

Metropolitan Water Reclamation District -ATP Committee
 Draft Ordinance Sections-Requirements

Category	Component	Requirement/Process	Refinements for ATP
Compliance Metrics	<p>0 utcome Based Metrics</p> <ul style="list-style-type: none"> - Education in Basement backups - Education in Wet Weather Sanitary Sewer Overflows 	<ul style="list-style-type: none"> - Elimination of wet weather basement backups under design storm conditions - Establish OHS Service Level Goals - Elimination of sanitary sewer overflow under design storm conditions 	<ul style="list-style-type: none"> - Identified metrics to be developed during short term program consistent with current baseline data to be gathered
	<p>Flow Based Metrics</p> <ul style="list-style-type: none"> - Education in peak wet weather flow from separate sewer areas - Education in annual wet weather flow volume from separate sewer areas 	<ul style="list-style-type: none"> - Education in peak flow to average dry weather flow ratio under design storm conditions (Alternative strategy could be based on maximum peak flow per length of main sewer under design storm conditions) - Education in annual wet weather flow volume 	<ul style="list-style-type: none"> - Equires documentation from II ID on existing interceptor sewer capacity - Equires documentation from II ID on updated cost-effectiveness analysis for wet weather transport and treatment costs
Short Term Program	<p>Public Sector Condition Assessment / Rehabilitation</p> <ul style="list-style-type: none"> - In-hole Inspection, Smoke Testing, Dye Flooding, TV Inspection 	<ul style="list-style-type: none"> - Investigation of all separate sanitary sewer with initial prioritization on areas with reported overflow sand/basement backups areas upstream of reported overflow backups or recent flow monitoring on lift station data - Minimum of 50% of the system to be investigated in short term program without documentation of recent prior investigation or recent flow monitoring data bounding peaking factor - Recode standards for in-hole, smoke, dye and TV inspection - Utilization of ASSCO Defect Coding Standards (ACP, PACP) - Wet season monitoring to prioritize areas for condition assessment based on peak flow to dry weather ratios. Do not need to monitor the design storm to prioritize areas based. Can use relative response to an unforced storm of intensity less than the design storm - Recode standards for flow monitoring - Rehabilitation of all "high priority" defects in in-holes in main sewer and crossconnections with storm sewer/ditches - "High priority" could include all direct/indirect connections from storm sewer to sanitary sewer or II inline defects rated 4 or 5 under ASSCO Coding standards or in-holes with defects rated 4 or 5 under ASSCO Coding standards 	<ul style="list-style-type: none"> - 5 Years for completion of Condition Assessment - Areas with prior investigations with documentation will be excluded from the Condition Assessment requirement - Areas with documented peak flow less than 5:1 peaking factor (peaking factor may be refined) will be excluded from the Condition Assessment requirement - High priority rehabilitation to be completed within 3 years of identification (flexibility to be allowed for local community issues) - Downspout connections (Private Sector) discovered in smoke testing to be remediated within 6 months of identification
	<p>Private Sector Investigation and Rehabilitation</p> <ul style="list-style-type: none"> - Develop Community specific strategy for implementation under long term II ID program - Submit to II ID for review /approval 	<ul style="list-style-type: none"> - II ID to develop "template" for local community to fill in - ATP Committee to have input on "template" requirements 	<ul style="list-style-type: none"> - Lenient initial to II ID within 5 Years
	<p>Develop Long Term II ID Program</p> <ul style="list-style-type: none"> - Develop Community specific strategy - Submit to II ID for review /approval 	<ul style="list-style-type: none"> - II ID to develop "template" for local community to fill in - ATP Committee to have input on "template" requirements 	<ul style="list-style-type: none"> - Lenient initial to II ID within 5 Years
Long Term II ID Program	<p>Flexibility for individual community issues subject to some minimum requirements for all systems</p> <p>Generally following SDP A CII III requirements for sanitary sewer systems</p>		
	<p>GIS Mapping</p>	<ul style="list-style-type: none"> - Update sewer assets and migrate to GIS platform - Incorporate all condition inspection data into GIS - Track locations/frequency/causes of sanitary sewer overflow s/basement backups on GIS 	<ul style="list-style-type: none"> - II ID to evaluate providing assistance on software or implementation
	<p>Asset Management/CII III</p>	<ul style="list-style-type: none"> - Computerized maintenance management system (CII III) for work order processing-preventative and emergency custom service request tracking 	<ul style="list-style-type: none"> - II ID to evaluate providing assistance on software or implementation
	<p>Proactive Program</p> <ul style="list-style-type: none"> - Categorize dry weather overflow s by cause-collapse pipe, deposition, roots R/G, etc. 	<ul style="list-style-type: none"> - Conduct proactive maintenance-cleaning, root removal/treatment, point repairs, lining, etc. on prioritized basin accordance with overflow causes and locations and critical sewer criteria 	<ul style="list-style-type: none"> - Continuous program
	<ul style="list-style-type: none"> - Establish list of critical sewer based on risk based criteria-large diameter, pipe material, rearyard, highway crossings over 7 years old, under stream s/basement/river/etc. - Implement annual rehabilitation program - Flow monitoring 	<ul style="list-style-type: none"> - Incorporate in local community annual CIP Plan - Conduct post-rehabilitation flow monitoring 	
	<p>Emergency/Reactive Program</p> <ul style="list-style-type: none"> - Systematic response to wet weather and dry weather sanitary sewer overflow sand basement backups 	<ul style="list-style-type: none"> - Reporting requirements to be discussed in subsequent meeting of ATP Committee 	
	<p>Public Sector Rehabilitation</p> <ul style="list-style-type: none"> - Annual program based on initial (short term program) investigations plus re-inspections conducted as part of long term plan 	<ul style="list-style-type: none"> - Rehabilitation of in-hole and main sewer defects not completed as "high priority" defects in short term program plus additional defects discovered in ongoing long term program 	
	<p>Private Sector Investigation/Rehabilitation</p> <ul style="list-style-type: none"> - Right of inspection - Determine areas/system subject to investigation - Years to complete inspection - In-hole and/or disconnection - e-Inspection program - Prior investigations/disconnections - Directly connected foundation drains 	<ul style="list-style-type: none"> - Required aspect of all local community sewer ordinances - Determined by local sewer ordinance as part of plan - Determined by local sewer ordinance as part of plan - Determined by local sewer ordinance as part of plan - Prior investigations conducted with documentation will not require inspection - Equires clarification from II ID that directly connected foundation drains will not be required to be removed or a defensible cost-effectiveness analysis that supports that they will be required to be disconnected 	<ul style="list-style-type: none"> - Establish subcommittee during short term implementation process to develop consensus plan - Establish subcommittee during short term implementation process to develop consensus guideline
	<ul style="list-style-type: none"> - Property transfer ordinance - Requirements for service lateral rehabilitation/replacement for lead or non-lead renovation 	<ul style="list-style-type: none"> - If requirement received strong opposition in first draft review by municipal leagues - If requirement received strong opposition in first draft review by municipal leagues 	<ul style="list-style-type: none"> - Reporting requirement versus guideline versus minimum required expenditure? - To be discussed in upcoming ATP meeting on reporting
	<p>Annual Commitment to System Maintenance and Rehabilitation</p>	<ul style="list-style-type: none"> - Total annual budget for labor, equipment, materials, outside services and capital costs for sanitary sewer system maintenance and rehabilitation/replacement 	