

November 1, 2012

TO: Members of the MAG Transportation Review Committee

FROM: Oddvar Tveit, Tempe, Chair of the MAG Air Quality Technical Advisory Committee

SUBJECT: MAG AIR QUALITY TECHNICAL ADVISORY COMMITTEE RECOMMENDATION
ON A RANKING OF PROPOSED PM-10 PAVING UNPAVED ROAD PROJECTS FOR
FY 2015, 2016, AND 2017 CMAQ FUNDING

On October 25, 2012, the MAG Air Quality Technical Advisory Committee (AQTAC) made a recommendation on a ranking of Proposed PM-10 Paving Unpaved Road Projects for FY 2015, 2016, and 2017 CMAQ funding to the MAG Transportation Review Committee (see attachment). The AQTAC considered the proposed projects listed in order of cost effectiveness and listed in order of PM-10 emission reductions. It is anticipated that the MAG Transportation Review Committee may make a recommendation on these projects for inclusion in the draft FY 2014-2018 MAG Transportation Improvement Program (TIP).

In total, twelve unpaved road and alley projects requesting approximately \$14.1 million in CMAQ funds were evaluated. Project applications were due by September 19, 2012. For FY 2015, 2016, and 2017, the estimated CMAQ funding available for the programming of PM-10 Paving Unpaved Road Projects is \$5,455,468, \$5,746,340, and \$6,052,521, respectively. The estimated CMAQ amount is subject to change based on final funding levels from Moving Ahead for Progress in the 21st Century Act (MAP-21).

The paving of dirt road and alley projects supports committed measure "Reduce Particulate Emissions from Unpaved Roads and Alleys" in the Revised MAG 1999 Serious Area Particulate Plan for PM-10. The MAG 2012 Five Percent Plan for PM-10 includes the paving of unpaved roads. Also, the Regional Transportation Plan assumes the annual paving of at least ten miles of unpaved roads to reduce fugitive dust.

On October 17, 2012, the MAG Street Committee conducted a review of the PM-10 Paving Unpaved Road project applications. MAG staff conducted an evaluation of the proposed projects, including any revised information from the Street Committee, for estimated emission reductions and corresponding cost-effectiveness for FY 2015, 2016, and 2017 CMAQ funding.

If you have any questions, please contact Dean Giles, MAG, at (602) 254-6300.

Attachment

OCTOBER 25, 2012 MAG AIR QUALITY TECHNICAL ADVISORY COMMITTEE RECOMMENDATION

Ranking of Proposed PM-10 Paving Unpaved Road Projects For FY 2015 CMAQ Funding

\$5,455,468* available in FY 2015

Agency	Location	Work Type	FY	Length (miles)	Emission Reduction Weighted TOG(kg/day)	Emission Reduction Weighted NOx(kg/day)	Emission Reduction Weighted PM10(kg/day)	Emission Reduction Weighted Total(kg/day)	Cost Effectiveness (\$/met.ton)	CMAQ Funds Requested
Maricopa County#6	Rockaway Hills Dr	Pave Dirt Roads	2015	0.7	0.00	0.00	114.06	114.06	\$381	\$235,750
Buckeye	Watson (~650' north of Van Buren alignment) to McDowell/Watson	Pave Dirt Roads	2015	0.88	0.00	0.00	236.67	236.67	\$750	\$964,532
Phoenix#1	Various locations in twelve quarter sections	Pave Dirt Alleys	2015	29.3	0.00	0.00	194.07	194.07	\$1,170	\$1,232,662
Maricopa County#4	3rd Avenue - Honda Bow Road to Circle Mountain Road, 3rd St - Linda Ln to Honda Bow Rd, 7th Ave - Honda Bow Rd to Leann Rd, 7th St - Linda Ln to Honda Bow Rd, 11th Ave - Honda Bow Rd to 13th Ave, Cavalry Rd - 7th Ave to 3rd Ave, Central Ave - BOM to Honda Bow Rd	Pave Dirt Roads	2015	4.37	0.00	0.00	308.75	308.75	\$1,237	\$2,074,600
Maricopa County#2	McLellan Rd from 103rd St to Signal Butte Rd, 104th St to McLellan Rd	Pave Dirt Roads	2015	0.825	0.00	0.00	61.92	61.92	\$1,346	\$452,640
Subtotal										\$4,960,184
Amount Available										\$5,455,468
Balance										\$495,284

OCTOBER 25, 2012 MAG AIR QUALITY TECHNICAL ADVISORY COMMITTEE RECOMMENDATION

Ranking of Proposed PM-10 Paving Unpaved Road Projects For FY 2016 CMAQ Funding

\$5,746,340* available in FY 2016

Agency	Location	Work Type	FY	Length (miles)	Emission Reduction Weighted TOG(kg/day)	Emission Reduction Weighted NOx(kg/day)	Emission Reduction Weighted PM10(kg/day)	Emission Reduction Weighted Total(kg/day)	Cost Effectiveness (\$/met.ton)	CMAQ Funds Requested
Chandler	Area between Dobson Rd, Alma School Rd, Elliot Rd and Warner Rd.	Pave Dirt Alleys	2016	15.3	0.00	0.00	118.38	118.38	\$887	\$570,515
Phoenix#2	Various locations in twelve quarter sections	Pave Dirt Alleys	2016	29.2	0.00	0.00	225.93	225.93	\$1,022	\$1,253,410
Surprise	Jomax Rd from 147th Ave to East City (133rd Avd)	Pave Dirt Roads	2016	1.5	0.00	0.00	77.06	77.06	\$1,690	\$707,250
Maricopa County#5	31st Ave - Olney Ave to McNeil St, 44th Ave - EOM to Carver Rd, 45th Ave - Estrella Dr to EOM, Olney Ave - BOR to 31st Ave	Pave Dirt Roads	2016	0.735	0.00	0.00	50.08	50.08	\$2,913	\$792,120
Maricopa County#1	10th St - Dove Valley Rd to Paint Your Wagon Tr, Dove Valley Rd - 12th St to 14th St	Pave Dirt Roads	2016	0.72	0.00	0.00	47.93	47.93	\$4,275	\$1,112,740
Subtotal										\$4,436,035
Amount Available										\$5,746,340
Balance										\$1,310,305

OCTOBER 25, 2012 MAG AIR QUALITY TECHNICAL ADVISORY COMMITTEE RECOMMENDATION

Ranking of Proposed PM-10 Paving Unpaved Road Projects For FY 2017 CMAQ Funding

\$6,052,521* available in FY 2017

Agency	Location	Work Type	FY	Length (miles)	Emission Reduction Weighted TOG(kg/day)	Emission Reduction Weighted NOx(kg/day)	Emission Reduction Weighted PM10(kg/day)	Emission Reduction Weighted Total(kg/day)	Cost Effectiveness (\$/met.ton)	CMAQ Funds Requested
Maricopa County#3	Hatfield Rd to 107th Ave	Pave Dirt Roads	2017	1.25	0.00	0.00	1,024.54	1,024.54	\$619	\$3,441,950
Phoenix#3	Various locations in nine quarter sections	Pave Dirt Alleys	2017	29.1	0.00	0.00	145.85	145.85	\$1,629	\$1,289,909
									Subtotal	\$4,731,859
									Amount Available	\$6,052,521
									Balance	\$1,320,662

* The estimated CMAQ amount is subject to change based on final funding levels from MAP-21.