



Street Preventative Maintenance Program (SPMP) Update & 2017 Work Plan



Council Presentation
January 17, 2017



Street Improvement Plan (SIP) Street Preventative Maintenance Program (SPMP)





Citywide Street Maintenance



PREVENTATIVE MAINTENANCE		
SPMP		Street Operations
Overlays	Seal Coats	Seal Coats
Streets w/ PCI ~ 56	Streets w/ PCI ~ 71	Streets w/ PCI ~ 71
75% of Funding	25% of Funding	Operating Budget
ADA Improvements	Minimal Curb & Gutter Imp.	Minimal Curb & Gutter Imp.
Performed Year round	Subject to weather conditions	Subject to weather conditions



2014 (Year 1) SPMP



	Overlays	Seal Coats	Street Operations	Total
Streets Maintained	58	84	64	206
SYs	289,903	430,775	350,028	1,070,706
Linear Miles	17	26	21	64
% Arterial	39%	31%	27%	
% Collector	12%	22%	20%	
% Residential/Local	49%	47%	53%	
Status	Completed Feb. 2015	Completed Oct. 2015	Completed Sep. 2014	



2015 (Year 2) SPMP



	Overlays	Seal Coats*	Street Operations	Total
Streets Maintained	41	73	56	170
SYs	181,709	309,129	290,031	780,869
Linear Miles	11	15	15	41
% Arterial	19%	28%	47%	
% Collector	28%	26%	13%	
% Residential/Local	53%	46%	40%	
Status	Completed Jul. 2016	In Progress	Completed Oct. 2015	

*Executed concurrently with 2016 Work Plan. Construction by Bay started 6/1/15. Construction by JCW started 8/1/16.



2016 (Year 3) SPMP Summary



	Overlays	Seal Coats*	Street Operations	Total
Streets Maintained	93	108	80	281
SYs	361,753	356,646	313,739	1,032,138
Linear Miles	20	21	16	57
% Arterial	24%	7%	10%	
% Collector	22%	30%	29%	
% Residential/Local	54%	63%	61%	
Status	40% Complete/In Progress	In Progress	Completed Nov. 2016	

*Executed concurrently with 2015 Work Plan



3-Year Summary



		2014 (Year 1)	2015 (Year 2)	2016 (Year 3)	3-Year Total
OVERLAY (Contractor)	# Streets	58	41	93	192
	Square Yards	289,903	181,709	361,753	833,365
	Miles	17	11	20	48
SEAL (Contractor)	# Streets	84	73	108	265
	Square Yards	430,775	309,129	356,646	1,096,550
	Miles	26	15	21	62
SEAL (City)	# Streets	64	56	80	200
	Square Yards	350,028	290,031	313,739	953,798
	Miles	21	15	16	52
Total	# Streets	206	170	281	657
	Square Yards	1,070,706	780,869	1,032,138	2,883,713
	Miles	64	41	57	162



2017 (Year 4) SPMP Work Plan



SPMP Street Selection Criteria

(Presented 11/19/2013)



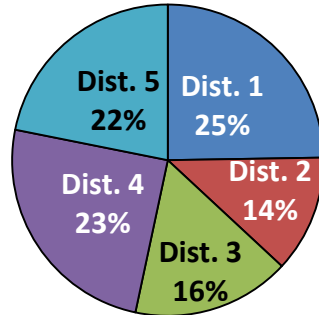
1. Work based on **Pavement Condition Index (PCI)** scores:
 1. Approximately 56 for Overlays and 71 for Seal Coat
 2. Work the ones closest to 56 and 71 first
2. **Distribute by District** based on Capital Assets needing Maintenance (% of Network)
3. **Distribute by Street Classification** (Residential, 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



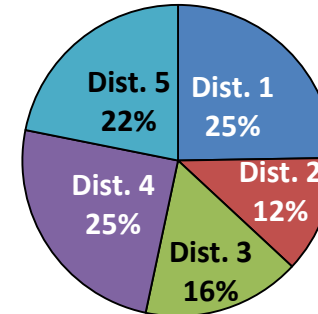
SPMP Requirements & 2017 (Year 4) Work Plan Comparison



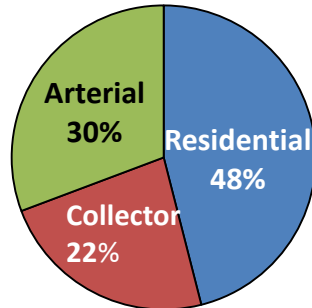
Maintenance Requirements by District



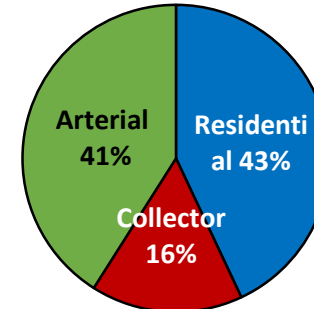
2017 SPMP Work Plan by District



Maintenance Requirements by Road Classification



2017 SPMP Work Plan by Road Class



Target percentages based on Square Yards of Pavement in each District/Category relative to the total City System.



2017 (Year 4) SPMP Work Plan



	Overlays	Seal Coats	Street Operations	Total
Streets Maintained	41	25	71	137
SYs	210,196	237,635	271,187	719,018
Linear Miles	12	10	17	39
% Arterial	34	47	0	
% Collector	10	22	38	
% Residential/Local	56	31	62	



4-Year Summary



		2014 (Year 1)	2015 (Year 2)	2016 (Year 3)	2017 (Year 4)	4-Year Total
OVERLAY (Contractor)	# Streets	58	41	93	41	233
	Square Yards	289,903	181,709	361,753	210,196	1,043,561
	Miles	17	11	20	12	60
SEAL (Contractor)	# Streets	84	73	108	25	290
	Square Yards	430,775	309,129	356,646	237,635	1,334,185
	Miles	26	15	21	10	72
SEAL (City)	# Streets	64	56	80	71	271
	Square Yards	350,028	290,031	313,739	271,187	1,224,985
	Miles	21	15	16	17	69
Total	# Streets	206	170	281	137	794
	Square Yards	1,070,706	780,869	1,032,138	719,018	3,602,731
	Miles	64	41	57	39	201



Next Steps



- Approve 2017 Work Plan (Resolution)
- Approve Overlay Construction Contract(s)



SPMP Program Status



- Website for Program status reports

<http://www.cctexas.com/government/street-operations/preventative-maintenance-smp/index>

City of Corpus Christi

SEARCH

STREET OPERATIONS

HOME / GOVERNMENT SERVICES / STREET OPERATIONS / PREVENTATIVE MAINTENANCE - SPMP

Street Operations

- Street Maintenance Planning
- Preventative Maintenance - SPMP
- What You Can Do
- SPMP FAQs
- Fee Corrections & Appeals
- Street Maintenance Fee Estimator
- Street Maintenance Fee FAQs
- Street Maintenance Questions Form
- Street Maintenance and Repairs
- Traffic Engineering

Street Preventative Maintenance Program (SPMP) - Extending the Life of Our Streets

Get info on
What You Can Do to Maintain the Condition of Your Street

IT COSTS LESS TO MAINTAIN ROADS IN GOOD CONDITION THAN IT DOES TO RECONSTRUCT ROADS IN BAD CONDITION.

ANNUAL WORK PLAN
Take a look at the streets on the City Council approved annual work plan.

Year 3 (2016)
SPMP 2016 Work Plan
SPMP 2016 Map
SPMP Year 3 Street Status

Year 2 (2015)
SPMP 2015 Work Plan
SPMP 2015 Map
SPMP Year 2 Street Status

Year 1 (2014)
SPMP 2014 Work Plan
SPMP 2014 Map Update
SPMP Year 1 Street Status

OPEN ACCESS GIS MAP

View **SPMP Year 1 & Year 2 and Bonds** on the City's open access GIS map.

1. Click on "Accept"
2. Click on the "+" next to Public Information on the left to expand the options available for viewing.
3. Click on the check off box for each of the layers you want to see (Bond Work, Year 2 SPMP, Year 1 SPMP as of 10/06/14).

YOUR STREET SYSTEM
The City of Corpus Christi's Street Network consists of Arterial Streets (such as Staples and Everhart), Collector Streets (such as Aquarius and Acushnet) and Residential Streets which are our neighborhood streets. The total system is approximately 1,234 miles and consists of:

- Arterial Streets - 172 miles
- Collector Streets - 210 miles
- Residential/Alleys - 852 miles

WHAT ARE THE BENEFITS OF STREET MAINTENANCE?
* Preserves streets in good



Questions?



Extending the life of our streets.



SPMP Overlay



Lake Apache - Before



Lake Apache - After



SPMP Overlay



Skipper - Before



Skipper - After



SPMP Seal Coat



Corinth - Before



Corinth - After



SPMP Seal Coat



Aspenwood - Before



Aspenwood - After