



Street Preventative Maintenance Program (SPMP) Update & Year 3 (2016) Work Plan



Council Presentation January 26, 2016

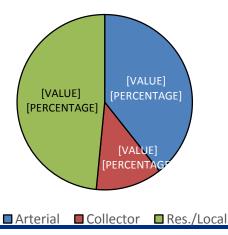


SPMP Year 1 (2014) Summary

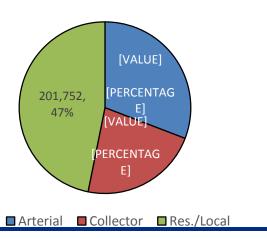


> 142 Streets treated

- Overlays (Contracted)
 - 289,903 Total Square Yards
 - o Total length 91,566 ft. / 17.34 miles
 - O Notice to Proceed (NTP) Feb. 2014
 - Completed February 2015



- Seal Coats (Contracted)
 - 430,775 Total Square Yards
 - o Total length 135,484 ft. / 25.7 miles
 - o NTP Feb. 2014
 - Completed October 2015

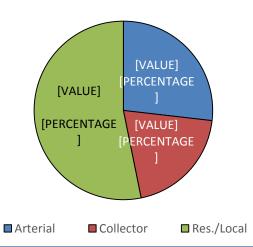




City Seal Coats - Year 1 (2014)



- > 64 Streets maintained by City Staff
- Seal Coats
 - 350,028 Total Square Yards
 - o Total length 112,633 ft. / 21.3 miles
 - NTP May 2014
 - Completed September 2014



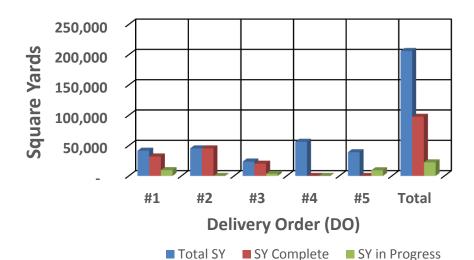


SPMP Year 2 (2015) Update OVERLAYS



58 Streets maintained

- 206,109 Total Square Yards (SY)
- o Total length 63,731 ft / 12 miles
- NTP March 2015



OVERLAY								
DO	Total SY	SY Complete	SY in Progress	% Complete				
#1	41,604	32,021	9,584	77%				
#2	45,338	45,338	0	100%				
#3	23,722	20,160	3,562	85%				
#4	56,320	-	0	0%				
#5	39,124	-	9,260	0%				
Total	206,109	97,518	22,406	47%				

As of January 14, 2016

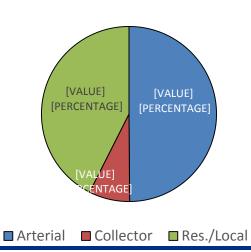


City Seal Coats - Year 2 (2015)



> 60 Streets maintained by City Staff

- Seal Coats
 - o 274,083 Total Square Yards
 - Total length 81,440 ft. / 15.4 miles
 - NTP July 2015
 - o Completed October 2015





SPMP Year 2 (2015) Update – SEAL COATS



> 107 Streets maintained

- 451,092 Total Square Yards (SY)
- Total length 131,570 ft / 25 miles
- NTP June 2015

SEAL COATS								
DO	Total SY	SY Complete	SY in Progress	% Complete				
#1	52,772	3,790	0	7%				
#2	98,543	-	0	0%				
#3	85,446	-	0	0%				
#4	105,054	-	0	0%				
#5	109,277	-	0	0%				
Total	451,092	3,790	-	1%				

PROBLEMS:

- Weather Issues
 - ✓ Sensitivity to rain & temperatures
 - ✓ Recovery schedule priority
 - ✓ Rework
- Contractor Resource Issues
 - ✓ Insufficient crews
 - ✓ Deficient execution rate
- Rework Delays
 - ✓ Work rejection



Plan for Program Improvement



- Weather Issues
 - Match program execution to seasonal opportunity
 - ✓ Align Work Plan with fiscal year (Oct Sept) instead of Jan Dec
 - ✓ Allows for work to start in October instead of April
- Contractor Resource Issues
 - Rebid Sealcoat Work Plan Year 2 (2015) & 3 (2016)
 - ✓ Conducted two meetings with local contracting community
 - ✓ Smaller Construction Packages
 - ✓ Multiple contracts (i.e., 3 \$1M Seal Coat)
 - Evaluate penalties





SPMP Year 3 (2016) Work Plan



SPMP Process Improvement



- Automated PCI Data Collection
 - Transmap completed Data Collection
 - PCI analysis underway
 - ✓ First reports in January
 - ✓ Complete in Summer 2016
 - New data incorporated into Year 3 (2016) Work Plan
 - ✓ Prior to issuing first Delivery Order (= "Project Unit")
- Increased Geotech Testing
 - Avoids excessive repairs
- Increased Inspection
 - Additional Inspector added
- Revised Delivery Order Formatting
 - Incorporates individual street tracking



SPMP Street Selection Criteria (Presented 11/19/2013)

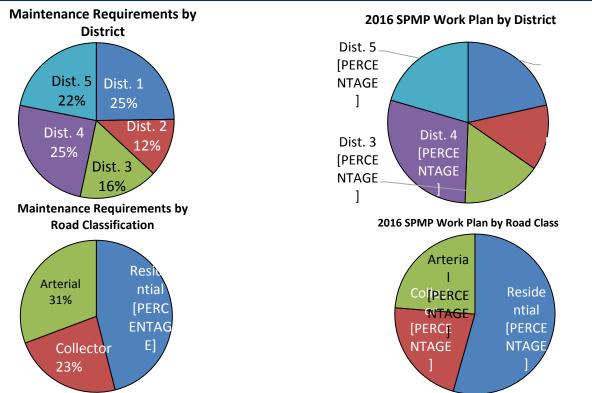


- 1. Work based on **Pavement Condition Index** (PCI) scores:
 - 1. Approximately 56 for Overlays and 71 for Seal Coat
 - 2. Work the ones closest to 56 and 71 first
- **2. Distribute by District** based on Capital Assets needing Maintenance (% of Network)
- **3. Distribute by Street Classification** (Residential, Collectors & Arterials) based on Capital Assets (% of Network)
- **4. Coordinate work** for Residential by Neighborhood and initial subdivision construction dates
- 5. Distribute work by percentage of Overlay and Seal Coats
- **6. Prioritize by traffic loads** causing potential premature failure of roadway



SPMP Requirements & Year 3 (2016) Work Plan Comparison



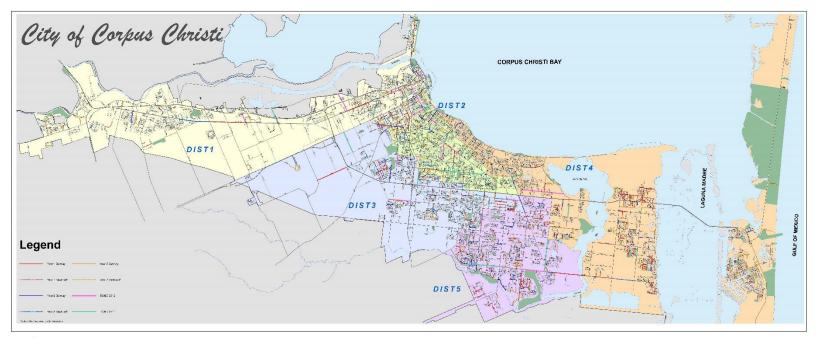




SPMP Year 3 (2016) Work Plan



SPMP Work Plan (Year 1, Year 2, Year 3) and BOND Work 2012 - 2014









3-Year Summary



		Year 1 (2014)	Year 2 (2015)	Year 3 (2016)	3-Year Total
		(=== :/	(2020)	(2020)	700
Overlay	#Streets	58	58	86	202
(Contractor)	Square Yards	289,903	206,109	329,486	825,498
	Miles	17.34	12	18	47.34
Seal	# Streets	84	107	111	302
(Contractor)	Square Yards	430,775	451,092	370,062	1,251,929
	Miles	25.7	25	21.4	72.1
Seal	# Streets	64	60	90	214
(City)	Square Yards	350,028	274,083	321,428	945,539
	Miles	21.3	15.4	18.4	55.1
	# Streets	206	225	287	718
Total	Square Yards	1,070,706	931,284	1,020,976	3,022,966
	Miles	64.34	52.4	57.8	174.54



Next Steps



- > Approve Year 3 Work Plan (Resolution)
- > Approve Contract for Delivery Order (DO) development
- Verify PCI w/ Transmap data
- > Rebid Seal Coat
- Rebid Overlay at end of fiscal year



Questions?





Extending the life of our streets.





SPMP Overlay







Lake Apache - Before

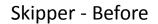
Lake Apache - After



SPMP Overlay









Skipper - After



SPMP Seal Coat







Corinth - Before

Corinth - After



SPMP Seal Coat







Aspenwood - Before

Aspenwood - After



SPMP Update



