FWICC: Water Quality Subcommittee

Priorities	Objectives	Tasks	Metric	% Complete	Timeline
	1. Develop a multi-dimensional approach to addressing lead in water going beyond the requirements of the Lead and Copper Rule	1.1 Identify all lead service lines (Rowe, Dr. Kaufman, Dave Forstat).	All lead service lines identified.	25%	4/1/16
		1.2 Perform full replacement of all lead service lines in a manner that does not cause inadvertent lead disturbance and exposure. Partial replacements will not be performed. (Mike McDaniel)	Percentage of lines replaced.		4/1/18
		1.3 Identify criteria, determine and confirm proper sentinel sites for Tier 1 sampling. (DEQ and City)	DEQ and EPA in agreement that proper sampling sites have been identified for sentential sampling.	50%	5/1/16
		1.4 Coordinate with communication subcommittee to create educational materials, informing residents that there is always a potential for exposure to lead in drinking water from lead bearing plumbing. Corrosion control treatment and lead service line replacement alone does not prevent all leaching of lead from lead solder and components. (OEA)	Materials complete and distributed in multiple ways.		4/4/2016: needs identified; 5/4/2016: final draft for sign off; 6/4/2016: available in multiple languages and distributed
		1.5 Coordinate with communication subcommittee to create an educational outreach program “best practices” that informs property owners and building occupants of preventative measures to reduce lead exposure (before occupying a home that has been vacant; time of sale inspections; free lead water testing) (OEA)	Materials complete and distributed in multiple ways.	15%	5/1/2016: needs identified; 6/4/2016: final draft; 7/11/2016: available in multiple languages and distributed
		1.6 Reach out to the various organizations that are performing lead sampling and the water quality laboratories. Collaborate to host all lead/copper sample result data and their protocol on the Flint Water website. This is to make all data available and transparent on line. (George Krisztian)	MOA for EPA lab data signed and data available on line; Number of organizations or labs participating in addition to EPA.	50%	4/1/2016; 5/1/2016

		1.7 Provide guidance and offer testing at non tier one sites such as what has been done at the Flint Schools and at Flint Food Service Establishments. (OEA?)	Number of facilities that contact DEQ about investigative sampling. Number that follow through by sampling.		ongoing
	2. Establish criteria for lifting the health advisory.	2.1 Share and Review Genesee County Public Health Emergency Declaration with subcommittee. (Dana DeBruyn)	Document distributed to subcommittee.	50%	3/10/16
		2.2 DEQ to assure compliance with the Lead and Copper Rule with the 90th percentile at 15 ppb or less; assure water is optimized for corrosion control; review sentinel sampling data that is collected over first 8-week period of sampling.	The EPA, City, County Health Department, DEQ, and DHHS agree to this criteria and make a joint announcement. Return Flint to historic lead and copper levels.		5/20/2016: Review water samples
		2.3 Review water results with health subcommittee for any correlations. (George Krisztian)	Have data available for data summit for the first week of April		6/1/16
		2.4 Review the March/April 2016 sample results from Mark Edwards' study, compared to the 2015 samples at the same locations, to determine if lead levels have reduced in these 200+ sites	Complete sampling		
		2.5 Coordinate with communication subcommittee to provide information and resources to health care providers on health effects of water related risks beyond lead; Public information that there is always a certain level of risk regarding lead in drinking water due to lead bearing plumbing and fixtures and particulate lead, communicate best practices (for example clean aerators, POU filter use).			
		2.6 Review water sample results from schools after fixture/connecting plumbing replacements complete. (DEQ and DLARA) This has a public outreach component. (Mel Brown)	Schools can use the water.		4/16/16

	3. Create protocols for addressing concerns regarding disinfection residuals to account for seasonal fluctuations throughout the year. Ensure that the disinfection processes does not result in unacceptable disinfection byproduct levels.	3.1 Determine if precursor formation tests are being properly conducted to simulate and project chlorine usage. If not, develop these (City)			
		3.2 Determine if Bench Trials have been started for KWA water. (city develop and approve by EPA and DEQ)			
		3.3 Prioritize the infrastructure improvements identified and outcomes calibrated of hydrological modeling to address tasks that can be performed to reduce chlorine demand within the system. For example, eliminate dead end lines and there will be an improvement in water quality. (LAN report, EPA with CITY)			One year after model is calibrated . It may take a full year to determine highs and lows in the system.
		3.4 Explore “smart city” concept for remote chlorine sensors (and other parameters) throughout the distribution system. This needs a commitment for operation and maintenance. (George Krisztian)			
		3.5 Inform public that a properly operated system will have different levels of chlorine in different parts of the system, and these levels change seasonally.			
	4. Establish a protocol for proactively monitoring for Legionella.	4.1 CDC and Wayne State have active roles in this. Expand tasks as information becomes available . (Jim Henry (GCHD) will coordinate with Dr. Wells and with those sampling and studying)			
		4.2 Include a task about biofilms and/or utilizing best practices			
		4.3 Include a task about guidance for secondary treatment			