

2024 Long-Term Pavement Priorities Plan





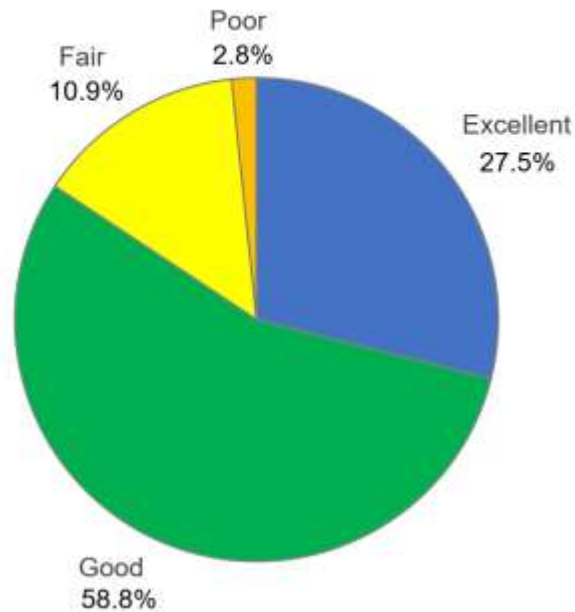
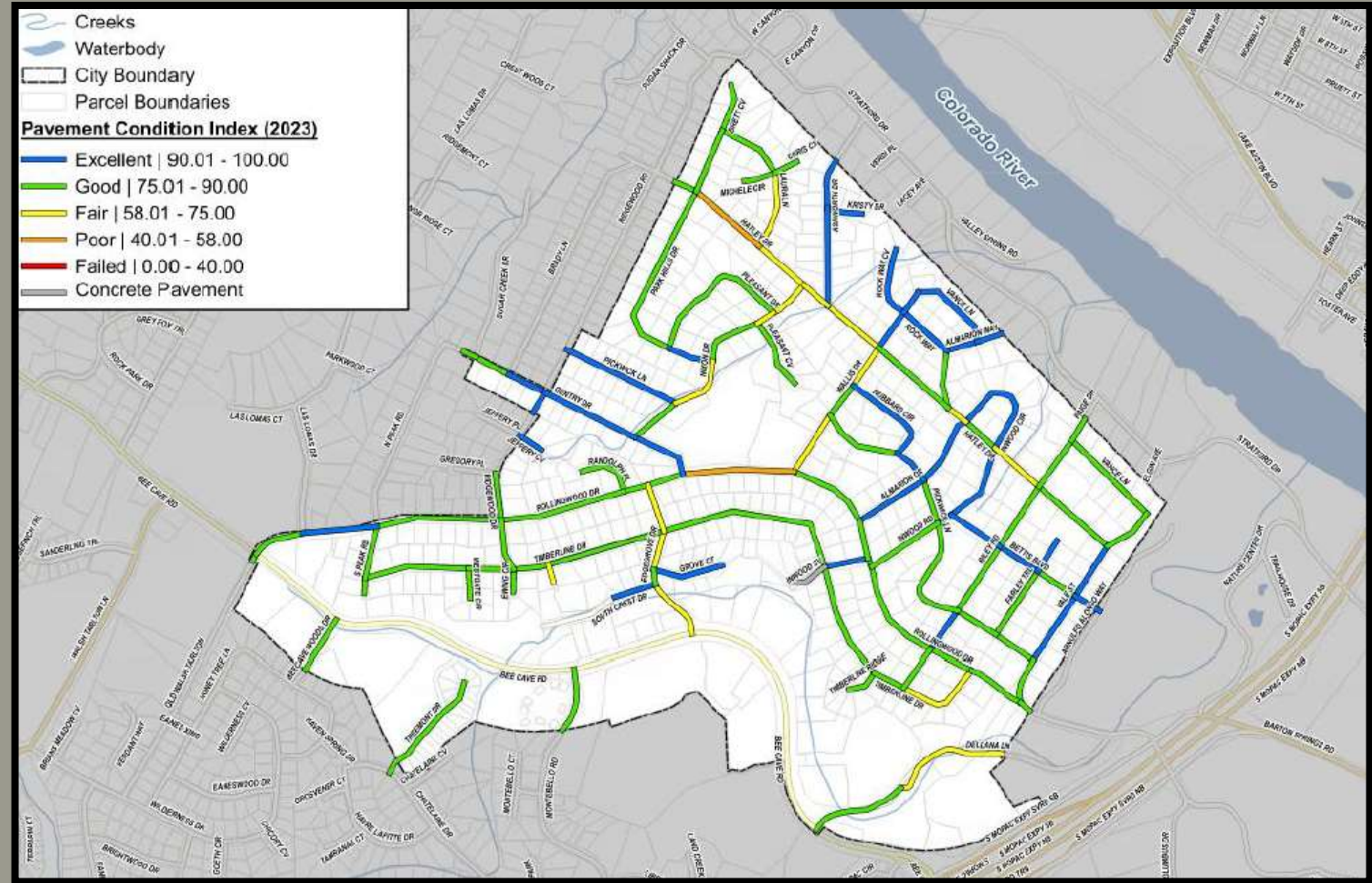
Objective

1. List Rollingwood's Pavement Maintenance Priorities
2. Recommend treatment types, develop cost estimates, map priorities
3. Goal is to maintain condition of Rollingwood's streets (2023 Pavement Management Report).

2024 Long-Term Pavement Priorities Plan

- Incorporated ongoing/planned utility projects.
- Recommended preventative maintenance streets and specific treatment type.
- Recommended mill and overlay of fair condition streets.
- Recommended reclamation for poor condition streets.
- Developed maps, cost estimates, and recommendations when bidding pavement maintenance projects.

Existing Conditions

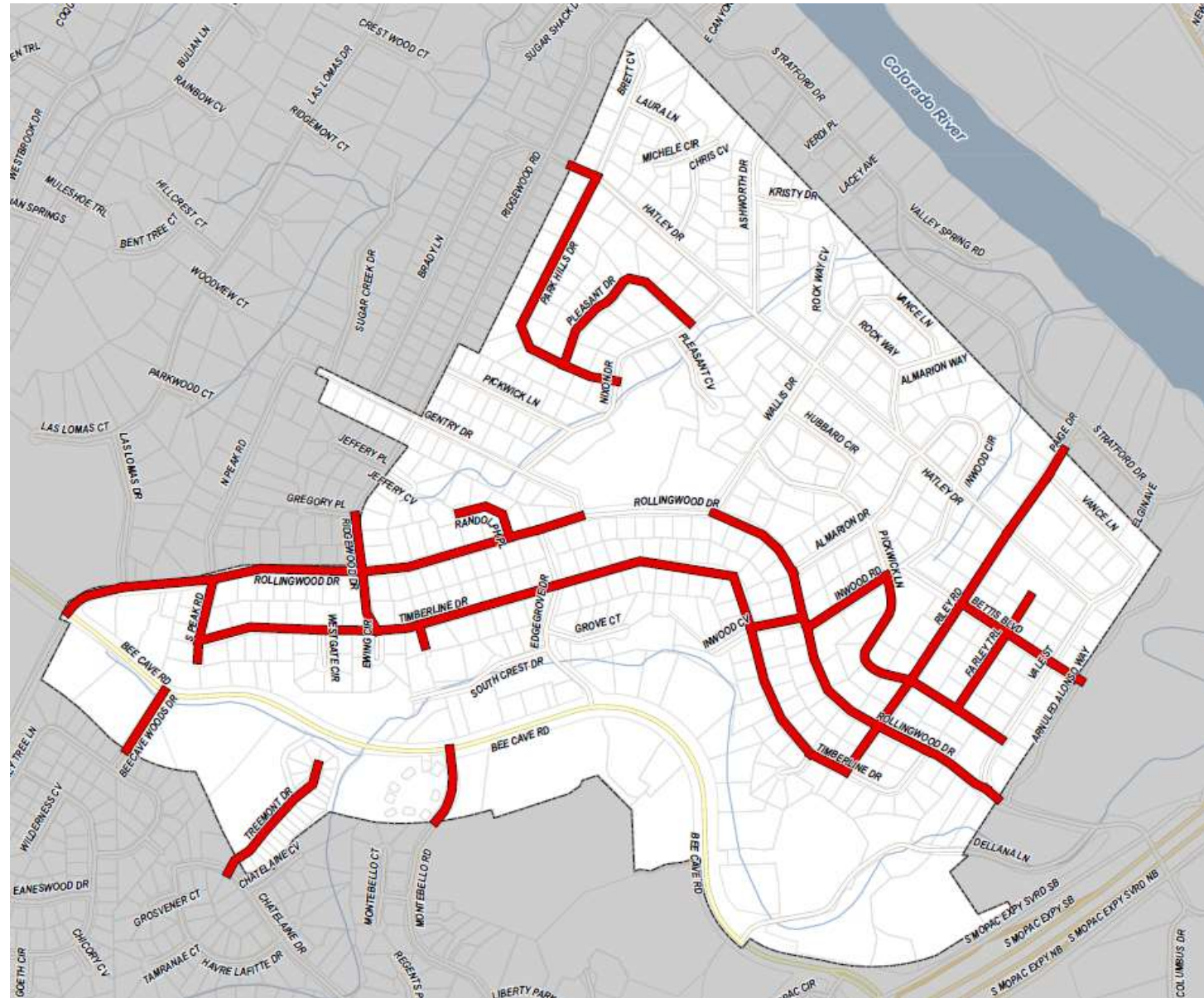


Average PCI in Rollingwood
Good: 84.4

Category	Pavement Condition Index (PCI)	Recommended Strategy
Excellent	90.01 – 100.00	Corrective Maintenance
★ Good	75.01 – 90.00	Preventative Maintenance
Fair	58.01 – 75.00	Mill/Overlay
Poor	40.01 – 58.00	Reclamation
Failed	0.00 – 40.00	Reconstruction

Priority 1 Preventative Maintenance

- Maintain “good” condition streets.
- ~4.5 miles or 43% of Rollingwood’s streets.
- Options include fog seal, chip seal, rejuvenation, thinlay, crack seal, pothole repairs.
- WSB recommends rejuvenation as most cost effective and impactful treatment.
- Rejuvenation improves durability of the pavement by preventing or reversing the oxidation in the pavement; seals out moisture by restoring the aggregate and asphalt bond.
- Life: 5-7 years



Rejuvenation Details

Rejuvenators like Reclamite improve the durability of asphalt pavement by preventing or reversing the oxidation that causes asphalt binder to dry out and crack. This treatment also seals pavements to protect against moisture.

Reclamite is used throughout Central Texas: Travis County, Cedar Park, Leander. Procurement is based on a performance-based specification.

Traffic allowed on road within 2 hours of application.

Roughly \$1.30-\$1.50/SY and includes the following:

- Test locations to evaluate applicability
- Door hanger notifications to affected properties
- Pre-street sweeping
- Traffic control to shut down ½ of the street
- Emulsion application*

- Light sanding
- Removal of traffic control
- By end of day or next day: Traffic control and treatment of remaining ½ of the street
- Next-day street sweeping

**A tint is added to the emulsion for application purposes. Tint will disappear within 10-20 minutes of application. There is no change to the roadway surface color except for the rejuvenated pavement surface change.*

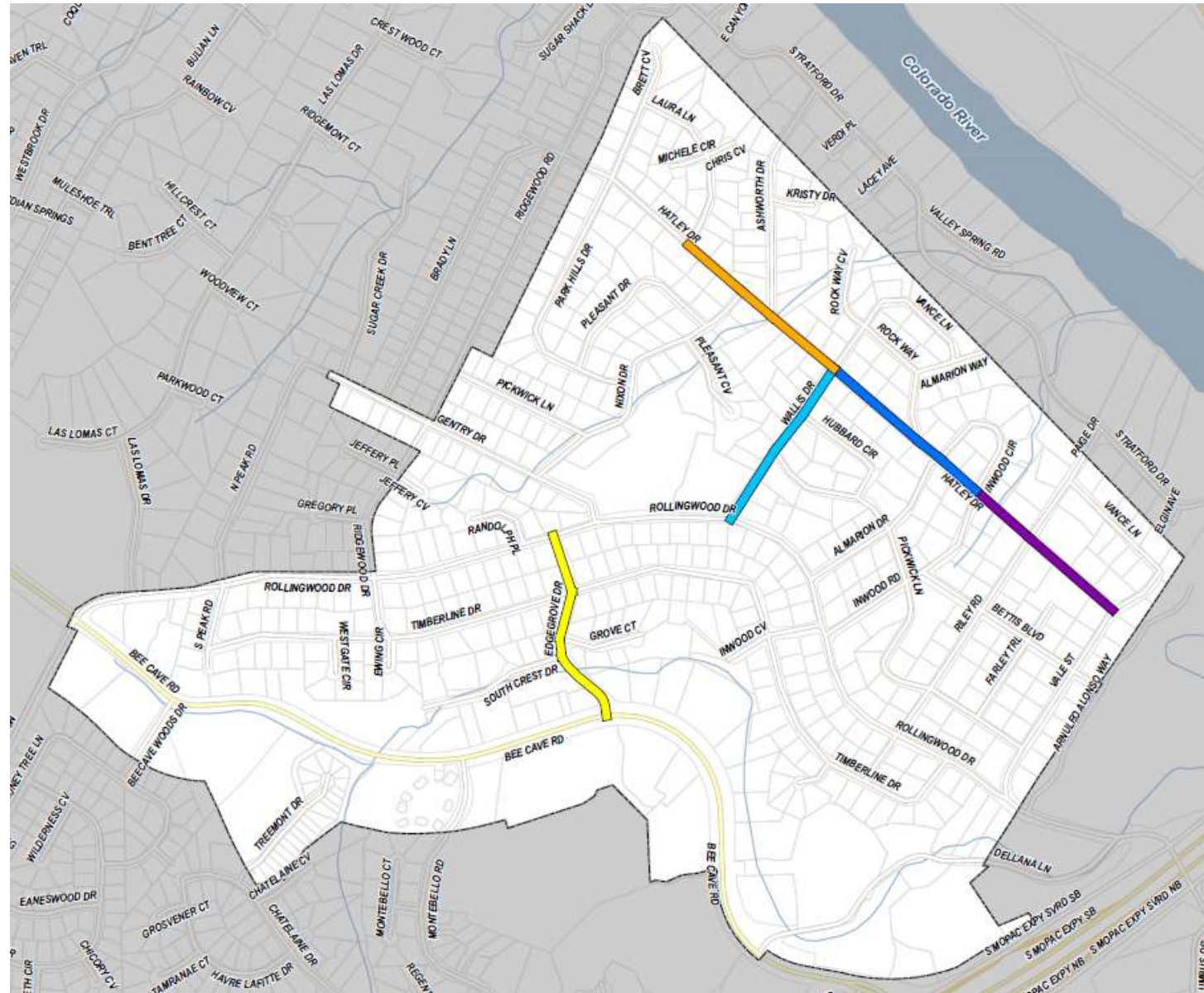


Priority 2 Mill and Overlay

- Maintain “fair” condition streets.
- ~1.1 miles or 10.6% of Rollingwood’s streets.
- WSB recommends 2” mill and overlay to replace riding surface and provide structural improvement to roadways.
- Life: 7-15 years

Mill and Overlay Streets

1. Hatley Drive between Laura Lane & Wallis Drive
2. Edgewood Drive between Rollingwood Drive & Bee Cave Road
3. Wallis Drive between Rollingwood Drive & Hatley Drive
4. Hatley Drive between Wallis Drive & Inwood Drive
5. Hatley Drive between Inwood Drive & Vale Street

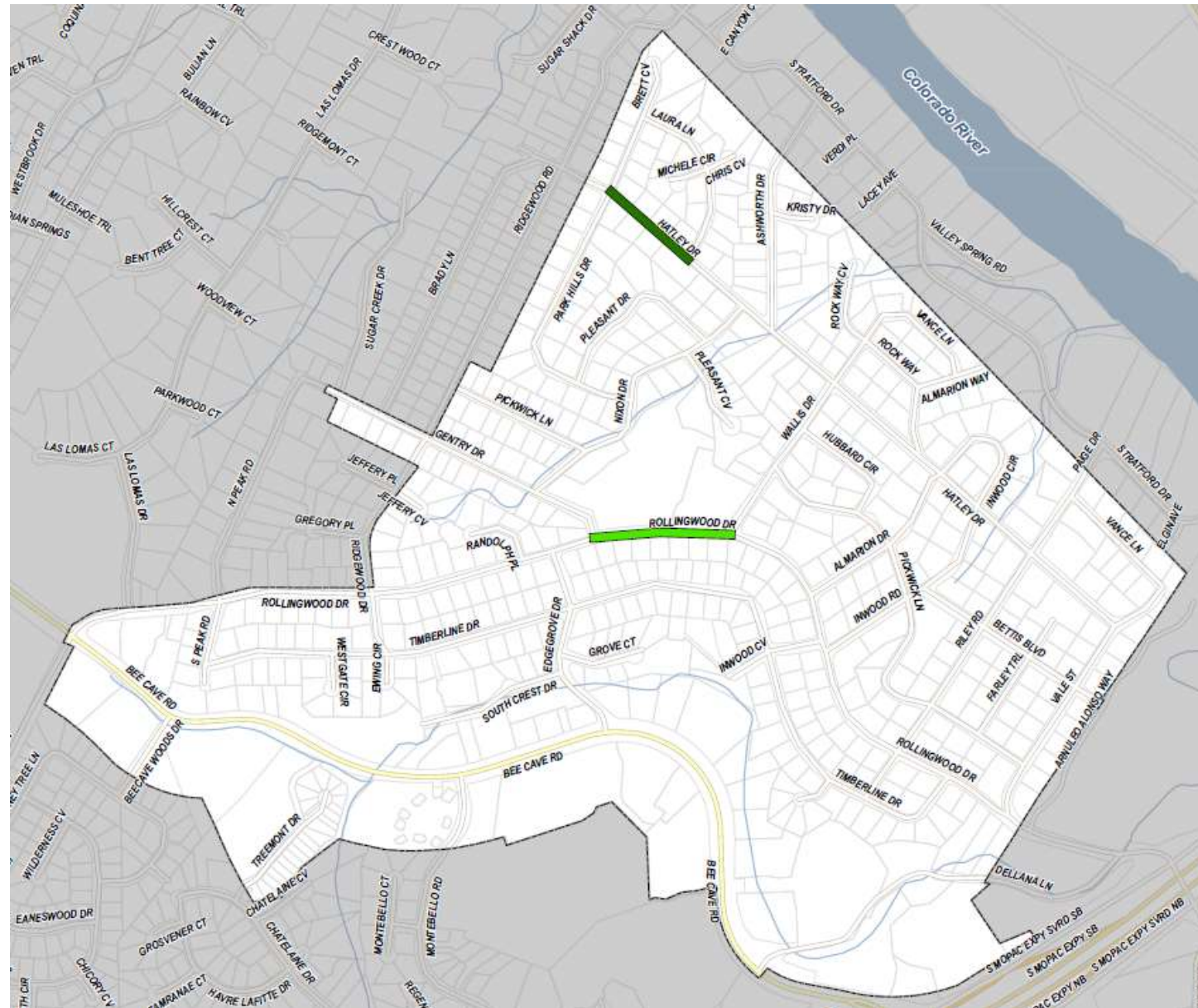













Priority 3 Reclamation

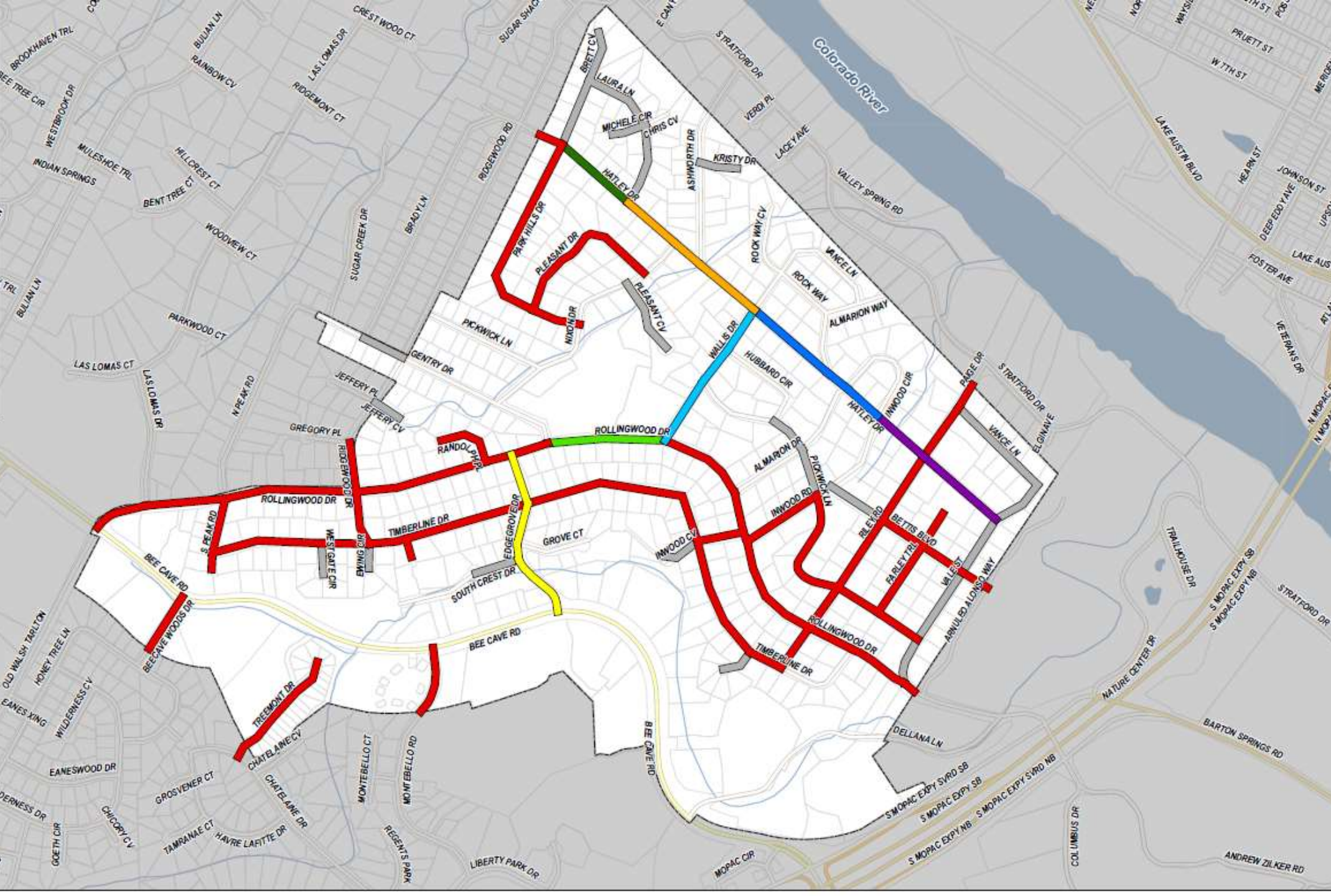
- Maintain “poor” condition streets.
- ~0.3 miles or 2.8% of Rollingwood’s streets.
- WSB recommends a full-depth reclamation to repair the structure of specific streets. This includes pulverizing existing pavement, blending the aggregate together, recompacting, and paving a new driving surface.
- Recommend pavement coring to confirm reclamation type.
- Life: 15-30 years

Reclamation Streets

1. Hatley Drive between Park Hills Drive/Brett Cove & Laura Lane
2. Rollingwood Drive between Gentry Drive & Wallis Drive



-  Waterbody
-  City Boundary
-  Parcel Boundaries
- Pavement Projects**
-  2024 Utility & Resurfacing
-  Preventative Maintenance
-  Mill & Overlay 1
-  Mill & Overlay 2
-  Mill & Overlay 3
-  Mill & Overlay 4
-  Mill & Overlay 5
-  Reclamation 1
-  Reclamation 2



Pavement Priorities Estimated Costs

Priority	Treatment Type	Location	Square Yards	Unit Cost	Budgetary Cost Estimate
1	Rejuvenation	City-wide	75,800	\$1.30	\$110,000
2A	Mill and Overlay Total = \$625,000	Hatley Drive between Laura Lane and Wallis Drive	3,600	\$31.49	\$125,000
2B		Edgewood Drive between Rollingwood Drive and Bee Cave Road	3,800	\$31.49	\$135,000
2C		Wallis Drive between Rollingwood Drive and Hatley Drive	3,400	\$31.49	\$120,000
2D		Hatley Drive between Wallis Drive and Inwood Drive	3,500	\$31.49	\$125,000
2E		Hatley Drive between Inwood Drive and Vale Street	3,400	\$31.49	\$120,000
3A	Full-Depth Reclamation	Hatley Drive between Park Hills Drive/Brett Cove and Laura Lane	1,900	\$55.98	\$120,000
3B		Rollingwood Drive between Gentry Drive and Wallis Drive	3,900	\$55.98	\$250,000
TOTAL			99,300		\$1,105,000



Next Steps and Recommendation

1. Develop and issue bid package for rejuvenation project first.
2. Allocate funding for pavement maintenance to maintain fund balance to execute priority projects.
3. Annually develop bid packages to meet available funding.
4. Continue to evaluate streets year after year for significant changes.



THANK YOU