Shakopee Public Works

Our Mission

Our mission is to deliver high quality services essential to maintaining a safe and sustainable community. We commit to doing this cost effectively, with integrity and transparency.

What Does Public Works Do?

Plowing Snow and Mowing Grass

We Do Much More Than That!

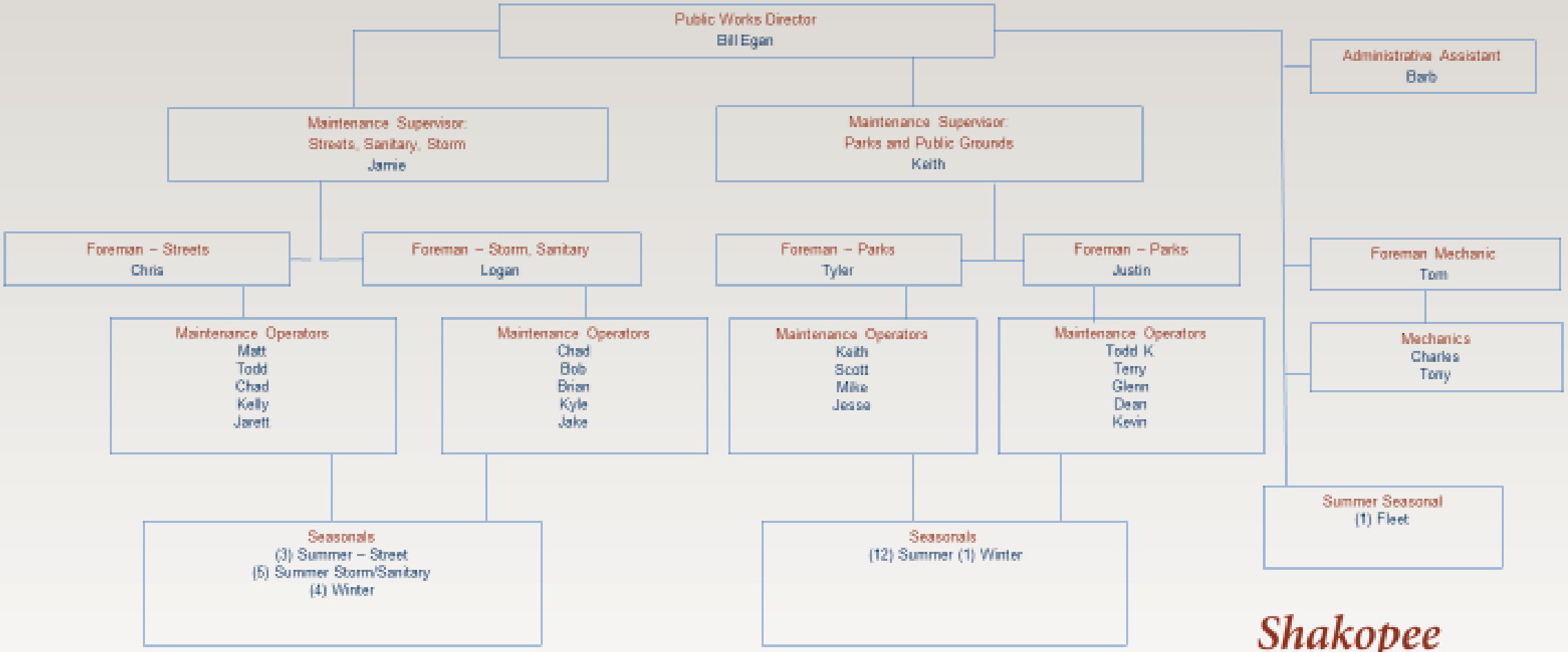
We will give you some examples tonight.

Divisions of Public Works

- STREET MAINTENANCE
- PARK MAINTENANCE
- SANITARY SEWER
- SURFACE WATER DRAINAGE
- FLEET SERVICES
- NATURAL RESOURCES

REV. 6/7/2023

2023 Public Works Organization Chart



Shakopee Minnesota

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Ultimately, all divisions work together under one roof.



Area's you may or may not know we service:

Locates

6,636 Locates completed in 2022



Fuel and wash systems





Annual ADA Audits



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Inspections

- MS4 Storm
- Sidewalks
- Playgrounds
- Sanitary Sewer
- Roads



Sweeping Downtown (weekly)



Elections



Parklets



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SAFETY

2023
PUBLIC WORKS
SAFETY TRAINING

MAINTENANCE OPERATORS / MECHANIC / FOREMEN / SUPERVISOR

					0621	0621	7711	0621	0621	0421	7711	0421	0621	0621	0421	0441	0441	0621
Frequency	Training Topic	Requirement	Due Next	Scheduled	Completed Date MM-DD-YY													
Annual*	A Bloodborne Pathogens Awareness	29 CFR 1910.1030	6/5/2023	SA/online	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22
Annual*	A Employee Right to Know (GHS) Global Hazard System	Includes 29 CFR 1030	6/5/2023	SA/online	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22
Annual*	A Fire Extinguishers	29 CFR 1910.39	6/5/2023	SA/online	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22
Annual*	AWAIR A Workplace Accident Injury Reduction program	MN 182.653, 5206.0100	6/5/2023	SA/online	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22
Annual*	A EAP Emergency Action Plan	MN 182.653, 5206.0100	6/5/2023	SA/online	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22
Annual*	A Workstation Ergonomics/Proper Lifting - For Office desk workers	General Duty Clause back	6/5/2023	SA/online	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22	Jun-22
Annual*	Silica (Respirable Crystalline)	29 CFR 1926.1153/191	5/1/2023	SA/online	Aug-22	Aug-22	Sep-22	Aug-22	Aug-22	Aug-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Aug-22	Jan-22	Aug-22
Annual*	Lockout/tagout	29 CFR 1910.147	8/7/2023	SA/online	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Sep-22	Aug-22	Aug-22	Aug-22	Aug-22
Annual	CONFINED SPACE ENTRY	29 CFR 1910.146 MN	8/7/2023	SA/online	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Aug-22	Sep-22	Aug-22	Aug-22	Aug-22	Aug-22
Annual*	RESPIRATORS VOLUNTARY USE a.k.a. Dust Masks	29 CFR 1910.134	2/6/2023	SA/online	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Mar-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23
Annual*	HEARING CONSERVATION	29 CFR 1910.95	2/6/2023	SA/online	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Mar-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23
Annual*	LADDER SAFETY	29 CFR 1910.25	2/1/2023	SA/online	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Mar-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23
Annual	FALL PROTECTION	29 CFR 1926.500-	2/6/2023	SA/online	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Mar-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23
Annual	PPE (Personal Protective Equipment)	29 CFR 1910.132-.138	2/6/2023	SA/online	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Mar-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23	Feb-23
Annual	LIFTING/STRETCHING/ERGONOMICS/MUSCLE STRAINS-For Public Works	General Duty Clause back	8/7/2023	SA/online	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22	Nov-22
Annual	TRAFFIC Control	Includes 29 CFR	5/1/2023	SA/online	May-22	May-22	May-22	May-22	Jul-22	May-22	May-22	May-22	May-22	May-22	May-22	May-22	May-22	May-22
Annual	HEAT STRESS	Heat, sun protection,	5/1/2023	SA/online	May-22	May-22	May-22	May-22	Mar-22	May-22	May-22	May-22	May-22	May-22	May-22	May-22	May-22	May-22

JOB SAFETY / HAZARD ANALYSIS

Organization: CITY OF SHAKOPEE
Department: PUBLIC WORKS
Analysis By: PARK MAINTENANCE TEAM
Reviewed By: BILL EGAN
Date: 03/31/2022
NEW ☐ REVISED ■

TASK: Bucket Truck

Task Operation Steps	Potential Hazards	Recommended Action or Procedure
Vehicle checkout	Possible fluid hazard	Follow vehicle operation JHA
Drive to site	Traffic accidents	Follow safe driving procedures and driving regulations.
Setup traffic control	Traffic accidents	Turn on amber lights. Wear high-vis clothing, check for traffic and stay out of traffic lane (if possible). Turn wheels to curb. Consult MUTCD field manual.
Setup boom truck	Traffic accidents unsafe ground rollover	Use proper safety harness. Use caution in traffic lanes. Ground personnel have hard hats. Follow proper weight regulations for boom. Two people required to operate.
Using boom	Falling accidents. Tool drops. Power line contact. Wind. Personal injury.	Use proper safety harness. Use caution in traffic lanes. Ground personnel have hard hats. Follow proper weight regulations for boom. Be aware of windy conditions.
If using chainsaw- see specific JHA Exception-Chaps not needed in bucket.		

PERSONAL PROTECTIVE EQUIPMENT: Hard toe footwear, hard helmet, high-vis clothing, eye protection, safety harness, appropriate gloves.

I have reviewed and understand how to protect myself against injury for this job.

Employee Signature _____ Date _____ Supervisor Signature _____ Date _____

LOTO

Reviewed By: _____ Department: _____ Date: _____

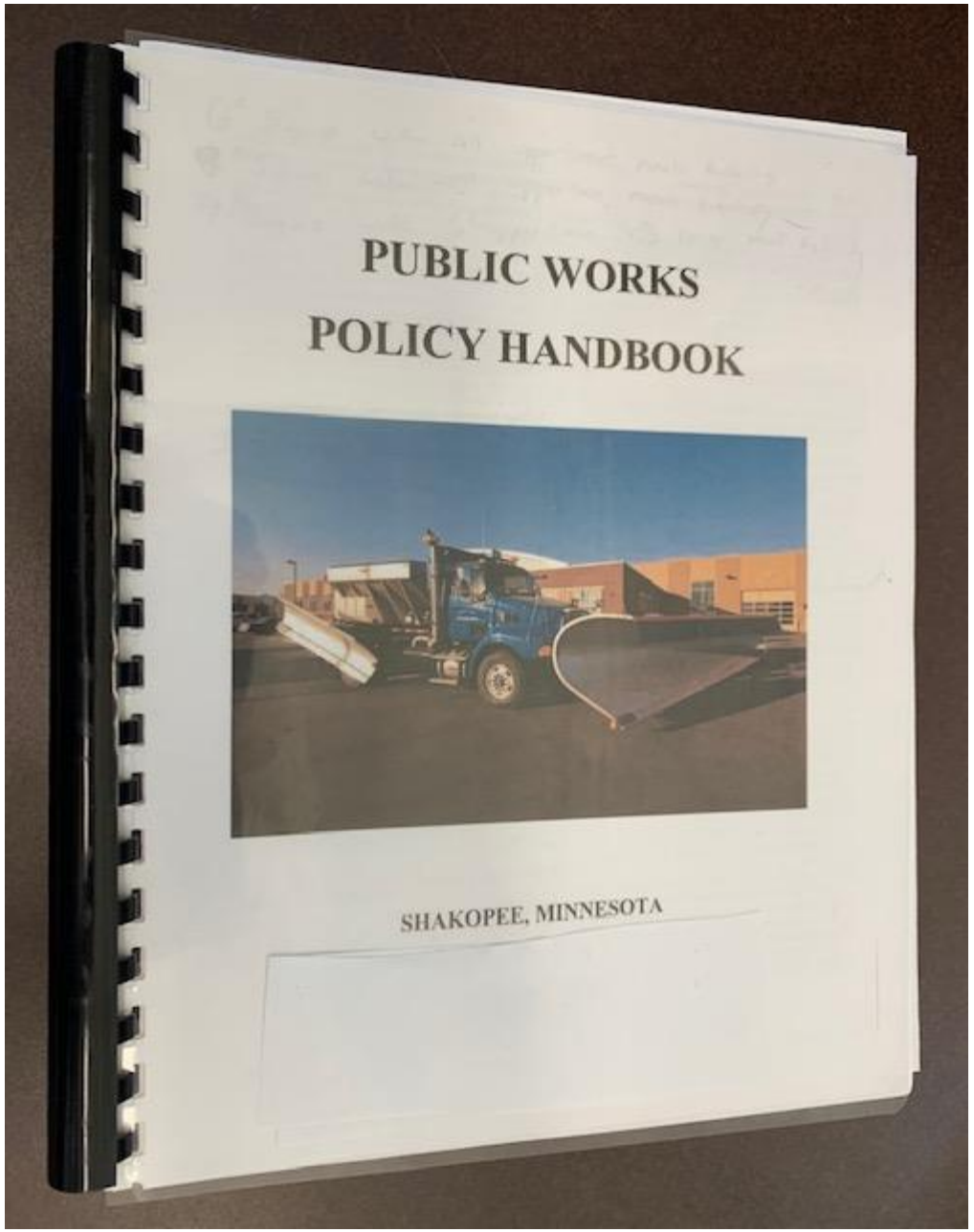
	Maintenance	Reviewed			Reviewed
1	2 Ton Crane (new shop)		24	Iron Worker	
2	2 Ton Crane (Old Shop)		25	Jetter Trucks	
3	5 Ton Crane (new shop)		26	Loaders, Graders, Rollers	
4	12,000 lb. Hoist 1		27	Maintenance Shop Furnaces(2) Change Igniter	
5	12,000 lb. Hoist 2		28	Man Lift	
6	12,000 lb. Hoist 3		29	Mowers/Blowers	
7	30,000 lb. Hoist		30	Oil Filter Crusher	
8	80,000 lb. Hoist		31	Pickups with Lift	
9	Aerial Bucket Truck		32	Rotary Grinder	
10	All Trucks with front plow		33	Sign Truck Crane	
11	Bandsaw		34	Street Sweeper 1393 (mechanical)	
12	Blacktop Truck		35	Street Sweeper 1326 (air)	
13	Building Generators		36	Tire Balancer	
14	Case CX80 Excavator		37	Tire Bead Seater	
15	Change Steer Tire on truck		38	Tire Changer	
16	Changing plow cutting edge		39	Tractor Implements	
17	Fire Cab (truck)		40	Trailer Mounted Generator	
18	Forklift		41	Trucks with Box Hoist	
19	Garbage Truck		42	Turf Hoist/Seal Replacement	
20	HVAC Units		43	Versa Vac - Inductor 1332	
21	Hydraulic Hose Crimper		44	Wheel Balancer	
22	Hydraulic Press		45	Wood Chipper	
23	Inductor Trailer		46	Working Under Dump Bed	

	L16	Reviewed
1	Generator	
2	HVAC	
3	Pump (3)	

	Utilities	Reviewed
1	Blower CF1 Lockout Procedure	
2	Blower Lockout Procedure	
3	HVAC Lockout Procedure	

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POLICIES



SNOW/ICE CONTROL

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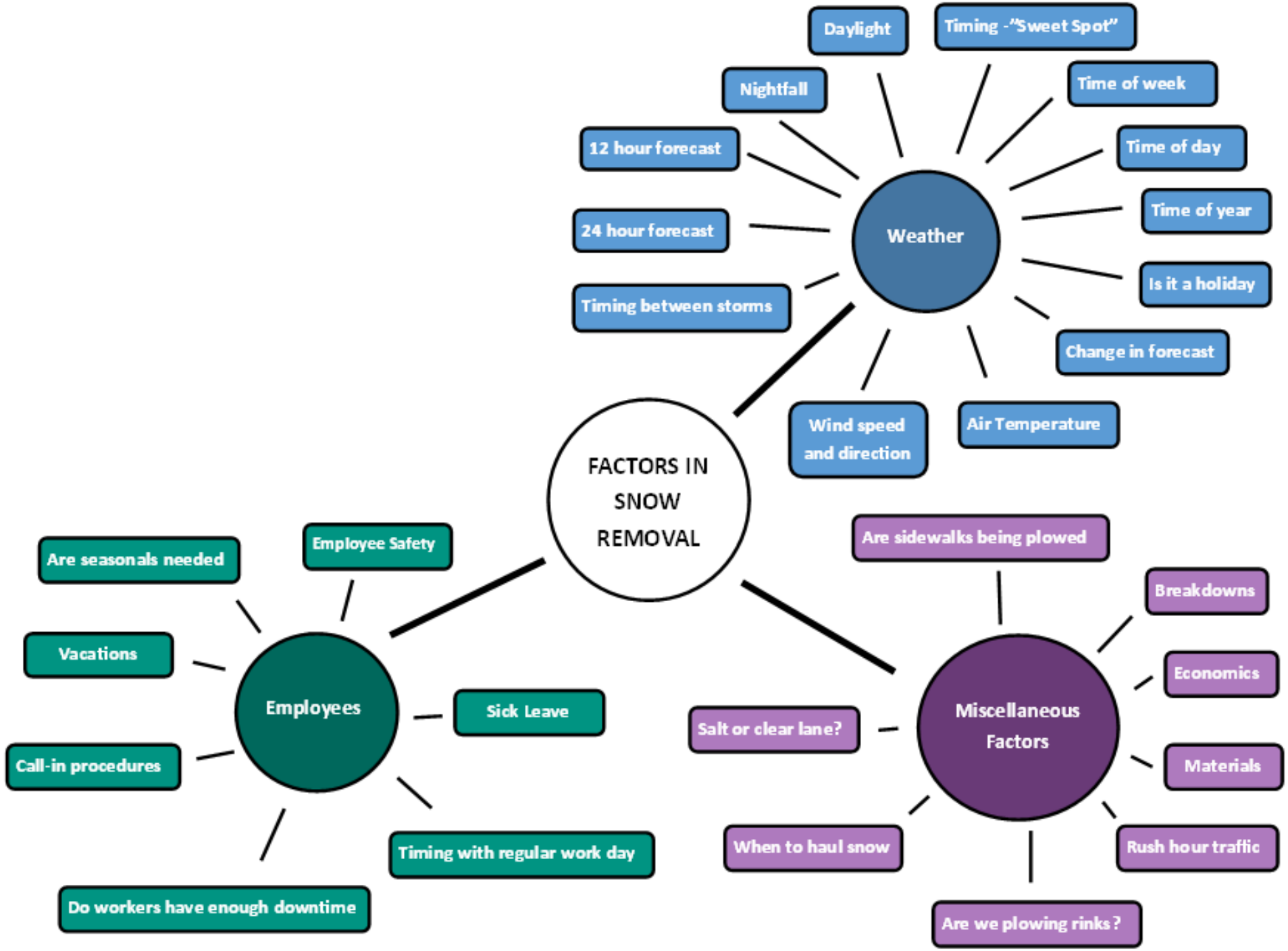
CITY OF SHAKOPEE
SNOW PLOWING / ICE CONTROL POLICY

PURPOSE AND NEED FOR POLICY

The City of Shakopee, being a growing City, needs to annually review and adopt a policy regarding efficient and timely removal of snow and control of ice in order to best provide for safe travel for the greatest number of persons. This policy outlines the responsibility within the Public Works Department in order to accomplish this goal.

POLICY

Each year the Public Works Department prepares a map of the City showing the City maintained street system. The City is divided into routes in which ice control and snow removal will be performed by City employees and private firms under contract to the City. The routes are periodically revised to correspond with budgetary, equipment and personnel resources available. Equipment is assigned to each route based on availability and the effort required for the control of ice and snow. The start of ice and snow control operations for any storm is dependent upon immediate and anticipated conditions. The most critical time periods are weekday morning and evening rush hours. When feasible, the City will attempt to remove ice and snow from City maintained major streets prior to these rush-hour periods. Normally major streets and hazardous areas are done first. Once the priority areas are plowed and opened, the remaining streets in the residential, commercial, and industrial areas will be plowed and ice control materials applied.


FACTORS IN SNOW REMOVAL
Weather
Daylight
Timing -"Sweet Spot"
Nightfall
Time of week
12 hour forecast
Time of day
24 hour forecast
Time of year
Timing between storms
Is it a holiday
Change in forecast
Wind speed and direction
Air Temperature
Employees
Are seasonals needed
Employee Safety
Vacations
Sick Leave
Call-in procedures
Timing with regular work day
Do workers have enough downtime
Miscellaneous Factors
Are sidewalks being plowed
Breakdowns
Economics
Salt or clear lane?
Materials
When to haul snow
Rush hour traffic
Are we plowing rinks?

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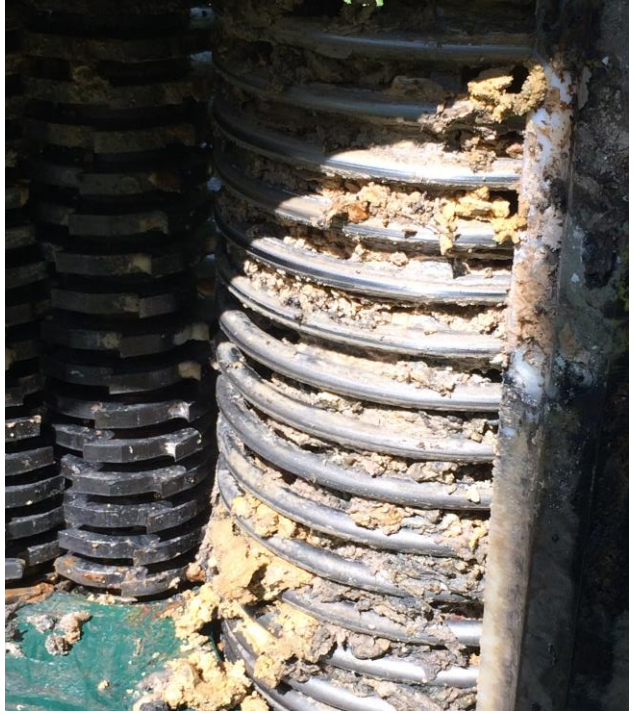




Costs of personnel and materials (i.e. salt) to remove snow city-wide.

	$56.81
Snow Removal	$14.27
Clean-up Day	$0.91
Fleet	$17.86







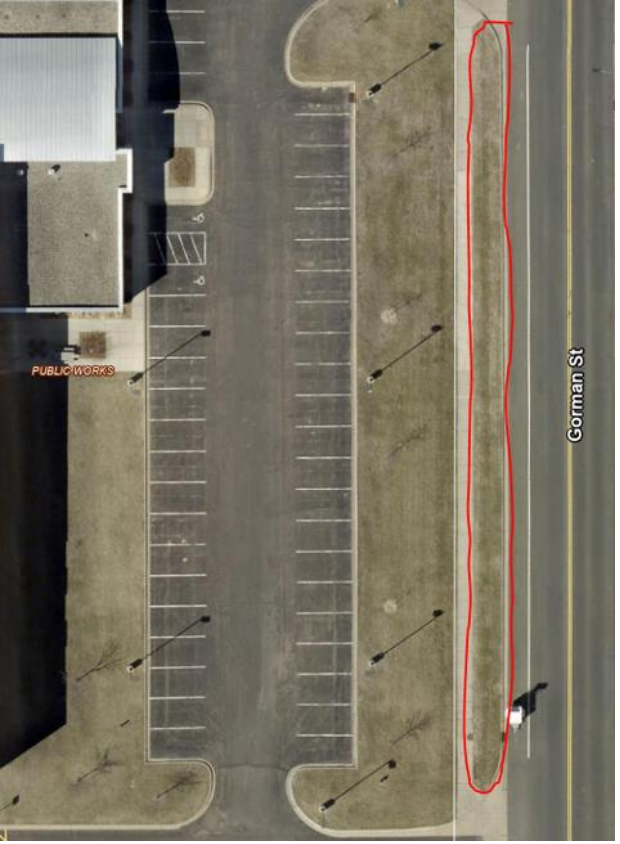


CONCERNS

Grease, rags in sewer



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- Not mowing boulevards
- Contractors and residents placing snow improperly
- Garbage cans and parked cars in the road while plowing











Trees

- Boulevard trees
- EAB
- EAB on private property

Graffiti









Here is what leaning on a shovel looks like for the Public Works Parks Department



- Playground projects (CIP)
- Building Projects
- Safety/ADA inspections
- Pavement preservation
- Sports Associations
- Donations
- Landscaping
- Seasonals
- ADA inspections
- Pickleball-courts



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Huber Park Playground

- Start April 14th
- Playground Completion-July

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Pickets/Metal Signs

Quarry Playground Installation

- Start Date- April 10th





Quarry Park Restroom

- Start late April



Skate Park Grand Opening/Updates











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Tahpah Remodel-Women's







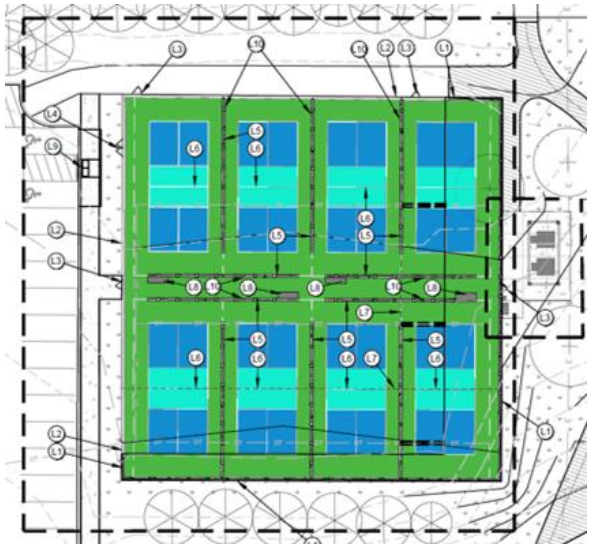


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Pickleball-Westminster

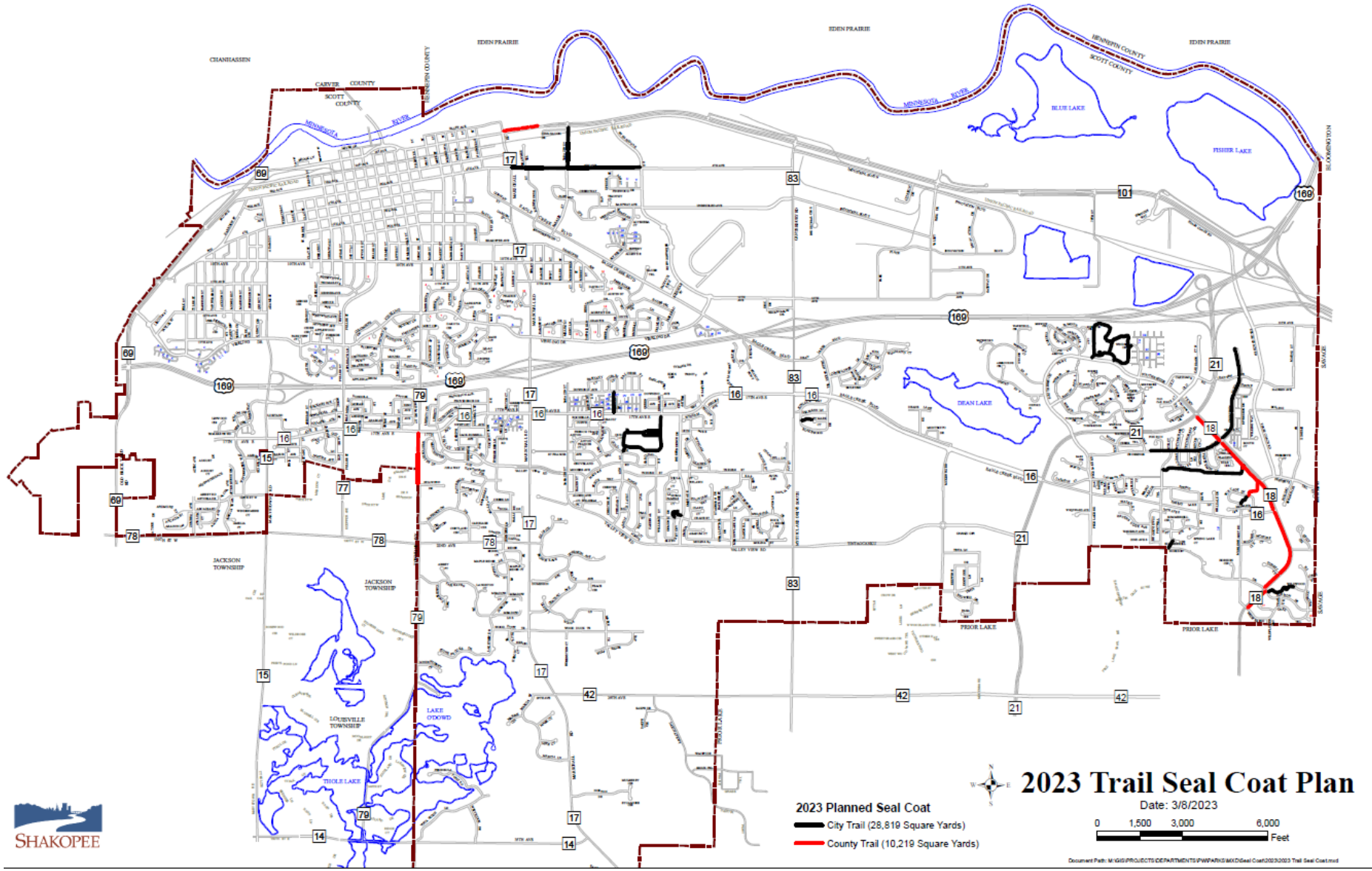
- 3 temporary courts-May





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Trail sealcoat



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Parking Lot Fog Seal/Paint Stripping

king lot on-overall	Surface Type	Budget (Department)	Year Built/ Overlay	CIP RE-CON YEAR	Last Year Se Coate
L-16	Asphalt	Sanitary			
eet - East(Bill's)	Asphalt	0421.6322 Streets	2017		2021
et- West(Pablos)	Asphalt	0421.6322 Streets	1987	2024	2013
1st-High rise	Asphalt	0421.6322 Streets	2003		2012
rk (Fillmore St.)	Asphalt	0421.6322 Streets			
er/2nd ave	Asphalt	0421.6322 Streets	2007	2026	2010
e Drive Lot	Asphalt	0421.6322 Streets	2007	2025	2010
t/1st ave W. lot	Asphalt	0421.6322 Streets	1993	2023?	2010
Hall (Back)	Asphalt	Building Asset Fund	2017		2020
ll (Driveway)	Asphalt	Building Asset Fund	2017		2020
Hall (Front)	Asphalt	Building Asset Fund	2017		2020
ty Center (North)	Asphalt	Building Asset Fund	2016		
ty Center (South)	Asphalt	Building Asset Fund	2016		
rman Front lot	Asphalt	Building Asset Fund	1994	2025	
rman Back lot	Asphalt	Building Asset Fund	1994	2024	
n-Yard lot/back lot	Asphalt	Building Asset Fund	1994	2024	
rman-Front lot	Asphalt	Building Asset Fund		2025	
tion #1 (Back)	Concrete	Building Asset Fund	2019		
tion #1 (Front)	Concrete	Building Asset Fund	2015		
tion #1 (West)	Asphalt/ concrete	Building Asset Fund	2021		Redo 2
Station # 2	Concrete	Building Asset Fund	2009		
Station (Back)	Asphalt	Building Asset Fund	2003		2020
Station (Front)	Asphalt	Building Asset Fund	2003		2020
c Works Building	Asphalt	Building Asset Fund	2006		



Fog Seal:

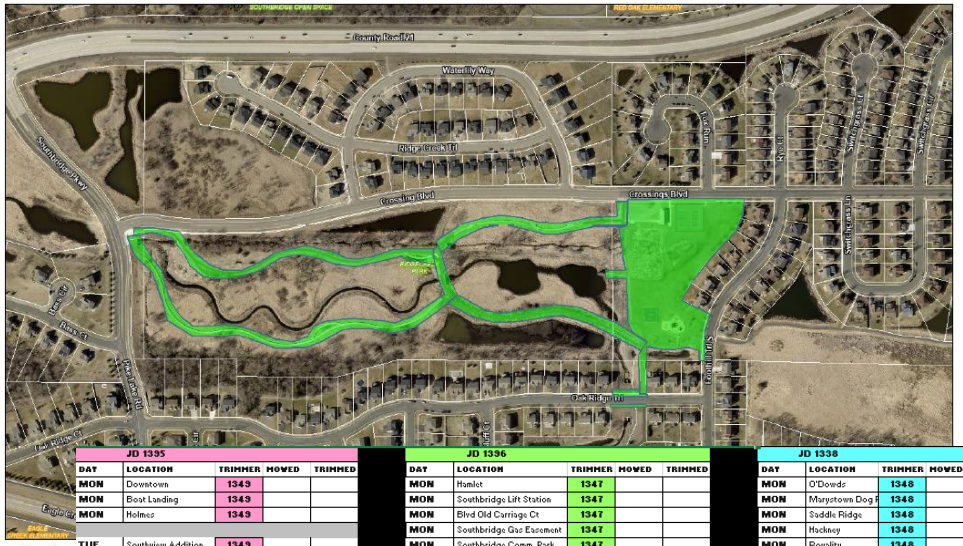
- Westminster
- Green Meadows
- 17th Ave Sports Complex
- Driveway into 17th Ave Sports Complex

- Stripping all of 2023 fog sealed parking lots.

Plus paint stripping:

- Upper Community Center Parking Lot
- Public Works Parking Lot

Schedules –Maps-startup/shutdowns



JD 1335

DAY	LOCATION	TRIMMER	MOWED	TRIMMED
MON	Downtown	1343		
MON	Boat Landing	1343		
MON	Holmes	1343		
TUE	Southview Addition	1343		
TUE	P & V Addition	1343		
TUE	Vierling Blvd and Trail	1343		
TUE	169 corners	1343		
WED	Public Works/Pond	1343		
WED	Hiawatha	1343		
THU	Huber	1343		
THU	Bluff St. / Schroeder H	1343		
THU	Levee Drive	1343		
THU	L-16	1343		
THU	Unbridled Ave			
THU	Shenandoah/12th ave	1343		
FRI	Sarazin Blvd & Trl	1343		
FRI	Prairie Bend	1343		
FRI	4th Blvd and UVDD	1343		
FRI	Alyshaba and Trail	1343		
FRI	Upper Valley Ditch	1343		

JOHN DEERE MOWER #	Vehicle #
?	1343
Alex	1347 1056
Sammy	1348 1055
Seth ?	1338
	1336

JD 1336

DAY	LOCATION	TRIMMER	MOWED	TRIMMED
MON	Hamlet	1347		
MON	Southbridge Lift Station	1347		
MON	Blvd Old Carriage Ct	1347		
MON	Southbridge Gas Easement	1347		
MON	Southbridge Comm. Park	1347		
MON	Savanna Oaks	1347		
TUE	Ridgecreek Park	1347		
TUE	Pike Lake Blvd.	1347		
TUE	Crossing Blvd.	1347		
TUE	Glacier Estates Trail	1347		
TUE	Glacier Estates	1347		
TUE	Whispering Oaks	1347		
WED	17th Ave. Sports.	1347		
WED	Blvd Independence	1347		
WED	Cloverleaf	1347		
WED	Pheasant Run	1347		
WED	Landon Terrace			
THU	Shakopee Entry Sign	1347		
THU	Stagecoach Round-about	1347		
THU	Stagecoach	1347		
THU	Quarry Lake	1347		
THU	12th Ave West of Park Place	1347		
THU	Killarney Hills	1347		

JD 1338

DAY	LOCATION	TRIMMER	MOWED	TRIMMED
MON	O'Dowds	1348		
MON	Marystown Dog P	1348		
MON	Saddle Ridge	1348		
MON	Hackney	1348		
MON	Royality	1348		
MON	Blvd off 17th/Full	1348		
TUE	Westminster	1348		
TUE	Autumn Hills	1348		
TUE	Jennifer Lane	1348		
TUE	Meadows	1348		
TUE	Green Meadows	1348		
WED	Scenic Heights	1348		
WED	Emerald Lane	1348		
WED	Timber Trails	1348		
THU	Memorial	1348		

JD 1337

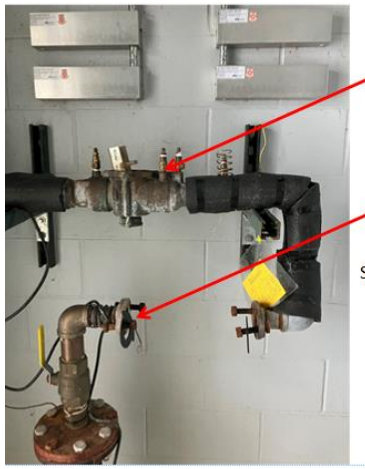
DAY	LOCATION	TRIMMER	MOWED	TRIMMED
MON	Tahpah	1338		
MON	Vierling West Round	1338		
MON	Shakopee Entry Sign	1338		
TUE	Windermere Park	1338		
TUE	Windermere Way	1338		
TUE	Willow Circle	1338		
TUE	10th and 69 Blvd	1338		
TUE	69 Railroad Bridge	1338		
TUE	Clay St	1338		
WED	Lions	1338		
WED	Riverview	1338		
THU	Stan's	1338		
THU	Meunchow Ballfields	1338		
THU	Community Ctr.	1338		
THU	Blvd. off of Fuller St	1338		
THU	Blvd. off of Fuller St	1338		
THU	Vierling Dr and Trail	1338		

This schedule is a flexible guideline. This is the order the turf should be mowed, regardless if there is a rain day or breakdown.
Continue the list in the order it is displayed above. Example: If it rains on Tues., pick up Tues. on Wed.
Afternoon maintenance: Clean & Wash Mowers. Grease.
Pick up trash, litter & branches. Must have entire park before moving to next park.

Schleper Stadium Start-Up

1. Close the Curb stop (See map. Yellow circle)
2. Open Gate Valve (See map. Green circle)
3. Install water meter
4. Hook up Backflow Preventer
5. Put slop sink faucet together
6. Close all water supplies to sinks and toilets
7. Flush calcium out of water heater. Open bottom spigot on water heater
8. Put toilets and urinals together. Toilets– install top flush meter Urinal—same thing
9. Close valves (Under Sinks in both bathrooms)
10. Close valve under sink in Concession Stand
11. Make sure water spigots are closed (located under water fountains on North and South of building
12. Put cap on water supply line for the missing drinking fountain on north side of building
13. Open valve to turn water on
14. Run sinks and toilets to release air pockets and check everything for leaks
15. Turn water heater on (Breaker is in the breaker box in the same room)
16. Change out door locks

#3 & #4



#5



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Safety/ADA Improvements

ADA Inspections

- Since 2019 we have done 18 audits of parks
- Any New playground will receive a 3rd party ADA evaluation of the playground after completion.





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Play Equipment

Defined Play Areas

The defined play area is separated into 2 by a concrete sidewalk up the center. The play areas include the following events:

Area A:

- ☐ Composite structure
- ☐ Diggers- 2

Area B:

- ☐ Spring rocker
- ☐ Composite sand play
- ☐ To-fro Swings- 2 strap, 1 tot, 1 formed

Surface Material

The play equipment is positioned in sand.

JQP, Inc. Recommends

Priority 1- Replace the existing surface material with a type that complies with ASTM 1951 for accessibility as well as ASTM 1292 for impact attenuation. *ADA 1008.2.6*

Replacing materials summer 2022

**When purchasing surface material ensure the vendor provides compliance documentation for ASTM 1951 and 1292.*

Toilet Rooms- Signs

The sign at the women's toilet room is currently an engraved style (no raised or braille characters) and is mounted on the door. -

The sign at the men's toilet room provides raised and braille characters but is mounted on the door.

JQP, Inc. Recommends -

Priority 3- Replace the sign at the women's toilet room with a style that has raised and braille characters. *ADA 216.8, 703.2 completed 8-28-2020*

Priority 4- Post the signs with raised and braille characters on the wall adjacent to the latch side of the door. *ADA 703.4.2 completed 8-28-2020*



Toilet Rooms

Both the men's and women's toilet rooms provided features of accessibility at the time of construciton, including a 5' wide accessible stall. *This is a good example of accessibility.*

JQP, Inc. Recommends -

Priority 3- Adjust the stall door to be self closing. *ADA 604.8.1.2*

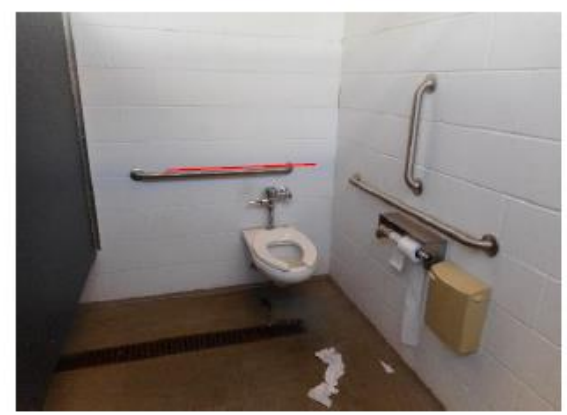
Priority 3- Add a pull to the exterior side of the stall door. *ADA 604.8.1.2*

Priority 3- Relocate the rear grab bar so it extends 12" minimum towards the wall from the centerline (currently extends 5"). *ADA 604.5.2 -Completed 8-28-2020*

Priority 4- Relocate the vertical grab bar so it is 39"-41" from the rear wall (currently 37"). *MN1341 604.5.1.2 Completed 8-28-2020*

Priority 4- Lower the toilet so it is 17"-19" AFF (currently 19 ¾" AFF). *ADA 604.4*





Weed Control

Where:

- Roundabouts
- Downtown
- High Viz Areas





Seasonals













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Hanging Baskets and Window Boxes for the Parklets



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Cub Scout Pack 916





Parklets Downtown

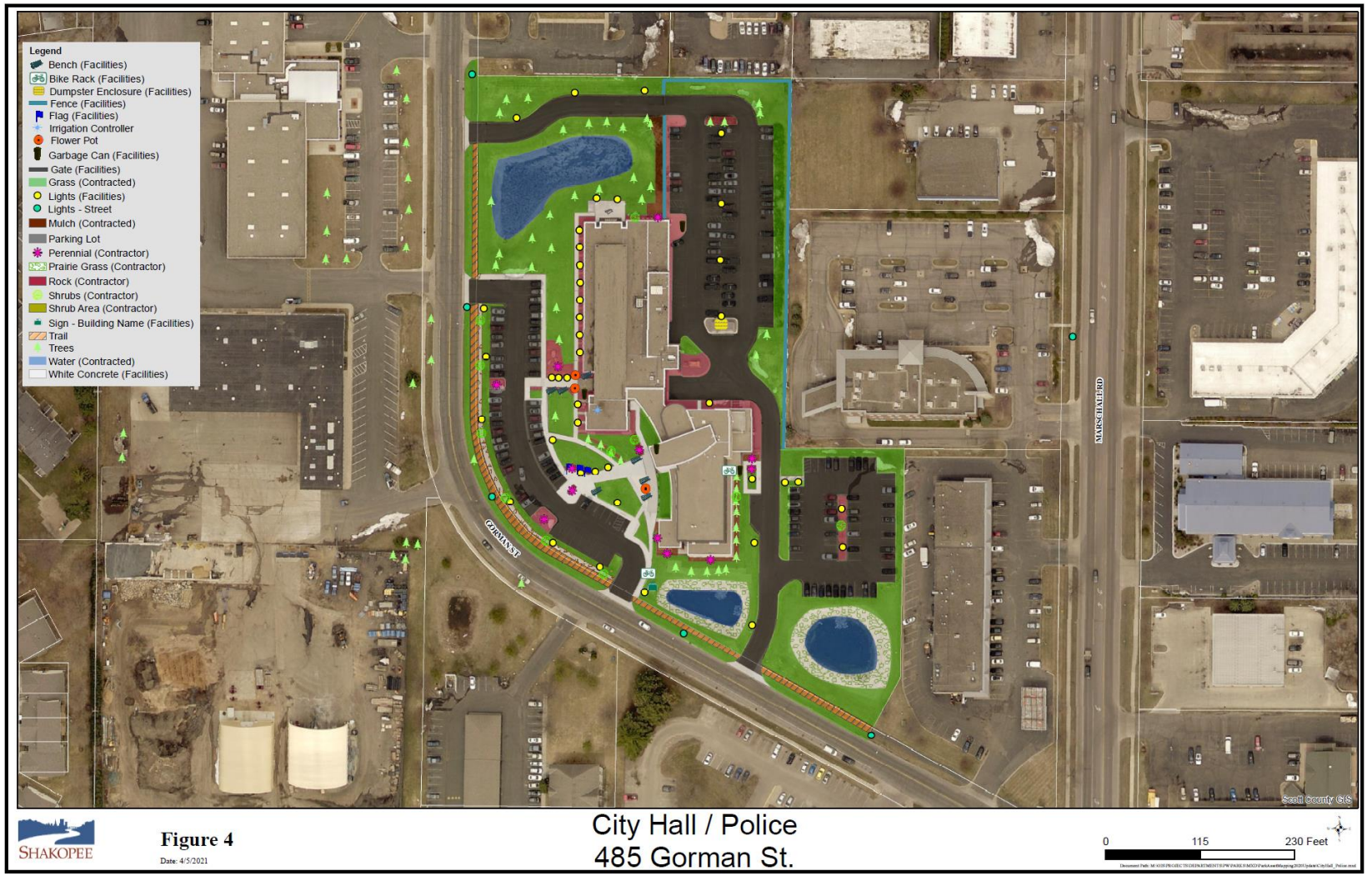
5 Parklet locations

- Turtles
- Arnies
- Shakopee Brewhall
- Babes Place
- Bravis Modern Street Food



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Park Asset Maintenance

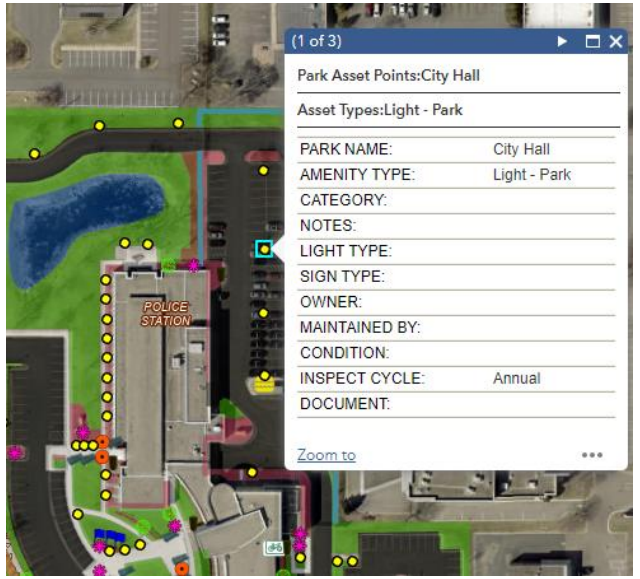


SHAKOPEE

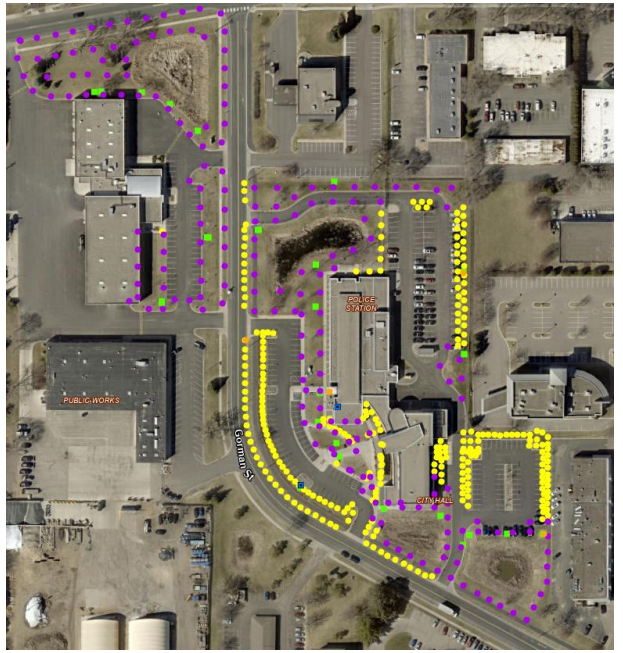
Figure 4

Date: 4/5/2021

City Hall / Police
485 Gorman St.



Irrigation



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Soccer Tournament

- 346 teams
- 555 Games
- 33 Fields (17th Ave, EMS,WMS, HS, Green Meadows)
- >10,000 Expected attendance
- 11 Food vendors
- Largest single tournament in Minnesota



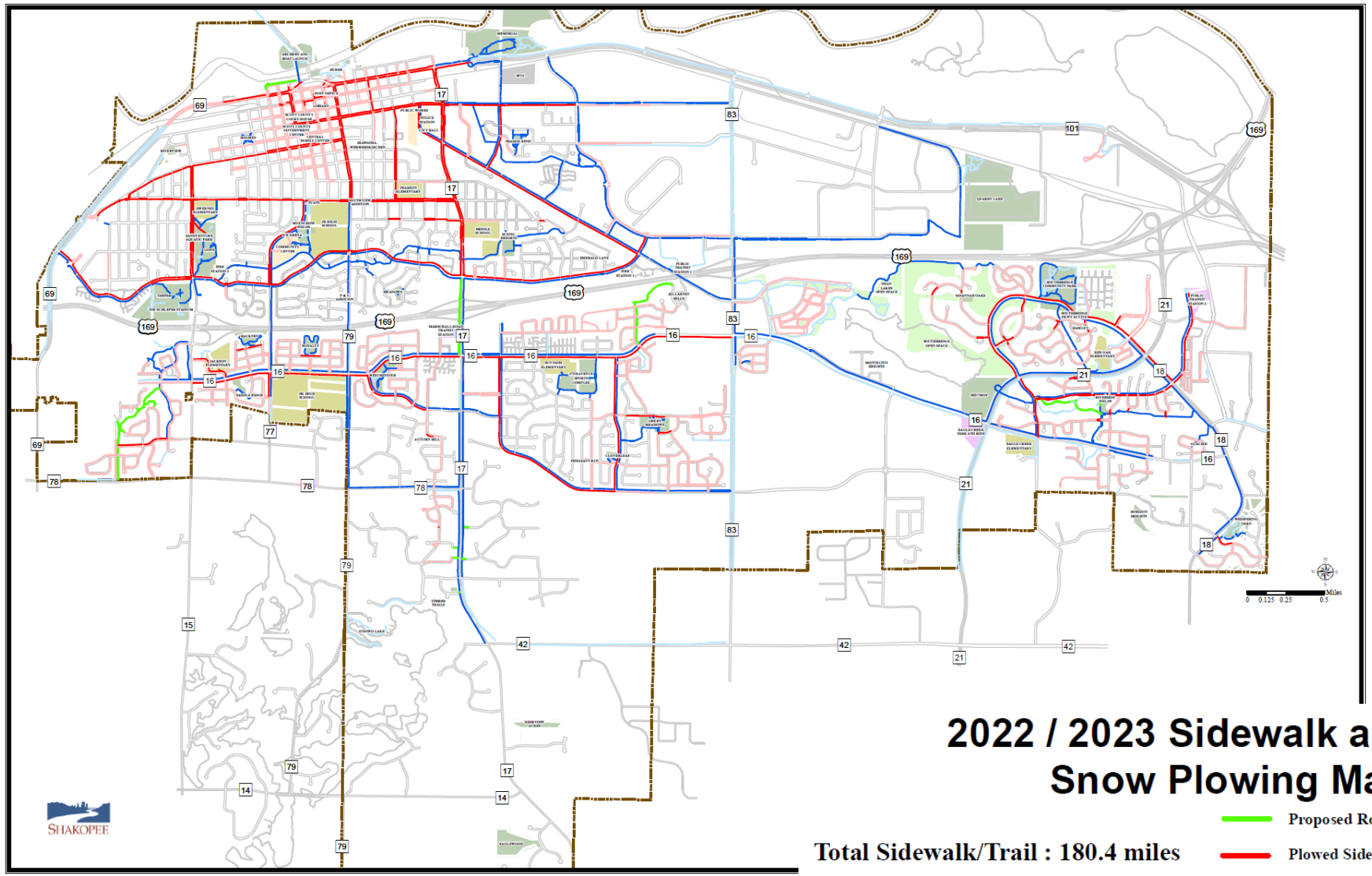
Soccer Fields/Layouts/Tournaments



SHAKOPEE

Ball Fields





2022 / 2023 Sidewalk and Trail Snow Plowing Map

Total Sidewalk/Trail : 180.4 miles

Total Plowed : 92.1 miles

- Proposed Route Additions (3.1 miles)
- Plowed Sidewalk (34.9 miles)
- Plowed Trail (57.2 miles)
- Sidewalk Not Plowed
- Trail Not Plowed

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Ice Rinks

Weekly Ice Rink Maintenance









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Concerns

- 12 Full-time employees
- 18 seasonals in the summer
- 1 Seasonal in the winter

Donations



Anderson family-Lions Playground



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Alleys



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Streets

- About 170 centerline miles of City streets.
- 2 short stretches of gravel roads.
- Adding more every year.

STREETS

KEY:

State –

County –

City –

Private –



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Signs

- 5,200 Street Signs.
- Make most of them in house.
- Replacement with street projects.
- Retro reflectivity requirements.
- Graffiti
- Vehicle Accidents

Sidewalks

- 97.6 Miles of Sidewalks
- Inspected every 3 years
- Blvd Tree roots push up and crack panels.
- Need to either grind the edges or replace the panels.





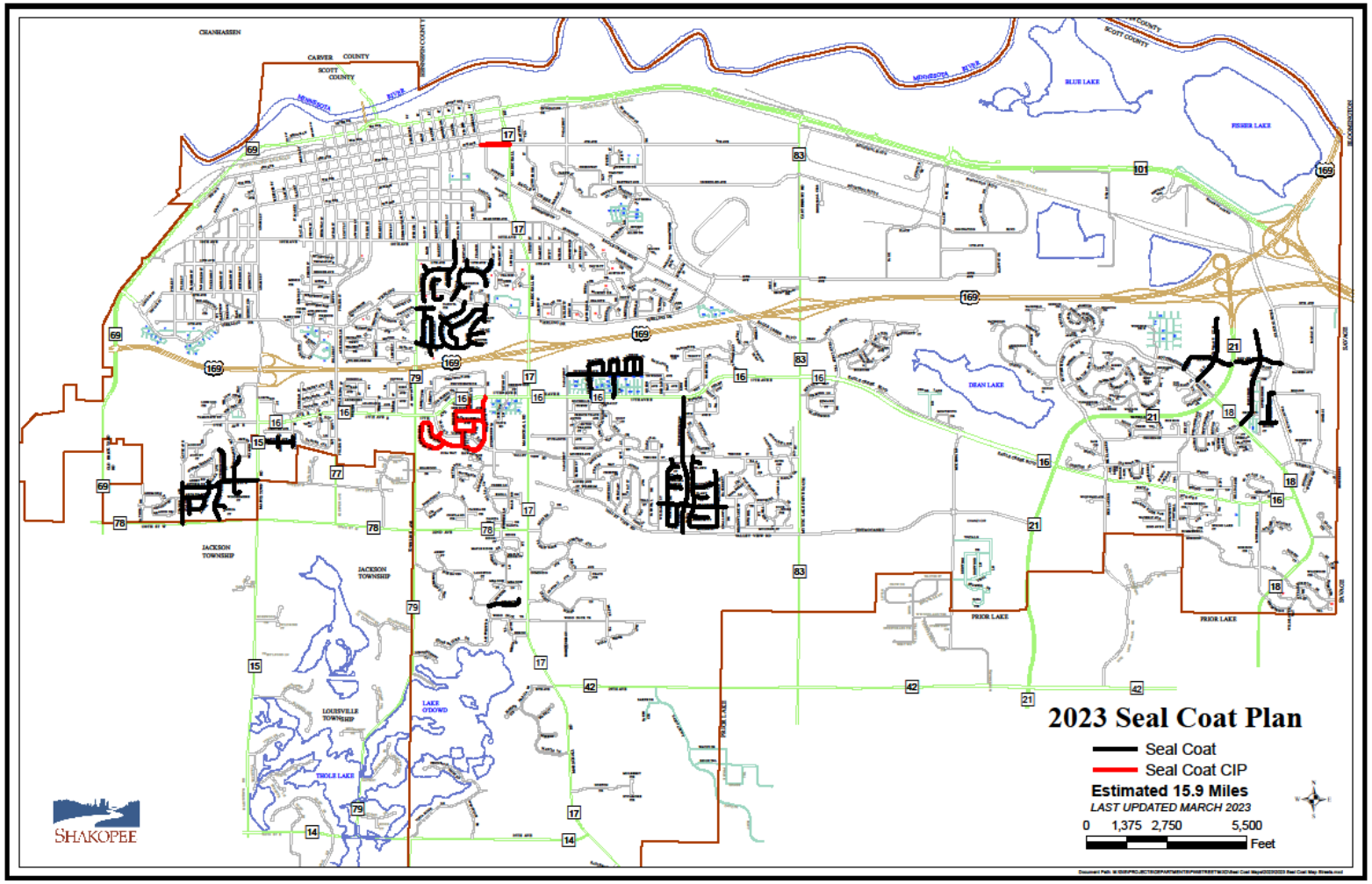


2022-2023 Snow Season

- Third snowiest winter on record at 89.7”.
- Almost 4,000 hours plowing streets.
- 650 hours plowing trails & sidewalks.
- 1,300 tons of salt.
- 275 tons of treated salt.
- Over 10,000 gallons of brine.

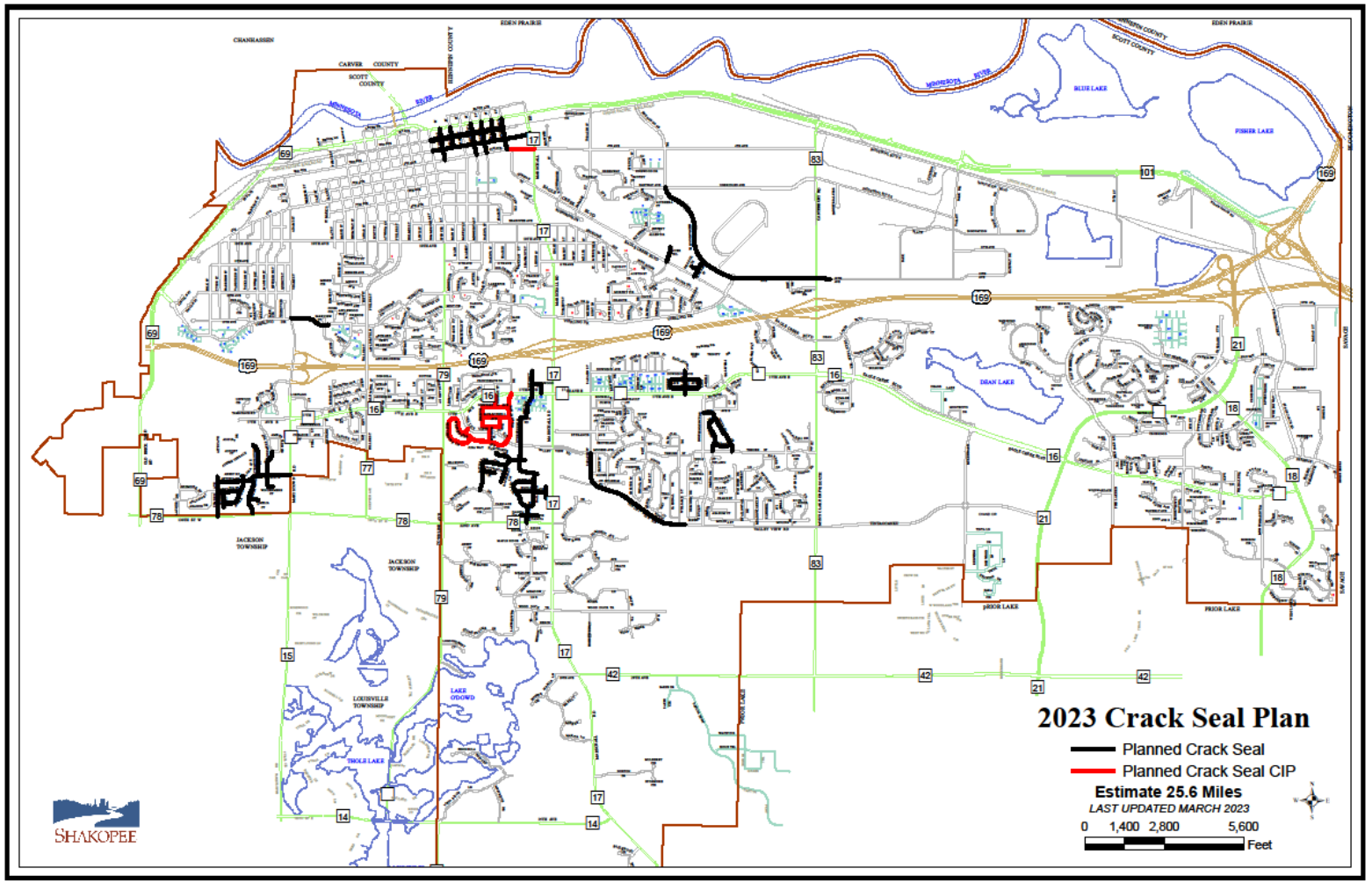
Joint Powers (JPA)

- Seal Coat
- About 310,000 SY
- $1.26 per SY
- About $380,000



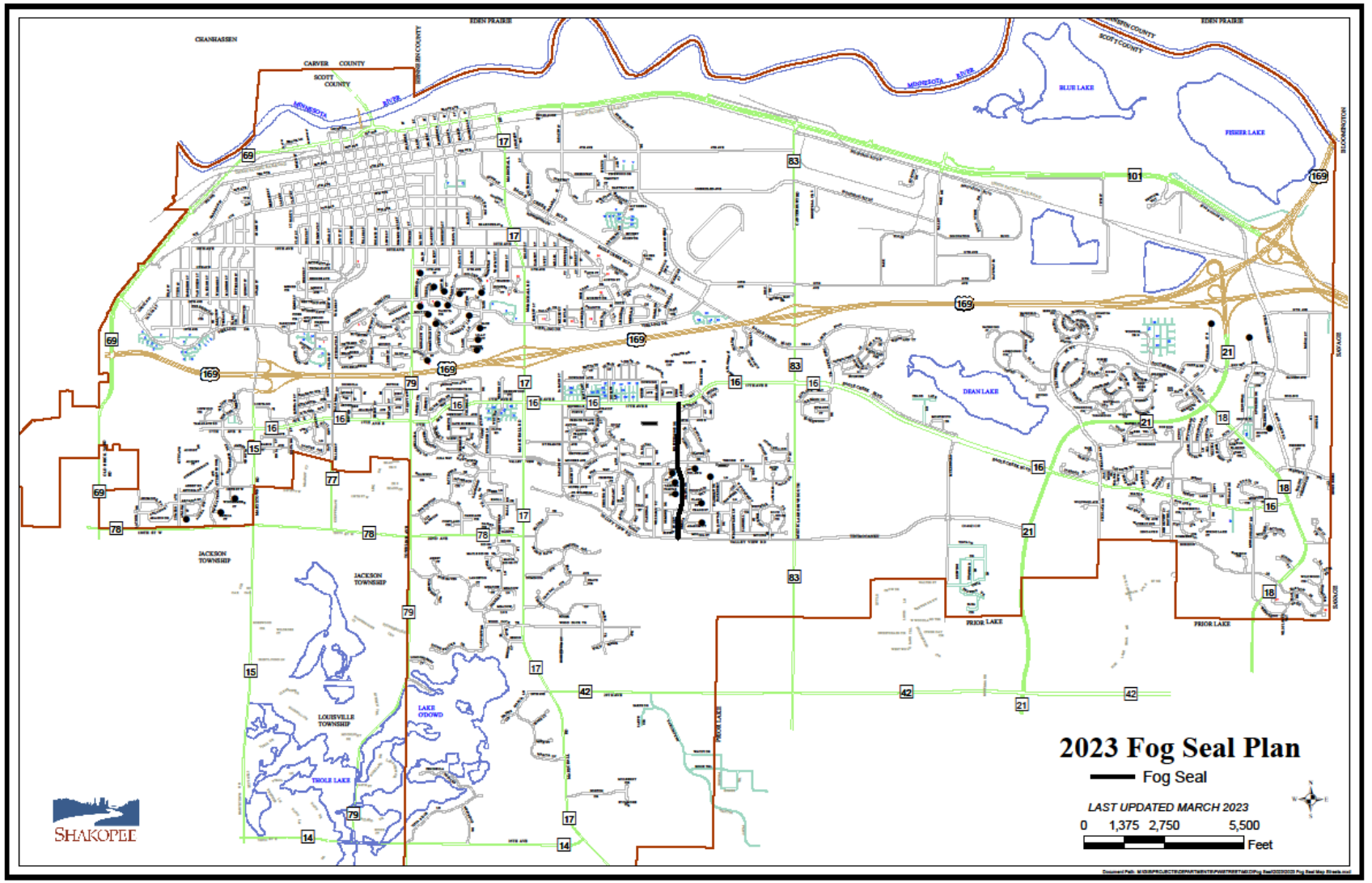
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Joint Powers (JPA)



Joint Powers (JPA)

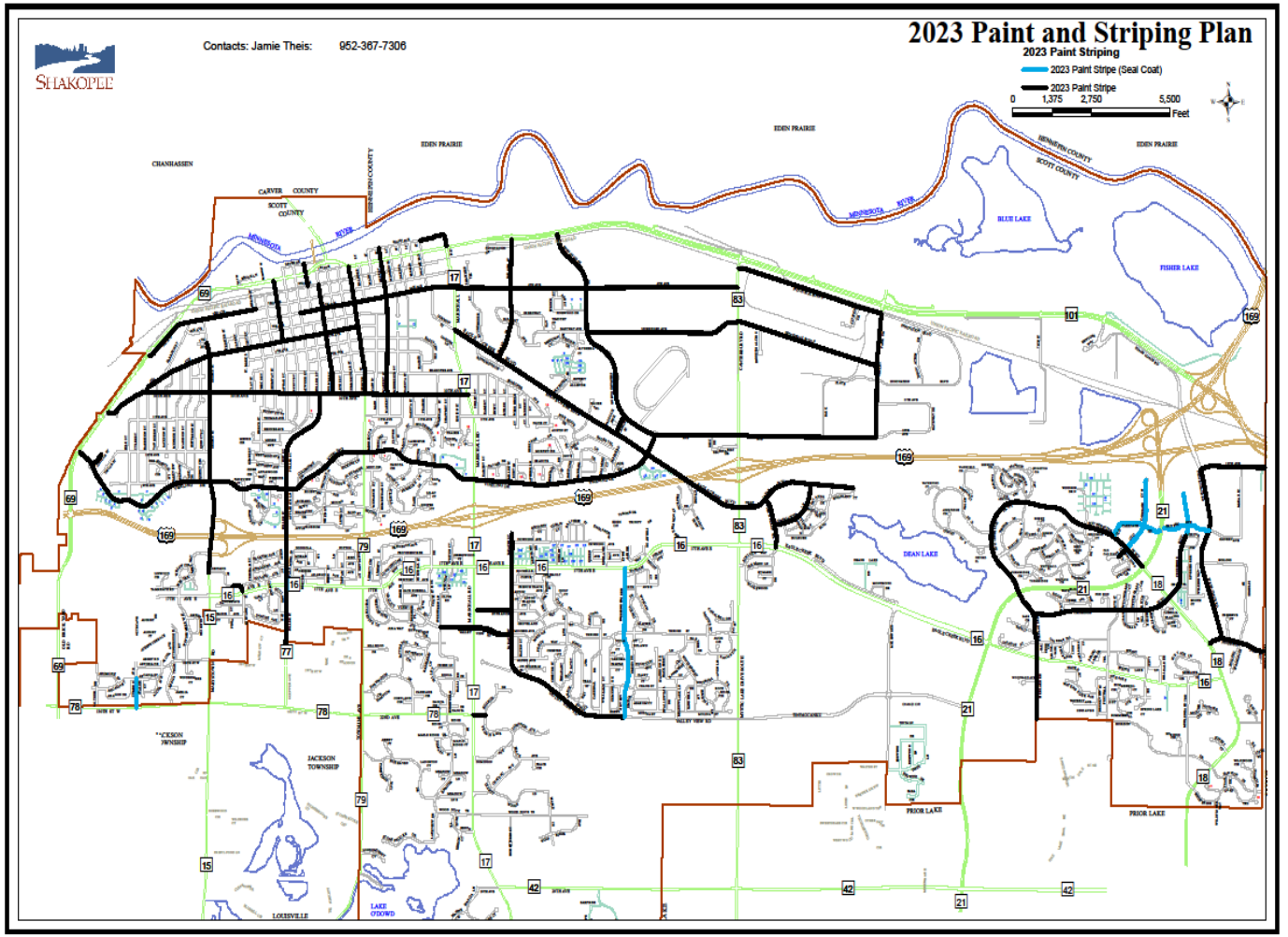
- **Fog Seal**
  - Cul-de-sacs
  - Collector Streets
  - Parking Lots



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Joint Powers (JPA)

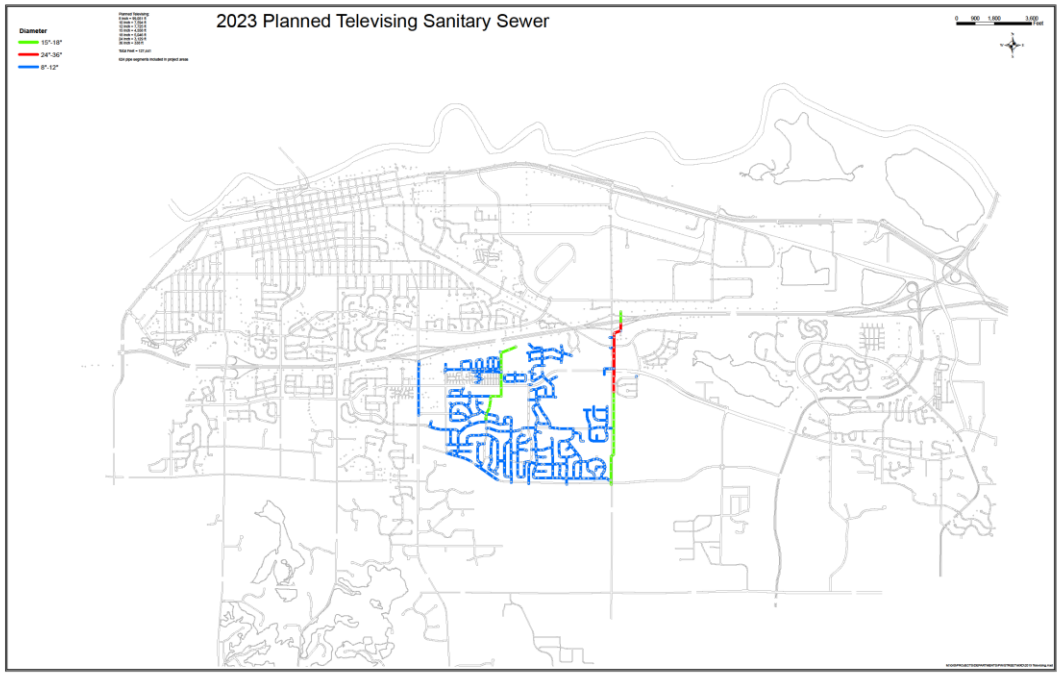
- Painting
- $50,000 Budget
- Long Lines
- Symbols
- Most Symbols are done in-house



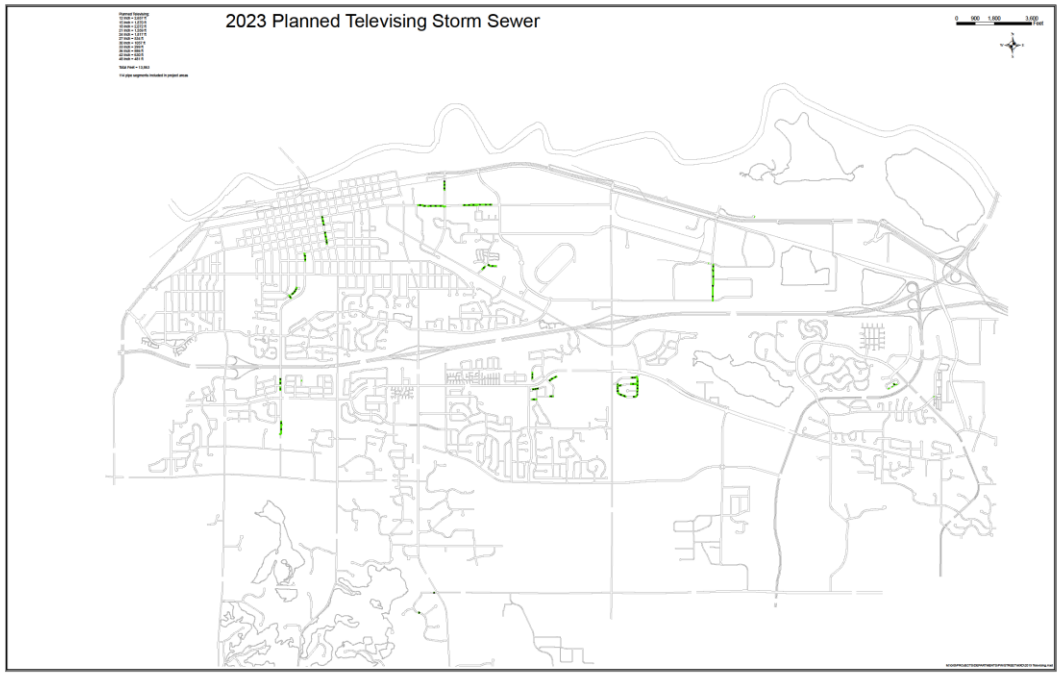
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Sewer Televising

127,441' Sanitary Sewer Pipe



13,862' Storm Sewer Pipe





Sewer Jetting

- About 144 Miles of Sewer Pipe.
- Jet 1/3 of the sanitary sewer lines every year.
- Uses high pressure water to clean sewer pipes and pull back debris.
- Use inductor trailer to remove debris from manhole.
- Reduces service interruptions.



Tree Planting

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Ponds

- 210 Ponds
- We inspect and clean each inlet and outlet multiple times per year.
- Sometimes need to clean out sediment in the ponds with bigger equipment.
- Most common issues are litter/garbage, grass clippings, volunteer trees and encroachments.

Catch Basin Repairs

- 6892 Catch Basins
- Most common issues –
- The grates plugging with ice, leaves and grass causing water to backup.
- The concrete adjustment rings and tuck pointing can crack and fail leading to sinkholes in the road.
- Crews then must cut open the road and rebuild the catch basins.



Fleet Shop





Fleet Staff

2 Mechanics
1 Fleet Foreman
Summer Seasonal

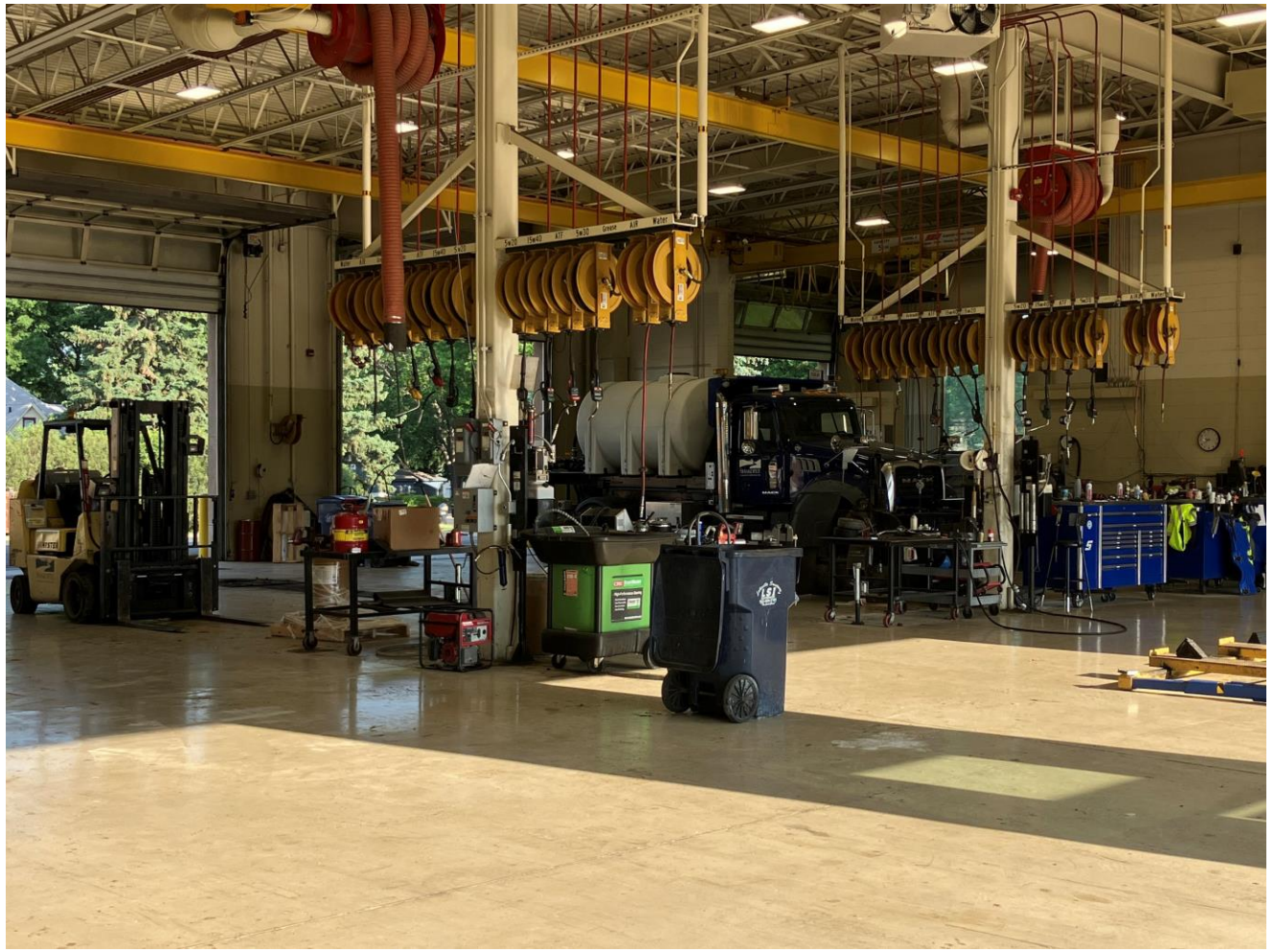
In floor Vehicle Lift



City Fleet

175 Vehicles & Equipment
200+ attachments
13 departments

Fluid Dispenser's



Fleet Service facts from last year

PMs in one year 610
Repairs in one year 992
Outsourced repairs 31
DOT Vehicle inspections 41
Unleaded fuel dispensed 100,000 gallons
Diesel fuel dispensed 45,000 gallon

Fleet Service Area



Fleet Technology

Assetworks - Fleet software
EKOS-Fuel usage and Inventory
Verizon connect- 150 Vehicles tracked
Precise- 12 trucks monitored for salt usage

Assetworks Reports

Assets Due for PM/Insp - by Location - Screen

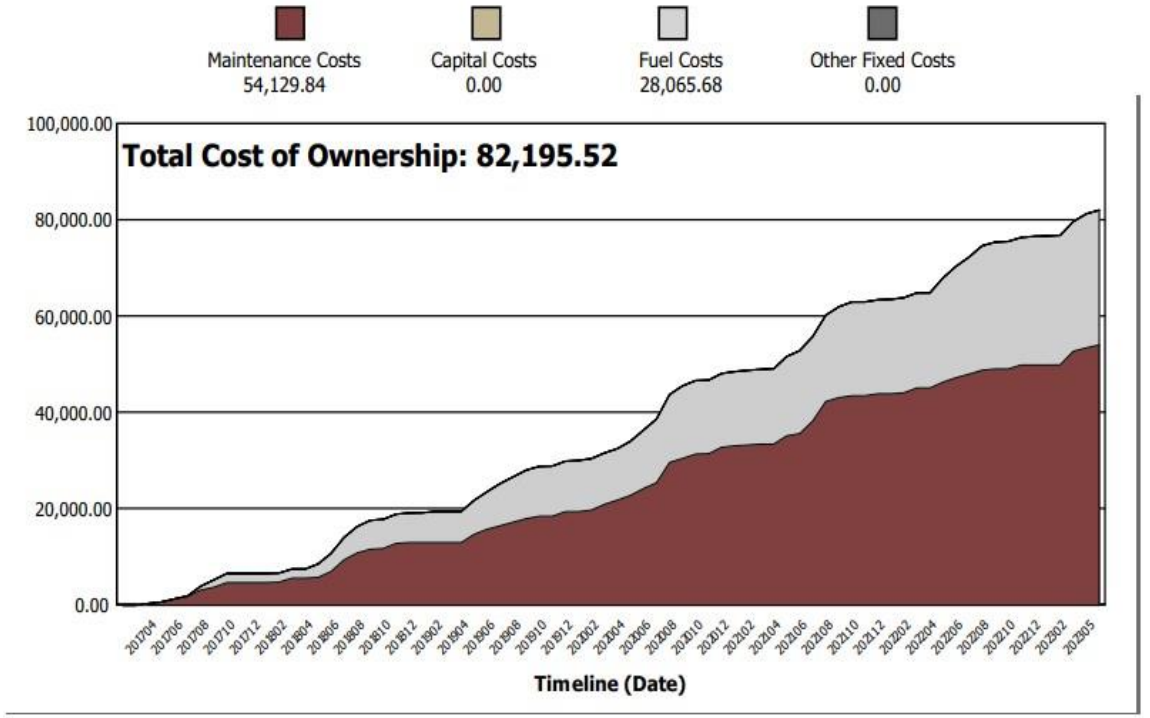
PM Loc: SKPW - Shakopee Public Works

Asset Department	PM Service	Reason Due Date Due Days Late	Current Meter 1 Meter 2 Fuel *	Due At Meter 1 Meter 2 Fuel	Till Due Meter 1 Meter 2	Late Meter 1 Meter 2 Fuel
SK1325 - 2019 Sweeper - Freightliner SKPW-SD - Skstormdrainage	A - Pm Service A	METER1 PROJECTED OVERRIDE 5/29/2026 -1,080	3,601 N/A 164	3609 N/A N/A	8 N/A	N/A N/A
SK1341 - 2020 Truck - Plow Mack Chris SKPW-ST - Skstreet	A - Pm Service A	METER1 PROJECTED OVERRIDE 2/17/2026 -979	696 N/A 224	709 N/A N/A	13 N/A	N/A N/A
SK1346 - 2020 Mower - Large Mower 5910 SKPW-PM - Skparkmaintenance	D - Pm Service D	METER OR FUEL OVERRIDE 6/8/2026 -1,090	1,015 N/A N/A	1012 N/A N/A	-3 N/A	3 N/A N/A
SK1357 - 2020 Patrol - Marked Suv - 192 SKPW-PD - Skpolice	B - Pm Service B	METER1 PROJECTED OVERRIDE 2/27/2026 -989	60,631 N/A 387	60666 N/A N/A	35 N/A	N/A N/A
SK1364 - 2020 Rtv - Xg850 SKPW-FD - Skfire	A - Pm Service A	DATE 8/12/2022 306	6 N/A N/A	50 N/A N/A	44 N/A	N/A N/A
SK1371 - 2021 Patrol - Marked Suv - 211 SKPW-PD - Skpolice	A - Pm Service A	METER OR FUEL OVERRIDE 5/12/2026 -1,063	35,105 N/A 265	34942 N/A N/A	-163 N/A	163 N/A N/A
SK1372 - 2021 Patrol - Marked Suv - 212 SKPW-PD - Skpolice	A - Pm Service A	METER OR FUEL OVERRIDE 5/12/2026 -1,063	28,619 N/A 195	28580 N/A N/A	-39 N/A	39 N/A N/A
SK1382 - 2021 Truck - Plow Mack Brian SKPW-ST - Skstreet	A - Pm Service A	METER1 PROJECTED OVERRIDE 3/27/2026 -1,017	485 N/A 44	539 N/A N/A	54 N/A	N/A N/A

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Report Date: 6/14/2023

Life Cycle Total Cost of Ownership for Asset SK1050

AssetWORKS

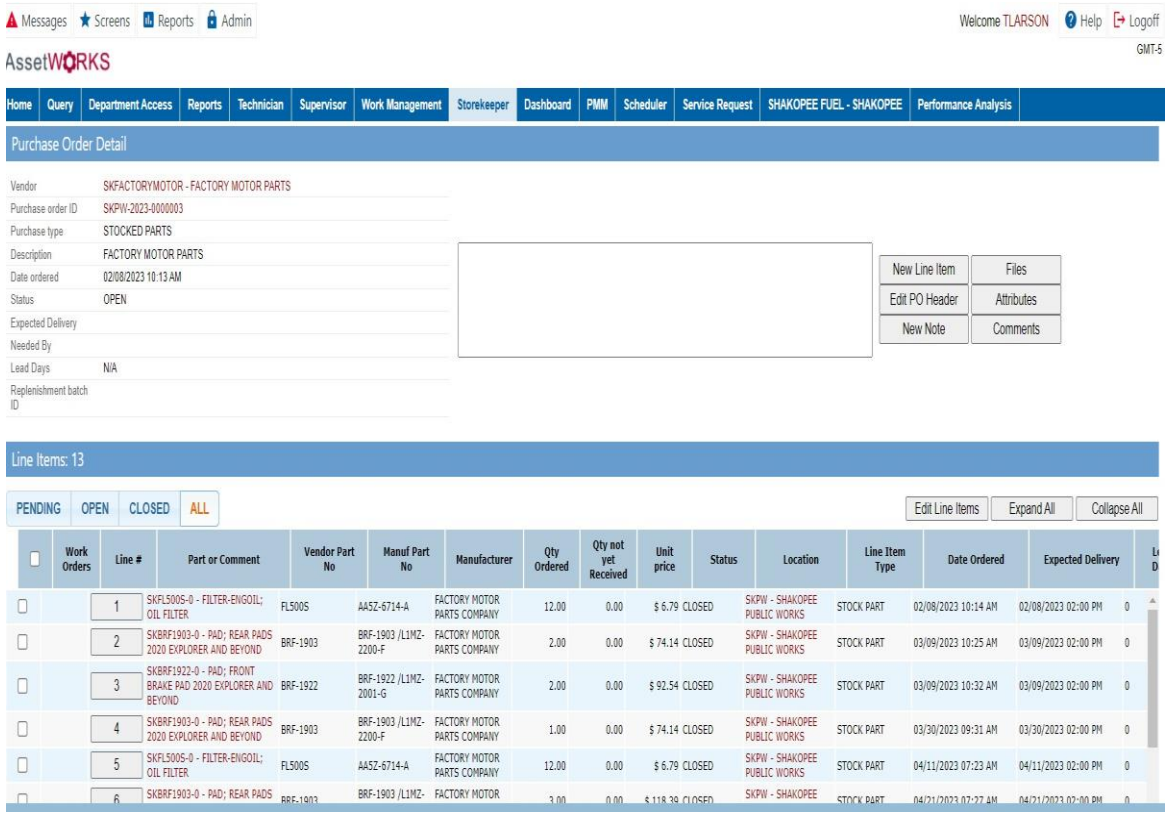


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Parts Room



Parts room Inventory & management

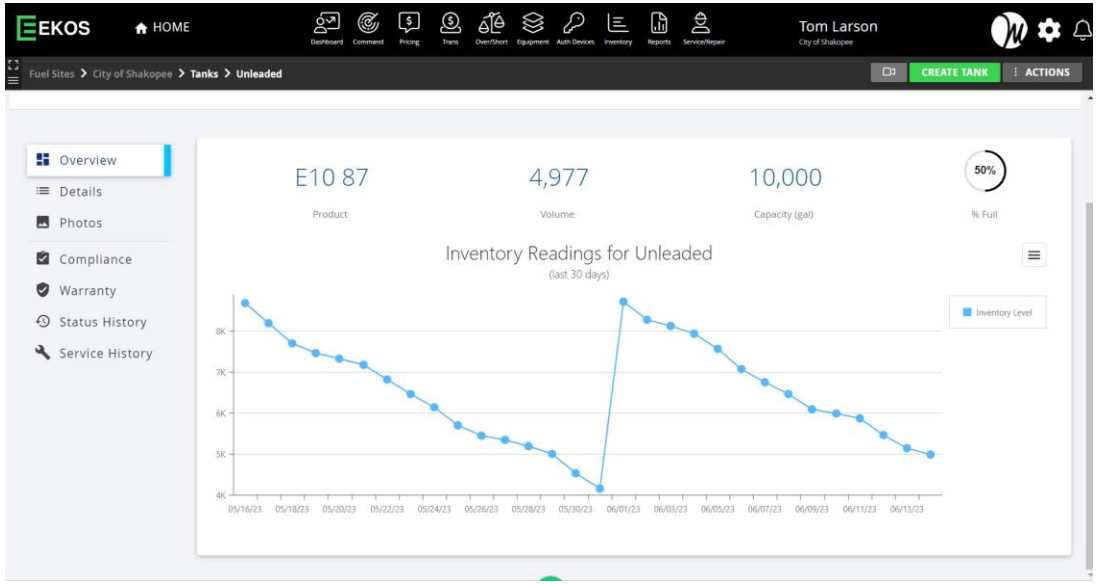


Part ID	Part Suffix	Part Short Description	Primary Bin ID	Unit Of Measure	Quantity On Hand	Current Unit Price	Value On Hand ▼
SK5W20	0	MOBIL SPECIAL 5W20	OIL ROOM	QT	695	2.43	1,685.44
SKDTE10	0	MOBILOIL DTE 10M EXCEL 68	OIL ROOM	QT	289	5.04	1,456.86
SK15W40	0	MOBIL OIL DELVAC 15W40	OIL ROOM	QT	330	2.64	871.78
SKDELO50/50	0	CHEVRON DELO LONG LIFE ANTIFREEZE COOLANT 50/50	OIL ROOM	QT	272	2.72	740.80
SK5W30	0	OIL CLEAN 5/30	OIL ROOM	QT	279	2.35	654.54
SK75540	0	SYNTHETIC DEXOS 0W20 TAHOE&SILVERADO 5.3	C40	EA	47	5.29	248.48
SK10W30	0	OIL CLEAN 10/30	OIL ROOM	QT	45	3.22	144.90
SKFL910S	0	OIL FILTER	A10	EA	19	3.68	69.83
SKC144E	0	WIRE-4 LOOM WIRE	WIRE RACK	FT	38	1.70	64.60
SKM15412	0	CABLE #4	SETUP ROOM	EA	22	2.13	46.86
SK23488	0	WIRE-4 COND BONDED	WIRE RACK	FT	50	0.82	41.00
SK60204C	0	LIGHT-BACK UP LIGHT	C17	EA	5	5.42	27.10
SK702522	0	COIL ON PLUG BOOT KIT	B15	EA	6	4.37	26.20
SK1079068	0	GUTTER BROOM LINK BEARING	C38	EA	6	4.09	24.54
SK3386	0	FUEL FILTER	C2	EA	4	5.48	21.92
SK3476	0	CALIPER PIN BOOT	B15	EA	4	5.44	21.74
SK42510125	0	SLACK ADJUST BUSHING	C33	EA	8	2.45	19.60
SK300016	0	COOLANT ADDITIVE-PENCOOL 30	C42	EA	4	3.82	15.28
SK9006LL	0	HEADLIGHT	B17	EA	4	3.38	13.52
SK9007	0	LIGHT-HEADLIGHT BULB	B17	EA	3	4.35	13.05
SKTG7078	0	SWITCH TOGGLE (RED)	A52	EA	3	4.11	12.32
SKBPR6ES	0	NGK SPARK PLUG	SMALL ENGINE PARTS	EA	5	2.33	11.65
SKABP/N3540PLA	0	EXHAUST CLAMP 4"" FOR TRUCK	C32	EA	2	5.67	11.34
SK1088	0	OIL FILTER	A2	EA	2	4.99	9.98
SK1394	0	OIL FILTER JOHN DEERE GATOR	A3	EA	2	4.97	9.94
SK100255	0	OIL FILTER TAHOE&SILVERADO 5.3	B6	EA	2	4.87	9.74
SK1356	0	OIL FILTER	A2	EA	2	4.80	9.60
SK787114	0	HEAD LAMP CONNECTOR	B17	EA	2	4.77	9.54
SK1060	0	OIL FILTER	A2	EA	2	4.56	9.11
SK912	0	HIGH MOUNT BULD	BLUE CABINET	EA	9	0.94	8.46
SKTG7085	0	SWITCH TOGGLE	A52	EA	2	4.00	8.00
SKNGK3365	0	NGK SPARK PLUG	SMALL ENGINE CABINET	EA	2	3.47	6.94
SKTT16	0	TRANS ADDITIVE	B42	EA	1	5.73	5.73
SK7099	0	OIL FILTER	A6	EA	1	5.63	5.63
SK1551	0	HYDRAULIC FILTER	A4	EA	1	5.53	5.53
SK7502	0	OIL FILTER	A6	EA	1	4.76	4.76
SK1042	0	OIL FILTER	A2	EA	1	4.57	4.57
SK1040	0	OIL FILTER	A2	EA	1	4.47	4.47
SK100010	0	OIL FILTER	B6	EA	1	4.41	4.41
SK91740	0	RUBBER GROMMET	B18	EA	2	2.16	4.32
SK1515	0	OIL FILTER	A3	EA	1	4.20	4.20
SK7651184	0	REAR VIEW MIRROR ADHESIVE	A53	EA	1	3.99	3.99

Fuel Island Dispensers

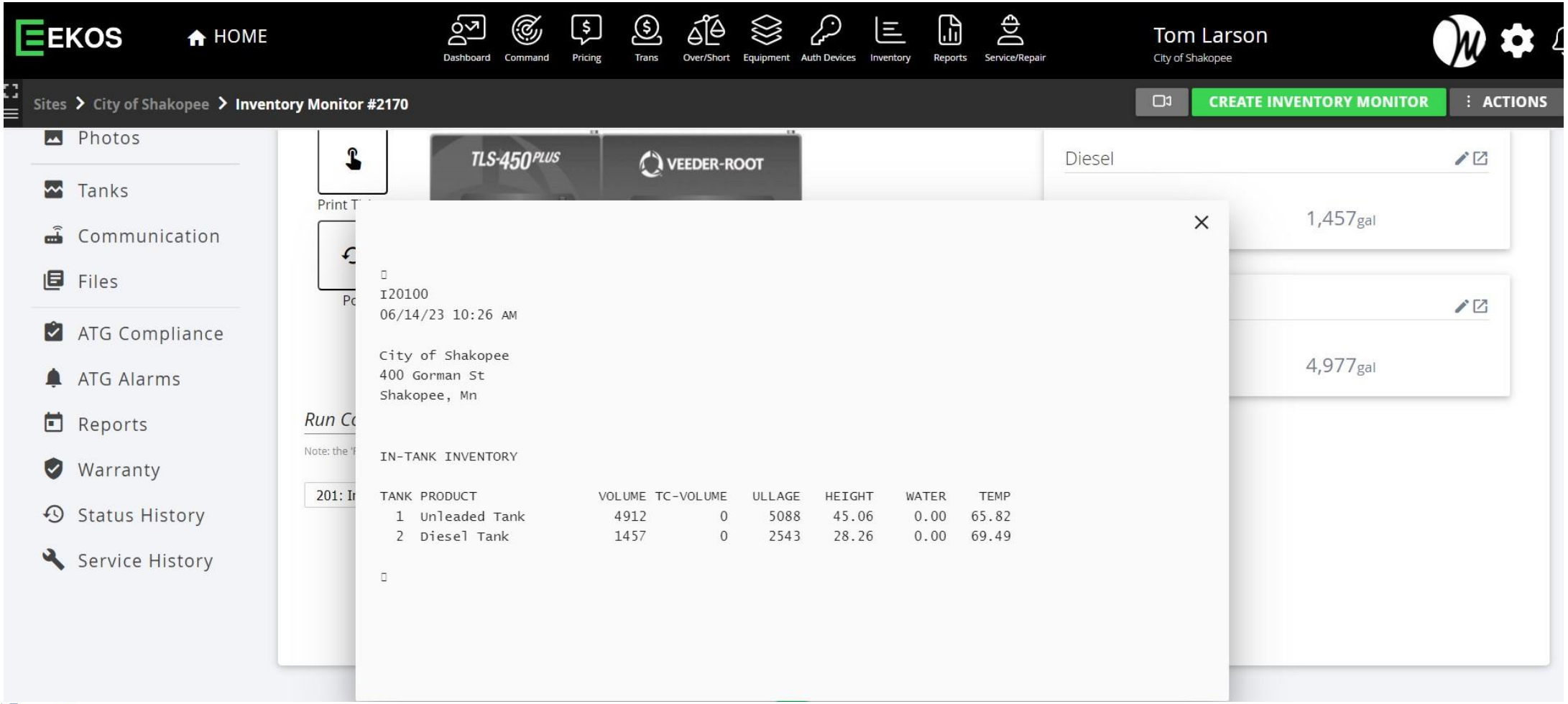


EKOS Fuel System
Fuel Level readings





Remote fuel level access feature



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Veeder Root Underground tank monitor




```
TANK    PRODUCT
  1     Unleaded Tank
TEST STATUS: OFF
TEST TYPE/RESULT:   0.2  GAL/HR TEST: PASS
START TIME: 06/13/23 10:00 PM
DURATION:           2.0  HOURS
START TEMP:        66.1  DEG F
ENDING TEMP:       66.1  DEG F
START VOLUME:    5119.9  GALLONS
LEAK RATE:         -0.03 GALLONS/HR
CUMULATIVE PERIODIC VOLUME CHANGE (GALLONS)
-0.06   -0.03   -0.04

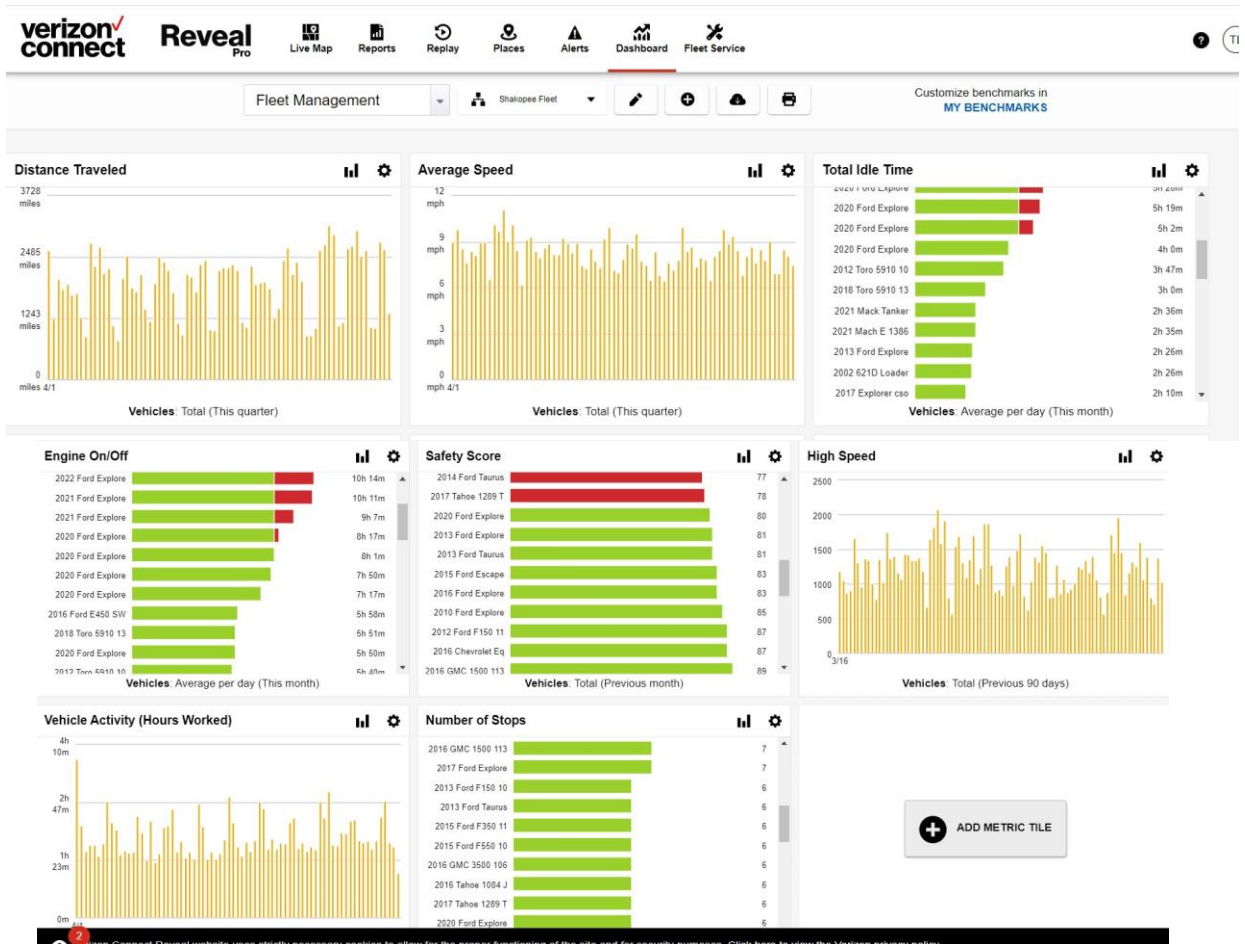
TANK    PRODUCT
  2     Diesel Tank
TEST STATUS: OFF
TEST TYPE/RESULT:   0.2  GAL/HR TEST: PASS
START TIME: 06/13/23 10:00 PM
DURATION:           2.0  HOURS
START TEMP:        69.9  DEG F
ENDING TEMP:       69.9  DEG F
START VOLUME:    1497.9  GALLONS
LEAK RATE:          0.03 GALLONS/HR
CUMULATIVE PERIODIC VOLUME CHANGE (GALLONS)
0.01    0.02    0.04
```

Line leak detection monitor



Verizon connect





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Precise-Prewet Upgrade project





Precise-Salt usage

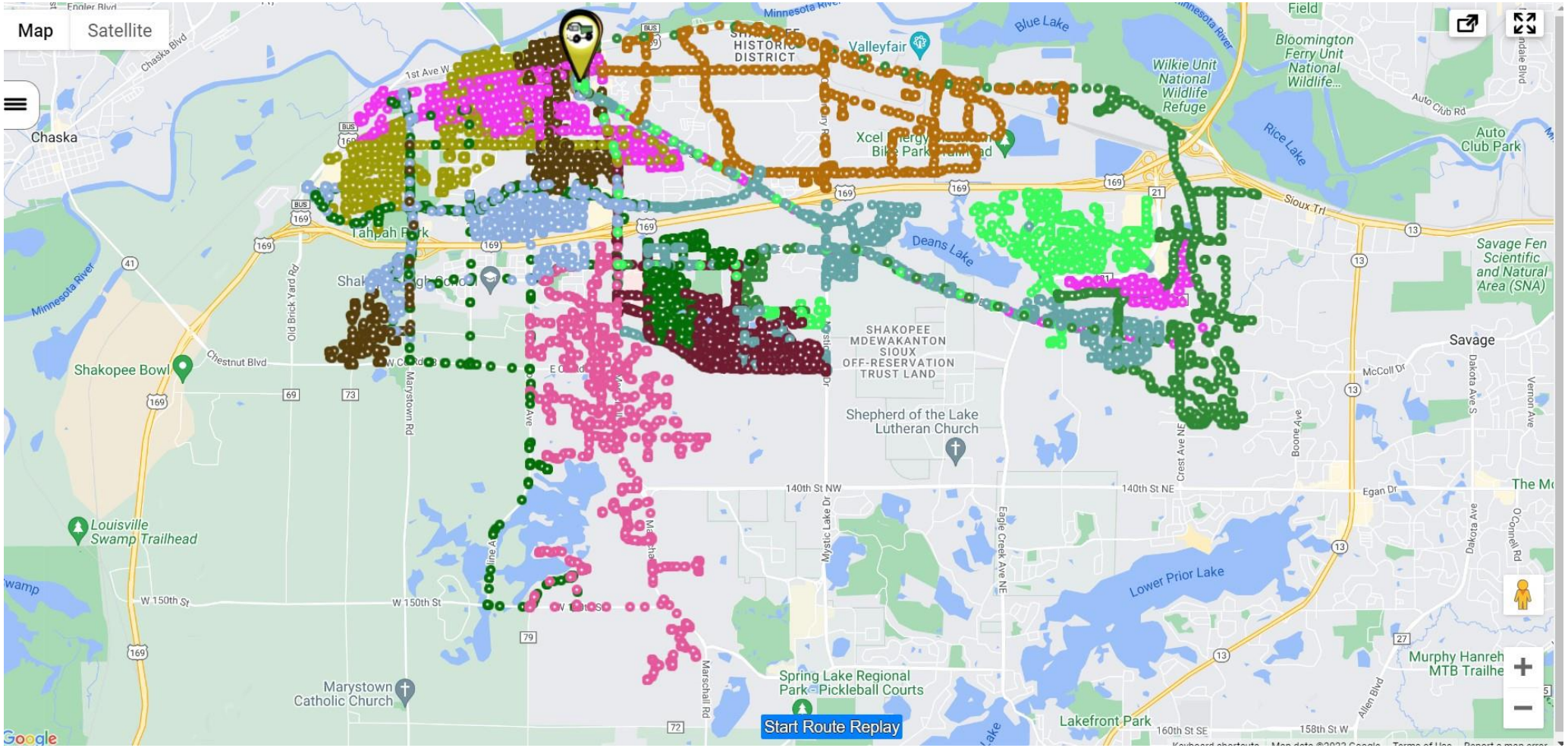
Fleet: Shakopee

how 25 entries

Search:

Asset	Distance (miles)	Engine Hours	Distance Spreading (miles)	Salt Distance (miles)	Salt Total (lbs)	Average Salt Rate	Salt Blast Count	Pwt1 Distance (miles)	Pwt1 Total (gal)
1106 Kelly	1517.7	130:45:08	0	-	-	-	-	-	-
1107Kyle	1859.5	152:42:56	184.5	-	-	-	-	-	-
1108 Dean	703.6	72:05:14	41.6	-	-	-	-	-	-
1109 Mike	1509.2	140:19:53	183.8	-	-	-	-	-	-
1110 Jamie	2296.4	214:02:14	218	-	-	-	-	-	-
1165 Todd	2047	180:09:35	201.9	-	-	-	-	-	-
1290 Joe	1676.3	128:28:00	444.4	-	-	-	-	-	-
1291 Jesse	1536.7	160:26:47	113.9	-	-	-	-	-	-
1340 Bob	2358.4	162:19:14	497.1	465.3	134166	288.3	15	272.8	401
1341 Chris	1366.4	129:41:08	441.6	436.5	199123	456.2	537	221.3	601
1381 Logan	2156.6	193:25:31	287.8	274	106630	389.2	178	244.7	501
1382 Brian	1561.1	155:30:38	317	304.3	100070	328.9	15	277.3	602
Totals	20588.9	1819:56:18	2931.6	1480.1	539989.0	364.8	745.0	1016.1	2105.0

Precise route completion



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Propane filling station



Last year vehicle wash totals

Car 977



Truck 301



Fleet Challenges

Vehicle availability
Vehicle pricing
Vehicle build and delivery
Service parts

- Environmental Engineer
- Public Works Park and Street employees



Technology

- GPS
- iPhone
  - Field maps
- GIS
  - Paint striper
  - Tree
  - Street signs
  - Utilities
  - Banners
  - Many more





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Communication

facebook

Shakopee Digest

REPORT A PROBLEM







Partnerships

SHAKOPEE FOOTBALL

SPU
Shakopee Public Utilities

SSA SHAKOPEE SOCCER

Scott COUNTY | MINNESOTA

DEPARTMENT OF NATURAL RESOURCES

SHAKOPEE
Chamber of Commerce

SHAKOPEE | MN
COMMUNITY PRIDE SINCE 1857
City of Shakopee | 485 Gorman St., Shakopee MN 55379 | 952-233-9300 | www.ShakopeeMN.gov

Customer Service

Service request

Email

Phone calls

Walk-ins

Tracking sheet



Questions?