

Sewer Use By-Law / Source Control Program

April 2010



Presentation by:

Nick Benkovich, BES - Director, Water & Wastewater Services;

Akli Ben-Anteur , M.Eng, M.PM, P.Eng – Projects Engineer



Policy Committee Meeting

April 21, 2010



Sewer Use By-law & Source Control Program



- Current situation
- Desired situation
- Source Control Program Plan
- Next Steps





Current Situation



- Existing Sewer Use By-law (1973)
- Contaminants
- Fats, Oils & Grease (FOG)
- High Extraneous Flow Rates





Contaminants

Contaminants:

- Toxic Chemicals
- Heavy Metals
- Personal Care Products & Pharmaceuticals (PPCP's)



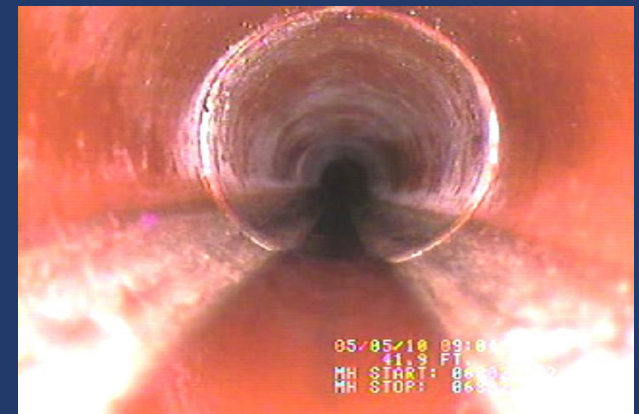


Consequences of Fats, Oils & Grease (FOG)



- Reduced Sanitary System Capacity
- Higher Risk of Back-ups & Spills
- Increased Operating & Maintenance Costs
- Reduced Lifecycle of Sanitary Sewer System

Clean Sewer



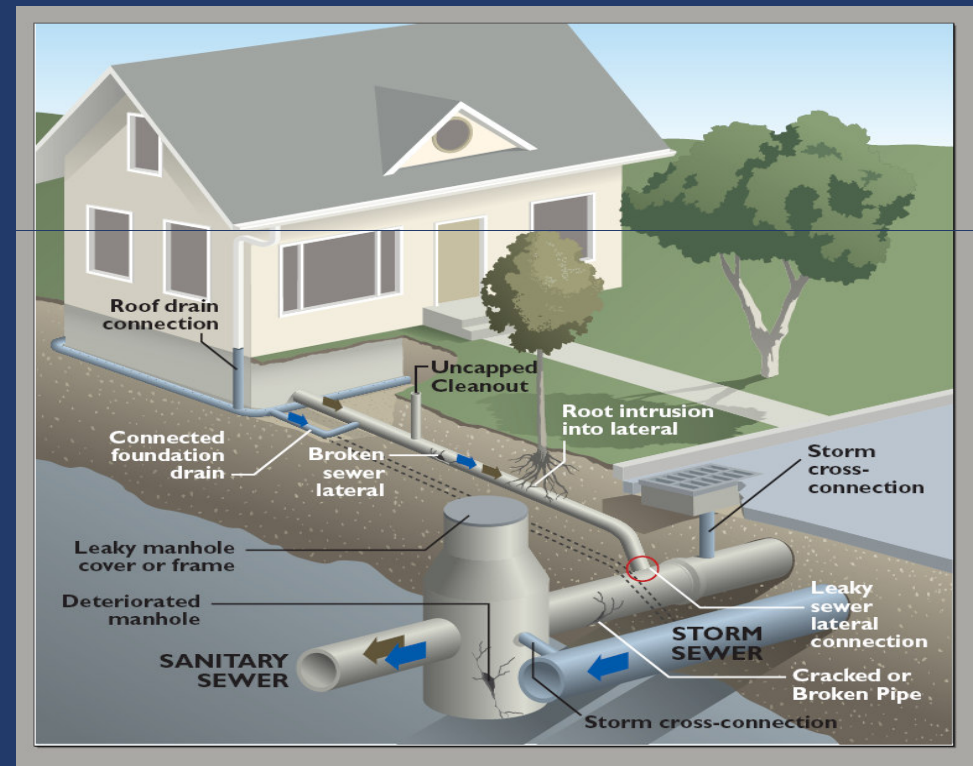
FOG Impacted Sewer





Consequences of Excessive I/I

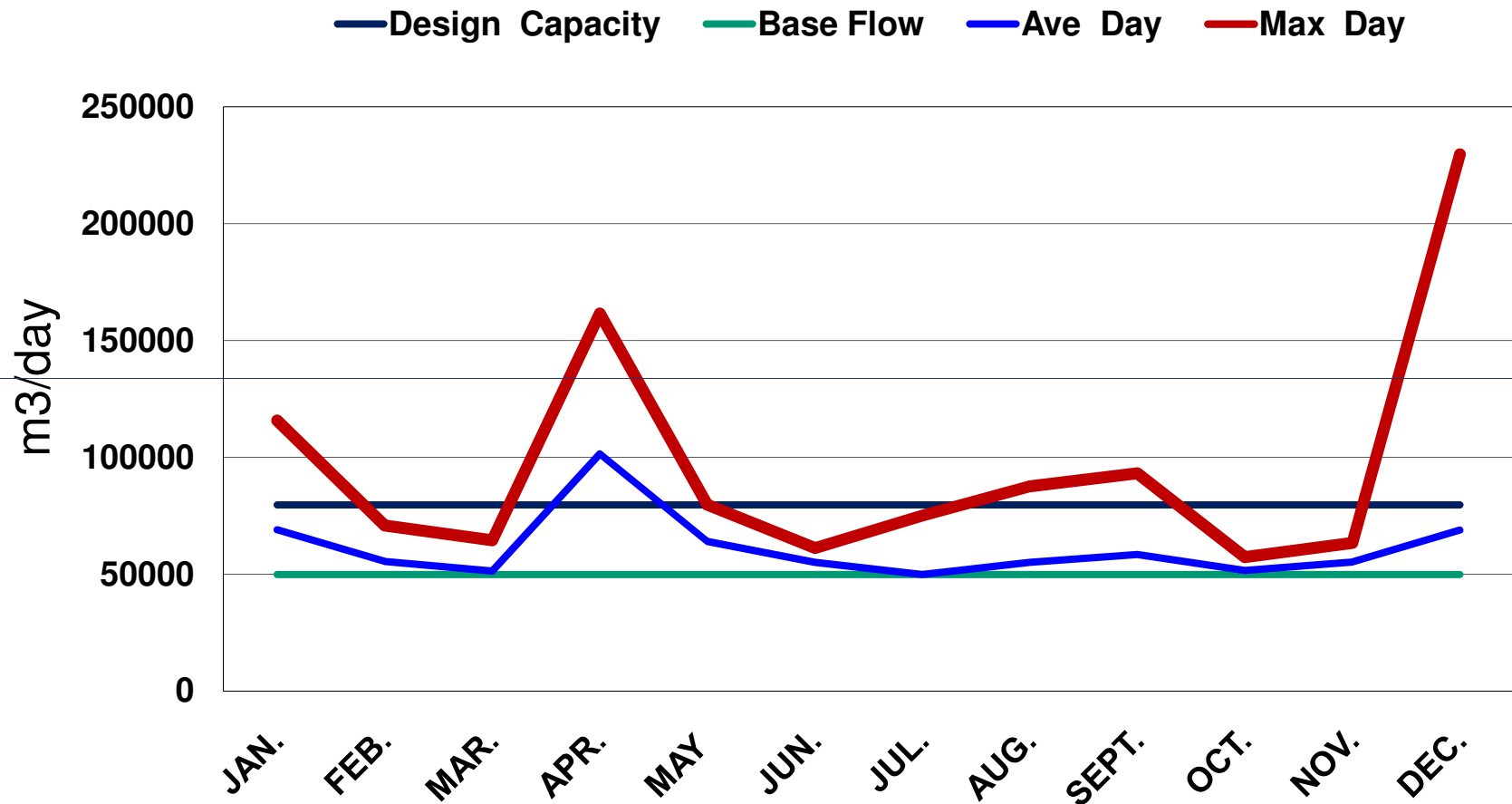
- Overloaded Sanitary Systems
- Higher Risk of Flooding, Spills & Treatment Bypasses
- Increased Operational & Maintenance Costs



CGS Water & Wastewater Treated - 2000 - 2008 (M3)



SUDBURY WASTEWATER PLANT EFFLUENT FLOW 2008





Source Control Program



Pollution Prevention initiative
aimed at....

1. Reducing Contaminant discharges
2. Reducing extraneous flow (I & I)

.... At the source.





Goals of the Proposed Source Control Program



- Enhanced Environmental Protection
- Reduced Risk of Backups, Environmental Spills & Treatment Bypasses
- Better Protection of Employees, Infrastructure & Capacity
- Reduced Capital and O&M costs;
- Improved Customer Service





Source Control Program Elements



- Education & Outreach
- User Inventory & Discharge Authorization
- Best Management Practices
 - Disconnection Programs
 - Compliance Agreements
 - Pollution Prevention Plans
 - Trucked Liquid Waste Management
- Inspection, Monitoring & Enforcement





Next Steps

- Public Input Sessions
- Preparation of final Sewer Use By-law and Source Control Program
- Council Approval of Bylaw
- Implementation over next 18 months





Sewer Use By-Law / Source Control Program 2010



Thank You

Questions