Infiltration / Inflow Control Program (IICP)

*Ongoing maintenance, operation, and rehabilitation effort to identify and remove groundwater infiltration and stormwater inflow sources from the sanitary sewer system.*

- IICP requires sewer system owners to have an accurate, current map of sanitary systems showing extent of service area
- A Geographical Information System (GIS) is preferable to be used for sewer system mapping as it is more efficient to update than paper maps
- Sewer mapping is vital for effective operation and maintenance of sewer systems

- All IICP information can be found at [ii.mwrd.org](http://ii.mwrd.org)
GIS / GPS Assistance

*MWRD is offering GPS units to provide sewer system owners resources to begin mapping their sewer systems in GIS or improve their existing sewer system map.*

- GPS equipment and related software at no cost
- Municipality must own or operate a sanitary sewer system that discharges directly and/or indirectly to District facilities, or own or operate a sewer system in a combined sewer area within the corporate boundaries of the District.
- Sewer system owners must enter into an Intergovernmental Agreement (IGA) with MWRD
- Owners will provide MWRD with their sanitary, storm, and combined sewer data
Leica Zeno 20 Units

- MWRD purchased six Leica Zeno 20 units
- High vertical and horizontal accuracy
- Easy to use
- ESRI ArcGIS Collector App used to collect sewer data
- MWRD provides training documents and if requested field training
GIS / GPS Update

• To be added to the list for the next available GPS unit, submit a letter of intent to Director of Engineering:

  Marcella V. Landis  
  Acting Director of Engineering  
  Metropolitan Water Reclamation District of Greater Chicago  
  100 East Erie Street  
  Chicago, Illinois 60611

• Template IGA and modifiable Letter of Intent on website, wmo.mwrd.org

• Changes proposed to IGA will required MWRD approval
Current Status

• In 2017, MWRD entered into IGAs with seven municipalities
• Four municipalities successfully completed data collection and have returned units
• Three municipalities are currently collecting data
• Currently, three GPS units are available for use
  • One municipality submitted a Letter of Intent
• In March 2018 two more units will become available
• Positive feedback on units
Data Collection

• Units available on a rotating schedule
• Time for data collection varies by municipality
  • Dependent on staff availability (one month to ten months)
• One municipality received a grant from AmeriCorps to provide labor
  • Data collected within one month
• Two municipalities shared one unit
  • Data collected within six months
• Reasonable time extensions may be granted based on availability of units
Questions

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