Table 3.1, 2011 SO2 Monitoring Costs

				Previous	Amoritized	Hours an	d Costs		New Site F	lours and	Costs	
						Total	Total					Total
		# Old	Hours/	Years	Cost/	Amor.	Amor.	# New	Hours/	Years	Cost/	Amor.
Cost Element		Sites	Site	Amor.	Site	Hours	Cost	Sites	Site	Amor.	Site	Hours
1. Network Design	1											
1	Network design study (RO)	93	30	7	\$1,881	399	\$24,987					
	Site selection (RO)	93	8	7	\$482	106	\$6,407					
Element #1 totals						505	\$31,394					
2. Site Installation												
	Analyzer	390		7	\$10,200		\$568,286					
	Spare analyzers	20		7	\$10,200		\$28,414					
	Procurement	390	8	7	\$227	446	\$12,633					
	Equipment installation	390	16	7	\$783	891	\$43,606					
	Relocation costs											
Element #2 totals						1,337	\$652,940					
Supplies and Sit	ite Visits											
	Supplies											
	Routine site visits											
Element #3 totals												
4. Maintenance												
	Spare parts/supplies											
	Remedial repairs											
	Routine maintenance											
Element #4 totals												
5 Data Managemer	nt											
	Data acquistion/processing											
	Data reporting											
	Data validation											
	Data distribution											
5 Mii	nute SO2											
	Data acquistion/processing											
	Data reporting											
	Data validation											
	Data distribution											
Element # 5 totals												

6. Quality Ass	surance									
	Audits									
	Routine calibrations									
	Coordination/implementation	1								
	Training									
	Reporting									
	QA plan review (annual) R	93	23	5	\$55	432	\$1,028			
	QA plan preparation (RO)	93	47	5	\$959	865	\$17,834			
Element #6 to	tals					1,297	\$18,862			
7. Supervision	n									
	Planning/coordination									
	Supervision/review									
	5 Minute SO2									
	Planning/coordination									
	Supervision/review									
Element #7 to	tals									
Summary of I	Burdens and Costs					3,139	\$703,196			
Summary Tot	tals									

1.020 (percent inflation 2010 to 2011) 1.041 (percent inflation 2010 to 2012) 1.062 (percent inflation 2010 to 2013)	1.151 1.175 1.198	(percent inflation 2004 to 2011) (percent inflation 2004 to 2012) (percent inflation 2004 to 2013)	
	1.041	(percent inflation 2010 to 2012)	

Table:

										Previous .	Amoritized	l Hours an
Total	# Old				Summary SO2							Total
Amor.	Plus New	Labor	Labor	Labor	Labor	Non-labor	Equip/	# Old	Hours/	Years	Cost/	Amor.
Cost	Sites	Hours	O & M	Hours	Costs	O & M	Contract \$	Sites	Site	Amor.	Site	Hours
				399	\$24,987			93		7	\$1,920	399
				106	\$6,407			93	8	7	\$492	106
				505	\$31,394							505
							ΦΕΩΩ Ω ΩΩ	000		-	#10.440	
							\$568,286	390 20		7 7	\$10,410	
				446	\$12,633		\$28,414	390	٥	7	\$10,410 \$231	446
				891	\$43,606			390	8 16	7	\$799	891
				091	Φ43,000			390	10	1	φ199	091
				1,337	\$56,240		\$596,700					1,337
				_,	+,		+					_,
	390					\$359,112						
	390	46,800	\$2,288,441	46,800	\$2,288,441							
		46,800	\$2,288,441	46,800	\$2,288,441	\$359,112						
	390					\$448,890						
	390	4,680	\$235,667	4,680	\$235,667							
	390	21,840	\$1,159,483	21,840	\$1,159,483							
		26,520	\$1,395,150	26,520	\$1,395,150	\$448,890						
	200	F 400	#205 404	F 400	#205 404							
	390 390	5,460 3,510	\$285,494 \$196,165		\$285,494 \$196,165							
	390	4,680	\$196,165	4,680	\$196,165							
	390	1,560	\$82,596	1,560	\$82,596							
	390	1,500	Ψ0Ζ,590	1,500	Ψ0Ζ,590							
	390	1,365	\$71,374	1,365	\$71,374							
	390	878	\$49,041	878	\$49,041							
	390	1,170	\$63,967	1,170	\$63,967							
	390	390	\$20,649	390	\$20,649							
		19,013	\$1,025,153		\$1,025,153							

											_
390	14,040	\$840,771	14,040	\$840,771							
390	10,140	\$476,721	10,140	\$476,721	1						
390	1,560	\$94,267	1,560	\$94,267	1						
390	1,950	\$107,285	1,950	\$107,285							
390	2,340	\$140,951	2,340	\$140,951	1						ı
93	23	\$1,285	456	\$2,314			93	23	5	\$58	
93	47	\$44,584	911	\$62,418	1		93	47	5	\$978	ı
	30,100	\$1,705,865	31,397	\$1,724,727							
390	4,680	\$304,347	4,680	\$304,347	1						ı
390	11,700	\$645,953	11,700	\$645,953	1						
					1						
390	1,170	\$76,087	1,170	\$76,087	1						ı
390	2,925	\$161,488	2,925	\$161,488	1						
	20,475	\$1,187,875	20,475	\$1,187,875							
	142,907	\$7,602,484	146,047	\$7,708,979	\$808,002	\$596,700					;
						\$9,113,681					

146,047 \$9,113,681

d Costs		New Site	e Hours a	and Costs									
Total					Total	Total	# Old				Summary SO2	2	
Amor.	# New	Hours/	Years	Cost/	Amor.	Amor.	Plus New	Labor	Labor	Labor	Labor	Non-labor	Equip/
Cost	Sites	Site	Amor.	Site	Hours	Cost	Sites	Hours	O & M	Hours	Costs	O & M	Contract \$
\$25,508	32	30	7	\$1,958	137	\$8,949				536	\$34,457		
\$6,541	32	8	7	\$502	37	\$2,295				143	\$8,836		
\$32,049										679	\$43,292		
\$579,986	115		7	\$1,517		\$174,471							\$754,457
\$28,999			7	\$1,517		\$8,724							\$37,723
\$12,896			7	\$236	131	\$3,877				577	\$16,774		
\$44,516	115	16	7		263	\$13,383				1,154	\$57,899		
	115			\$2,500									\$287,500
\$666,397			28	\$4,085	394	\$200,456							\$1,079,680
												+	
							390		+0.004.000	40.000	±0.004.000	\$373,776	
							390	46,800	\$2,381,888	46,800	\$2,381,888	4070 770	
								46,800	\$2,381,888	46,800	\$2,381,888	\$373,776	
							200					#450.050	
							390	4 000	Ф240 F01	4 600	#240 F01	\$458,250	
							390 390	4,680 21,840	\$240,581 \$1,183,660	4,680 21,840	\$240,581 \$1,183,660		
							390	26,520	\$1,424,241	26,520	\$1,424,241	\$458,250	
								20,320	Φ1,424,241	20,320	Φ1,424,241	\$456,250	
							390	5,460	\$291,447	5,460	\$291,447		
							390	3,510	\$291,447	3,510	\$291,447		
							390	4,680	\$261,203	4,680	\$261,203		
							390	1,560	\$84,318	1,560	\$84,318		
							390	1,500	Ψ0,310	1,500	Ψ0,510		
							390	1,365	\$72,862	1,365	\$72,862		
							390	878	\$50,064	878	\$50,064		
							390	1,170	\$65,301	1,170	\$65,301		
							390	390	\$21,080	390	\$21,080		
							550	19,013	\$1,046,528	19,013	\$1,046,528		

				390	14,040	\$858,302	14,040	\$858,302		
				390	10,140	\$486,662	10,140	\$486,662		
				390	1,560	\$96,233	1,560	\$96,233		
				390	1,950	\$109,522	1,950	\$109,522		
				390	2,340	\$143,891	2,340	\$143,891		
\$1,070				93	23	\$1,312	456	\$2,382		
\$18,183				93	47	\$2,624	911	\$20,807		
\$19,253					30,100	\$1,698,545	31,397	\$1,717,798		
				390	4,680	\$310,694	4,680	\$310,694		
				390	11,700	\$659,422	11,700	\$659,422		
				390	1,170	\$77,673	1,170	\$77,673		
				390	2,925	\$164,855	2,925	\$164,855		
					20,475	\$1,212,644	20,475	\$1,212,644		
\$717,699			\$200,456		142,907	\$7,763,846	144,883	\$7,826,391	\$832,026	\$1,079,680
	, i									\$9,738,097

146,047 \$9,514,027

Table 3.3, 2013 SO2 Monitoring Costs

		Previous	Amoritized	d Hours an	d Costs		New Site	Hours and	d Costs					
				Total	Total					Total	Total	# Old		
# OI	d Hours/	Years	Cost/	Amor.	Amor.	# New	Hours/	Years	Cost/	Amor.	Amor.	Plus New	Labor	Labor
Site	Site	Amor.	Site	Hours	Cost	Sites	Site	Amor.	Site	Hours	Cost	Sites	Hours	O & M
	76 30	7	\$1,958	326	\$21,253									
	76 8	7	\$502	87	\$5,450									
				413	\$26,703									
	75	7	\$10,620		\$417,214									
	L4	7	\$10,620		\$20,861									
	75 8	I	1	314										
2	75 16	7	\$815	629	\$32,004									
				943	\$479,350									
				943	Ф479,350									
2	' 5					115						390		
	'5					115	l					390	46,800	\$2,381,888
						110						000	46,800	\$2,381,888
													,	+=,===,===
												390		
												390	4,680	\$245,291
												390	21,840	\$1,206,829
													26,520	\$1,452,120
												390		\$297,152
												390		\$204,175
												390	-	\$266,315
												390	1,560	\$85,968
														4
												390	1,365	\$74,288
												390	878	\$51,044
												390	1,170	\$66,579
												390	390	\$21,492
													19,013	\$1,067,014

												I		
												390	14,040	\$875,103
												390	10,140	\$496,188
												390	1,560	\$98,116
												390	1,950	\$111,666
												390	2,340	\$146,707
57	15	5	\$978	171	\$11,144							57	29	\$1,640
						36	15	5	\$518	108	\$3,729	36	108	\$3,729
				171	\$11,144								30,167	\$1,733,148
												390	4,680	\$316,775
												390	11,700	\$672,330
												390	1,170	\$79,194
												390	2,925	\$168,082
													20,475	\$1,236,381
				1,526	\$517,198								142,974	\$7,870,550

144,500 \$9,228,744

Table 3.0, Summary of SO2 2011-2013

Labor	Labor	Non-labor	Equip/
Hours	Costs	O & M	Contract \$
000	****		
326	\$21,253		
87	\$5,450		
413	\$26,703		
			\$417,214
			+ ,== .
314	\$9,272		
629	\$32,004		
943	\$41,275		\$417,214
		\$373,776	
46,800	\$2,381,888		
46,800	\$2,381,888	\$373,776	
		#407.000	
4.000	#045 004	\$467,220	
4,680	\$245,291		
21,840	\$1,206,829	\$467.220	
26,520	\$1,452,120	\$467,220	
5,460	\$297,152		
3,510	\$204,175		
4,680	\$266,315		
1,560	\$85,968		
	,		
1,365	\$74,288		
878	\$51,044		
1,170	\$66,579		
390	\$21,492		
19,013	\$1,067,014		

	2011				2012	
	Summary SO2				Summary SO2	
Labor	Labor	Non-labor	Equip/	Labor	Labor	Non-labor
Hours	Costs	O & M	Contract \$	Hours	Costs	O & M
399	\$24,987			536	\$34,457	
106	\$6,407			143	\$8,836	
505	\$31,394			679	\$43,292	
			\$568,286			
			\$28,414			
446	\$12,633			577	\$16,774	
891	\$43,606			1,154	\$57,899	
1,337	\$56,240		\$596,700	1,731	\$74,673	
		\$359,112				\$373,776
46,800	\$2,288,441			46,800	\$2,381,888	
46,800	\$2,288,441	\$359,112		46,800	\$2,381,888	\$373,776
		*				* * * * * * * * * * * * * * * *
	****	\$448,890			****	\$458,250
4,680	\$235,667			4,680	\$240,581	
21,840	\$1,159,483	\$440.000		21,840	\$1,183,660	\$450.050
26,520	\$1,395,150	\$448,890		26,520	\$1,424,241	\$458,250
F 400	4005 404			F 400	0004 447	
5,460	\$285,494			5,460	\$291,447	
3,510	\$196,165			3,510	\$200,255	
4,680	\$255,867			4,680	\$261,203	
1,560	\$82,596			1,560	\$84,318	
4 005	ф 7 4 0 7 4			4 005	ф 7 0.000	
1,365	\$71,374			1,365	\$72,862	
878	\$49,041			878	\$50,064	
1,170	\$63,967			1,170	\$65,301	
390	\$20,649			390	\$21,080	
19,013	\$1,025,153			19,013	\$1,046,528	

	14,040	\$875,103		
	10,140	\$496,188		
	1,560	\$98,116		
	1,950	\$111,666		
	2,340	\$146,707		
	200	\$12,784		
	108	\$3,729		
	30,338	\$1,744,292		
1				
	4,680	\$316,775		
	11,700	\$672,330		
	1,170	\$79,194		
	2,925	\$168,082		
	20,475	\$1,236,381		
	144,500	\$7,949,673	\$840,996	\$417,214
				\$9,207,883
•				

14,040	\$840,771			14,040	\$858,302	
*	·					
10,140	\$476,721			10,140	\$486,662	
1,560	\$94,267			1,560	\$96,233	
1,950	\$107,285			1,950	\$109,522	
2,340	\$140,951			2,340	\$143,891	
456	\$2,314			456	\$2,382	
911	\$62,418			911	\$20,807	
31,397	\$1,724,727			31,397	\$1,717,798	
4,680	\$304,347			4,680	\$310,694	
11,700	\$645,953			11,700	\$659,422	
1,170	\$76,087			1,170	\$77,673	
2,925	\$161,488			2,925	\$164,855	
20,475	\$1,187,875			20,475	\$1,212,644	
146,047	\$7,708,979	\$808,002	\$596,700	146,615	\$7,901,064	\$832,026
			\$9,113,681			
				_		

Monitoring Costs

		2013						
)			Average 2011	2012 502	
E avvira /		Summary SO2		E au sina /		Average 2011		E au viva /
Equip/	Labor	Labor	Non-labor	Equip/	Labor	Labor	Non-labor	Equip/
Contract \$	Hours	Costs	O & M	Contract \$	Hours	Costs	O & M	Contract \$
	326	\$21,253			420	\$26,899		
	87	\$5,450			112	\$6,898		
	413	\$26,703			532	\$33,796		
\$754,457				\$417,214				\$579,986
								\$9,471
	314	\$9,272			446	\$12,893		
	629	\$32,004			891	\$44,503		
\$287,500								\$95,833
\$1,041,957	943	\$41,275		\$417,214	1,337	\$57,396		\$685,290
			\$373,776				\$368,888	
	46,800	\$2,381,888			46,800	\$2,350,739		
	46,800	\$2,381,888	\$373,776		46,800	\$2,350,739	\$368,888	
			\$467,220				\$458,120	
	4,680	\$245,291			4,680	\$240,513		
	21,840	\$1,206,829			21,840	\$1,183,324		
	26,520	\$1,452,120	\$467,220		26,520	\$1,423,837	\$458,120	
	,					,	,	
	5,460	\$297,152			5,460	\$291,364		
	3,510	\$204,175			3,510	\$200,198		
	4,680	\$266,315			4,680	\$261,128		
	1,560	\$85,968			1,560	\$84,294		
	2,000	455,500			2,000	40 .,20 1		
	1,365	\$74,288			1,365	\$72,841		
	878	\$51,044			878	\$50,050		
	1,170	\$66,579			1,170	\$65,282		
	390	\$21,492			390	\$21,074		
	19,013	\$1,067,014			19,013	\$1,046,232		

	14,040	\$875,103			14,040	\$858,059		
	10,140	\$496,188			10,140	\$486,523		
	1,560	\$98,116			1,560	\$96,205		
	1,950	\$111,666			1,950	\$109,491		
	2,340	\$146,707			2,340	\$143,850		
	200	\$12,784			370	\$5,827		
	108	\$3,729			644	\$28,984		
	30,338	\$1,744,292			31,044	\$1,728,939		
	4,680	\$316,775			4,680	\$310,605		
	11,700	\$672,330			11,700	\$659,235		
	1,170	\$79,194			1,170	\$77,651		
	2,925	\$168,082			2,925	\$164,809		
	20,475	\$1,236,381			20,475	\$1,212,300		
\$1,041,957	144,500	\$7,949,673	\$840,996	\$417,214	145,721	\$7,853,239	\$827,008	\$685,290
\$9,775,047				\$9,207,883				\$9,365,537

Table 22.1, 2011 General SO2 Network Mon

		Previous A	moritized Ho	ours and Co	sts			New Site	Hours and	d Costs for
					Total	Total				
	# Old	Hours/	Years	Cost/	Amor.	Amor.	# New	Hours/	Years	Cost/
Cost Element	Sites	Site	Amor.	Site	Hours	Cost	Sites	Site	Amor.	Site
Network Design										
Network design study (see pollutan	t)									
Site selection (see pollutant)										
Additional indirect cost adj (\$2/hou)				146,592	\$337,455				
Element #1 totals	,									
2. Site Installation										
Multigas calibrator	130		7	\$16,114		\$299,260				
Zero air supply	130		7	\$4,604		\$85,503				
Ambient air intake manifold asseml	130		7	\$1,727		\$32,064				
Shelter (large, temp controlled)	130		10	\$29,351		\$381,557				
Shelter delivery charges	130		10	\$576		\$7,482				
Other shelter equipment/accessori	130		10	\$4,604		\$59,852				
Data logger	130		10	\$2,302		\$29,926				
Site preparation	130		7	\$5,180		\$96,191				
Power drop	130		7	\$806		\$14,963				
Land/lease	130			\$1,200		\$156,000				
Element #2 totals						\$1,162,796				
3. Sampling and Analysis										
Vehicle										
Travel time to sites	130				104	\$10,175				
Element #3 totals					104	\$10,175				
4. Maintenance										
Element #4 totals										
5. Data Management										
Analysis and trends (rep org)	108	208		\$10,564	22,464	\$1,140,899				
Element #5 totals					22,464	\$1,140,899				
6. Quality Assurance										
Multigas calibrator	108		7	\$16,114		\$248,616				
Zero air supply	108		7	\$4,604		\$71,033				
Miscellaneous equipment	108		7	\$2,302		\$35,517				
Element #6 totals						\$355,166				

7. Supervision						
Element #7 totals						
Summary of Burdens and Costs			22,568	\$2,669,036		
Summary Totals						

- 1.151 (percent inflation 2004 to 2011)
- 1.175 (percent inflation 2004 to 2012)
- 1.198 (percent inflation 2004 to 2013)
 - 1 (percent inflation 1998 to 2007)
 - 1 (percent inflation 1998 to 2008)
 - 1 (percent inflation 1998 to 2009)
 - 1 (percent inflation 2004 to 2006)
 - 1 (percent inflation 2004 to 2007)
 - 1 (percent inflation 2004 to 2008)
 - 1 (percent inflation 2004 to 2009)
 - 1 (percent inflation 2006 to 2007)
 - 1 (percent inflation 2006 to 2008)
 - 1 (percent inflation 2005 to 2007)
 - 1 (percent inflation 2005 to 2008)
 - 1 (percent inflation 2005 to 2009)
- 1.128 (percent inflation 2004 to 2010)
- 1.151 (percent inflation 2004 to 2011)
- 1.175 (percent inflation 2004 to 2012)

itoring Costs

General Ne	etwork									Previous Amo	ritized Hours a
Total	Total					Summary, Gei	neral Network				
Amor.	Amor.	# Old			Labor	Labor	Non-labor	Equip/	# Old	Hours/	Years
Hours	Cost	Plus New	Hours	O & M	Hours	Costs	O & M	Contract \$	Sites	Site	Amor.
							146,592	\$337,455			
							146,592	\$337,455			
								\$299,260	130		7
								\$85,503	130		7
								\$32,064	130		7
								\$381,557	130		10
								\$7,482	130		10
								\$59,852	130		10
								\$29,926	130		10
								\$96,191	130		7
								\$14,963	130		7
							\$156,000		130		
							\$156,000	\$1,006,796			
							\$75,232				
					104	\$10,175			130		
					104	\$10,175	\$75,232				
					22,464	\$1,140,899			108	208	
					22,464	\$1,140,899					
								\$248,616	130		7
								\$71,033	130		7
								\$35,517	130		7
								\$355,166			

		22,568	\$1,151,074	\$377,824	\$1,699,417		
					\$3,228,314		

22,568 \$3,046,859

Table 22.2, 2012 General SO2 Network Monitoring Costs

nd Costs				New Site Hou	rs and Costs fo	r General Netv				
	Total	Total					Total	Total		
Cost/	Amor.	Amor.	# New	Hours/	Years	Cost/	Amor.	Amor.	# Old	
Site	Hours	Cost	Sites	Site	Amor.	Site	Hours	Cost	Plus New	Hours
	147,160	\$345,826								
	147,160	\$345,826								
1		+00= =00			_	10.150				
\$16,450		\$305,500			7	16,450		270,250		
\$4,700		\$87,286				4,700		77,214		
\$1,763 \$29,963		\$32,732	115 115		10	1,763 29,963		28,955		
\$588		\$389,513 \$7,638				29,963 588		344,569 6,756		
\$4,700		\$61,100			10 10	4,700		54,050		
\$2,350		\$30,550			10	9,400		108,100		
\$5,288		\$98,196			7	5,288		86,866		
\$823		\$15,275			7	823		13,513		
\$1,200		\$156,000			'	1,200		138,000		
Ψ1,200		\$1,183,789	113			1,200		\$1,128,273		
		Ψ1,100,100						Ψ1,120,210		
	104	\$10,387								
	104	\$10,387								
	-	,								
\$10,784	22,464	\$1,164,688								22,464
	22,464	\$1,164,688								22,464
\$16,450		\$305,500	115		7	16,450		270,250		
\$4,700		\$87,286	115		7	4,700		77,214		
\$2,350		\$43,643	115		7	2,350		38,607		
		\$436,429						\$386,071		

169,728	\$3,141,119			\$1,514,345	

169,728

Table 22.3, 2013 General

				NOV 2009		Drovieus A	no o vitim o el 11 e	use and Casta			
			1.51			Previous A	moritized Hou	irs and Costs	+	-	
		Summary, Ge							Total	Total	
	Labor	Labor	Non-labor	Equip/	# Old	Hours/	Years	Cost/	Amor.	Amor.	# New
O & M	Hours	Costs	O & M	Contract \$	Sites	Site	Amor.	Site	Hours	Cost	Sites
			147,160	\$345,826					144,101	\$345,266	
			147,160	\$345,826					144,101	\$345,266	
		\$16,450		\$575,750	345		7	\$16,772		\$826,620	
		\$4,700		\$164,500	345		7	\$4,792		\$236,177	
		\$1,763		\$61,688	345		7	\$1,797		\$88,566	
		\$29,963		\$734,081	345		10	\$30,549		\$1,053,941	
		\$588		\$14,394	345		10	\$599		\$20,666	
		\$4,700		\$115,150	345		10	\$4,792		\$165,324	
				\$138,650	345		10	\$2,396		\$82,662	
		\$5,288		\$185,063	345		7	\$5,391		\$265,699	
		\$823		\$28,788	345		7	\$839		\$41,331	
	1,200			\$156,000	345			\$1,200		\$414,000	
	1,200	\$64,273		\$2,174,063						\$3,194,986	
			\$76,800								
	104	\$10,387			130				104	\$10,590	
	104	\$10,387	\$76,800						104	\$10,590	
\$1,164,688	22,464	\$1,164,688			168	208		\$10,995	34,944	\$1,847,201	
\$1,164,688	22,464	\$1,164,688							34,944	\$1,847,201	
		,								,	
				\$575,750	156		7	\$16,772		\$373,776	
				\$164,500	156		7	\$4,792		\$106,793	
				\$82,250	156		7	\$2,396		\$53,397	
				\$822,500				. ,,500		\$533,966	
				,,,,,,						,	

\$1,164,688	23,768	\$1,239,348	\$223,960	\$3,342,389			179,149	\$5,932,009	
				\$4,805,697					

\$6,044,112

| SO2 Network Monitoring Costs

lew Site H	lours and C	osts for Ge										
			Total	Total					Summary, Ger			
Hours/	Years	Cost/	Amor.	Amor.	# Old			Labor	Labor	Non-labor	Equip/	Labor
Site	Amor.	Site	Hours	Cost	Plus New	Hours	O & M	Hours	Costs	O & M	Contract \$	Hours
										144,101	\$345,266	
										144,101	\$345,266	(
											\$826,620	
											\$236,177	
											\$88,566	
											\$1,053,941 \$20,666	
											\$20,666 \$165,324	
											\$82,662	
											\$265,699	
											\$41,331	
											\$414,000	
											\$3,194,986	
											, , , , , , , , , , , , , , , , , , , ,	
										\$78,304		
								104	\$10,590			104
								104	\$10,590	\$78,304		104
								34,944				22,464
								34,944	\$1,847,201			22,464
											\$373,776	
											\$106,793	
											\$53,397	
											\$533,966	

				35,048	\$1,857,791	\$222,405	\$4,074,218	22,568
							\$6,154,414	

179,149 ###

Table 22.0, Summary of General SO2 Network 2011-2013 Monitoring Costs

	2010				2011			2012				
Costs O & M Contract \$ Hours Costs O & M Contract \$ Hours \$337,455 \$345,826 \$345,826 \$345,266 \$0 \$337,455 0 \$0 \$345,826 0 \$0 \$345,266 \$299,260 \$575,750 \$826,620 \$236,177 \$236,177 \$32,064 \$61,688 \$88,566 \$88,566 \$381,557 \$7,482 \$734,081 \$1,053,941 \$1,053,941 \$1,053,941 \$165,324 \$165,324 \$165,324 \$138,650 \$82,662 \$29,926 \$138,650 \$265,699	Summary, Ge	neral Network			Summary, Gene	eral Network			Summary, Gene	eral Network		
\$337,455 \$345,826 \$345,266 \$345,266 \$37,455 0 \$0 \$0 \$345,826 0 \$0 \$0 \$345,266 \$329,260 \$575,750 \$826,620 \$236,177 \$32,064 \$61,688 \$88,566 \$381,557 \$734,081 \$1,053,941 \$7,482 \$59,852 \$115,150 \$165,324 \$29,926 \$96,191 \$185,063 \$2265,699	Labor		Equip/	Labor	Labor		Equip/	Labor	Labor		Equip/	Labor
\$0 \$337,455 0 \$0 \$345,826 0 \$0 \$0 \$345,266 \$299,260 \$85,503 \$164,500 \$236,177 \$32,064 \$61,688 \$88,566 \$381,557 \$734,081 \$1,053,941 \$7,482 \$59,852 \$115,150 \$165,324 \$29,926 \$96,191 \$185,063 \$265,699	Costs	O & M	Contract \$	Hours	Costs	O & M	Contract \$	Hours	Costs	O & M	Contract \$	Hours
\$0 \$337,455 0 \$0 \$\$0 \$345,826 0 \$\$0 \$\$345,266 \$\$299,260 \$\$575,750 \$\$164,500 \$\$236,177 \$\$32,064 \$\$61,688 \$\$8734,081 \$\$1,053,941 \$\$7,482 \$\$59,852 \$\$115,150 \$\$165,324 \$\$29,926 \$\$96,191 \$\$185,063 \$\$185,063												
\$0 \$337,455 0 \$0 \$\$0 \$345,826 0 \$\$0 \$\$345,266 \$\$299,260 \$\$575,750 \$\$164,500 \$\$236,177 \$\$32,064 \$\$61,688 \$\$8734,081 \$\$1,053,941 \$\$7,482 \$\$59,852 \$\$115,150 \$\$165,324 \$\$29,926 \$\$96,191 \$\$185,063 \$\$185,063												
\$0 \$337,455 0 \$0 \$345,826 0 \$0 \$0 \$345,266 \$299,260 \$85,503 \$164,500 \$236,177 \$32,064 \$61,688 \$88,566 \$381,557 \$734,081 \$1,053,941 \$7,482 \$59,852 \$115,150 \$165,324 \$29,926 \$96,191 \$185,063 \$265,699												
\$299,260 \$85,503 \$85,503 \$32,064 \$331,557 \$7,482 \$59,852 \$115,150 \$138,650 \$96,191 \$												
\$85,503 \$164,500 \$236,177 \$32,064 \$61,688 \$88,566 \$381,557 \$734,081 \$1,053,941 \$7,482 \$115,150 \$165,324 \$29,926 \$138,650 \$82,662 \$96,191 \$185,063 \$265,699	\$0		\$337,455	0	\$0		\$345,826	0	\$0		\$345,266	0
\$85,503 \$164,500 \$236,177 \$32,064 \$61,688 \$88,566 \$381,557 \$734,081 \$1,053,941 \$7,482 \$115,150 \$165,324 \$29,926 \$138,650 \$82,662 \$96,191 \$185,063 \$265,699												
\$32,064 \$61,688 \$88,566 \$381,557 \$734,081 \$1,053,941 \$7,482 \$15,150 \$165,324 \$29,926 \$138,650 \$82,662 \$96,191 \$185,063 \$265,699												
\$381,557 \$7,482 \$59,852 \$115,150 \$29,926 \$96,191 \$138,650 \$185,063 \$185,063 \$265,699			· ·				· ·					
\$7,482 \$59,852 \$115,150 \$165,324 \$29,926 \$96,191 \$185,063 \$185,063 \$265,699												
\$59,852 \$115,150 \$165,324 \$29,926 \$138,650 \$82,662 \$96,191 \$185,063 \$265,699							\$734,081				\$1,053,941	
\$29,926 \$96,191 \$138,650 \$185,063 \$265,699							****				****	
\$96,191 \$185,063 \$265,699							-					
\$0 \$156,000 \$414,000 \$414,000 \$4174,000												
\$1,006,796 \$2,159,669 \$3,174,320			\$1,006,796				\$2,159,669				\$3,174,320	
\$\delta \tau \tau \tau \tau \tau \tau \tau \t		φ7F 222				φ7C 000				Φ 7 0.204		
\$10,175 \$75,232 \$76,800 \$76,800 \$78,304 \$10,590 \$10,4 \$10,590	¢10.17E			104	¢10.207	\$76,800		104	¢10 E00	\$78,304		104
\$10,175 104 \$10,387 104 \$10,590 \$10,175 \$75,232 104 \$10,387 \$76,800 104 \$10,590 \$78,304	•					¢76 900				¢70 204		104 104
\$10,175 \$75,252 104 \$10,387 \$70,800 104 \$10,590 \$76,504	\$10,175	\$15,232		104	\$10,367	\$70,600		104	\$10,590	Φ10,304		104
\$1,140,899 22,464 \$1,164,688 34,944 \$1,847,201 2	\$1 140 899			22 464	\$1 164 688			34 944	\$1 847 201			26,624
												26,624
22,101	+1,110,000			22,104	ΨΞ,ΞΟ 1,500			01,044	Ψ1,0 11,201			20,024
\$248,616 \$575,750 \$373,776			\$248.616				\$575.750				\$373.776	
\$71,033												
\$35,517 \$82,250 \$53,397												
\$355,166 \$822,500 \$533,966												

\$1,151,074	\$75,232	\$1,699,417	22,568	\$1,175,075	\$76,800	\$3,327,995	35,048	\$1,857,791	\$78,304	\$4,053,552	26,728
		\$2,925,722				\$4,579,870				\$5,989,647	

Nov 2009

Average 2010-2012 General Network								
Labor	Non-labor	Equip/						
Costs	O&M	Contract \$						
		\$342,849						
\$0		\$342,849						
		\$567,210						
		\$162,060						
		\$60,773						
		\$723,193						
		\$2,494						
		\$113,442						
		\$83,746						
		\$182,318						
		\$28,361						
		\$190,000						
		\$2,113,595						
	470 770							
#10.004	\$76,779							
\$10,384 \$10,384	\$76,779							
\$10,384	\$70,779							
\$1,384,263								
\$1,384,263								
, =, = 5 ., = 30								
		\$399,381						
		\$114,109						
		\$57,054						
		\$570,544						

\$1,394,647	\$76,779	\$3,026,988
		\$4,498,413

Summary for SO2 for 2011-2013 Monitoring Burden and Costs

		Average 202		Average 2			
	Labor	Labor	Non-labor	Equip/	Total	Labor	Labor
Cost Element	Hours	Costs	O&M	Contract \$	Cost	Hours	Costs
Network Design	532	\$33,796			\$33,796		
2. Site Installation	1,337	\$57,396		\$685,290	\$742,686		
3. Sampling & Analysis	46,800	\$2,350,739	\$368,888		\$2,719,627	104	\$10,384
4. Maintenance	26,520	\$1,423,837	\$458,120		\$1,881,957		
Data Management	19,013	\$1,046,232			\$1,046,232	26,624	\$1,384,263
6. Quality Assurance	31,044	\$1,728,939			\$1,728,939		
7. Supervision	20,475	\$1,212,300			\$1,212,300		
Totals	145,721	\$7,853,238	\$827,008	\$685,290	\$9,365,537	26,728	\$1,394,647

SO2 Grand Total Average 2011-2013

	Labor	Labor	Non-labor	Equip/	Total
Cost Element	Hours	Costs	O & M	Contract \$	Cost
1. Network Design	532	\$33,796	\$0	\$342,849	\$376,645
2. Site Installation	1,337	\$57,396	\$0	\$2,798,886	\$2,856,281
3. Sampling & Analysis	46,904	\$2,361,123	\$445,667	\$0	\$2,806,789
4. Maintenance	26,520	\$1,423,837	\$458,120	\$0	\$1,881,957
5. Data Management	45,637	\$2,430,494	\$0	\$0	\$2,430,494
6. Quality Assurance	31,044	\$1,728,939	\$0	\$570,544	\$2,299,483
7. Supervision	20,475	\$1,212,300	\$0	\$0	\$1,212,300
Totals	172,449	\$9,247,885	\$903,787	\$3,712,278	\$13,863,950

Aug 2006

Nov 2009									
2011-2013 General Network									
Non-labor	Equip/	Total							
O&M	Contract \$	Cost							
	\$342,849	\$342,849							
	\$2,113,595	\$2,113,595							
\$76,779		\$87,163							
		\$1,384,263							
	\$570,544	\$570,544							
\$76,779	\$3,026,988	\$4,498,413							