

CCAQS PROJECT SUMMARY						
No.	CRPAQS Project (Existing Funds)	Budget	Status	Lead for Write-up	Project Sub-Group Members	No.
1	Improve emission estimates for urban ammonia sources	\$75,000	PC Approved SOW Development	Shaw, Sweet, Reynolds		1
2	Develop improvements to WRF to address performance deficiencies and application to winter episodes	\$150,000	PC Approved SOW Development	Yin, ARB	Tanrikulu, Sweet, Arcemont, Coleman	2
3	Develop improvements to the PM2.5 inventory to better reconcile with ambient measurements	\$200,000	PC Approved SOW Development	Taylor, ARB; GICG	CCOS Gridded Inventory Coordination Group, GICG	3
4	Update of CRPAQS conceptual model and synthesis of results (Roll in to CCOS combined synthesis project)	\$100,000	PC has already approved funding	Watson/Magliano		4
5	Conservation management practices evaluation	\$100,000	District directed funding	Sweet	Ag-Tech (On-going)(Steve Shaw to follow up w/ Sweet)	5
6	Raisin harvesting emissions study	\$20,000	PC has already approved funding	Sweet	Ag-Tech (Steve Shaw to follow up w/ Sweet)	6
7	Chemical speciation of samples from 2 urban monitors in the SJV for one year	\$60,000	High end of range is \$180,000 for more years	Klassen; Nunes; Shaw	(Steve Shaw to follow up)	7
8	Chemical speciation of samples from 1 rural monitor in the SJV for one year	\$75,000	High end of range is \$150,000 for more years	Klassen; Nunes; Shaw	(Steve Shaw to follow up)	8
TOTAL: EXISTING CRPAQS FUNDS		\$780,000				
Project#	CCOS Project (Existing Funds) <i>Integration and Synthesis (I&S)</i>	Budget	Status	Lead for Write-up	Project Sub-Group Members	Project#
III-10	Link Data Analysis and Modeling Efforts (III-10)	\$100,000	Merging; Awaiting TC Approval	Reynolds	Hughes, Kaduwela; Sweet; Tanrikulu; DaMassa; Magliano, Ziman; Katayama	III-10
III-19	Refine Conceptual Model (III-19)	\$100,000	Merging; Awaiting TC Approval	Reynolds	Hughes, Kaduwela; Sweet; Tanrikulu; DaMassa; Magliano, Ziman; Katayama	III-19
III-20	Integrate CCOS and CRPAQS Findings (III-20)	\$80,000	Merging; Awaiting TC Approval	Reynolds	Hughes, Kaduwela; Sweet; Tanrikulu; DaMassa; Magliano, Ziman; Katayama	III-20
III-21	Prepare and Publish CCOS Summary Document, Scientific Papers, Final Synthesis Document and hold CCOS Conference (III-21)	140,000 10k?	Merging; Awaiting TC Approval	Reynolds	Hughes, Kaduwela; Sweet; Tanrikulu; DaMassa; Magliano, Ziman; Katayama	III-21
Subtotal		\$390,000	\$290,000 (\$100k freed?)			
<i>Emission Inventory Development (EID)</i>						
N3 & N9	Develop factors to represent seasonal trucking in base year and future CCOS modeling inventories (N3); AND Improve the temporal and spatial distribution of on-road motor vehicle emissions on weekend days (N9)	\$325,000	PC Requested More Info	Benjamin/Sax, ARB	CCOS Gridded Inventory Coordination Group, GICG	N3 & N9
Subtotal		\$325,000				
<i>Model Development & Evaluation (MD&E)</i>						
N12	Reinvestigate September 2000 episode (N12)	\$80,000	Inactive - DROP????????	Kaduwela, ARB		N12
III-14	Provide web access of modeling results (III-14)	\$30,000	Inactive - DROP???????? (CCOS New #7)	Tanrikulu		III-14
Subtotal		\$110,000				
<i>Corroborative Data Analysis (CA)</i>						
III-8a	Technical review and summary of CCOS results that could be used as corroborative analysis (III-8 Part 1) (Scope was refined at PC Mtg)	\$35,000	Inactive - DROP????????	Kaduwela, ARB		III-8a
III-8b	Review, develop, and evaluate improved approaches for corroborative analyses (III-8 Part 2)	\$130,000	Awaiting TC discussion and PC approval	Sweet (Reynolds?)	Tanrikulu (Steve Shaw to follow up w/ Sweet)	III-8b
Subtotal		\$165,000				
TOTAL: EXISTING CCOS FUNDS		\$990,000				
Project#	CCOS Project (New Funds)	Budget	Status	Lead for Write-up	Project Sub-Group Members	Project#
1	Develop improvements to spatial and temporal allocation of mobile source emission estimates	\$300,000	PC Requested More Info	Benjamin/Sax, ARB	CCOS Gridded Inventory Coordination Group, GICG	1
2	Develop improvements to construction emission estimates	\$100,000	PC Requested More Info	Benjamin/Sax/Livingston, ARB	CCOS Gridded Inventory Coordination Group, GICG	2
3	Improve characterization of wildfire emissions and O3 formation mechanisms	\$200,000	PC Approved SOW Development	Magliano/District Work Group	Shaw, Anderson, Bohnenkamp, Reynolds, Arcemont, Sweigert, Zulawnick	3
4	Establish account for administrative expenses	\$50,000	"	Sweet	(Steve Shaw to follow up; Cindy Hamm?)	4
5	Develop information to support feasibility studies identified in SJV and SMAQMD O3 SIPs	\$300,000	"	Katayama (\$100k for composting approved)	Districts (need names)	5
6	Characterize upwind ozone precursor measurements	\$250,000	Contract approved by PC	Tanrikulu, BAAQMD		6
7	Establish funding for computer equipment and support	\$250,000	On Hold	Policy Committee		7
8	Expand O3 cluster analysis to address PM	\$90,000	PC Approved SOW Development	Paloglozu, Shah/Larsen, ARB	Tanrikulu, Arcemont, Sweet, Coleman, Shipp, Zulawnick, Kaduwela, Avise	8
TOTAL: NEW CCOS FUNDS		\$1,540,000				
Project#	Other, Potential Funding Considerations	Budget	Status	Lead for Write-up	Project Sub-Group Members	Project#
Opt-1	Co-funding of Central-Southern California Biogenic Emissions Validation Project	\$300,000	Awaiting Avail. CCOS/CRPAQS Funds (e.g. savings from above, etc)	Avise, ARB		Opt-1
TOTAL - Other Funding Considerations		\$300,000				

CCAQS PROJECT PROGRESS												
CRPAQS Project (Existing Funds)	Develop SOW	TC Approv.	PC Approv.	Develop RFP	TC Approv.	RFP Release	Contractor Selection	PC Approv.	Study Ag. Approv.	Contract Number	Contract Start	Contract End
Improve emission estimates for urban ammonia sources	TBD											
Develop improvements to WRF to address performance deficiencies and application to winter episodes	(done)	July	✓	✓	✓	✓	✓	✓	✓			
Develop improvements to the PM2.5 inventory to better reconcile with ambient measurements	JAN											
Update of CRPAQS conceptual model and synthesis of results	JAN						DRI (Watson)	11/3/06				
Conservation management practices evaluation	TBD						USDA-ARS	11/13/08	3/09	09-1PM	3/09	12/31/2011
Raisin harvesting emissions study	TBD						tbd	3/28/08				
Chemical speciation of samples from 2 urban monitors in the SJV for one year	MAY											
Chemical speciation of samples from 1 rural monitor in the SJV for one year	MAY											
CCOS Project (Existing Funds)	Develop SOW	TC Approv.	PC Approv.	Develop RFP	TC Approv.	RFP Release	Contractor Selection	PC Approv.	Study Ag. Approv.	Contract Number	Contract Start	Contract End
<i>Integration and Synthesis (I&S)</i>												
Link Data Analysis and Modeling Efforts (III-10)	DEC	DEC					Reynolds					
Refine Conceptual Model (III-19)	DEC	DEC					Reynolds					
Integrate CCOS and CRPAQS Findings (III-20)	DEC	DEC					Reynolds					
Prepare and Publish CCOS Summary Document, Scientific Papers, Final Synthesis Document and hold CCOS Conference (III-21)	TBD						Reynolds					
<i>Emission Inventory Development (EID)</i>												
Develop factors to represent seasonal trucking in base year and future CCOS modeling inventories (N3); AND												
Improve the temporal and spatial distribution of on-road motor vehicle emissions on weekend days (N9)	TBD											
<i>Model Development & Evaluation (MD&E)</i>												
Reinvestigate September 2000 episode (N12)	✓	✓	✓	✓	✓	✓	DROP?					
Provide web access of modeling results (III-14)	✓	DROP?										
<i>Corroborative Data Analysis (CA)</i>												
Technical review and summary of CCOS results that could be used as corroborative analysis (III-8 Part 1) (Scope was refined at PC Mtg)	DROP?											
Review, develop, and evaluate improved approaches for corroborative analyses (III-8 Part 2)	APR											
CCOS Project (New Funds)	Develop SOW	TC Approv.	PC Approv.	Develop RFP	TC Approv.	RFP Release	Contractor Selection	PC Approv.	Study Ag. Approv.	Contract Number	Contract Start	Contract End
Develop improvements to spatial and temporal allocation of mobile source emission estimates	TBD											
Develop improvements to construction emission estimates	TBD											
Improve characterization of wildfire emissions and O3 formation mechanisms	FEB											
Establish account for administrative expenses	TBD											
Develop information to support feasibility studies identified in SJV and SMAQMD O3 SIPs	TBD			✓	✓	✓	San Diego State	2/18/09	✓	09-01	4/09	
Characterize upwind ozone precursor measurements	✓	✓					T&B Systems	4/15/09	✓	09-02	5/09	6/30/2012
Establish funding for computer equipment and support	ON HOLD											
Expand O3 cluster analysis to address PM	✓	July	✓	✓	✓	✓	✓	✓				
Other, Potential Funding Considerations	Develop SOW	TC Approv.	PC Approv.	Develop RFP	TC Approv.	RFP Release	Contractor Selection	PC Approv.	Study Ag. Approv.	Contract Number	Contract Start	Contract End
Co-funding of Central-Southern California Biogenic Emissions Validation Project	ON HOLD (\$ TBD)											