		
Spare parts/supplies	83						84						167			\$146,875		
Remedial repairs	83						84	672		\$36,864		\$109,716	167	2,000	\$109,716			
Routine maintenance	83						84	2,940		\$162,559		\$483,806	167	8,750	\$483,806			
<b>Element #4 totals</b>												<b>\$199,423</b>		<b>10,750</b>	<b>\$593,522</b>		<b>\$146,875</b>	
5 Data Management																		
Data acquisition/processing	83						84	840		\$47,820		\$142,322	167	2,500	\$142,322			
Data reporting	83						84	378		\$21,566		\$69,841	167	1,125	\$69,841			
Data validation	83						84	630		\$35,236		\$104,869	167	1,875	\$104,869			
Data distribution	83						84	210		\$11,647		\$34,663	167	625	\$34,663			
<b>Element # 5 totals</b>								<b>2,058</b>		<b>\$116,269</b>		<b>\$351,694</b>		<b>6,125</b>	<b>\$351,694</b>			
6. Quality Assurance																		
Audits	83						84	3,024		\$186,050		\$553,719	167	9,000	\$553,719			
Routine calibrations	83						84	2,016		\$186,050		\$385,001	167	6,000	\$385,001			
Coordination/implementation	83						84	168		\$10,364		\$30,844	167	500	\$30,844			
Training	83						84	210		\$11,795		\$35,103	167	625	\$35,103			
Reporting	83						84	252		\$15,496		\$46,119	167	750	\$46,119			
QA plan review (annual)	71						71	18		\$2,003		\$6,010	142	53	\$6,010			
QA plan preparation (RO)	71	15	5	\$959	213	\$13,615	71	15	5	\$959	213	\$13,615	142	51	\$13,615			
<b>Element #6 totals</b>					<b>213</b>	<b>\$13,615</b>					<b>213</b>	<b>\$13,615</b>		<b>17,141</b>	<b>\$1,070,410</b>			
7. Supervision																		
Planning/coordination	83						84	504		\$33,459		\$99,581	167	1,500	\$99,581			
Supervision/review	83						84	1,260		\$71,015		\$211,353	167	3,750	\$211,353			
<b>Element #7 totals</b>								<b>1,764</b>		<b>\$104,474</b>		<b>\$310,934</b>		<b>5,250</b>	<b>\$310,934</b>			
<b>Summary of Burdens and Costs</b>					<b>883</b>	<b>\$222,186</b>		<b>3,822</b>		<b>\$864,519</b>	<b>673</b>	<b>\$475,990</b>		<b>54,104</b>	<b>\$2,818,089</b>		<b>\$345,840</b>	
<b>Summary Totals</b>																	<b>\$3,510,472</b>	

Table 5.3, 2013 NO2 Monitoring Costs

Cost Element	Previous Amortized Hours and Costs						New Site Hours and Costs						Summary NO2					
	# Old Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# New Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# Old Plus New Sites	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	
1. Network Design																		
Network design study (RO)	142	30	7	\$1,958	609	\$39,710								609	\$39,710			
Site selection (RO)	142	8	7	\$502	162	\$10,183								162	\$10,183			
<b>Element #1 totals</b>					<b>771</b>	<b>\$49,893</b>								<b>771</b>	<b>\$49,893</b>			
2. Site Installation																		
Analyzer	167		7	\$14,079		\$335,885											\$335,885	
Spare analyzers	8		7	\$14,079		\$16,794											\$16,794	
Procurement	167	8	7	\$236	191	\$5,630							191	\$5,630				
Equipment installation	167	16	7	\$815	382	\$19,435							382	\$19,435				
<b>Element #2 totals</b>					<b>573</b>	<b>\$377,744</b>							<b>573</b>	<b>\$25,065</b>			<b>\$352,679</b>	
3. Supplies and Site Visits																		
Supplies	167												167			\$156,980		
Routine site visits	167												167	\$1,019,936		\$156,980		
<b>Element #3 totals</b>					<b>20,040</b>	<b>\$1,019,936</b>				<b>20,040</b>	<b>\$1,019,936</b>		<b>20,040</b>	<b>\$1,019,936</b>		<b>\$156,980</b>		
4. Maintenance																		
Spare parts/supplies	167												167	\$149,449		\$196,225		
Remedial repairs	167												167	\$659,017				
Routine maintenance	167												167	\$808,467				
<b>Element #4 totals</b>					<b>14,362</b>	<b>\$808,467</b>				<b>14,362</b>	<b>\$808,467</b>		<b>14,362</b>	<b>\$808,467</b>		<b>\$196,225</b>		
5 Data Management																		
Data acquisition/processing	167												167	\$193,864				
Data reporting	167												167	\$99,033				
Data validation	167												167	\$142,847				
Data distribution	167												167	\$47,216				
<b>Element #5 totals</b>					<b>8,183</b>	<b>\$482,959</b>				<b>8,183</b>	<b>\$482,959</b>		<b>8,183</b>	<b>\$482,959</b>				
6. Quality Assurance																		
Audits	167												167	\$754,249				
Routine calibrations	167												167	\$408,135				
Coordination/implementation	167												167	\$42,014				
Training	167												167	\$47,816				
Reporting	167												167	\$62,821				
QA plan review (annual)	142	15	5	\$978	426	\$27,763							142	\$8,171				
QA plan preparation (RO)	142	15	5	\$978	426	\$27,763							142	\$8,171				
<b>Element #6 totals</b>					<b>22,687</b>	<b>\$1,331,375</b>				<b>22,687</b>	<b>\$1,331,375</b>		<b>22,687</b>	<b>\$1,331,375</b>		<b>\$27,763</b>		
7. Supervision																		
Planning/coordination	167												167	\$135,645				
Supervision/review	167												167	\$287,895				
<b>Element #7 totals</b>					<b>7,014</b>	<b>\$423,540</b>				<b>7,014</b>	<b>\$423,540</b>		<b>7,014</b>	<b>\$423,540</b>				
<b>Summary of Burdens and Costs</b>					<b>1,769</b>	<b>\$455,400</b>				<b>72,286</b>	<b>\$4,066,277</b>		<b>73,984</b>	<b>\$4,160,828</b>		<b>\$353,205</b>	<b>\$352,679</b>	
<b>Summary Totals</b>																		<b>\$4,866,712</b>

Table 23. Summary EPA Burdens And Costs for CY-2011-2013

Jan 21, 2010

Item	2010 Summary			2011 Summary			2012 Summary			Aver 2010-2012 EPA Burden		
	Labor Hours	Labor Costs		Labor Hours	Labor Costs		Labor Hours	Labor Costs		Labor Hours	Labor Costs	
1. SLAMS/PAMS oversight (includes site visits, annual network review)	3,356	\$195,467		3,356	\$199,417		3,356	\$201,991		3,356	\$198,959	
2. QA audits (includes perf. audits NPAP, & systems audits)	889	\$53,964		889	\$55,055		889	\$56,186		889	\$55,068	
3. Regional monitoring meeting with States	133	\$7,543		133	\$7,695		133	\$7,853		133	\$7,697	
4. National or regional monitoring meetings	98	\$5,628		98	\$5,742		98	\$5,860		98	\$5,743	
5. 105 Grant activities	369	\$18,920		369	\$19,302		369	\$19,699		369	\$19,307	
7. Other items	211	\$6,232		211	\$6,358		211	\$6,488		211	\$6,359	
8. Methods development in support of regulatory program, and reference and equivalent activities (See footnote)	-	-		-	-		-	-		-	-	
9. In-house burdens for AIRS/AQS (includes AIRS Exec, AIRS TTN Web/Homepage, AIRS conference training)	290	\$35,111		290	\$35,821		290	\$36,557		290	\$35,830	
10. Contractor support including hot line, enhancements maintenance, training, etc.	85	\$5,081		85	\$5,184		85	\$5,290		85	\$5,185	
11. Hardware/software NCC burden, national AQS costs	-	\$33,384		-	\$34,059		-	\$34,758		-	\$34,067	
12. AIR NOW	-	\$18,819		-	\$19,199		-	\$19,593		-	\$19,204	
13. Other (software purchased internal support)	-	\$2,542		-	\$2,593		-	\$2,646		-	\$2,594	
<b>Totals</b>	<b>5,431</b>	<b>\$382,690</b>		<b>5,431</b>	<b>\$390,424</b>		<b>5,431</b>	<b>\$396,922</b>		<b>5,431</b>	<b>\$390,012</b>	

Method development and reference and equivalent activities covered under another ICR (OMB # 2080.0005, EPA # 0559.08 for 4,718 hours and \$101,000.

Table 23.1, Total EPA Burdens And Costs for CY-2011

Jan 21, 2010

Item	EPA Regional Offices		EPA OAQPS				Total EPA	
	Hours	Costs	ITPID Hours	ITPID Costs	EMAD Hours	EMAD Costs	Hours	Costs
1. SLAMS/PAMS oversight (includes site visits, annual network review)	2,125	\$122,811	-	-	1,231	\$72,656	3,356	\$195,467
2. QA audits (includes perf. audits NPAP, & systems audits)	889	\$53,964	-	-	-	-	889	\$53,964
3. Regional monitoring meeting with States	133	\$7,543	-	-	-	-	133	\$7,543
4. National or regional monitoring meetings	98	\$5,628	-	-	-	-	98	\$5,628
5. 105 Grant activities	369	\$18,920	-	-	-	-	369	\$18,920
7. Other items	211	\$6,232	-	-	-	-	211	\$6,232
8. Methods development in support of regulatory program, and reference and equivalent activities (See footnote)	-	-	-	-	-	-	-	-
9. In-house burdens for AIRS/AQS (includes AIRS Exec, AIRS TTN Web/Homepage, AIRS conference, training)	-	-	290	\$35,111	-	-	290	\$35,111
10. Contractor support including hot line, enhancements maintenance, training, etc.	-	-	85	\$5,081	-	-	85	\$5,081
11. Hardware/software NCC burden, national AQS costs	-	-	-	\$33,384	-	-	-	\$33,384
12. AIR NOW	-	-	-	\$18,819	-	-	-	\$18,819
13. Other (software purchased internal support)	-	-	-	\$2,542	-	-	-	\$2,542
<b>Totals</b>	<b>3,825</b>	<b>\$215,098</b>	<b>375</b>	<b>\$94,936</b>	<b>1,231</b>	<b>\$72,656</b>	<b>5,431</b>	<b>\$382,690</b>

Method development and reference and equivalent activities covered under another ICR (OMB # 2080.0005, EPA # 0559.08 for 4,718 hours and \$101,000.

Table 23.2, Total EPA Burdens And Costs for CY-2012

Jan 21, 2010

Item	EPA Regional Offices		EPA OAQPS				Total EPA	
	Hours	Costs	ITPID Hours	ITPID Costs	EMAD Hours	EMAD Costs	Hours	Costs
1. SLAMS/PAMS oversight (includes site visits, annual network review)	2,125	\$125,293	-	-	1,231	\$74,124	3,356	\$199,417
2. QA audits (includes perf. audits NPAP, & systems audits)	889	\$55,055	-	-	-	-	889	\$55,055
3. Regional monitoring meeting with States	133	\$7,695	-	-	-	-	133	\$7,695
4. National or regional monitoring meetings	98	\$5,742	-	-	-	-	98	\$5,742
5. 105 Grant activities	369	\$19,302	-	-	-	-	369	\$19,302
7. Other items	211	\$6,358	-	-	-	-	211	\$6,358
8. Methods development in support of regulatory program, and reference and equivalent activities (See footnote)	-	-	-	-	-	-	-	-
9. In-house burdens for AIRS/AQS (includes AIRS Exec, AIRS TTN Web/Homepage, AIRS conference training)	-	-	290	\$35,821	-	-	290	\$35,821
10. Contractor support including hot line, enhancements maintenance, training, etc.	-	-	85	\$5,184	-	-	85	\$5,184
11. Hardware/software NCC burden, national AQS costs	-	-	-	\$34,059	-	-	-	\$34,059
12. AIR NOW	-	-	-	\$19,199	-	-	-	\$19,199
13. Other (software purchased internal support)	-	-	-	\$2,593	-	-	-	\$2,593
<b>Totals</b>	<b>3,825</b>	<b>\$219,445</b>	<b>375</b>	<b>\$96,855</b>	<b>1,231</b>	<b>\$74,124</b>	<b>5,431</b>	<b>\$390,424</b>



Table 23.3, Total EPA Burdens And Costs for CY-2013

Jan 21, 2010

Item	EPA Regional Offices		EPA OAQPS				Total EPA	
			ITPID		EMAD			
	Hours	Costs	Hours	Costs	Hours	Costs	Hours	Costs
1. SLAMS/PAMS oversight (includes site visits, annual network review)	2,125	\$127,867	-	-	1,231	\$74,124	3,356	\$201,991
2. QA audits (includes perf. audits NPAP, & systems audits)	889	\$56,186	-	-	-	-	889	\$56,186
3. Regional monitoring meeting with States	133	\$7,853	-	-	-	-	133	\$7,853
4. National or regional monitoring meetings	98	\$5,860	-	-	-	-	98	\$5,860
5. 105 Grant activities	369	\$19,699	-	-	-	-	369	\$19,699
7. Other items	211	\$6,488	-	-	-	-	211	\$6,488
8. Methods development in support of regulatory program, and reference and equivalent activities (See footnote)	-	-	-	-	-	-	-	-
9. In-house burdens for AIRS/AQS (includes AIRS Exec, AIRS TTN Web/Homepage, AIRS conference training)	-	-	290	\$36,557	-	-	290	\$36,557
10. Contractor support including hot line, enhancements maintenance, training, etc.	-	-	85	\$5,290	-	-	85	\$5,290
11. Hardware/software NCC burden, national AQS costs	-	-	-	\$34,758	-	-	-	\$34,758
12. AIR NOW	-	-	-	\$19,593	-	-	-	\$19,593
13. Other (software purchased internal support)	-	-	-	\$2,646	-	-	-	\$2,646
<b>Totals</b>	<b>3,825</b>	<b>\$223,953</b>	<b>375</b>	<b>\$98,845</b>	<b>1,231</b>	<b>\$74,124</b>	<b>5,431</b>	<b>\$396,922</b>









