WATER PRESERVATION PRROGRAM

Conserving and Protecting

Drinking Water – Storm Water – Sanitary Sewer Water

Slogan:

- HOPP on Board and help save our most precious resource
- HOPP on Board

HOPP ON Board Goals, Vision, and Components:

1. Protecting ground water from contamination.
2. Conservation of treated water.
3. Reduction of discharge into storm and sanitary sewer systems.

While it seems like we have unlimited water, it is a finite source as we never make more water and in fact, there is the same amount of water on Earth now as when it was formed. Water does not "go" anywhere, rather it just moves around from liquid to gaseous then back to liquid (or for those of us in the tundra occasionally solid) state. Ensuring we preserve the water we have is best accomplished by conserving what we use and protecting every drop there is from contamination while simultaneously working to reduce the amount of clear water into the storm and sanitary sewer systems.

Our HOPP on Board initiative will focus on our drinking water, which we pump from the ground, our storm sewer water, and our sanitary sewer water as all three are intertwined. All three components will have Education, Engineering and Enforcement Components.

PROGRAM COMPONENTS

Drinking Water Program Components:

Engineering Components

- Low volume fixtures
- Water Meter Replacement Program – 25 Years Residential; 10/15 Years Commercial
  - System in place but may need slight increase in water rates to fund
- Maintenance/Upgrades as needed to Municipal Water System Components
  - Plan in place, council action occurring as needed
- Energy Audits – Inspections
  - Funding in place to do 60 per year (low flow shower heads)

Enforcement Components

- Odd-Even Sprinkling
  - Existing ordinance in Place
- Tiered Water Rates
  - Existing Ordinance in Place
    - Additional Rates for "Mega Users"

Education Components

- Cost of pumping and treating water
  - Video – In production
  - Infographics – Numerous available and secured
- Conservation behaviors (short showers, not letting faucet run, etc.)
  - Video – In Production
- Web Page
  - In Production, will be completed by January 1

Storm Water Program:

Engineering Components

- Storm Water Drainage System
- Sump Pumps
- Rain Gardens (450)
- Storm Water Retention Ponds (47)
  - Grant to RCWS for Assessment status

Enforcement Components

- Sump Pump discharge
  - Ordinance allowing discharge into storm water
  - Point of Sale Ordinance just adopted includes SP inspection

Education

- How each component works
  - Video, Web Page, Infographics all in production
- Cost of INI
  - Video, Web Page, Infographics all in production
- Sump Pump Discharge
  - Video, Web Page, Infographics all in production

Sanitary Sewer Water Program:

Engineering

- Sanitary Sewer System Components
  - Slip lining of city lines occurring and funding in place
  - Slip lining of lateral via ordinance and voluntary compliant
- Waste Water Treatment Plants
  - Met Council responsibility

Enforcement Components

- Point of Purchase Sale – Inspection and Slip Lining of Lateral
  - Ordinance adopted October 24 meeting
  - Fee schedule needs to be determined
  - Loan application and interest rate
  - Certificate of INI duration

Education

- Cost of INI into system
- Cost to build Sanitary Sewer System
- Cost to Repair Sanitary Sewer System
- Cost to maintain Sanitary Sewer System (equipment, personnel, training, certifications)
- Only PPP flushed down toilet (Poo, Pee, Paper)
  - Videos, infographics, web page all in production.

Funding Needs:

Drinking Water – Slight increase to fund meter replacement otherwise fee sufficiently funding program components.

Storm Water – Current fee along with grants funding program

Sanitary Sewer Water - $250 Fee on Point of Purchase sale and current fee schedule suffice along with Met Council grants for I & I. Additionally, MPSCA and Met Council has low interest loans.

Education for all three - $5,000 to $10,000 per year in the form of video production ($500 each), Flyers, Infographic, Benchmark reports, etc. Can come from cable fund or transfers for each of the three utility funds.

Benchmarks: Yellow currently occurring

Drinking Water

1. On a per capita basis, average yearly consumption declines
2. Positive test results (safe to drink) on regularly scheduled/required tests.
3. Reduction on the Inflow side of INI metering levels
4. Replacements of all water meters – 2% complete

Storm Water

1. 100% of all Sump pumps discharging into storm water system
2. Rain gardens maintained and working as designed
3. Storm Water retention ponds maintained and working as designed
4. Storm Water drainage components maintained and working as designed

Sanitary Sewer

1. Slip lining of a municipal lines – 47% completed
2. Slip lining of manhole structures – 2% done
3. Slip lining of all lateral lines – 0% complete
4. Sanitary Sewer components maintained and working as designed.
5. Reduction on the Infiltration side of INI metering levels
6. Large private systems outflow metering – First of 10+ properties

Internal Staff Plan/Guidance

Action Steps/Items needed:

1. Build web page – Jenny
    a. Reviewed components with Jenny
2. Steal or design infographics – Nyle
    a. Logo done
    b. Design firm contacted 10-16
3. Produce video about program
    a. CTV contacted 10-16
4. Adopt Ordinance on Point of Sale and amend fee schedule
    a. First reading 10-14
5. Increase water rates fee
    a. Occurring
6. Produced education materials
    a. MV Matters – 2019 Winter edition, two articles
    b. Infographic started 10-16
7. Post/Hire new PW employee
    a. Job description done, posting in December
8. Develop plan for water meter replacement (starting with commercial)
9. Develop contractor lists for scoping and repairing Lateral Sewer Lines
10. Develop, Issue and Award RFP for Scoping and repairing Lateral Sewer Lines
11. Research and apply for applicable grants to implement now or in the future
    a. Investigated early October, started grant application from MPCA for zero interest loans.

Implementation Plan:

Phase 1 – Completed by December 31, 2019

1. Ordinance adoption
2. Video Production
3. Web Page
4. Post/Hire new PW employee

Phase II – Launch Program – January 1, 2020 and complete below by March 1, 2020

5. Increase Water Rate Fees
6. Produce Educational Materials
7. Steal/Design Infographics
8. Develop plan for water meter replacement (starting with commercial)
9. Develop contractor lists for scoping and repairing Lateral Sewer Lines
10. Develop, Issue and Award RFP for Scoping and repairing Lateral Sewer Lines

Phase 3 – Research and apply for applicable grants – Ongoing

Video List with objectives

1. HOPP Program
    a. Introduction and Overview of Program
2. Storm Water component
    a. Education of system components, maintenance costs, replacement costs
    b. How system works
3. Well and Treatment Plants
    a. Education of system components, maintenance costs, replacement costs
    b. How system works
4. Sanitary Sewer
    a. Education of system components, maintenance costs, replacement costs
    b. How system works

Infographic List

1. Conservation
    a. Energy Audit
    b. Dripping Fixtures
    c. Cost of Municipal Water
2. Sanitary Sewer INI
    a. Slip Lining
    b. Where does it go
    c. Cost of Sewer system
    d. Point of Purchase Program
    e. INI
3. Storm Water
    a. System Components
    b. Rain Gardens
    c. Sump Pumps