

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF MICHIGAN

Melisa Mays, individually and as next friend of three
minor children, Michael Mays, Jacqueline Pemberton,
Keith John Pemberton, Elnora Carthan, and Rhonda Kelso, CLASS ACTION
individually and as next friend of one minor child,
all on behalf of themselves and a class of all others
similarly situated,

Plaintiffs,

Case No. 15-

vs.

Hon.

Governor Rick Snyder, in his official capacity, and the
State of Michigan for prospective relief only; Daniel
Wyant, Liane Shekter Smith, Adam Rosenthal, Stephen
Busch, Patrick Cook, Michael Prysby, Bradley Wurfel all
in their individual capacities; Darnell Earley, Gerald
Ambrose, Dayne Walling, Howard Croft, Michael
Glasgow and Daugherty Johnson in their individual and
official capacities, and the City of Flint, a municipal
corporation, jointly and severally,

Defendants.

William Goodman P14173
Julie H. Hurwitz P34720
Goodman & Hurwitz, PC
1394 E. Jefferson Ave.
Detroit, MI 48207
313-567-6170
bgoodman@goodmanhurwitz.com
jhurwitz@goodmanhurwitz.com

Trachelle C. Young P63330
Trachelle C Young & Associates
PLLC
2501 N Saginaw St
Flint, MI 48505-4443
810-239-6302
trachelleyoung@gmail.com

Michael L. Pitt P24429
Cary S. McGehee P42318
Beth M. Rivers P36614
Pitt McGehee Palmer & Rivers, PC
117 W. Fourth Street, Suite 200
Royal Oak, MI 48067
248-398-9800

mpitt@pittlawpc.com
cmcgehee@pittlawpc.com
brivers@pittlawpc.com

**COMPLAINT FOR INJUNCTIVE AND DECLARATORY RELIEF
MONEY DAMAGES AND JURY DEMAND**

INTRODUCTORY STATEMENT

1. This class action is pursued on behalf of tens of thousands of residents (“Class”) of the City of Flint (“Flint”), who from April 25, 2014 to the present, have experienced and will continue to experience serious personal injury and property damage caused by Defendants’ deliberate decision to expose them to the extreme toxicity of water pumped from the Flint River into their homes, schools, hospitals, workplaces and public places.

2. Defendants, who are all state of Michigan (“State”) or Flint government employees, acting under the color of law, deliberately deprived Plaintiffs and the Plaintiff Class of the rights and guarantees secured by the 14th Amendment to the United States Constitution in that they deprived Plaintiffs of life, liberty and property without due process of law when they took from Plaintiffs safe drinking water and replaced it with what they knew to be a highly toxic alternative solely for fiscal purposes.

3. “For more than 18 months, state and local government officials ignored irrefutable evidence that the water pumped from the Flint River exposed the

Plaintiffs and the Plaintiff Class to extreme toxicity, causing serious and dire injury and health hazards, and property damage to the Flint water users. These state and local officials, Defendants herein, regularly assured the Flint water users that the water supplied from the Flint River was being properly treated, monitored and tested and was safe to consume and use. Information obtained through the Freedom of Information Act establishes that many of these assurances were known to be false when uttered: state and local officials were not properly monitoring or sampling the Flint River water and delayed in notifying the public of serious safety and health risks in a knowing and deliberate effort to conceal the truth from those who were being poisoned. The deliberately false denials about the safety of the Flint River water was as deadly as it was arrogant.”

4. The massive personal and property injuries experienced by Plaintiffs and the Class, and the ensuing environmental disaster, reaches constitutional proportions because defendants, acting under the color of law, both created and increased the risk of prolonged serious and life threatening dangers to Plaintiffs and the Class where none existed before.

5. The state and local government officials, Defendants herein, who made the decision to replace safe water with an alternative that created toxic water, violated the constitutional rights of Plaintiffs and Plaintiff Class members by acting

in a manner that shocks the conscience and was deliberately indifferent to the those constitutional rights, as well as to the health and well-being of the Plaintiffs.

JURISDICTION AND VENUE

6. This is a civil action brought pursuant to 42 U.S.C. § 1983 seeking injunctive and declaratory relief together with monetary damages against Defendants for violation of Fourteenth Amendment of the United States Constitution.

7. This Court has jurisdiction pursuant to 28 U.S.C. § 1331, which authorizes federal courts to decide cases concerning federal questions; 28 U.S.C. § 1343(a)(3) and (4), which authorizes federal courts to hear civil rights cases; and 28 U.S.C. § 2201, the Declaratory Judgment Act. This Court has personal jurisdiction over Defendants named herein as public officials of the State of Michigan sued in their individual capacities and public officials, employees of the City of Flint sued in their official and individual capacities and the City of Flint for violations of plaintiffs' constitutional rights. Similarly, the Court has jurisdiction over the Governor of the State of Michigan, in his official capacity, for prospective relief, exclusively.

8. Venue is proper in this Court as Defendants conduct their business in the Eastern District of Michigan.

PARTIES

A. PLAINTIFFS

9. Plaintiff representatives are citizens of the United States and at all relevant times were residents of Flint – individuals, home owners, parents and minors – who, since April 25, 2014, were and continue to be exposed to highly dangerous conditions created, caused and prolonged by Defendants’ deliberate decision to replace safe drinking water supplied by the City of Detroit’s water system with the extreme toxicity resulting from water pumped from the Flint River; and these Defendants continued failure to remediate these dangers notwithstanding their knowledge thereof. Plaintiffs bring this action on behalf of themselves and a Class of individuals who were injured in their persons or their property after April 25, 2014 because of their exposure to the toxic water pumped from the Flint Rivers.

B. DEFENDANTS

10. All individual Defendants are sued in their individual and/or official capacities as indicated below.

11. Defendant Rick Snyder is the Governor of the State of Michigan and is invested with executive power pursuant to Art. V, Section 1 of the Michigan Constitution. The Governor, is responsible for the management of state government for the health and welfare of its citizens and residents and is sued by plaintiffs and the Class in his official capacity exclusively for prospective equitable relief to correct the harm caused and prolonged by state government and to prevent future injury.

12. Defendant State of Michigan operates its Department of Environmental Quality ("MDEQ"), which is responsible for overall management of the state department responsible for the environmental safety and health of Michigan citizens and residents. The State is sued because, acting through MDEQ, it made the final decision that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

13. Defendant Daniel Wyant ("Wyant") currently is and at all relevant times was Director of MDEQ and is sued by Plaintiffs and the Plaintiff Class in his individual capacity because he was aware of and participated in the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

14. Liane Shekter Smith ("Smith") was at all relevant times Chief of the Office of Drinking Water and Municipal Assistance for MDEQ, holding that position until October 19, 2015 when she was removed because of "mistakes" in the manner in which the Flint water crisis was handled. Smith is individually liable because during her term, as Chief of Drinking Water for MDEQ, she approved of, and thereby participated in, the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

15. Adam Rosenthal ("Rosenthal") was at all relevant times a Water Quality Analyst assigned to the Lansing District Office of the MDEQ. Rosenthal is individually liable because, as Water Quality Analyst for MDEQ, he approved of, and thereby participated in, the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

16. Stephen Busch ("Busch") was at all relevant times District Supervisor assigned to the Lansing District Office of the MDEQ. Busch is individually liable because as District Office Supervisor of MDEQ he deliberately created, increased and prolonged the hazards by falsely reporting that anti-corrosive agents had been used to treat the highly corrosive Flint River water thereby enhancing the threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

17. Patrick Cook ("Cook") was at all relevant times Water Treatment Specialist assigned to the Lansing Community Drinking Water Unit of the MDEQ. Cook is individually liable because, as Water Treatment Specialist District of MDEQ, he approved of, and thereby participated in, the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

18. Michael Prysby ("Prysby") was at all relevant times Engineer assigned to District 11 (Genesee County) of the MDEQ. Prysby is individually liable because

as Engineer assigned to District 11 because he approved of, and thereby participated in, the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

19. Bradley Wurfel ("Wurfel") was at all relevant times was the Director of Communications for MDEQ. Wurfel is individually liable because as Director of Communications he was responsible for the deliberate misleading and inaccurate communications that increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

20. Darnell Earley ("Earley") was the Emergency Manager appointed by the Governor on November 1, 2013 and served in this capacity until January 12, 2015. Earley is individually liable because during his term as Emergency Manager of Flint he deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

21. Gerald Ambrose ("Ambrose") was the Emergency Manager appointed by the Governor on January 13, 2015 and served in this capacity until April 28, 2015. Ambrose is individually liable because during his term as Emergency Manager of Flint he deliberately increased and prolonged the hazards, threats and dangers that

arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

22. Dayne Walling ("Walling") was at all relevant times Mayor of Flint from August 4, 2009 until November 9, 2015 when he was unseated by Karen Weaver. Walling is individually liable because, as Mayor, he approved of, and thereby participated in, the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

23. Howard Croft ("Croft") was at all relevant times Director of Public Works for the City of Flint. Croft is individually liable because as Director of Public Works, he approved of, and thereby participated in, the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

24. Michael Glasgow ("Glasgow") was at all relevant times Utilities Administrator for the City of Flint. Glasgow is individually liable because as Utilities Administrator, he deliberately created, increased and prolonged the hazards of using Flint River water because he provided the MDEQ with misleading and inaccurate reports about the threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

25. Daugherty Johnson was at all relevant times the Utilities Administrator for the City of Flint. Johnson is individually liable because, as Utilities

Administrator, he approved of, and thereby participated in the decisions that deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

26. The City of Flint is a municipal corporation, so authorized by the laws of the State of Michigan that operates Department of Public Works and provides water to its residents and property owners as part of its responsibilities and services. The City of Flint is liable because, despite the protests of a number of elected and appointed officials within the organization, the municipal corporation itself, through its policy makers, deliberately created, increased and prolonged the hazards, threats and dangers that arose by replacing of safe drinking washing and bathing water with a highly toxic alternative.

STATEMENT OF FACTS REGARDING THE MAYS FAMILY

27. Plaintiff Melissa Mays, age 37, is married to plaintiff Michael Mays, age 40 and is mother and next friend of three minor children, ages 17, 12, and 11.

28. The Mays family at all relevant times lived in a single family home built around 1910 on Beecher Street in Flint.

29. Melissa and Michael Mays were the equitable owners of the home located on Beecher Street.

30. From April 18, 2014 until approximately September, 2014, members of the Mays family, unaware of the toxic nature of the tap water supplied by Flint,

regularly used the water for drinking, cooking, washing, bathing and clothes washing.

31. In September, 2014 the Mays family, in response to an advisory to boil all drinking water coming from their taps, discontinued drinking or cooking with the water supplied by Flint. The family was led to believe that the water would still be safe for washing, bathing and clothes washing. The family continued to wash, bathe and wash clothing with the water until the summer of 2015 when the family became aware of the highly toxic and deleterious nature of the supplied water.

32. As a proximate result of Defendants actions, as set forth herein, members of the Mays family have experienced serious physical and emotional injury due to their exposure to the toxic water, including but not limited to:

- a. High levels of lead and copper in their bloodstreams, brains, bones and other organs;
- b. Skin lesions and hair loss;
- c. Chemical induced hypertension;
- d. Autoimmune disorder;
- e. Neurological disorders such as "brain fog", seizure like convulsions, vision loss, memory loss;
- f. Psychological disorders such as depression, chronic anxiety, post-traumatic stress disorder and an inability to cope with normal stress.

33. Melissa and Michael Mays have experienced property damage in the nature of irreparably damaged service line pipes resulting from Flint's use of Flint

water without use of an anti-corrosive agent; as well, they have sustained substantial loss in the value of their property.

STATEMENT OF FACTS REGARDING THE PEMBERTON FAMILY

34. Keith John Pemberton and Jacqueline Pemberton are 67 and 66 years old and live on Custer Street in Flint.

35. The Pembertons own the home on Custer Street.

36. As a proximate result of Defendants actions, as set forth herein, the Pembertons have experienced property damage in the nature of irreparably damaged service line pipes resulting from Flint's use of Flint water without use of an anti-corrosive agent, as well as the substantial loss in the value of their property. They have experienced serious physical and emotional injury due to their exposure to the toxic water, including but not limited to:

- a. High levels of lead and copper in their bloodstreams, brains, bones and other organs;
- b. Skin lesions and hair loss;
- c. Neurological disorders such as "brain fog", seizure like convulsions, vision loss, memory loss;
- d. Chronic and acute abdominal and stomach discomfort;
- e. Psychological disorders such as depression, chronic anxiety and an inability to cope with normal stress.

STATEMENT OF FACTS REGARDING ELNORA CARTHAN

37. Elnora Carthan is a 70 year old widow who lives alone at, a home she owns in Flint and where she has lived since 1976.

38. In April, 2014, after the actions of these Defendants caused her water to become highly toxic, when it had once been safe and nourishing, Ms. Carthan began to boil her water but also continued to cook with it and to wash and bathe with it.

39. Finally, in August, 2015, the opportunity arose for her to have her water tested for the presence of lead and other metals. This opportunity arose due to the efforts of Virginia Polytechnic Institute and State University ("Virginia Tech"), notwithstanding the continuous denials and roadblocks to such testing posed by these Defendants. As a result, she determined that the lead levels in her water vastly exceeded anything close to acceptable and were, in fact, extremely dangerous.

40. As a proximate result of Defendants actions, as set forth herein, Ms. Carthan has suffered property damage as well as a loss in the value of her property.

41. As a proximate result of Defendants actions, as set forth herein, Ms. Carthan has experienced serious physical and emotional injury due to her exposure to the toxic water, including but not limited to:

- a. Skin lesions and dermatologic pathology;
- b. Neurological disorders, including but not limited to constant exhaustion and memory loss;
- c. Chronic and acute respiratory disorders including, but not limited to, chronic rhinitis;

- d. Psychological disorders such as depression, chronic anxiety, post-traumatic stress disorder and an inability to cope with normal stress.

STATEMENT OF FACTS REGARDING THE KELSO FAMILY

42. Rhonda Kelso is a 52 year old woman who suffers from several disabilities, including the results of a stroke, spastic paraparesis and bi-polar disorder. She owns her home located in Flint. She and her family have lived in that home since 1993.

43. As a result of the toxicity in the water, these Defendants have caused massive damage to the water pipes in the Keslo home, causing extreme disruption, inconvenience, discomfort and emotional distress.

44. Ms. Kelso lives at the aforementioned home with her minor daughter "K.E.K." who is 12 years old. K.E.K. is a special needs student in school and suffers from a number of disabilities including, but not limited to hearing impairment, cardiac problems, and developmental delays involving speech and language.

45. Both Rhonda Kelso and K.E.K. drank the toxic water from April, 2014 until the Autumn of 2014. They bathed, washed and cooked with the water until at least January, 2015.

46. As a proximate result of Defendants actions, as set forth herein, Ms. Kelso has suffered a loss in the value of her property.

47. As a proximate result of Defendants actions, as set forth herein, Ms. Kelso has experienced serious physical and emotional injury due to her exposure to the toxic water, including but not limited to:

- a. Skin lesions and dermatologic pathology, including hair loss;
- b. Chronic throat and respiratory disorders, including aggravation of asthma;
- c. Aggravation of the pre-existing conditions and disabilities, referenced above;
- d. Psychological disorders such as depression, chronic anxiety, post-traumatic stress disorder and an inability to cope with normal stress, all due in part to the injuries and damage caused to her daughter K.E.K., as set forth below.

48. As a proximate result of Defendants actions, as set forth herein. K.E.K. has experienced serious physical and emotional injury due to her exposure to the toxic water, including but not limited to:

- a. Heightened levels of lead in her blood;
- b. Inability to overcome her developmental disorders, particularly speech and language development and, to some extent, a worsening of those disorders;
- c. Aggravation of the pre-existing conditions and disabilities, referenced above;
- d. Psychological and emotional problems.

**STATEMENT OF FACTS REGARDING DEFENDANTS' DECISION TO
REPLACE SAFE DRINKING WATER WITH A TOXIC ALTERNATIVE**

49. From 1964 to 2014, Flint water users received their water from Lake Huron via the Detroit water system.

50. During this 50 year span, the Flint water users enjoyed safe, clean, fresh water in their homes, businesses, hospitals other places of public services.

51. In 2011, Flint government officials commissioned a study to determine if the Flint River could be safely used by the city as the primary source of drinking water for its more than 31,000 users.

52. According to recent media reports, the report stated that the water from the Flint River was highly corrosive and could not be used safely without an anti-corrosive agent to prevent lead, copper and other heavy metals from leaching from lead, copper and iron based water lines.

53. According to recent media reports, in 2013, Flint government officials delivered to MDEQ the report that stated and warned that the Flint River water was highly corrosive and could not be used as a primary source of drinking water unless treated with anti-corrosive agents.

54. In March, 2013, the Flint City Council approved a resolution to secure future water service from a regional water authority known as the Karegnondi Water Authority ("KWA") scheduled to become operational in 2016.

55. In April 2014, although safe water from Detroit remained available on a temporary basis until the KWA became operational two years later, Flint Emergency Manager at the time Defendant Earley ordered Flint to draw water from

the Flint River, even though he knew that the water was highly corrosive and dangerous to people and property when distributed without proper anti-corrosive treatment.

56. According to recent media reports, defendants had been informed by the 2011 report that use of the Flint River water, without a proper anti-corrosive treatment, would create a condition dangerous to health and property.

57. Beginning in April 2014, Defendants were fully aware that the required and necessary anti-corrosive was not being used in during the distribution of Flint River water to Flint residents, families and home owners.

58. It has been estimated that the daily cost of the anti-corrosive agent would have been \$60.

59. Flint water users, having enjoyed decades of safe, clean and fresh water via the Detroit water system, knew almost immediately after the switch to Flint River water that something was not right about this new water supply.

60. Within days after the switch, Defendants began receiving complaints from water users that the water was cloudy and foul in appearance, taste and odor.

61. During the next 8 months, Flint water users expressed their concerns about water quality in a multiple of ways including letters, emails and telephone calls to Flint and MDEQ officials, the media and through well publicized demonstrations on the streets of Flint.

62. After 8 months of undertaking this failed “experiment,” the only reasonable response to the mounting complaints would have been to reconnect the Flint water system to the Detroit water system. Instead, Defendants ignored the protests, went into deliberate denial mode, offered ineffective solutions and continued to falsely reassure and insist that the water was safe even though they knew that the foul taste, odor and appearance probably was the result of using highly corrosive Flint River water, untreated with the proper anti-corrosive agents, which caused particulate lead to contaminate the water.

63. Beginning almost immediately after the Flint River became the primary source of water for the Flint users, the MDEQ and Flint officials were aware of elevated levels of Trihalomethanes (“TTHM”) in the water and that these levels were above the legal limit.

64. After about 7 months of elevated TTHM levels, Flint water users received a notice in January, 2015 from Flint stating that the water was not in compliance with the federal Safe Drinking Water Act because unlawful levels of TTHMs.

65. Within a few weeks of the issuance of the TTHM notice, Flint City Council members approached Emergency Manager Defendant Earley demanding that a reasonable response to the health risks would be that Flint should reconnect with Detroit water. Earley refused to act as requested by members of the City Council.

66. At this same time, representatives of the Detroit water system expressed interest in re-establishing a relationship with Flint and offered to waive the \$4 million re-connect fee in order re-establish the relationship. Defendant Earley rejected this initiative, and deliberately continued to mislead Flint residents to believe that their water was safe.

67. On January 20, 2015, citizen protests mounted, fueled in part by encouragement from environmental activist Erin Brockovich and her associate, water expert Bob Bowcock. These advocates offered advice and assistance to the protesting Flint water users who were now very concerned about the health risks they faced by this toxic water.

68. On January 13, 2015, Earley left his position as Emergency Manager and was replaced by Emergency Manager Ambrose. On January 29, 2015, Detroit Director of Water offered to Emergency Manager Ambrose another opportunity to protect Plaintiffs and the Plaintiff Class from known dangers and to use Detroit water. Notwithstanding Detroit's overture, Emergency Manager Ambrose rejected this offer, and deliberately continued to mislead Flint residents to believe that their water was safe.

69. On February 17, 2015, Flint water users staged public demonstrations demanding that Flint re-connect with Detroit. Once again Ambrose refused to restore Detroit water for Flint water users and deliberately continued to endanger Plaintiffs and Plaintiff Class.

70. In the meantime, and according to emails received via the Freedom of Information Act, the MDEQ (including named Defendants from that agency) knew that Flint residents were being exposed to particulate lead on a daily basis. Moreover, MDEQ representatives, including named Defendants, knew that inaccurate test results were providing false assurance to residents about the true lead levels in the water.

71. On March 25, 2015, Flint City Council voted to re-connect to Detroit's water system. Ambrose rejected this vote and continued to refuse to re-connect the Flint system back to the Detroit water system.

72. In June of 2015, EPA representative Miquel Del Toral wrote a detailed memo outlining numerous dangerous problems with the water being pumped from the Flint River including unacceptable levels of lead. This report was shared with MDEQ defendants Shekter-Smith, Cook, Busch and Prysby.

73. During the spring and summer of 2015, Professor Marc Edwards ("Professor Edwards") and other experts from Virginia Tech tested 277 drinking water samples and found that 10% of the samples had lead levels of 25 parts per billion (ppb), substantially in excess of the federal action level of 15 ppb.

74. Professor Edwards also determined that the Flint River water was 19 times more corrosive than the water pumped from Lake Huron by the Detroit water system.

75. When Professor Edwards published the results of his studies, demands for the re-connecting to the Detroit water system started to be made to the Defendants. These demands came from national and regional public interest groups such as the ACLU of Michigan, the Natural Resources Defense Council and local public interest groups such as the Michigan Chapter of the National Conference Black Lawyers, NAACP-Michigan State Conference, Michigan Nurses Association, Democracy Defense League Water Task Force, Water You Fighting For, Concerned Pastors for Social Action, Coalition for Clean Water and other similar public interest groups.

76. At this time, public interest groups investigating the growing crisis noted that Flint did not have records of which user had or did not have lead service pipes or plumbing. Flint was required by Federal law to maintain these records so that Flint and the MDEQ could alter those users who were most at risk and that proper testing could be carried out. The absence of these required records was increasing the risk of harm to many Flint water users.

77. In addition, Dr. Mona Hanna-Attisha MD of Hurley Hospital demonstrated a dramatic and dangerous spike in elevated blood lead levels in a large cohort of Flint children corresponding with the time of exposure to the highly corrosive Flint River water. Her disturbing results were published in August of 2015.

78. Faced with overwhelming evidence that the water was unsafe to drink and a source of lead poisoning for the children of Flint and other vulnerable persons,

Genesee County Health Officials, on October 1, 2015, issued a public health emergency advising Flint residents not to drink the tap water.

79. Although reconnecting to the Detroit water system was the only reasonable option to protect the health and safety of the Flint water users, and this option should have been exercised within weeks of the appearance of the foul water, Defendants deliberately chose not to do so. Instead, on October 2, 2015, state officials announced that the State would provide water filters to Flint water users in a useless effort to ameliorate the problem.

80. On October 8, 2015, Defendant Snyder recognized that he could no longer pretend that the water from the Flint River was safe. He finally ordered Flint to re-connect with the Detroit water system.

81. However, based on information and belief, due to the prolonged exposure of contaminated water without adequate anti-corrosive agents, Plaintiffs and Plaintiff Class members continue to be exposed to toxic water until such time that pipes and services lines that were damaged by corrosive water from the Flint River can be replaced.

CLASS ALLEGATIONS

82. This action is brought by the named Plaintiffs on behalf of individuals who from April 25, 2014 to present were exposed to toxic Flint water and experienced an injury to their person or property or who in the future will be so injured.

83. The number of injured individuals who have been injured by exposure to toxic Flint water is in the tens of thousands. The number of class members is sufficiently numerous to make class action status the most practical method for Plaintiffs to secure redress for injuries sustained and class wide equitable relief.

84. There are questions of law and fact raised by the named Plaintiffs' claims common to, and typical of, those raised by the Class they seek to represent.

85. The violations of law and resulting harms alleged by the named Plaintiffs are typical of the legal violations and harms suffered by all Class members.

86. Plaintiff Class representatives will fairly and adequately protect the interests of the Plaintiff class members. Plaintiffs' counsel are unaware of any conflicts of interest between the class representatives and absent class members with respect to the matters at issue in this litigation; the class representatives will vigorously prosecute the suit on behalf of the Class; and the class representatives are represented by experienced counsel. Plaintiffs are represented by attorneys with substantial experience and expertise in complex and class action litigation involving personal and property damage.

87. Plaintiffs' attorneys have identified and thoroughly investigated all claims in this action, and have committed sufficient resources to represent the Class.

88. The maintenance of the action as a class action will be superior to other available methods of adjudication and will promote the convenient administration of justice. Moreover, the prosecution of separate actions by individual members of the

Class could result in inconsistent or varying adjudications with respect to individual members of the Class and/or one or more of the Defendants.

89. Defendants have acted or failed to act on grounds generally applicable to all Plaintiffs, necessitating declaratory and injunctive relief for the Class.

COUNT I-CAUSE OF ACTION: VIOLATION OF 42 U.S.C. § 1983
SUBSTANTIVE DUE PROCESS – STATE CREATED DANGER
PLAINTIFFS V ALL DEFENDANTS

90. The due process clause of the 14th Amendment provides that the state may not deprive a person of life, liberty or property without due process of law.

91. These Defendants deliberately withdrew water that was safe for drinking, cooking, washing and bathing from Plaintiffs and the Plaintiff Class. They deliberately exposed Plaintiffs and the Plaintiff Class to dangerous, unsafe and untreated (or inadequately treated) Flint River water knowing that it could and would result in widespread permanent serious damage caused by the toxic water including the irreversible lead poisoning of children and other vulnerable persons. This conduct was culpable in the extreme.

92. Plaintiffs and Class Members were foreseeable victims of the decision to replace safe water with a toxic alternative.

93. The decisions and actions to deprive Plaintiffs and the Plaintiff Class of clean and healthy water and to replace that water with toxic, unhealthy and unsafe water constituted affirmative acts that caused and/or increased the risk of harm, both

property damage, as well as physical and emotional injury, to Plaintiffs and Plaintiff Class.

94. At all times herein Defendants acted under color of law.

95. The unconstitutional acts of Earley and Ambrose as Emergency Managers executes a policy statement or decision officially adopted by the City of Flint.

96. As a direct and proximate result of the unconstitutional acts of Defendants as alleged in this complaint, Plaintiffs and Plaintiff Class members have experienced serious and in some cases life threatening and irreversible bodily injury; Plaintiffs and Plaintiff Class members have and will incur substantial economic losses in the nature of medical expenses, lost wages; Plaintiffs and Plaintiff Class members are entitled to an award of non-economic damages in the nature of pain and suffering, embarrassment, outrage, mental anguish, fear and mortification, and stress related physical symptoms such as sleepiness, gastro-intestinal discomfort, neuropathy and similar symptoms.

97. Plaintiffs and Plaintiff Class members have experienced property damage to the homes and places of business in the nature of lost property value and seek damages to remediate the permanent damage caused by the use of corrosive water without proper anti-corrosive treatment.

98. The conduct of Defendants was reckless and outrageous, entitling Plaintiffs and Plaintiff Class members to an award of punitive damages.

COUNT II -CAUSE OF ACTION: VIOLATION OF 42 U.S.C. § 1983
SUBSTANTIVE DUE PROCESS – BODILY INTEGRITY
PLAINTIFFS v ALL DEFENDANTS

99. The due process clause of the 14th Amendment includes an implied right to bodily integrity.

100. Defendants violated Plaintiffs' and Plaintiff Class members' right to bodily integrity, insofar as:

- a. Defendants a duty to protect Plaintiffs and Plaintiff Class members from a foreseeable risk of harm from contaminated water;
- b. Defendants knew of the serious medical risks associated with exposure to contaminated water;
- c. Defendants failed to protect Plaintiffs and Plaintiff Class members from the known risks associated with exposure to contaminated water; and
- d. Plaintiffs and Plaintiff Class members suffered bodily harm as a result of their exposure to contaminated water.

101. Defendants' conduct in exposing Flint residents to toxic water was so egregious and so outrageous that it shocks the conscience. Defendants had time for deliberation in their decisions to expose Flint residents to toxic water, and their decision to do so was made with deliberate indifference to the serious medical risks.

102. As a direct and proximate result of the unconstitutional acts of Defendants as alleged in this complaint, Plaintiffs and Plaintiff Class members have

experienced serious and in some cases life threatening and irreversible bodily injury; Plaintiffs and Plaintiff Class members have and will incur substantial economic losses in the nature of medical expenses, lost wages; Plaintiffs and Plaintiff Class members are entitled to an award of non-economic damages in the nature of pain and suffering, embarrassment, outrage, mental anguish, fear and mortification, and stress related physical symptoms such as sleepiness, gastro-intestinal discomfort, neuropathy and similar symptoms.

103. The conduct of Defendants was reckless and outrageous, entitling Plaintiffs and Plaintiff Class members to an award of punitive damages.

RELIEF REQUESTED

Accordingly, plaintiffs request the following relief from the court:

- a. An order certifying this case as a Class Action;
- b. An order declaring the conduct of defendants unconstitutional;
- c. An order of equitable relief to remediate the harm caused by defendants unconstitutional conduct including repairs or property, establishment of as medical monitoring fund and appointing a monitor to oversee the water operations of Flint for a period of time deemed appropriate by the court;
- d. An order for an award of compensatory damages;
- e. An order for an award of punitive damages;

- f. An order for an award of actual reasonable attorney fees and litigation expenses;
- g. An order for all such other relief the court deems equitable.

Respectfully submitted,

By: /s/ Michael L. Pitt P24429
Michael L. Pitt P24429
Cary S. McGehee P42318
Beth M. Rivers P36614
Pitt McGehee Palmer & Rivers, PC
117 W. Fourth Street, Suite 200
Royal Oak, MI 48067
248-398-9800
mpitt@pittlawpc.com
cmcgehee@pittlawpc.com
brivers@pittlawpc.com

Dated: November 13, 2015

UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF MICHIGAN

Melisa Mays, individually and as next friend of three
minor children, Michael Mays, Jacqueline Pemberton,
Keith John Pemberton, Elnora Carthan, and Rhonda Kelso, CLASS ACTION
individually and as next friend of one minor child,
all on behalf of themselves and a class of all others
similarly situated,

Plaintiffs,

Case No. 15-

vs.

Hon.

Governor Rick Snyder, in his official capacity, and the
State of Michigan for prospective relief only; Daniel
Wyant, Liane Shekter Smith, Adam Rosenthal, Stephen
Busch, Patrick Cook, Michael Prysby, Bradley Wurfel all
in their individual capacities; Darnell Earley, Gerald
Ambrose, Dayne Walling, Howard Croft, Michael
Glasgow and Daugherty Johnson in their individual and
official capacities, and the City of Flint, a municipal
corporation, jointly and severally,

Defendants.

William Goodman P14173
Julie H. Hurwitz P34720
Goodman & Hurwitz, PC
1394 E. Jefferson Ave.
Detroit, MI 48207
313-567-6170
bgoodman@goodmanhurwitz.com
jhurwitz@goodmanhurwitz.com

Trachelle C. Young P63330
Trachelle C Young & Associates
PLLC
2501 N Saginaw St
Flint, MI 48505-4443
810-239-6302
trachelleyoung@gmail.com

Michael L. Pitt P24429
Cary S. McGehee P42318
Beth M. Rivers P36614
Pitt McGehee Palmer & Rivers, PC
117 W. Fourth Street, Suite 200
Royal Oak, MI 48067
248-398-9800
mpitt@pittlawpc.com
cmcgehee@pittlawpc.com

brivers@pittlawpc.com

DEMAND FOR TRIAL BY JURY

Plaintiffs demand a trial by jury as to all those issues triable as of right.

Respectfully submitted,

By: /s/ Michael L. Pitt P24429

Michael L. Pitt P24429

Cary S. McGehee P42318

Beth M. Rivers P36614

Pitt McGehee Palmer & Rivers, PC

117 W. Fourth Street, Suite 200

Royal Oak, MI 48067

248-398-9800

mpitt@pittlawpc.com

cmcgehee@pittlawpc.com

brivers@pittlawpc.com

Dated: November 13, 2015

Rennaker, Joanne (DEQ)

From: Elmer R. Hess <ehess@audgen.michigan.gov>
Sent: Friday, December 11, 2015 10:44 AM
To: Rosenthal, Adam (DEQ); Brandon, McAndrew (OAG)
Subject: RE: Flint lead/copper sampling pool

Thank you so much for your assistance.

Elmer

From: Rosenthal, Adam (DEQ) [mailto:ROSENTHALA@michigan.gov]
Sent: Friday, December 11, 2015 10:23 AM
To: Elmer R. Hess <ehess@audgen.michigan.gov>; Brandon M. McAndrew <bmcandrew@audgen.michigan.gov>
Subject: Flint lead/copper sampling pool

First sample collected for the lead/copper rule by the City of Flint was on 4/22/92.

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

Rennaker, Joanne (DEQ)

From: Brent Wright <bwright@cityofflint.com>
Sent: Wednesday, December 09, 2015 2:37 PM
To: Prysby, Mike (DEQ)
Cc: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ); Michael Glasgow; Natasha Henderson
Subject: Phosphate Feed System

Mike,

As of 1:45pm today the Phosphate feed system at the Water Plant is up and running. The feed rate is set at 2.5mg/l as PO4-3. If you have any questions please give me a call.

Thank you.

--

Brent Wright
Water Plant Supervisor
City of Flint
4500 N. Dort Hwy.
Flint, MI. 48505
Ph: 810.787.6537 ext. 3510
Fx: 810.787.3710

Rennaker, Joanne (DEQ)

From: Elmer R. Hess <ehess@audgen.michigan.gov>
Sent: Friday, December 04, 2015 9:54 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: attachments

Adam,

Good morning,

Can you give me a call? I have a follow up question.

Thanks

Elmer

From: Rosenthal, Adam (DEQ) [mailto:ROSENTHALA@michigan.gov]
Sent: Wednesday, December 2, 2015 9:28 AM
To: Elmer R. Hess <ehess@audgen.michigan.gov>
Cc: Brandon M. McAndrew <bmcandrew@audgen.michigan.gov>
Subject: RE: attachments

Morning Elmer, Flint doesn't have a LCR sampling plan, just the 2 initial 6 month rounds of monitoring on Detroit water back in '92. I can get you copies of the reporting forms, but that's all we have in the files. Let me know.

thanks,
Adam

From: Elmer R. Hess [mailto:ehess@audgen.michigan.gov]
Sent: Monday, November 30, 2015 12:34 PM
To: Rosenthal, Adam (DEQ)
Cc: Brandon, McAndrew (OAG)
Subject: RE: attachments

Adam,

Thanks for providing this information. Can you also forward the Flint LCR Sampling Site plan as well.

Elmer

From: Rosenthal, Adam (DEQ) [mailto:ROSENTHALA@michigan.gov]
Sent: Friday, November 20, 2015 4:25 PM
To: Brandon M. McAndrew <bmcandrew@audgen.michigan.gov>; Elmer R. Hess <ehess@audgen.michigan.gov>
Cc: Busch, Stephen (DEQ) <BUSCHS@michigan.gov>; Prysby, Mike (DEQ) <PRYSBYM@michigan.gov>
Subject: attachments

Elmer & Brandon, attached for the City of Flint is the Bacteriological Sample Siting Plan, excluded sample results for 2015 Lead/Copper monitoring, and the Lead & Copper Certification form with instructions that indicate the Tier and Sample Category definitions.

thank you,

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Tuesday, December 01, 2015 4:57 PM
To: DEQ-ODWMA-All
Cc: Sygo, Jim (DEQ); Shaler, Karen (DEQ)
Subject: Background information regarding the City of Flint

As part of our internal after action review process, we created a timeline of events associated with the City of Flint situation and a Frequently Asked Questions document. If you are interested in viewing either the City of Flint Timeline and associated attachments, or the frequently asked questions document, please follow these directions:

Go to SharePoint (DEQ Intranet) Click on Divisions/Offices and select Office of Drinking Water and Municipal Assistance. On the left hand pane there is a "Libraries" section right beneath the ODWMA heading that you will click on. This opens the library where a folder named "City of Flint" is located containing all of the above-mentioned documents.

A direct link to the folder is listed below for your convenience.

<http://inside.michigan.gov/deq/officesdivisions/odwma/layouts/viewlsts.aspx?BaseType=1>

Liane J. Shekter Smith, P.E.
Assistant to Chief Deputy Director Jim Sygo
Michigan Department of Environmental Quality
517-284-6543

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Tuesday, December 01, 2015 1:58 PM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Cc: Rennaker, Joanne (DEQ); Devereaux, Tracy Jo (DEQ); Anderson, Madhu (DEQ); Sygo, Jim (DEQ)
Subject: e-mails

Dr. Reynolds (Flint After Action Review Task Force) has requested copies of all e-mails sent or received between DEQ-ODWMA staff and City of Flint personnel over the two-plus weeks April 13, 2014 through April 30, 2014.

Please prepare these for sharing with Dr. Reynolds at your earliest convenience. Thanks.

Madhu – would you prefer to have these in hard copy or electronically?

Liane

Rennaker, Joanne (DEQ)

From: Elmer R. Hess <ehess@audgen.michigan.gov>
Sent: Monday, November 30, 2015 12:34 PM
To: Rosenthal, Adam (DEQ)
Cc: Brandon, McAndrew (OAG)
Subject: RE: attachments

Adam,

Thanks for providing this information. Can you also forward the Flint LCR Sampling Site plan as well.

Elmer

From: Rosenthal, Adam (DEQ) [mailto:ROSENTHALA@michigan.gov]
Sent: Friday, November 20, 2015 4:25 PM
To: Brandon M. McAndrew <bmcandrew@audgen.michigan.gov>; Elmer R. Hess <ehess@audgen.michigan.gov>
Cc: Busch, Stephen (DEQ) <BUSCHS@michigan.gov>; Prysby, Mike (DEQ) <PRYSBYM@michigan.gov>
Subject: attachments

Elmer & Brandon, attached for the City of Flint is the Bacteriological Sample Siting Plan, excluded sample results for 2015 Lead/Copper monitoring, and the Lead & Copper Certification form with instructions that indicate the Tier and Sample Category definitions.

thank you,

Adam Rosenthal, EQA
 MDEQ – Office of Drinking Water and Municipal Assistance
 Lansing District – Constitution Hall 1SW
 PO Box 30242
 Lansing, MI 48909
 517-284-6644
 fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Monday, November 23, 2015 1:20 PM
To: Kuhl, Richard (AG); Bettenhausen, Margaret (AG); Sygo, Jim (DEQ); Anderson, Madhu (DEQ); Pallone, Maggie (DEQ); Krisztian, George (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Cook, Pat (DEQ)
Cc: Devereaux, Tracy Jo (DEQ); Shaler, Karen (DEQ); Thelen, Mary Beth (DEQ)
Subject: 11-23-2015 Flint Drinking Water Events Timeline
Attachments: 11-23-2015 Flint Drinking Water Events Timeline.docx

Timeline has been revised/updated.

Note that two items from EPA in November were added (Attachments 56 and 57).

Header and footer were updated. Also, acronyms (for the most part) were removed. Permit numbers deleted. Dates were filled in if they were readily available. Biggest change is the December 31, 2014 item regarding end of the 1st monitoring period. This was re-written to be consistent with the June 30, 2015 end of the 2nd monitoring period item. The compliance letter reporting the results was added on March 30, 2015. The letter is attached (you'll note that Attachment 16 has been relocated).

I plan to share with OAG tomorrow morning unless there are any objections.

Liane

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FLINT DRINKING WATER EVENTS TIMELINE

Date	Event	Attachment
Pre-1967	Flint Water Treatment Plant in operation using Flint River for drinking water	1
Post-1967	Flint switched to Detroit Water and Sewerage Department for drinking water	None
January 2006	Discussions regarding Karegnondi Water Authority, <i>Preliminary Long-Term Water Supply for Genesee County</i>	2
June 25, 2009 September 2009	<i>Lake Huron Water Supply Study Karegnondi Water Authority Executive Summary and Preliminary Engineering Report</i>	3
March 2013	<i>Analysis of the Flint River as a Permanent Water Supply for the City of Flint</i> ; Prepared for: City of Flint dated July 2011	4
April 2013	Flint notifies Detroit Water and Sewerage Department of contract discontinuation and joins the Karegnondi Water Authority	5
April 2013	Detroit Water and Sewerage Department sets termination of Flint water service contract to April 17, 2014	6
June 2013	Flint notifies the Department of Environmental Quality of intent to operate Flint Water Treatment Plant full time using Flint River for drinking water	7
April 2014	The Michigan Department of Environmental Quality issues Flint Water Treatment Plant construction permits for full time operation enhancements W141025 and W141026	9
May 2014	Flint stops purchasing Detroit Water and Sewerage Department water. Starts using the City of Flint Water Treatment Plant and Flint River for drinking water	10
August 2014	Flint <i>E. coli</i> bacteria violation, Localized System Boil Water Advisory	11
September 2014	Disinfection Byproducts compliance communication; the Michigan Department of Environmental Quality requests preemptive Operational Evaluation	12
September 2014	Flint Total Coliform Bacteria violation, Localized System Boil Water Advisory	13

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FLINT DRINKING WATER EVENTS TIMELINE

Date	Event	Attachment
October 2014	General Motors announces decision to stop using Flint River as source for production water	14
December 2014	Disinfection Byproducts quarterly violation begins	15
December 31, 2015	1st 6-month round of lead and copper monitoring ends. Results due from Flint to Michigan Department of Environmental Quality on January 10, 2015	None
January 21, 2015	City of Flint Public Meeting regarding disinfection byproducts and bacteria	17
February 26, 2015	E-mail from United States Environmental Protection Agency to Michigan Department of Environmental Quality regarding elevated lead sample	18
February 27, 2015	E-mail from United States Environmental Protection Agency to Michigan Department of Environmental Quality inquiring about Optimized Corrosion Control Treatment	19
February 27, 2015	Michigan Department of Environmental Quality response to United States Environmental Protection Agency email with statement regarding optimized corrosion control program	20
March 5, 2015	2nd Disinfection Byproducts quarterly violation notice	21
March 30, 2015	Michigan Department of Environmental Quality notifies Flint of Lead/Copper Monitoring Results.	16
April 3, 2015	Long Term 2 Enhanced Surface Water Treatment Rule Letter	22
April 6, 2015	Flint proposes installation of Granular Activated Carbon Filter media to reduce disinfection byproducts	23
April 23, 2015	United States Environmental Protection Agency e-mail to Michigan Department of Environmental Quality regarding corrosion control treatment	24
April 24, 2015 May 1, 2015	Michigan Department of Environmental Quality responds to United States Environmental Protection Agency regarding corrosion control treatment	25

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FLINT DRINKING WATER EVENTS TIMELINE

Date	Event	Attachment
April 27, 2015	United States Environmental Protection Agency provided bottles to 212 Browning for lead/copper analyses	26
May 6, 2015	Lead service line replaced at 212 Browning. United States Environmental Protection Agency on-site	27
May 28, 2015	Internal United States Environmental Protection Agency e-mail regarding results at 212 Browning	29
June 9, 2015	3rd Disinfection Byproducts quarterly violation notice	30
June 10, 2015	Semi-Annual Conference call with United States Environmental Protection Agency	31
June 30, 2015	E-mail from United States Environmental Protection Agency scheduling conference call on July 21, 2015 regarding elevated lead result and concerns regarding corrosion control	32
June 30, 2015	2nd 6-month round of lead and copper monitoring ends. Results due from Flint to Michigan Department of Environmental Quality on July 10, 2015	None
July 9, 2015	Michigan Department of Environmental Quality informed that United States Environmental Protection Agency draft internal memo is on ACLU website	33
July 14, 2015	Michigan Department of Environmental Quality issues construction permit to Flint for Granular Activated Carbon filter media W151055	34
July 21, 2015	Conference call with United States Environmental Protection Agency (Lead and Copper Rule implementation and Flint) during which it informs Michigan Department of Environmental Quality its interpretation of Lead and Copper Rule	35
July 24, 2015	Michigan Department of Environmental Quality e-mail and draft letter 90th percentile lead determination = 11 parts per billion and City of Flint requirement to add corrosion control treatment	36

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FLINT DRINKING WATER EVENTS TIMELINE

Date	Event	Attachment
July 28, 2015	Michigan Department of Environmental Quality received blood lead level information from Michigan Department of Health and Human Services indicating that results since the switch to the Flint River are consistent with past years seasonal variations	37
August 4, 2015	Meeting with city representatives at Governor's office	38
August 17, 2015	Michigan Department of Environmental Quality notifies Flint of lead/copper monitoring results and requires City to install corrosion control treatment	39
August 23, 2015	Michigan Department of Environmental Quality notified by an external party that a water quality study was about to begin in Flint	40
September 2, 2015	Disinfection Byproducts return to compliance	43
September 11, 2015	United States Environmental Protection Agency e-mail confirming that Michigan Department of Environmental Quality was never sent the draft June 24, 2015 memo	44
September 21, 2015	Meeting with Congressional representatives, legislators, United States Environmental Protection Agency and Michigan Department of Environmental Quality to discuss issues with water quality in Flint	45
September 22, 2015	Meeting/Conference call with Michigan Department of Health and Human Services, Genesee County Health Department, and Michigan Department of Environmental Quality to discuss lead education/outreach	46
September 24, 2015	Hurley Children's Hospital data reveals elevated blood lead levels in Flint children	47
September 24, 2015	Michigan Department of Health and Human Services response affirms State blood lead level data is more comprehensive than Hurley Hospital data	None

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FLINT DRINKING WATER EVENTS TIMELINE

Date	Event	Attachment
September 25, 2015	Flint issues Lead Advisory regarding drinking water	48
October 1, 2015	State Chief Medical Officer confirms Hurley blood lead level data	None
October 1, 2015	Genesee County Health Department issues "Do Not Drink" Advisory	49
October 2, 2015	Michigan Department of Environmental Quality and Michigan Department of Health and Human Services press conference. Governor's Flint Action Plan announced.	50
October 2, 2015	Genesee County Health Department school screening water samples collected for lead analysis	51
October 8, 2015	Governor Press Conference: Flint to reconnect to Great Lakes Water Authority/Detroit Water and Sewerage Department	52
October 15, 2015	State Legislature authorizes a \$9 million to assist the City of Flint to pay for the return to the Detroit water system and to fund staff at schools to gauge lead exposure	None
October 16, 2015	First weekly coordination meeting held between the City of Flint and state agencies	None
October 16, 2015	Michigan Department of Environmental Quality meets with Flint Schools Superintendent and Genesee County Health Department	None
October 16, 2015	Flint switches back to Detroit Water and Sewerage Department for water	53
October 21, 2015	Governor Snyder announces formation of Flint Water Task Force to complete an After-Action Review	None
October 28, 2015	Michigan Department of Environmental Quality issues construction permit for additional corrosion control treatment W151104	54
October 30, 2015	Michigan Department of Environmental Quality letter to Flint regarding corrosion control treatment operation	55

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY FLINT DRINKING WATER EVENTS TIMELINE

Date	Event	Attachment
November 3, 2015	United States Environmental Protection Agency Memorandum regarding "Lead and Copper Rule Requirements for Optimal Corrosion Control Treatment for Large Drinking Water Systems"	56
November 4, 2015	United States Environmental Protection Agency Memorandum regarding "Transmittal of Final Report – High Lead at Three Residences in Flint, Michigan"	57
Mid-Late 2016	Planned connection to Karegnondi Water Authority (Lake Huron water to Flint Water Treatment Plant)	None

Rennaker, Joanne (DEQ)

From: Prysby, Mike (DEQ)
Sent: Wednesday, November 25, 2015 10:44 AM
To: Rosenthal, Adam (DEQ)
Subject: FW: EPA Flint Task Force -- Draft Preliminary Assesment for discussion
Attachments: EPA Task Force Recommendations Final Draft November 24 2015.pdf; ATT00001.htm

fyi

Michael Prysby, P.E.
 District Engineer
 Office of Drinking Water and Municipal Assistance
 517 290-8817

From: Sygo, Jim (DEQ)
Sent: Wednesday, November 25, 2015 10:15 AM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ); Krisztian, George (DEQ)
Cc: Shaler, Karen (DEQ)
Subject: Fwd: EPA Flint Task Force -- Draft Preliminary Assesment for discussion

Attached is the assessment proposed by EPA. Take some time to read it and we will meet next week to discuss. Karen, please set up a meeting for this group to discuss. Probably 1 and 1/2 hours.

Sent from my iPhone

Begin forwarded message:

From: "Kaplan, Robert" <kaplan.robert@epa.gov>
Date: November 25, 2015 at 10:01:19 AM EST
To: "Sygo, Jim (DEQ)" <SygoJ@michigan.gov>
Subject: EPA Flint Task Force -- Draft Preliminary Assesment for discussion

Jim,

As we discussed on the call yesterday, I've attached the draft Task Force Recommendations for optimization of corrosion control, both for current water supply and for the switch to KWA water). We wanted to share this draft with MDEQ first and get feedback prior to our meeting on December 11. Note that several sections are omitted pending further discussion, including specific funding estimates and outreach to Flint.

Thanks,

Bob

Optimization and Maintenance of Optimal Corrosion Control Treatment

Preliminary Assessment

U.S. EPA Flint Task Force

11/24/2015

DRAFT

Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015

1.0 Overview

The United States Environmental Protection Agency (EPA) has offered, and the City of Flint has accepted, the assistance of EPA experts on corrosion and corrosion control. This preliminary assessment is intended to document the activities and funding necessary to enable EPA to provide advice and support to the City of Flint in optimizing and maintaining corrosion control treatment under current water quality conditions as well as during and after the upcoming transition to the Karegnondi Water Authority (KWA) pipeline.

[Note: There are many other communities scheduled to transition from their current water sources to the KWA pipeline. Although the source water will be the same for the City of Flint and all communities transitioning to the KWA pipeline source, the intended treatment planned for these communities may differ and the studies undertaken for the City of Flint may or may not be suitable for use by the other communities. It is strongly recommended that the EPA Task Force discuss with the Michigan Department of Environmental Management (MDEQ) the importance of actively working with these additional communities to ensure that proper studies on optimizing and maintaining OCCT are undertaken prior to putting the new KWA source in service for all affected communities. If such studies are not currently underway, they should be initiated as soon as possible.]

2.0 Information Request

In order to provide effective advice and assistance, the EPA Task Force should request the following information from the City of Flint.

2.1 Current inventory of homes with service line information in excel or similar format.

Pipe loops are corrosion control treatment assessment tools that enable evaluation of the effects of potential water quality changes and different levels of orthophosphate treatment on the existing pipe scales in order to select the most effective treatment before the treatment is applied on a city-wide basis. The pipe loops utilize lead service lines that are actively in service and carefully extracted so that the treatment assessment is conducted with pipes that represent conditions within the distribution system. As it would not be possible to perform service line extractions in the winter without significantly altering or dislodging the scales within the pipes, the identification and extraction of lead service lines should be given the highest priority to ensure that a sufficient number of lead pipes can be identified and extracted as soon as possible. In order to identify suitable homes with lead lines, the EPA Task Force will need current records on lead service line locations to be provided as soon as possible so that sampling can be coordinated and conducted to verify the presence of lead lines.

To minimize the need for excavation, homes with the longest lead service lines should be chosen so that multiple segments can be harvested from each lead line. The lead lines would typically be the longest where the water main is located across the street from the home and the home is set back on the property with respect to the street. An estimated 20 lead pipe segments should be carefully extracted and handled using ORD-specified procedures for use in constructing pipe loops at the treatment plant.

As the scales within the service lines have been subject to significant and iterative water quality changes in a relatively short period of time, it is also necessary to extract additional lead and non-lead portions of service lines to assess the current condition of the scales within the service lines.

*Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015*

2.2 All lead in water testing results for City of Flint, including those not used for Lead and Copper Rule compliance.

Studies have shown that homes served by lead service lines generally have much higher lead levels than homes without lead service lines. As it is anticipated that the City of Flint's service line records will be incomplete, the lead-in-water testing data is a supplemental tool that can be mapped to identify areas of the city that may have higher lead-in-water levels which would indicate the presence of lead service lines. This information will help the EPA Task Force in the identification and extraction of lead service lines for constructing the pipe loops and in identification of areas to test the progress of corrosion control.

2.3 Identification of areas in Flint with elevated blood lead levels.

Similar to the lead-in-water testing, identification of areas (e.g., zip codes, neighborhoods) where blood lead levels have increased since the switch to the Flint River can provide additional data which would indicate the presence of lead service lines for the identification of areas to test the progress of corrosion control.

2.4 Addresses of homes that have had water service interruptions or street disturbances (e.g., water main breaks, road/sidewalk construction, etc.) within the last year.

Streets where there have been potential physical disturbances and homes where the water service has been interrupted should be prioritized for evaluation for the presence of lead service lines as the disturbances can release very high lead and prolonged stagnation can affect the stability of the scales within the pipes.

2.5 Addresses of currently unoccupied homes.

Similar to homes where the water service has been interrupted, homes that are unoccupied should be prioritized for evaluation for the presence of lead service lines as these homes may pose a significant risk to incoming occupants if the home has a lead service line. Recently unoccupied homes also may provide important evaluation locations of water usage impacts on scale stability and lead release/exposure.

2.6 Identification of the pressure zones and location of each of the water quality parameter locations (addresses) within each pressure zone used for water quality parameter measurements (pH, alkalinity, orthophosphate, chlorine, total Coliform) in the distribution system, along with copies of the water quality parameter analytical results for past 4 rounds of monitoring.

In addition to corrosion control treatment optimization, the City of Flint must simultaneously comply with all other applicable National Primary Drinking Water Regulations (NPDWRs). A system-wide assessment of the water quality will provide information necessary to ensure that any potential issues with other NPDWRs can be identified and resolved. Information regarding the water quality in the distribution system is necessary to evaluate the stability of the water quality parameters throughout the distribution system, and to detect locations that may have the highest risk of lead release, TTHM formation, or the presence of microbial contamination.

*Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015*

3.0 Immediate Tasks and Timeline

The following tasks should be undertaken immediately (November/December 2015)

3.1 Determination on EPA funding commitment(s) (DRA).

3.2 Discussion with Central Regional Laboratory (CRL) regarding laboratory capabilities and support (GWDWB, ORD).

3.3 Development of EPA QAPPs encompassing the following activities (GWDWB, ORD, Others*):

- 3.3.1 Verification of presence of lead service lines*;
- 3.3.2 Pipe rig construction, operation, and maintenance;
- 3.3.3 Treatment assessment monitoring;
- 3.3.4 Evaluation of lead reservoirs within service lines; and
- 3.3.5 Evaluation of scale degradation due to stagnation events at unoccupied homes and water shut-offs*.

*If these activities are undertaken by one or more of the local partners, QAPP development should be part of the agreement.

3.4 Identification of local partners that can coordinate with the EPA Flint Task Force, MDEQ, and the City of Flint, and establishment of agreements to provide assistance on field and other activities (ORD).

[Potential local partners who have expressed strong interest and willingness to collaborate with EPA include Wayne State University, University of Michigan Flint, Michigan State University, Hurley Medical Center, and Genesee County Health Department.]

3.5 Outreach and education – specifics to be determined.

[Potential local partners Hurley and WSU have asked ORD directly if EPA can provide training/education for their staff on lead in water occurrence, sampling for lead, and corrosion/corrosion control treatment]

3.6 Assessment of information from 2.1 to verify the presence of a sufficient number of accessible homes with lead service lines that can be extracted for construction of pipe loops and to evaluate the current state and stability of the scales within the lead and non-lead portions of service lines (TBD).

3.7 Extraction of approximately twenty lead line segments with active water for construction of pipe loops, and six additional full service lines with different pipe material (two with lead and galvanized iron, two with lead and copper, and two with lead and plastic segments) for analyzing the lead reservoirs within the lead and non-lead segments of the service lines (TBD).

3.8 Risk evaluation and communication on the potential risk from physical disturbances to lead service lines, reoccupation of unoccupied homes and re-establishment of water service following water shut-offs (TBD).

*Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015*

4.0 Funding Needs (To Be Determined)

5.0 Proposed EPA Assistance

The narrative below describes the scope of work to be undertaken in providing assistance to the City of Flint and is contingent on adequate funding being provided.

5.1 Lead Service Line Detection Methodology Development

Verification of the presence of lead service lines is necessary for identification and extraction of lead service lines, sampling for treatment assessment, Lead and Copper Rule compliance sampling, risk evaluation and implementation of a lead service line replacement program. Blood lead level (BLL) or other lead-related health evaluations also need to be able to identify all lead sources for blood-tested individuals to prioritize risk locations and mitigation strategies. This methodology development is designed to determine if a simple water sampling protocol can give a convenient means to verify with some level of confidence, whether or not a residence has a lead service line, through relatively non-intrusive water sampling. Experience with other utilities has shown that paper records may either under or overestimate the presence of lead service lines.

The strategy to be employed is based on published protocols with improvements being researched by Polytechnique Montreal (Michele Prevost, Elise Deshommes, Clement Cartier). This requires staffing for coordination with Flint paper records, resident contact, plumbing mapping, field sampling (TBD, but estimated at 20 locations with no LSLs for “control” purposes, and 50 locations believed to have LSL for validation. Development of this protocol could involve re-sampling to test techniques, and could utilize one or more Palintest electrochemical analyzers after validation vs. ICP-MS. EPA-ORD has one Palintest analyzer which can be used. Field personnel would work closely with R5 CRL to test the limits of analytical performance of the Palintest analyzer.

5.2 Corrosion Control Treatment Optimization Evaluations

The corrosion control treatment optimization evaluations are necessarily separated into two stages. The first stage is intended to optimize corrosion control treatment with the current water source and water quality conditions. The second stage is designed to prepare for the transition to the new water source (KWA Pipeline) and water quality conditions, and to ensure that the City of Flint is able to simultaneously comply with all National Primary Drinking Water Regulations following the transition to the new source.

5.2.1 Short-Term (Current) Lead Release Optimization Evaluation. A lead pipe rig system will be constructed at the Flint water treatment plant with exhumed lead pipes, carefully collected and installed into the pipe rig. EPA-ORD will provide technical assistance in the rig design and construction, as well as the design provisions for chemical additions. One to two people will be required to be on-site to perform periodic chemical analyses and operate and maintain the pipe rig system, as well as to troubleshoot/repair any problems and to collect samples. Laboratory instruments for pH and colorimetric tests (chlorine residual, orthophosphate) will be needed on site. It is anticipated that the design will include a “control” loop and loops with possibly 3-4 different dosages, in duplicate. The

Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015

estimated sampling frequency would be at least three times per week, using ICP for metals and ICP-MS for lead on each sample, with one complete characterization sample before each stagnation period. Filtration apparatus will also be needed.

5.2.2 Simultaneous Compliance Optimization Pilot Testing Prior to Flint Water Plant Treatment of KWA Water. This effort will necessarily be more expansive than the short-term evaluation. The same control pipes would carry over, but new pipes would need to be stabilized with the current water. Upstream of the lead pipe rig, there would need to be a series of jar tests or a small pilot plant established to optimize coagulation, softening (if necessary), filtration and disinfection processes to meet disinfection byproduct (DBP) limits and microbial inactivation requirements. Investigations are also needed to assess the potential impacts of different possible treated Lake Huron water qualities on chlorine, biofilm growth, water age, microbial pathogens such as *Legionella*, phosphate demand and scaling potential. Pilot evaluations could be done on different unit processes using anticipated Lake Huron water, using university-run pilot plants, shipped or trucked water, etc. Some pilot evaluation analyses could be done on-site with portable analytical instrumentation as is typical. When a final water quality target is determined, the target finished water would become the source water to feed into the lead (and metal) pipe rigs, and thereafter the optimization of phosphate dosing would be done on the stabilized exhumed lead pipes in the pipe rigs. A reservoir may need to be constructed to hold processed simulated Lake Huron treated water produced by the pilot plant and fed to the pipe rigs. This evaluation must be started as soon as possible to allow sufficient time for reliable results to avoid having to conduct full-scale testing on water delivered into the distribution system that could impact Flint consumers after the switch to the KWA pipeline is made.

5.3 Lead Source/Release Diagnostic Evaluation

While the data collected from the pipe loops can provide information on the relative effectiveness of various treatment schemes, conditions at the plant are not the same as within the distribution system. Continued monitoring of lead levels at high risk sites throughout the distribution system is needed to make any necessary adjustments based on actual conditions within the distribution system. EPA estimates that approximately 45 homes will need to be identified for ongoing sampling to inform the treatment optimization process. (15 with lead & copper service line portions, 15 with lead & galvanized iron service lines and if available, 15 with lead and plastic service line portions). This evaluation is necessary for determining what the relative contributions of lead are from different plumbing sources in order to assure optimization of lead and other metal release from the service lines and premise plumbing. Two sampling rounds are the minimum expected for profile sampling which will utilize small volume samples through faucet and sink area and larger (one-liter) samples thereafter. Sampling would involve 15 sites for each combination of plumbing materials (total of 45 sites), with an anticipated 10-15 sequential samples per site for metals per sampling event. Additional samples will be collected and analyzed to characterize the water quality and the sequential samples will be analyzed for Pb, Cu, Fe, Zn, and Al. An experienced plumber or researcher will be needed to map the plumbing at each site, field personnel will be needed to collect and ship samples, and a data manager will be needed to manage the data. If dissolved vs. total metals are desired in the analyses, an addition person with field filtration skills will be needed, in addition to the lab

*Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015*

supplies. If meters, brass or galvanized pipe are found to be a significant source of lead, those devices should be included in the pipe rigs.

5.4 Impact of Water Use/House Occupancy on Stability and Lead Release from Lead and Other Premise Piping.

There are a large number of unoccupied homes in Flint. Homes which have been unoccupied for an extended period of time can pose a greater risk to incoming residents due to the stagnation of water within the plumbing over an extended period of time which can destabilize the scales within the plumbing and release high lead levels into the water. If access can be facilitated by the City of Flint or other organizations involved with housing, sampling will be conducted at 10-20 vacant or recently occupied homes in conjunction with a flushing program to assess how long it takes for increased water usage to improve the effectiveness of the corrosion control treatment for these homes. Sequential sampling profiles would be done for metals as well as chlorine residuals for each home. Flushing for different times would be tested and evaluated with repeated profile sampling to see if there is any improvement in lowering lead levels with increased water use.

5.5 Protocol for Exposure Estimation Sampling for Health-Related Evaluations (Premise & Building Plumbing).

This protocol development would compare various potential options for sampling to estimate the cumulative metal exposure from the drinking water in premise plumbing or schools. Comparisons would be made with manual or automated proportional sampling, tap POU units that could log water use and be disassembled and digested for metal content, and random daytime sampling protocols. Different types of POU-suitable filtration apparatus would be tested to see if designs would permit quantitative separation of dissolved versus particulate lead and other metals. Support would be needed for setting up and operating test systems, analyzing virgin and exposed filter/device materials with accumulated metals, building and installation of proportional samplers or development of protocol for resident-collected samples, rapid turn-around Lead and other water analyses of test exposure water fed into experimental systems.

5.6 Risk communication on lead service lines

Request OEJ support/assistance for the development and dissemination of risk communication material on lead service lines, including the potential risk from physical disturbances to lead service lines and lead reservoirs in other pipes downstream of lead service lines.

5.7 Pipe analyses for long-term treatment assessment and mechanisms of lead and other metals release

Optimization of corrosion control treatment requires specialized knowledge on scale chemistry as well as specialized equipment and equipment operating skills. The timeline for activities related to evaluating the progress in optimizing corrosion control treatment following the transition to the KWA pipeline source will extend beyond the current fiscal year and likely well into FY 2017. The necessary resources and expertise must continue to be made available to the Task Force for the expected duration of the project in order to ensure a successful outcome

*Flint Drinking Water Task Force (FTF-3)
Preliminary Assessment – Draft November 24, 2015*

which would enable the City of Flint to simultaneously comply with all NPDWRs following the transition to the KWA pipeline.

6.0 Timeline

The proposed activities are contingent upon available funding. As such, it is not possible at this time to develop a meaningful timeline, with the exception of the activities in Section 2.0 and some of the activities in Section 3.0 which are discussed in those sections. Once funding is secured a detailed timeline will be developed that incorporates both funded and unfunded activities. A Task Force member will be identified as the lead person responsible for ensuring the completion of each activity or group of activities to ensure that the work is completed in accordance with the timeline.

DRAFT

Rennaker, Joanne (DEQ)

From: Elmer R. Hess <ehess@audgen.michigan.gov>
Sent: Monday, November 23, 2015 9:11 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: attachments

Thank you Adam,

Elmer

From: Rosenthal, Adam (DEQ) [<mailto:ROSENTHALA@michigan.gov>]
Sent: Friday, November 20, 2015 4:25 PM
To: Brandon M. McAndrew <bmcandrew@audgen.michigan.gov>; Elmer R. Hess <ehess@audgen.michigan.gov>
Cc: Busch, Stephen (DEQ) <BUSCHS@michigan.gov>; Prysby, Mike (DEQ) <PRYSBYM@michigan.gov>
Subject: attachments

Elmer & Brandon, attached for the City of Flint is the Bacteriological Sample Siting Plan, excluded sample results for 2015 Lead/Copper monitoring, and the Lead & Copper Certification form with instructions that indicate the Tier and Sample Category definitions.

thank you,

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Friday, November 20, 2015 1:17 PM
To: Rosenthal, Adam (DEQ); Rennaker, Joanne (DEQ)
Cc: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Benzie, Richard (DEQ); Philip, Kris (DEQ); Devereaux, Tracy Jo (DEQ)
Subject: FW: Correspondence to the city of Flint
Importance: High

FYI

From: Krisztian, George (DEQ)
Sent: Friday, November 20, 2015 1:15 PM
To: Sygo, Jim (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ); Devereaux, Tracy Jo (DEQ); Shekter Smith, Liane (DEQ); Shaler, Karen (DEQ); Thelen, Mary Beth (DEQ); Feuerstein, Heather (DEQ); Copen, Leigh (DEQ)
Cc: Natasha Henderson (nhenderson@cityofflint.com)
Subject: Correspondence to the city of Flint
Importance: High

Please ensure that any communication that we have with the city of Flint includes a cc to Natasha Henderson. Please forward this e-mail to anyone who regularly corresponds with the city.

I have copied Natasha on this e-mail so that you have her address.

Thank you!
George

George L. Krisztian
Flint Action Plan Coordinator
Laboratory Director
Michigan Department of Environmental Quality
Desk ph (517) 284-6719
Cell ph (517) 420-5897

Rennaker, Joanne (DEQ)

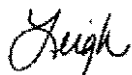
From: Copen, Leigh (DEQ)
Sent: Monday, November 16, 2015 2:22 PM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Shaler, Karen (DEQ)
Subject: Flint Water Task Force Info

Good afternoon,

Madhu asked that I provide you with bios for the Flint Water Task Force members. Please see the October 21, 2015, press release below that includes a short bio for each of the task force members.

Please let me know if I may be of further assistance.

Thank you.



Leigh M. Copen
 Senior Executive Management Assistant to
 Madhu R. Anderson, Deputy Director, Economic & Strategic Initiatives
 Mary C. Goodhall, Organizational Excellence Coordinator
 Department of Environmental Quality
 517 284 6702 | CopenL1@michigan.gov



From: GOV Newsroom [<mailto:govnewsroom@govsubscriptions.michigan.gov>]

Sent: Wednesday, October 21, 2015 2:07 PM

Subject: NEWS RELEASE: Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Governor Rick Snyder
REINVENTING MICHIGAN
 Getting It Right. Getting It Done.

News Release

Contacts: [Sara Wurfel](#) or [Dave Murray](#)
 517-335-6397

FOR IMMEDIATE RELEASE
 Wednesday, Oct. 21, 2015

Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations

Experts in public health, water management, environmental protection to focus on steps to protect residents

LANSING, Mich. — Gov. Rick Snyder today announced the creation of an independent advisory task force charged with reviewing actions regarding water use and testing in Flint and offer recommendations for future guidelines to protect the health and safety of all state residents.

Task force members include experts in public health and medicine, water management, and environmental protection from both sides of the aisle, and will be co-chaired by Ken Sikkema of Public Sector Consultants and Chris Kolb, of the Michigan Environmental Council. Also serving will be Dr. Matthew Davis of the University of Michigan Health System, Eric Rothstein, of the Galardi Rothstein Group and Dr. Lawrence Reynolds of Mott Children's Health Center in Flint.

"Transitioning back to the Detroit Water and Sewerage Department-Great Lakes Water Authority is a good first step to protecting public health in Flint, but it's not the last step," Snyder said. "Bringing in outside experts to evaluate our actions and help monitor and advise on potential changes to law, procedures and practices will be key to continuing work on the comprehensive action plan and ensuring safe drinking water for all the residents in Flint and all of Michigan."

Snyder said the administration will fully cooperate with task force members, saying he wants an unbiased report focusing on steps taken in the past and recommendations that could improve practices to ensure all residents have access to safe, clean water.

Ken Sikkema is a senior policy fellow at Public Sector Consultants, where he specializes in public finance, environment, and energy policy. Prior to joining the firm, Sikkema served in both the Michigan House and Senate, culminating with four years as Senate majority leader. He has also served as both an adjunct and visiting professor at Grand Valley State University.

Chris Kolb is president of the Michigan Environmental Council, a statewide coalition of 70 environmental, public health and faith-based nonprofit groups. Before joining the MEC, Kolb represented Ann Arbor in the state House for six years and served six years on the Ann Arbor City Council. He has been president of the MEC for six years.

Matthew Davis, M.D., M.A.P.P., is professor of pediatrics and internal medicine at the University of Michigan Health System and professor of public policy at the Gerald R. Ford School at the University of Michigan, having joined the faculty in 2000. Davis also is a professor of health management and policy at the School of Public Health. He previously served as the chief medical executive of the Michigan Department of Community Health/Department of Health and Human Services.

Eric Rothstein is a national water issues consultant and principal at the Galardi Rothstein Group. He served as an independent advisor on the creation of the Great Lakes Water Authority. Rothstein also has served as Jefferson County, Alabama's rate consultant and municipal adviser for litigation related to the county's bankruptcy and issuance of \$1.7 billion in sewer warrants and led strategic financial planning for the City of Atlanta's Department of Watershed Management. He

has more than 30 years of experience in water, wastewater and stormwater utility finance and rate-making assessments.

Lawrence Reynolds, M.D., is a pediatrician in Flint who serves as president of the Mott Children's Health Center. He received his medical degree from Howard University College of Medicine and has been in practice for 36 years. He has served as president of the Genesee County Medical Society and the Michigan Chapter of the American Academy of Pediatrics. He has been honored for his humanitarian and advocacy efforts on behalf of children from the Community Foundation of Greater Flint.

Snyder has said reconnecting with the authority is a critical step to resolving water quality issues and addressing related health concerns. It will not immediately resolve the city's problem with lead service lines or aging infrastructure. It will take time for pipes in Flint to become coated with the phosphate corrosion control.

To best protect public health, state and local authorities will continue to carry out steps outlined on Oct. 2 in a comprehensive action plan, including continued testing, the use of faucet filters and providing residents with accurate information about steps to eliminate lead exposure. The Michigan Departments of Environmental Quality and Health and Human Services are continuing to provide free water filters, free lead testing through the state laboratory for Flint water customers, and hiring additional staff to conduct health exposure monitoring for lead in drinking water.

####

STAY CONNECTED:



This email was sent to vansickle2@michigan.gov on behalf of: The Executive Office of the Governor · 111 South Capitol Avenue · Lansing, MI 48909 · 517-335-7858

November 16, 2015

By Certified Mail, Return Receipt Requested

City of Flint
Attn: Mayor Karen Williams Weaver
1101 South Saginaw Street
Flint, MI 48502
mayor@cityofflint.com

Governor Rick Snyder
P.O. Box 30013
Lansing, MI 48909
contactmichigan@state.mi.us

Director Dan Wyant
Michigan Department of Environmental
Quality
Constitution Hall
525 West Allegan Street
P.O. Box 30473
Lansing, MI 48909-7973
WyantD@michigan.gov

Treasurer Nick A. Khouri
Michigan Department of Treasury
Richard H. Austin Building
430 West Allegan Street
Lansing, MI 48922
KhouriN@michigan.gov

RTAB Chairperson Frederick Headen
Flint City Hall
1101 South Saginaw Street
Flint, MI 48502
HeadenF@michigan.gov

RTAB Member Brian Larkin
Flint City Hall
1101 South Saginaw Street
Flint, MI 48502
blarkin@flintandgenessee.org

RTAB Member David McGhee
Flint City Hall
1101 South Saginaw Street
Flint, MI 48502
drmcghee@skillman.org

RTAB Member Robert McMahan
Flint City Hall
1101 South Saginaw Street
Flint, MI 48502
president@kettering.edu

RTAB Member Beverly Walker-Griffa
Flint City Hall
1101 South Saginaw Street
Flint, MI 48502
b.walkergriffa@mcc.edu

City Administrator Natasha Henderson
Flint City Hall
1101 South Saginaw Street
Flint, MI 48502
nhenderson@cityofflint.com

**Re: Notice of Intent to Sue Under the Safe Drinking Water Act, 42 U.S.C.
§ 300j-8(b)(1)(a), for Failure to Control Lead in Drinking Water in Flint,
Michigan, and Failure to Assist Michigan Schools with Lead Testing and
Remediation**

We write on behalf of Concerned Pastors for Social Action, Melissa Mays, the
American Civil Liberties Union of Michigan (ACLU of Michigan), and the Natural

November 16, 2015

Page 2 of 16

Resources Defense Council (NRDC), nonprofit citizens' organizations and individuals working to secure safe drinking water for the residents of Flint, Michigan. Since April 2014, the City of Flint and Michigan state officials have failed to monitor and control for lead in Flint's drinking water, and to maintain a program to assist Michigan schools with lead testing and remediation, in violation of the Safe Drinking Water Act, 42 U.S.C. § 300f et seq. This letter provides notice pursuant to 42 U.S.C. § 300j-8(b)(1)(a) that we intend to sue the City of Flint; Rick Snyder, Governor of Michigan; Dan Wyant, Director of Michigan Department of Environmental Quality; Nick A. Khouri, Treasurer of Michigan; Frederick Headen, Chairperson of the Flint Receivership Transition Advisory Board (Board); Brian Larkin, David McGhee, Robert McMahan, and Beverly Walker-Griffiea, Members, RTAB; and Natasha Henderson, Flint City Administrator, if these violations are not remedied within sixty days.¹

Concerned Pastors for Social Action is an association of religious leaders from more than thirty churches and ministries in the Flint area that has advocated for the rights of the underserved for nearly fifty years. Melissa Mays is a Flint resident whose family has suffered from serious health problems as a result of the City's failure to provide safe drinking water. The ACLU of Michigan works in courts, legislatures, and communities to preserve the protections that our laws guarantee to all citizens. NRDC is a national membership organization committed to protecting public health and the environment and to reducing the exposure of all communities to toxic chemicals. These groups and individuals continue to be harmed by the violations of the Safe Drinking Water Act by the City and Michigan state officials, detailed below.

I. City and State officials have exposed and continue to expose Flint residents to dangerous amounts of lead in drinking water

A. The City, Emergency Manager, and State Treasurer chose the Flint River as a primary drinking-water source

In the fall of 2011, Michigan Governor Rick Snyder declared a financial emergency in the City of Flint and appointed an emergency manager to take control of the City's operations and finances.² Flint Mayor Dayne Walling and the City Council were stripped of all authority except as specifically allowed by the Emergency Manager, and the City was placed in state receivership.³ Under Michigan's Local Financial Stability and Choice Act, an

¹ These individuals are noticed in their official capacities.

² See Mich. Comp. Laws § 141.1549; Letter from Gov. Rick Snyder to Mayor Dayne Walling and Flint City Council (Nov. 8, 2011), http://www.michigan.gov/documents/treasury/Flint-GovernorsDetermination-11-8-11_417435_7.pdf (attached as Ex. 1); Dawson Bell, *Governor names Flint native as city's emergency financial manager*, Detroit Free Press, Nov. 30, 2011, <http://www.freep.com/article/20111130/NEWS06/111300370/Governor-names-Flint-native-city-s-emergency-financial-manager> (attached as Ex. 2).

³ Mich. Comp. Laws § 141.1549(2).

November 16, 2015

Page 3 of 16

Emergency Manager has “broad powers” to “rectify the financial emergency and to assure fiscal accountability of the local government.”⁴

While under control of the Emergency Manager, the City faced decisions about the future of its drinking-water supply. For fifty years, the City had purchased drinking water from the Detroit Water and Sewerage Department (Detroit), which sources water from Lake Huron.⁵ In response to rising water rates charged by Detroit, in March 2013, the City Council voted to join the Karegnondi Water Authority (KWA), a newly formed municipal water supply system. The KWA was planning to build a pipeline to distribute water directly from Lake Huron to mid-Michigan communities, including Genesee County, where Flint is located.⁶ The City Council’s vote did not become effective until several weeks later, after both the Emergency Manager and State Treasurer approved the decision.⁷

The City’s contract with Detroit was set to expire in April 2014, at least eighteen months before the KWA pipeline was scheduled to be completed.⁸ Faced with a year-and-a-half gap in the City’s water supply, the Emergency Manager declined to negotiate a short-term contract with Detroit and decided instead to use the Flint River as a primary drinking-water source.⁹ The City had previously explored—and rejected—the Flint River as a primary drinking-water source. This is because the Flint Water Treatment Plant would have required fifty million dollars in upgrades to treat the river water and “produce finished water in conformance with the current federal and state drinking water regulations.”¹⁰

⁴ *Id.*

⁵ See Dominic Adams, *Closing the valve on history: Flint cuts water flow from Detroit after nearly 50 years*, Michigan Live, Apr. 25, 2014, <http://www.mlive.com/news/flint/index.ssf/2014/04/closing-the-valve-on-history-f.html> (attached as Ex. 3).

⁶ Steve Carmody, *Flint opting to get its future tap water from Lake Huron*, Michigan Radio, Mar. 25, 2013, <http://michiganradio.org/post/flint-opting-get-its-future-tap-water-lake-huron#stream/> (attached as Ex. 4); Karegnondi Water Authority, *About*, <http://www.karegnondi.com/#!about/c20r9> (last visited Nov. 13, 2015) (attached as Ex. 5).

⁷ See Mich. Comp. Laws § 141.1552(1)(g), (3); Emergency Manager, Resolution to Purchase Capacity from Karegnondi Water Authority (adopted Mar. 29, 2013) (attached as Ex. 6); Letter from Andy Dillon, State Treasurer, to Edward Kurtz, Emergency Manager (Apr. 11, 2013) (authorizing Emergency Manager to enter into contract with KWA) (attached as Ex. 7).

⁸ Sarah Schuch, *KWA pipeline work continues as Flint water lead concerns rise*, Michigan Live, Sept. 25, 2015, <http://www.mlive.com/news/flint/index.ssf/2015/09/kwa-pipeline-projected-to-be-c.html> (attached as Ex. 8); see Ron Fonger, *Detroit gives notice: It’s terminating water contract covering Flint, Genesee County in one year*, Michigan Live, Apr. 19, 2013, <http://www.mlive.com/news/flint/index.ssf/2013/04/detroit-gives-notice-its-termi.html> (attached as Ex. 9).

⁹ Letter from Darnell Earley, Emergency Manager, to Sue McCormick, Detroit Water & Sewer Dep’t (Mar. 7, 2014) (explaining that the City “has actively pursued using the Flint River as a temporary water source” instead of accepting Detroit’s offer to provide water to the City) (attached as Ex. 10).

¹⁰ Cost of Service Study (2011), Appendix 8 to Analysis of the Flint River as a Permanent Water Supply for the City of Flint, <http://www.scribd.com/doc/64382181/Analysis-of-the-Flint-River-as-a-Permanent-Water-Supply-for-the-City-of-Flint-July-2011-Appendices-1-to-8> (attached as Ex. 11);

November 16, 2015

Page 4 of 16

Under the Safe Drinking Water Act's Lead and Copper Rule, Flint's water system could not use the Flint River as a water source without first obtaining approval from the Michigan Department of Environmental Quality (MDEQ). The Lead and Copper Rule required MDEQ to approve both the City's proposed addition of a new water source (the Flint River) and the long-term change in water treatment (from treatment through Detroit's water plant to treatment at the Flint Water Treatment Plant).¹¹ In April 2014, MDEQ approved the switch to river water.¹² The City immediately began pumping Flint River water through the City's distribution pipes and into residents' taps.

B. Dangerous lead contamination results from the City's switch to river water

In the twenty months following the switch in water sources, residents' drinking water has been at times cloudy, discolored, and foul-smelling.¹³ Residents reported that they have experienced hair loss, skin rashes, and vomiting after drinking the water.¹⁴ In the summer of 2014, the City was forced to issue several boil-water notices after tap water tested positive for total coliform bacteria.¹⁵ The City's subsequent treatment of the water to kill disease-carrying pathogens resulted in elevated levels of total trihalomethanes, a disinfection byproduct that can cause serious health problems, including an increased risk of cancer.¹⁶

see also Kristin Longley, *Water pipeline v. Flint River: City of Flint studying its drinking water options*, Michigan Live, Jan. 22, 2011, http://www.mlive.com/news/flint/index.ssf/2011/01/water_pipeline_vs_flint_river.html (attached as Ex. 12); Dominic Adams, *Flint River now an option for drinking water following Detroit's termination of contract*, Michigan Live, July 23, 2013, http://www.mlive.com/news/flint/index.ssf/2013/07/city_readying_water_plant_to_t.html (quoting city officials' explanation for rejecting use of Flint River: "upgrades to Flint's water plant would be too expensive, the river didn't provide enough capacity to serve Flint residents' water needs and the Michigan Department of Environmental Quality would not allow it") (attached as Ex. 13).

¹¹ 40 C.F.R. § 141.90(a)(3); see also *id.* § 141.81(a)-(b).

¹² See Adams, *Closing the valve on history*, *supra* note 5 (Ex. 3).

¹³ See Curt Guyette, *In Flint, Michigan, Overpriced Water is Causing People's Skin to Erupt in Rashes and Hair to Fall Out*, The Nation, July 16, 2015, <http://www.thenation.com/article/in-flint-michigan-overpriced-water-is-causing-peoples-skin-to-erupt-and-hair-to-fall-out/> (attached as Ex. 14); Wenonah Hauter, *Flint's Brown Water Blues*, Huffington Post, July 10, 2015, http://www.huffingtonpost.com/wenonah-hauter/flints-brown-water-blues_b_7765132.html (attached as Ex. 15).

¹⁴ Laura Gottesdiener, *Flint, Mich., residents find state water control hard to swallow*, Al Jazeera America, Apr. 3, 2015, <http://america.aljazeera.com/articles/2015/4/3/flint-residents-find-state-water-control-hard-to-swallow.html> (attached as Ex. 16).

¹⁵ Ron Fonger, *Flint issues boil water advisory for section of the city after positive test result for total coliform bacteria*, Michigan Live, Sept. 5, 2014, http://www.mlive.com/news/flint/index.ssf/2014/09/flint_issues_boil_water_adviso.html (attached as Ex. 17).

¹⁶ Robin Erb, *Who wants to drink Flint's water?*, Detroit Free Press, Jan. 23, 2015, <http://www.freep.com/story/news/local/michigan/2015/01/22/water-woes-latest-hit-flint/22193291/> (attached as Ex. 18); Mich. Dep't of Env'tl. Quality, Violation Notice—Maximum Contaminant Level for Total Trihalomethanes (Dec. 16, 2014) (attached as Ex. 19); U.S. EPA, Basic Information about Disinfection Byproducts in Drinking Water, <http://water.epa.gov/drink/contaminants/basicinform>

November 16, 2015

Page 5 of 16

Because Flint River water is also highly corrosive, dangerous amounts of lead began to leach out of pipes and into the City's drinking water.¹⁷ Lead in drinking water occurs primarily from corrosion of pipes and other plumbing materials that contain lead or lead solder.¹⁸ The Lead and Copper Rule requires water systems to manage lead levels by controlling corrosion, which is often accomplished by adding corrosion-inhibiting chemicals.¹⁹ Water systems must implement and maintain an "optimal" corrosion-control treatment program that "minimizes the lead . . . concentrations at users' taps."²⁰

Flint did not consider how to control the corrosivity of the river water before switching water sources, nor did MDEQ require the City to implement any corrosion-control measures. Rather, beginning in April 2014, the City did not use any form of treatment to control corrosion.²¹ The City waited until after its residents were drinking the river water to assess whether it posed a risk of increased lead exposure. MDEQ endorsed this approach. In June 2014, Flint's water system initiated the first of two six-month monitoring periods to test tap water for lead under the Lead and Copper Rule; the second six-month period ran from January to June 2015.²² During these monitoring periods, the water system used flawed testing methods that appear to have been designed to underreport the lead content of residents' drinking water.²³

ation/disinfectionbyproducts.cfm (last updated Dec. 13, 2013) (attached as Ex. 20); *see also* 40 C.F.R. § 141.64(b).

¹⁷ Marc Edwards, *Test Update: Flint River water 19X more corrosive than Detroit water for Lead Solder; Now What?*, Flint Water Study (Sept. 11, 2015), <http://flintwaterstudy.org/2015/09/test-update-flint-river-water-19x-more-corrosive-than-detroit-water-for-lead-solder-now-what/> (attached as Ex. 21); Marc Edwards, *Flint River water is very corrosive to lead, and causing lead contamination in homes*, Flint Water Study (Sept. 2, 2015), <http://flintwaterstudy.org/2015/09/flint-rivers-water-is-very-corrosive-to-lead-and-causing-lead-contamination-in-homes/> (attached as Ex. 22). The river water is so corrosive that in October 2014, a local GM engine plant decided to switch back to Lake Huron water to avoid damage to equipment at the plant from corrosion. Brianna Owczarzak, *GM says no to Flint water*, WNEM, Oct. 14, 2014, <http://www.wnem.com/story/26785625/gm-says-no-to-flint-water> (attached as Ex. 23).

¹⁸ *See* Maximum Contaminant Level Goals and National Primary Drinking Water Regulations for Lead and Copper, 56 Fed. Reg. 26,460, 26,464 (June 7, 1991).

¹⁹ *See* 40 C.F.R. § 141.82.

²⁰ *Id.* §§ 141.2; 141.80(d).

²¹ *See* Email from Pat Cook, MDEQ, to Miguel Del Toral, U.S. EPA (Apr. 24, 2015) (attached as Ex. 24).

²² *See* 40 C.F.R. § 141.86; Email from Pat Cook, *supra* note 21 (Ex. 24).

²³ *See infra* pp. 11-13.

November 16, 2015
Page 6 of 16

Flint's monitoring data showed that some residents' water contained lead at concentrations above the federal "action level" of 15 parts per billion (ppb).²⁴ These high lead levels put residents at risk of a broad array of serious, irreversible health effects, including cognitive impairment, kidney damage, and increased blood pressure.²⁵ When the Environmental Protection Agency (EPA) learned of these high lead sampling results in February 2015, it notified MDEQ officials that the sampling results raised significant concerns about corrosion from lead pipes in Flint's distribution system.²⁶ Nonetheless, throughout the monitoring periods, the City and MDEQ maintained that these high lead levels were isolated and that the data, taken together, demonstrated Flint's compliance with the Lead and Copper Rule.²⁷

C. Community advocacy and independent testing prompt long past due response from City and State officials

As the City concluded its second six-month round of sampling in July 2015, and notified some Flint residents of elevated lead levels in their tap water, the community became increasingly concerned. A small coalition of local groups, including Water You Fighting For and Concerned Pastors for Social Action, began working with researchers at Virginia Tech to conduct their own lead sampling of Flint's water. The Virginia Tech scientists found that ten percent of the more than 250 samples collected from Flint residences had lead levels of 25 ppb or more, well above the federal action level for lead.²⁸ Several samples exceeded 100 ppb, and one sample exceeded 1000 ppb.²⁹ Though aware of

²⁴ See Mich. Dep't of Env'tl. Quality, Lead and Copper Report and Consumer Notice of Lead Result Certificate for Community Water Supply (Aug. 20, 2015) (showing six samples with lead levels over the action level) (attached as Ex. 25); 40 C.F.R. § 141.80(c)(1).

²⁵ See, e.g., U.S. EPA, Integrated Science Assessment for Lead tbl.ES-1 (June 2013) (attached as Ex. 26); U.S. EPA, Basic Information About Lead in Drinking Water, <http://water.epa.gov/drink/contaminants/basicinformation/lead.cfm> (last updated June 26, 2015) (explaining that "[i]nfants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development," and that "[a]dults who drink this water over many years could develop kidney problems or high blood pressure") (attached as Ex. 27); see also National Ambient Air Quality Standards for Lead, 80 Fed. Reg. 278, 290 (Jan. 5, 2015).

²⁶ See, e.g., Email from Jennifer Crooks, U.S. EPA, to Stephen Busch, MDEQ, and Mike Prysby, MDEQ (Feb. 26, 2015) (attached as Ex. 28).

²⁷ See Nancy Kaffer, *MDEQ e-mails show stunning indifference to Flint peril*, Detroit Free Press, Oct. 22, 2015, <http://www.freep.com/story/opinion/columnists/nancy-kaffer/2015/10/21/indifference-characterized-state-approach-flint-water/74289430/> (attached as Ex. 29).

²⁸ *Flint Town Hall Meeting Presentation and Distribution of lead results across Flint by ward and zip codes*, Flint Water Study, Sept. 16, 2015, <http://flintwaterstudy.org/2015/09/distribution-of-lead-results-across-flint-by-ward-and-zip-codes/> (attached as Ex. 30); Ron Fonger, *Virginia Tech professor says Flint's tests for lead in water can't be trusted*, Michigan Live, Sept. 15, 2015, http://www.mlive.com/news/flint/index.ssf/2015/09/virginia_tech_researcher_says.html (attached as Ex. 31).

²⁹ Marc Edwards et al., *Lead testing results for water sampled by residents*, Flint Water Study, Sept. 28, 2015, <http://flintwaterstudy.org/information-for-flint-residents/results-for-citizen-testing-for-lead-300-kits/> (attached as Ex. 32).

November 16, 2015

Page 7 of 16

the Virginia Tech sampling results, MDEQ officials continued to insist that Flint's water was safe to drink.³⁰

In September 2015, a medical study conducted by a local pediatrician confirmed the kinds of adverse health impacts that residents had voiced concern about for months: the rate of Flint children with elevated blood lead levels had nearly doubled since the City changed its drinking-water source.³¹ State officials and the Governor reacted by "downplay[ing] and in some cases attempt[ing] to discredit" the pediatrician's findings, and dismissing citizen concerns as "near-hysteri[cal]."³²

Subsequent testing by MDEQ revealed that at least four schools in Flint had lead levels in their drinking water above the federal action level.³³ At Freeman Elementary School, water tested had lead levels over 100 ppb, more than six times the federal action level.³⁴ This increase in lead exposure is particularly dangerous in Flint, a community where residents are already at higher risk of elevated blood lead levels and lead poisoning. Michigan ranks fifth worst in the country for harmful exposures to lead.³⁵ Low income is a risk factor for lead poisoning, and more than a third of families in Flint live below the poverty level, three times the national average.³⁶ Children in Flint also face high risk of lead

³⁰ Ron Fonger, *Feds sending in experts to help Flint keep lead out of water*, Michigan Live, Sept. 10, 2015, http://www.mlive.com/news/flint/index.ssf/2015/09/university_researchers_dont_dr.html (attached as Ex. 33).

³¹ *Pediatric Lead Exposure in Flint, MI: Concerns from the Medical Community* (PowerPoint Presentation) (presented on Sept. 24, 2015), available at <http://flintwaterstudy.org/2015/09/pediatric-lead-exposure-presentation-from-hurley-medical-center-doctors-concerning-flint-mi/> (attached as Ex. 34).

³² *Study suggests Flint's water causing increased lead poisoning*, Michigan Radio, Sept. 28, 2015, <http://michiganradio.org/post/study-suggests-flints-water-causing-increased-lead-poisoning#stream/0> (attached as Ex. 35); Ron Fonger, *State says data shows no link to Flint River, elevated lead in blood*, Michigan Live, Sept. 24, 2015, http://www.mlive.com/news/flint/index.ssf/2015/09/state_says_its_data_shows_no_c.html (attached as Ex. 36); *Did this Michigan Town Poison its Children?*, U.S. News & World Report, Sept. 24, 2015, <http://www.usnews.com/news/articles/2015/09/25/flint-michigan-children-show-high-levels-of-lead-in-blood> (attached as Ex. 37).

³³ Steve Carmody, *Four Flint schools have high lead levels in their water*, Michigan Radio, Oct. 8, 2015, <http://michiganradio.org/post/four-flint-schools-have-high-lead-levels-their-water> (attached as Ex. 38).

³⁴ *Id.*

³⁵ Ctrs. for Disease Control & Prevention, *Public Health in Action: Lead Poisoning Prevention in Michigan* (last updated Feb. 4, 2013), http://www.cdc.gov/nceh/information/healthy_homes_lead.htm (attached as Ex. 39).

³⁶ 2009-2013 American Community Survey 5-Year Estimates, 2013, available at <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml> (enter "Flint, MI" in the box under "Community Facts," click on "Income" on left-side bar, then click "Selected Economic Characteristics" under "2013 American Community Survey") (table attached as Ex. 40 compares data from Flint, Michigan, to Michigan and the United States).

November 16, 2015

Page 8 of 16

exposure from lead-paint dust, as nearly ninety percent of Flint's housing stock was built before 1978 (when the federal ban on high-lead paint went into effect).³⁷

Finally, in late September 2015, the City abandoned its assertions that Flint's drinking water was safe. Nearly seven months after the City first saw dangerously high levels of lead in some residents' water, Flint issued a drinking-water advisory and called for state financial assistance to switch the water system back to Detroit's supply.³⁸ Two weeks later, Governor Snyder requested six million dollars from the state legislature to reconnect the Flint water system to Detroit.³⁹ With additional funding from the City and a private foundation, the switch was completed in mid-October.⁴⁰

Following the switch back to Detroit water, some government officials began to ask questions about what went wrong in the course of Flint's change in water sources.⁴¹ Governor Snyder created a task force to review water management and testing in Flint,⁴² and EPA established its own task force "to provide the Agency's technical expertise through regular conversations" with the City and MDEQ.⁴³ Governor Snyder has also announced

³⁷ 2012 Annual Data Report on Blood Lead Levels of Children in Michigan 26 (Apr. 30, 2013), https://www.michigan.gov/documents/mdch/2012AnnualDataReportOnBloodLeadLevels_419508_7.pdf (attached as Ex. 41); Am. Cancer Soc'y, *Lead, Lead in the Environment*, <http://www.cancer.org/cancer/cancercauses/othercarcinogens/athome/lead> (last updated May 27, 2014) (explaining that lead paint is a "major" source of exposure) (attached as Ex. 42); Maj. Thomas F. Zimmerman, *The Regulation of Lead-Based Paint in Air Force Housing*, 44 A.F. L. Rev. 169, 174-75 (1998).

³⁸ *City of Flint Issues Lead Advisory*, City of Flint, Sept. 25, 2015, <https://www.cityofflint.com/2015/09/25/city-of-flint-issues-lead-advisory/> (attached as Ex. 43); Steve Carmody, *Flint officials exploring return to Detroit water*, Michigan Radio, Sept. 28, 2015, <http://michiganradio.org/post/flint-officials-exploring-return-detroit-water#stream/0> (attached as Ex. 44).

³⁹ John Wisely, *Snyder announces \$12 million plan to fix Flint water*, Detroit Free Press, Oct. 8, 2015, <http://www.freep.com/story/news/local/michigan/2015/10/08/snyder-flint-water-reconnect/73567778/> (attached as Ex. 45).

⁴⁰ Amanda Emery, *Flint reconnects to Detroit water, may take 3 weeks to clear all pipes*, Michigan Live, Oct. 16, 2015, http://www.mlive.com/news/flint/index.ssf/2015/10/flint_reconnecting_to_detroit.html (attached as Ex. 46).

⁴¹ E.g., Letter from Sen. Jim Ananich, Mich. Senate Minority Leader, to Susan Hedman, U.S. EPA, and Gina McCarthy, U.S. EPA (Oct. 21, 2015) (attached as Ex. 47); Letter from Rep. Daniel Kildee, U.S. Congressman, to Gina McCarthy, U.S. EPA (Oct. 21, 2015) (attached as Ex. 48).

⁴² Press Release, Gov. Rick Snyder, *Gov. Rick Snyder announces Flint Water Task Force to review state, federal and municipal actions, offer recommendations* (Oct. 21, 2015), http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-367761--00.html (attached as Ex. 49).

⁴³ Press Release, U.S. EPA, *EPA Establishes Safe Drinking Water Task Force to Provide Technical Expertise to MDEQ and City of Flint* (Oct. 16, 2015), <http://yosemite.epa.gov/opa/admpress.nsf/0/A92DE629DB86E66685257EE000579593> (attached as Ex. 50).

November 16, 2015

Page 9 of 16

plans to launch an “education campaign soon to help schools statewide learn how to get their water tested” for lead.⁴⁴

Despite this proliferation of task forces and campaigns, neither the City nor MDEQ has announced changes in the City’s lead monitoring practices in the wake of Flint’s public-health crisis. Rather, Flint and MDEQ have maintained that these practices are accurate and adequate, despite the near certainty that they are underrepresenting lead contamination in many of Flint’s high-risk homes.

II. City and State officials are in violation of the Safe Drinking Water Act’s Lead and Copper Rule

The Safe Drinking Water Act (the Act) authorizes citizens to sue any governmental entity “who is alleged to be in violation of any requirement” under the statute.⁴⁵ These requirements include the national primary drinking-water regulations for lead and copper set forth in the Lead and Copper Rule.⁴⁶ The Lead and Copper Rule obligates water systems to monitor and control for lead in drinking water.⁴⁷

Since April 2014, Flint’s water system has failed to comply with the Lead and Copper Rule’s requirements for monitoring water for lead, notifying the public of tap-water monitoring results, reporting monitoring results to MDEQ, and controlling corrosion from lead pipes.⁴⁸ These violations systematically result in the City’s underestimating lead levels in its drinking water, masking a public-health crisis. The violations are ongoing and likely to recur in the future: Flint’s water system presently is obligated to monitor for lead every six months, and there is no indication that Flint has changed or disavowed its inadequate approach to monitoring.⁴⁹

⁴⁴ See Lori Higgins, *Michigan to launch lead education effort statewide*, Detroit Free Press, Oct. 13, 2015, <http://www.freep.com/story/news/local/michigan/2015/10/13/lead-water-flint-michigan-testing/73871480/> (attached as Ex. 51).

⁴⁵ 42 U.S.C. § 300j-8(a)(1).

⁴⁶ See *id.* § 300g-1(b)(1)(A); 40 C.F.R. § 141.80(a)(1).

⁴⁷ See, e.g., 40 C.F.R. § 141.86.

⁴⁸ Flint’s water system is subject to the requirements of the Lead and Copper Rule because it is a “community water system” not otherwise exempted from the regulations. 40 C.F.R. §§ 141.80(a)(1), 141.2.

⁴⁹ See *Tamaska v. City of Bluff City*, 26 F. App’x 482, 485 (6th Cir. 2002) (citing *Chesapeake Bay Found. v. Gwaltney of Smithfield*, 844 F.2d 170, 171–72 (4th Cir. 1988)). A water system is required to monitor tap water for lead every six months if it (1) exceeds the action level for any monitoring period, or (2) “fails to operate at or above the minimum value or within the range of values for the water quality parameters specified by the State ... for more than 9 days in any six-month period.” 40 C.F.R. § 141.86(d)(4)(vi)(B). Flint’s water system failed to maintain applicable values of orthophosphate and/or pH designated as the optimal water quality parameters by MDEQ. In addition, had the water system conducted monitoring in compliance with the Lead and Copper Rule during the January to June 2015 period, it likely would have exceeded the lead action level.

November 16, 2015
Page 10 of 16

Under the Act, a “supplier of water” is “any person who owns or operates a public water system.”⁵⁰ The City of Flint owns Flint’s water system.⁵¹ Upon information and belief, the State officials administering Flint’s receivership and the City presently operate Flint’s water system. As discussed above, Flint’s Emergency Manager exercised the authority of the local government in the place of Flint’s mayor and city council. The Emergency Manager managed the water system and conducted its affairs, including making the decision to use the Flint River as a primary drinking-water source.⁵² In April 2015, Governor Snyder removed the Emergency Manager and appointed a Receivership Transition Advisory Board to oversee the City’s affairs until the receivership is terminated.⁵³ The Board has control over the City’s budget, and must approve all decisions adopted by the City Council.⁵⁴ The Michigan Local Financial Stability and Choice Act requires the State Treasurer to sit on a receivership transition advisory board for any municipality for which the governor appoints such a board, and Governor Snyder has appointed the State Treasurer (or his designee) to chair Flint’s Board.⁵⁵ The City Administrator reports to the Board, manages the City’s daily administrative operations, and directs City department heads in carrying out the daily activities of the City.⁵⁶ To date, the City remains in receivership, and its actions remain subject to approval of the Board.⁵⁷

Accordingly, the City of Flint; Governor Snyder; Dan Wyant, Director of MDEQ; Nick A. Khouri, Treasurer of Michigan; Frederick Headen, Chairperson of the Flint Receivership Transition Advisory Board; Brian Larkin, David McGhee, Robert McMahan,

⁵⁰ 42 U.S.C. § 300f(5).

⁵¹ See City of Flint, Water System Update, Sept. 2015, <https://www.cityofflint.com/wp-content/uploads/City-Council-Water-Presentation-9-14-2015.pdf> (attached as Ex. 52).

⁵² See *United States v. Twp. of Brighton*, 153 F.3d 307, 314 (6th Cir. 1998) (defining “operator” for purposes of CERCLA as an entity that “performed some affirmative acts,” such as “directing the workings, managing, or conducting the affairs” of a facility) (internal quotation marks and alterations omitted); cf. *United States v. Alisal Water Corp.*, 114 F. Supp. 2d 927, 938 (N.D. Cal. 2000) (applying case law discussing CERCLA “operator” liability to the Safe Drinking Water Act context).

⁵³ Mich. Comp. Laws § 141.1563(1); Press Release, Gov. Rick Snyder, *Gov. Rick Snyder: City of Flint ready to move forward as financial emergency resolved*, Apr. 29, 2015, http://www.michigan.gov/snyder/0,4668,7-277-57577_57657-353433--00.html (attached as Ex. 53); Emergency Manager Order 20 ¶¶ 4.a.6, 4.a.7 (adopted Apr. 25, 2015), <https://www.cityofflint.com/wp-content/uploads/Order-No.-20.pdf> (attached as Ex. 54).

⁵⁴ Emergency Manager Order 20 ¶¶ 4.a.6, 4.a.7, *supra* note 53 (Ex. 54).

⁵⁵ See Mich. Comp. Laws § 141.1563(2); Letter from Gov. Rick Snyder to Hon. Ruth Johnson, Mich. Sec’y of State (Apr. 29, 2015), http://michigan.gov/documents/treasury/Flint_RTAB_Appointments_488251_7.pdf (attached as Ex. 55).

⁵⁶ Emergency Manager Order 3 ¶¶ 4-6, 25 (adopted Apr. 10, 2015), <https://www.cityofflint.com/wp-content/uploads/Order-No.-3.pdf> (attached as Ex. 56). The City Administrator was appointed by the Emergency Manager and can be removed only with the Board’s consent.

⁵⁷ *Id.*

November 16, 2015
Page 11 of 16

and Beverly Walker-Griffiea, Members of the Board; and Natasha Henderson, Flint City Administrator, are responsible for the violations of the Act by Flint's water system which have endangered and will continue to endanger the health of Flint's residents.

A. Flint's water system is in violation of the Lead and Copper Rule's tap-water monitoring, reporting, and notification requirements

The Lead and Copper Rule requires water systems to identify a pool of sampling sites prior to the commencement of a monitoring period.⁵⁸ This requirement is designed to target residences at high risk of lead contamination in drinking water, such as homes served by lead service lines.⁵⁹ In violation of the Rule, Flint's water system does not select sampling sites for lead monitoring based on a pre-established sampling pool. For Flint's most recent completed monitoring period, January–June 2015, the Director of the City's Department of Public Works admitted that Flint “thr[ew] bottles out everywhere just to collect as many [samples] as we can, to try and hit our number.”⁶⁰ Similarly, email correspondence shows that the City has, during several monitoring periods, asked its own employees to submit tap-water samples, without regard to whether the employees were part of a pre-selected sampling pool.⁶¹

Under the Lead and Copper Rule, water systems that contain lead service lines also must draw fifty percent of their tap-water samples from sites served by a lead service line.⁶² Flint's water system does not comply with this requirement. The water system reported to MDEQ that all the sample sites it used during the January–June 2015 monitoring period were residences served by lead service lines.⁶³ Flint's Utilities Administrator, however, admitted that he was not able to verify that all homes sampled were served by lead service lines.⁶⁴ This is because City records concerning the locations of lead service lines in the distribution system are stored on 45,000 paper notecards. Flint began converting these notecards into an electronic spreadsheet this fall, well after the January–June 2015 monitoring period.⁶⁵

⁵⁸ See 40 C.F.R. § 141.86(a).

⁵⁹ *Id.*

⁶⁰ See ACLU of Michigan, *Thirst for Truth: Who's to Blame for Flint Water Crisis?*, <https://www.youtube.com/watch?t=9&y=LTO9irD2fDY> (posted Sept. 23, 2015).

⁶¹ Email from Michael Glasgow, Flint Utilities Adm'r, to Flint municipal staff (June 1, 2015) (attached as Ex. 57).

⁶² 40 C.F.R. § 141.86(a)(8).

⁶³ See, e.g., City of Flint, Lead and Copper Report and Consumer Notice of Lead Result Certificate for Community Water Supply (July 28, 2015) [hereinafter July 28 Report] (attached as Ex. 58).

⁶⁴ See ACLU of Michigan, *Thirst for Truth: Who's to Blame for Flint Water Crisis?*, *supra* note 60.

⁶⁵ See Ron Fonger, *Flint data on lead water lines stored on 45,000 index cards*, Michigan Live, Oct. 1, 2015, http://www.mlive.com/news/flint/index.ssf/2015/10/flint_official_says_data_on_lo.html (attached as Ex. 59).

November 16, 2015
Page 12 of 16

Flint's water system has also failed to sample the same sites across monitoring periods or document the reasons for declining to sample the same sites, as the Lead and Copper Rule requires.⁶⁶ Sampling new sites from one monitoring period to the next is permitted only if a site "is no longer accessible" to the water system or "no longer fits the requirements of a priority site."⁶⁷ Records show that in the January–June 2015 monitoring period, Flint's water system retested only thirteen of the one hundred sites it sampled in the previous monitoring period.⁶⁸ It did not provide the required explanation for these departures from the previous monitoring period's sampling sites.⁶⁹ Upon information and belief, Flint's water system concentrated its monitoring in areas where it anticipated low lead levels, due to recent infrastructure improvements, and selectively retested sites that had previously yielded low lead levels. Such selective sampling violates the Lead and Copper Rule's intention that water systems "do not use only those sampling locations with the lowest lead or copper levels."⁷⁰

Flint's instructions to residents for the collection of tap-water samples also violate the Lead and Copper Rule. The Rule allows residents to collect the tap-water samples used to monitor lead in drinking water, so long as the water system instructs residents of the sampling procedures required by the regulations.⁷¹ Tap-water samples must be "first-draw samples," meaning that the sample must be collected after water in the tap has stood motionless in the plumbing system for at least six hours.⁷² Flint's instructions direct residents to flush their taps for five minutes prior to letting the water sit for the six required hours. This "pre-flushing" has been shown to "result in the minimization of lead capture and significant underestimation of lead levels in drinking water."⁷³ The water system's pre-flush instruction "negates the intent of the [Lead and Copper Rule] to collect compliance

⁶⁶ 40 C.F.R. § 141.86(b)(4).

⁶⁷ U.S. EPA, *Lead and Copper Rule Monitoring and Reporting Guidance for Public Water Systems* 25 (Mar. 2010), <http://water.epa.gov/lawsregs/rulesregs/sdwa/lcr/upload/Revised-Lead-and-Copper-Rule-Monitoring-and-Reporting-Guidance-for-Public-Water-Systems.pdf> (attached as Ex. 60).

⁶⁸ See July 28 Report, *supra* note 63 (reporting that the same sample sites were not used) (Ex. 58); see also Curt Guyette, *Lead Astray: An ACLU of Michigan investigation has found a stream of irregularities in Flint's water tests*, Michigan Democracy Watch Blog, Sept. 14, 2015, <http://aclumich.org/democracywatch/index.php/entry/lead-astray-an-aclu-of-michigan-investigation-has-found-a-stream-of-irregularities-in-flint-s-water-tests> (attached as Ex. 61).

⁶⁹ 40 C.F.R. § 141.90(a)(1)(v).

⁷⁰ U.S. EPA, *Lead and Copper Rule Monitoring and Reporting Guidance for Public Water Systems*, *supra* note 67, at 25 (Ex. 60).

⁷¹ 40 C.F.R. § 141.86(b)(2).

⁷² *Id.* §§ 141.2, 141.86(b)(2).

⁷³ Mem. from Miguel Del Toral, U.S. EPA, to Thomas Poy, U.S. EPA, at 2 (June 24, 2015) (attached as Ex. 62).

November 16, 2015

Page 13 of 16

samples under 'worst-case' conditions,"⁷⁴ and goes "against the intent of the monitoring protocol, since it changes the normal water use of the homeowners in the sample."⁷⁵

Flint's water system is violating the Lead and Copper Rule's reporting requirements by representing to MDEQ that Flint's monitoring practices are in compliance with the Rule. The City's water system did not provide documentation to MDEQ justifying its selection of new sample sites in the January–June 2015 monitoring period, and, upon information and belief, is not accurately reporting information concerning whether sampled sites meet required regulatory criteria.⁷⁶

The Lead and Copper Rule also requires Flint's water system to notify each resident whose tap water was sampled of the lead results.⁷⁷ Upon information and belief, Flint has failed and continues to fail to properly notify all residents whose tap water was tested for lead of the individual monitoring results.

B. Flint's water system has failed to maintain optimal corrosion-control treatment

The Lead and Copper Rule required all large public water systems, including Flint's water system, to install an "optimal corrosion control treatment" program by January 1, 1997.⁷⁸ After a system has optimized its corrosion-control treatment, the regulations require the system to "continue to operate and maintain optimal corrosion control treatment."⁷⁹ Since April 2014, Flint's water system has not maintained an optimal corrosion-control treatment program. Historically, the water system complied with the corrosion-control requirements by purchasing treated water from Detroit. When Flint switched its water source to the Flint River in April 2014, it did nothing to treat the Flint River water to control corrosion. This failure to maintain optimized corrosion control violates the Lead and Copper Rule.

Although Flint's water system has resumed its purchase of treated water from Detroit, it has not disavowed its erroneous interpretation of the Lead and Copper Rule's corrosion-control requirements. Nor has it committed to maintaining optimized corrosion control when it switches water sources again this summer to the KWA pipeline. Flint's water system's failure to maintain an optimized corrosion-control treatment program is likely to recur in the future.

⁷⁴ *Id.*

⁷⁵ Letter from Cynthia Dougherty, U.S. EPA, to Ralph Scott, Alliance for Healthy Homes (Sept. 12, 2008) (attached as Ex. 63).

⁷⁶ See 40 C.F.R. § 191.90(a)(1)(i), (a)(1)(v); *supra* pp. 11-12.

⁷⁷ 40 C.F.R. § 141.85(d)(1).

⁷⁸ *Id.* § 141.81(d)(4).

⁷⁹ *Id.* § 141.82(g).

November 16, 2015
Page 14 of 16

III. The State of Michigan's failure to maintain a schools testing and remediation program violates the Safe Drinking Water Act

The Act requires each state to establish a program "to assist" schools and day care centers in "testing for, and remedying, lead contamination in drinking water."⁸⁰ Test results must be made available at schools, with notification to parents and teachers.⁸¹ Michigan, upon information and belief, does not maintain a program for school lead testing, remediation, and notification.⁸² Accordingly, Governor Snyder and MDEQ Director Wyant are presently in violation of the Act's schools provision.⁸³

IV. Intent to Sue

The City of Flint and Michigan state officials have been and continue to be in violation of the Lead and Copper Rule's requirements for monitoring and sampling tap water for lead, notifying the public of and reporting to the State tap-water monitoring results, and corrosion control. Governor Snyder and MDEQ Director Dan Wyant are in violation of the Act's requirement to maintain a program to assist Michigan schools with testing and remediating lead in school drinking water. These violations are likely to continue and to recur in the future absent a judicial decree ordering City and State officials to comply with the Act. If the City of Flint and the Michigan state officials identified above fail to cure their noncompliance with the Act within sixty days, Concerned Pastors for Social Action, Melissa Mays, ACLU of Michigan, and NRDC will file suit in federal district court seeking declaratory relief, injunctive relief, and litigation costs, as appropriate.

The name, address, and telephone number of each person giving notice pursuant to this letter are:

Concerned Pastors for Social Action
2200 Forrest Hill
Flint, MI 48504
(810) 394-6787
Attention: Pastor Allen Overton

⁸⁰ 42 U.S.C. § 300j-24(d)(1).

⁸¹ *Id.* § 300j-24(d)(2).

⁸² Although MDEQ recently announced "an education campaign" to help Michigan schools learn how to test their water for lead, MDEQ has yet to release the details of this effort, including whether it will offer the kind of assistance with testing, remediation, and notification contemplated by the Safe Drinking Water Act. *See Higgins, Michigan to launch lead education effort statewide, supra* note 44 (Ex. 51).

⁸³ MDEQ has primary enforcement authority in Michigan for the Safe Drinking Water Act. *See* MDEQ, Drinking Water, http://www.michigan.gov/deq/0,4561,7-135-3313_3675---,00.html (last visited Nov. 13, 2015) (attached as Ex. 64).

November 16, 2015
Page 15 of 16

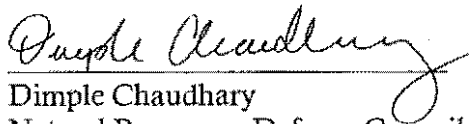
Melissa Mays
3714 Beecher Road
Flint, MI 48503

American Civil Liberties Union of Michigan
2966 Woodward Avenue
Detroit, MI 48103
(313) 578-6814
Attention: Michael Steinberg

Natural Resources Defense Council
1152 15th Street, NW, Suite 300
Washington, DC 20005
(202) 289-2385
Attention: Dimple Chaudhary

Do not hesitate to contact us if you would like to discuss this matter.

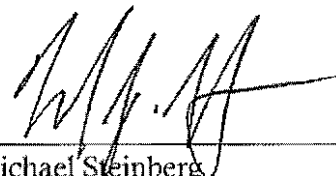
Respectfully,


Dimple Chaudhary
Natural Resources Defense Council
1152 15th Street, NW, Suite 300
Washington, DC 20005
(202) 289-2385

Sarah Tallman
Anjali Waikar
Evan Feinauer
Natural Resources Defense Council
20 North Wacker Drive, Suite 1600
Chicago, IL 60606
(312) 651-7918

*Counsel for Concerned Pastors for Social Action,
Melissa Mays, and Natural Resources Defense
Council*

Enclosure


Michael Steinberg
Brooke Tucker
American Civil Liberties Union of
Michigan
2966 Woodward Avenue
Detroit, MI 48103
(313) 578-6814

*Counsel for American Civil Liberties Union
of Michigan*

November 16, 2015
Page 16 of 16

cc:

Administrator Gina McCarthy
U.S. EPA Headquarters
William Jefferson Clinton Building
1200 Pennsylvania Avenue, NW
Mail Code: 1101A
Washington, DC 20460
McCarthy.gina@Epa.gov

Regional Administrator Susan Hedman
U.S. EPA Region 5
77 West Jackson Boulevard
Mail Code: R-19J
Chicago, IL 60604
Hedman.susan@Epa.gov

Attorney General Bill Schuette
State of Michigan
G. Mennen Williams Building, 7th Floor
525 W. Ottawa Street
P.O. Box 30212
Lansing, MI 48909
miag@michigan.gov

Rennaker, Joanne (DEQ)

From: Krisztian, George (DEQ)
Sent: Thursday, November 05, 2015 1:47 PM
To: Rosenthal, Adam (DEQ)
Cc: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Smith, Carol (DEQ); Shane, Kirby (DEQ); Pieper, Julia (DEQ); Hagerman, Lisa (DEQ); Shaler, Karen (DEQ)
Subject: Re: Question

Thank you!

Sent from my iPhone

On Nov 5, 2015, at 1:23 PM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Yes it does. We do not have any 2014 results prior to November '14.

Adam Rosenthal, EQA
 MDEQ – Office of Drinking Water and Municipal Assistance
 Lansing District – Constitution Hall 1SW
 PO Box 30242
 Lansing, MI 48909
 517-284-6644
 fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Krisztian, George (DEQ)
Sent: Thursday, November 05, 2015 1:20 PM
To: Busch, Stephen (DEQ); Rosenthal, Adam (DEQ)
Cc: Shekter Smith, Liane (DEQ); Smith, Carol (DEQ); Shane, Kirby (DEQ); Pieper, Julia (DEQ); Hagerman, Lisa (DEQ); Shaler, Karen (DEQ)
Subject: Question
Importance: High

Steve and Adam

I am trying to help the lab fill a FOIA request and we need to provide Lab reports for samples provided by the city of Flint for the period of April 1, 2014 thru October 15, 2015.

I was unable to locate any samples for the period of April 1, 2014 to November 11, 2014. Does this jive with your records?

Thank you!
 George

George L. Krisztian
 Flint Action Plan Coordinator
 Laboratory Director
 Michigan Department of Environmental Quality

Desk ph (517) 284-6719
Cell ph (517) 420-5897

Rennaker, Joanne (DEQ)

From: Krisztian, George (DEQ)
Sent: Thursday, November 05, 2015 1:20 PM
To: Busch, Stephen (DEQ); Rosenthal, Adam (DEQ)
Cc: Shekter Smith, Liane (DEQ); Smith, Carol (DEQ); Shane, Kirby (DEQ); Pieper, Julia (DEQ); Hagerman, Lisa (DEQ); Shaler, Karen (DEQ)
Subject: Question
Importance: High

Steve and Adam

I am trying to help the lab fill a FOIA request and we need to provide Lab reports for samples provided by the city of Flint for the period of April 1, 2014 thru October 15, 2015.

I was unable to locate any samples for the period of April 1, 2014 to November 11, 2014. Does this jive with your records?

Thank you!
George

George L. Krisztian
Flint Action Plan Coordinator
Laboratory Director
Michigan Department of Environmental Quality
Desk ph (517) 284-6719
Cell ph (517) 420-5897

Rennaker, Joanne (DEQ)

From: Marc Edwards <edwardsm@vt.edu>
Sent: Sunday, November 01, 2015 12:17 PM
To: Rosenthal, Adam (DEQ)

Here is a search

https://www.google.com/webhp?sourceid=chrome-instant&rlz=1C1PRFC_enUS565US566&ion=1&espv=2&ie=UTF-8#q=flint+blood+lead&tbm=nws

Our web page:
Flintwaterstudy.org

Marc

Rennaker, Joanne (DEQ)

From: Shaler, Karen (DEQ)
Sent: Friday, October 30, 2015 5:28 PM
To: mglasgow@cityofflint.com
Cc: bwright@cityofflint.com; hcroft@cityofflint.com; Natasha Henderson; lytle.darren@epa.gov; SFMatta@lan-inc.com; jwgreen@lan-inc.com; jhenry@gchd.us; Dykema, Linda D. (DHHS); Sygo, Jim (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); Rennaker, Joanne (DEQ)
Subject: City of Flint - Corrosion Control Treatment Operation
Attachments: Flint CCT Operation Letter 10-30-15.pdf

Mr. Mike Glasgow,

Please see the attached letter from Michael F. Prysby, P.E., District Engineer, Office of Drinking Water and Municipal Assistance, Michigan Department of Environmental Quality. The original will be sent via U.S. Mail on Monday, November 2, 2015.

Karen Shaler, Management Assistant to
Chief Deputy Director Jim Sygo
Michigan Department of Environmental Quality
Constitution Hall, 6th Floor South
Phone: 517-284-6709
Fax: 517-241-7401
shalerk@michigan.gov



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING DISTRICT OFFICE



DAN WYANT
DIRECTOR

October 30, 2015

VIA E-MAIL and U.S. MAIL

Mr. Mike Glasgow
Utilities Administrator
City of Flint
4500 North Dort Highway
Flint, Michigan 48505

Dear Mr. Glasgow:

SUBJECT: Water Supply – City of Flint (City) – Corrosion Control Treatment Operation

The purpose of this letter is to outline additional requirements and recommendations regarding the additional corrosion control treatment measures being taken by the City water system.

The City has been purchasing drinking water from the Detroit Water and Sewerage Department (DWSD)/Great Lakes Water Authority (GLWA) since Friday, October 16, 2015. DWSD/GLWA provides corrosion control treatment to its water and DWSD/GLWA has been deemed by the Michigan Department of Environmental Quality (MDEQ) to have fully optimized corrosion control treatment. This optimization requires DWSD/GLWA to provide orthophosphate addition, maintain a minimum dose of 0.9 milligrams per liter (mg/L) as PO_4 , and maintain a DWSD/GLWA plant tap residual of 0.8 mg/L as PO_4 . As part of its optimization, DWSD/GLWA is also required to maintain a minimum pH of 7.0 at the DWSD/GLWA plant tap.

Corrosion Control Treatment and Operation

To further enhance pipe passivation in the City water distribution system, customer service lines, and customer plumbing, **the City shall dose additional orthophosphate to increase distribution system phosphate residual to a minimum of 3.1 mg/L as PO_4 (1.0 mg/L as P).** The City has obtained a Michigan Safe Drinking Water Act, 1976 PA 399, as amended (Act 399), water system construction permit for the installation of this treatment equipment at Control Station 2 and Pump Station 4, construction permit number W151104, issued on October 28, 2015.

The City should also maintain a minimum pH level of 7.0 throughout the City's water distribution system. If pH levels of 7.0 or less are detected, the City shall immediately notify the MDEQ.

As part of the City water system operations, the City shall conduct:

- **Daily monitoring of incoming DWSD/GLWA water for pH and for orthophosphate residual, as PO_4**
- **Daily monitoring of additional orthophosphate dosage, as PO_4**
- **Daily monitoring of water entering the City distribution system for pH and for orthophosphate residual, as PO_4**

This information shall be included in the City's monthly operation report and shall be reported to the MDEQ as required under Administrative Rule 1502 (R 325.11502) of the administrative rules promulgated pursuant to Act 399.

Enhanced Water Quality Parameter Monitoring

The City's revised monitoring schedule dated October 22, 2015, requires quarterly Water Quality Parameter Monitoring at 25 sites throughout the City's water distribution system for temperature (Celcius), Conductivity (mS), pH, Total Alkalinity (mg/L as CaCO_3), Calcium (mg/L as Ca^{2+}), and orthophosphate (mg/L PO_4). Ten of these 25 sites are also used by the City to conduct required total coliform bacteria and chlorine residual monitoring (location numbers 1, 2, 3, 4, 5, 6, 7, 8, CS, and WS). **At these ten locations, the City shall also conduct weekly monitoring for the following parameters at the same time that total coliform bacteria and chlorine residual monitoring is conducted to further assess water stability:**

- Turbidity (NTU)
- Iron (mg/L)
- Orthophosphate (mg/L PO_4)
- pH
- Total Alkalinity (mg/L as CaCO_3)
- Calcium (mg/L as Ca^{2+})
- Chloride (mg/L as Cl^-)
- Temperature (Celcius)
- Conductivity (mS)

In addition to the 10 locations, the entry point to the distribution system should be one of the locations for enhanced water quality parameter monitoring.

If orthophosphate residual levels less than 3.1 mg/L as PO_4 (1.0 mg/L as P) are detected at any of these locations, then orthophosphate dosage shall be increased to achieve the minimum phosphate residual of 3.1 mg/L as PO_4 (1.0 mg/L as P) at all locations. In addition, if pH levels of 7.0 or less are detected at any of these locations, the City shall immediately notify the MDEQ.

Corrosion Control Treatment Test Loops

To further confirm the effectiveness of corrosion control treatment and the City's operations, it is recommended that the City construct, install, and monitor test loops of service line and plumbing materials. Instructions for construction, installation, and monitoring of these test loops can be obtained from the United States Environmental Protection Agency's (U.S. EPA) Office of Research and Development. The U.S. EPA has also offered to provide analytical services to support this investigative effort. Please contact Mr. Darren Lytle, Acting Branch Chief, at 512-569-7432 or lytle.darren@epa.gov.

Lead Service Line Verification Sampling

The City has been reviewing customer service connection records in order to confirm customer service line materials at each connection. The U.S. EPA has developed a sampling procedure that can be used to help verify the presence of lead service lines and it is recommended that the City conduct this sampling at a selection of customer locations for this purpose. Information regarding this verification sampling can also be obtained from Mr. Lytle. Any water analysis for samples meeting the criteria for inclusion in the 90th percentile calculation for lead and copper compliance must be completed by a certified laboratory.

Mr. Mike Glasgow

3

October 30, 2015

Customer Household Exposure Assessment

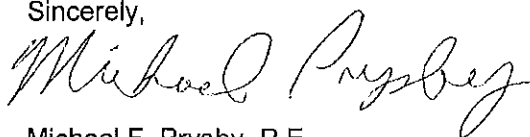
The Michigan Department of Health and Human Services (MDHHS) is continuing to conduct blood lead level testing for children in the City. Families with children found to have elevated blood lead levels will be asked to have an elevated blood lead level investigation conducted at their residence that will include a lead exposure assessment, including the contribution of lead from water service lines and premise plumbing. This diagnostic testing is different than the first draw sampling being conducted by the City and should help further substantiate the effectiveness of corrosion control treatment. Any water analysis samples meeting the criteria for inclusion in the 90th percentile calculation for compliance purposes for lead and copper must be completed by a certified laboratory.

Flint Water Treatment Plant Evaluation of Karegnondi Water Authority (KWA) Raw Water

The City is planning to change source water in the next year to raw water from Lake Huron purchased from the KWA. The City is required to evaluate the Flint Water Treatment Plant (WTP) processes related to optimization of corrosion control treatment using source water purchased from the KWA to determine if any adjustments are necessary. It is recognized that full scale testing at the Flint WTP may not be feasible. A report of this evaluation shall be provided to our office for review and approval prior to initiating service of this treated water to its customers.

If you have any questions regarding this correspondence, please contact me at the number below or at prysbym@michigan.gov.

Sincerely,



Michael F. Prysby, P.E.
District Engineer
Field Operations Section
Office of Drinking Water and
Municipal Assistance
517-290-8817

cc: Mr. Brent Wright, City of Flint
Mr. Howard Croft, City of Flint
Ms. Natasha Henderson, City of Flint
Mr. Darren Lytle, U.S. EPA
Mr. Samir F. Matta, P.E., Lockwood, Andrews & Newnam, Inc.
Mr. Warren Green, Lockwood, Andrews & Newnam, Inc.
Mr. James Henry, Genesee County Health Department
Dr. Linda Dykema, MDHHS
Mr. Jim Sygo, Chief Deputy Director, MDEQ
Mr. Stephen Busch, MDEQ
Mr. Adam Rosenthal, MDEQ

Rennaker, Joanne (DEQ)

From: Krisztian, George (DEQ)
Sent: Thursday, October 29, 2015 4:16 PM
To: Rosenthal, Adam (DEQ)
Subject: Latest Data Pull
Attachments: Flint Home Owner Data September 3 thru October 28 2015 Short Version.xlsx

Adam,

Attached is the spreadsheet from the latest data pull I did.

George

SAMPLE #	Contact	SUBDATE	ACODE	RESULT	INVADD1	INVADD2	INVADD3	Wssh_Pool
LF81253	MIKE GLASGOW	03-Sep-15	PB	0.028	1623 NEOME DR	FLINT	48503	2310
LF81254	MIKE GLASGOW	03-Sep-15	PB	0.002	1201 MAXINE ST	FLINT	48503	2310
LF82706	MIKE GLASGOW	15-Sep-15	PB	0.005	2553 SWAYZE	FLINT	48503	2310
LF82707	MIKE GLASGOW	15-Sep-15	PB	0.002	1001 DUPONT ST	FLINT	48504	2310
LF82708	MIKE GLASGOW	15-Sep-15	PB	0.004	914 MAXINE ST 1	FLINT	48503	2310
LF82709	MIKE GLASGOW	15-Sep-15	PB	0.001	914 MAXINE ST 2	FLINT	48503	2310
LF84313	MIKE GLASGOW	23-Sep-15	PB	0.002	1025 KENSINGTON AVE	FLINT	48503	2310
LF84314	MIKE GLASGOW	23-Sep-15	PB	0.005	2616 HILLCREST	FLINT	48507	2310
LF84315	MIKE GLASGOW	23-Sep-15	PB	0.007	1422 CLANCY	FLINT	48503	2310
LF84316	MIKE GLASGOW	23-Sep-15	PB	0.020	1614 WOODLAWN PARK DR	FLINT	48503	2310
LF84317	MIKE GLASGOW	23-Sep-15	PB	0.001	2761 CHICAGO BLVD	FLINT	48503	2310
LF84896	MIKE GLASGOW	25-Sep-15	PB	0.001	618 E SHERMAN	FLINT	48505	2310
LF84897	MIKE GLASGOW	25-Sep-15	PB	0.327	2801 YALE ST	FLINT	48503	2310
LF84898	MIKE GLASGOW	25-Sep-15	PB	0.006	5602 BALDWIN BLVD	FLINT	48505	2310
LF84899	MIKE GLASGOW	25-Sep-15	PB	0.000	1930 COLCHESTER	FLINT	48503	2310
LF84900	MIKE GLASGOW	25-Sep-15	PB	0.002		FLINT		2310
LF85285	MIKE GLASGOW	29-Sep-15	PB	0.003	3216 HAWTHORNE DR	FLINT	48503	2310
LF85286	MIKE GLASGOW	29-Sep-15	PB	0.008	841 DICKINSON ST	FLINT	48504	2310
LF85287	MIKE GLASGOW	29-Sep-15	PB	0.013	440 E ATHERTON	FLINT	48507	2310
LF85288	MIKE GLASGOW	29-Sep-15	PB	0.003	926 MAXINE ST	FLINT	48503	2310
LF85289	MIKE GLASGOW	29-Sep-15	PB	0.010	1426 MAPLEWOOD AVE	FLINT	48506	2310
LF85290	MIKE GLASGOW	29-Sep-15	PB	0.006	1213 BEARD ST	FLINT	48503	2310
LF85291	MIKE GLASGOW	29-Sep-15	PB	0.002	3513 BENNETT AVE	FLINT	48506	2310
LF85329	MIKE GLASGOW	29-Sep-15	PB	0.019	ST JOHN VIANNEY CATHOLIC	FLINT		2310
LF85330	MIKE GLASGOW	29-Sep-15	PB	0.000	1505 W COURT ST/POWERS	FLINT	48503	2310
LF85601	MIKE GLASGOW	30-Sep-15	PB	0.002	704 GARLAND ST	FLINT	48503	2310
LF85602	MIKE GLASGOW	30-Sep-15	PB	0.006	218 UNIVERSITY AVE	FLINT	48503	2310
LF85603	MIKE GLASGOW	30-Sep-15	PB	0.004	605 GARLAND ST/1	FLINT	48503	2310
LF85604	MIKE GLASGOW	30-Sep-15	PB	0.000	605 GARLAND ST/2	FLINT	48503	2310
LF85605	MIKE GLASGOW	30-Sep-15	PB	0.001	705 GARLAND ST	FLINT	48503	2310
LF85606	MIKE GLASGOW	30-Sep-15	PB	0.002	2607 WALTER ST	FLINT	48504	2310
LF85607	MIKE GLASGOW	30-Sep-15	PB	0.012	UNKNOWN	FLINT		2310
LF85608	MIKE GLASGOW	30-Sep-15	PB	0.001	125 E UNION ST/#1	FLINT	48502	2310
LF85609	MIKE GLASGOW	30-Sep-15	PB	0.004	125 E UNION ST #6	FLINT	48502	2310
LF85610	MIKE GLASGOW	30-Sep-15	PB	0.002	401 BURROUGHS AVE	FLINT	48507	2310
LF85611	MIKE GLASGOW	30-Sep-15	PB	0.075	224 FOURTH ST	FLINT	48503	2310
LF85612	MIKE GLASGOW	30-Sep-15	PB	0.002	1939 LAUREL OAK DR	FLINT	48507	2310
LF85613	MIKE GLASGOW	30-Sep-15	PB	0.000	4307 OGEMA AVE	FLINT	48507	2310
LF85614	MIKE GLASGOW	30-Sep-15	PB	0.003	528 S LYNCH ST	FLINT	48503	2310
LF85615	MIKE GLASGOW	30-Sep-15	PB	0.004	2717 CONCORD ST	FLINT	48504	2310

LF85795	MIKE GLASGOW	01-Oct-15	PB	0.002	2426 BASSETT PL	FLINT	48504	2310
LF85796	MIKE GLASGOW	01-Oct-15	PB	0.000	2422 BASSETT PLACE	FLINT	48504	2310
LF85797	MIKE GLASGOW	01-Oct-15	PB	0.000	3729 WOODROW AVE	FLINT	48506	2310
LF85798	MIKE GLASGOW	01-Oct-15	PB	0.007	2430 BASSETT PL	FLINT	48504	2310
LF85799	MIKE GLASGOW	01-Oct-15	PB	0.000	3617 CHURCHILL AVE	FLINT	48506	2310
LF85800	MIKE GLASGOW	01-Oct-15	PB	0.001	418 W PULASKI	FLINT	48505	2310
LF85801	MIKE GLASGOW	01-Oct-15	PB	0.006	1126 WOODSIDE DR	FLINT	48503	2310
LF85802	MIKE GLASGOW	01-Oct-15	PB	0.000	1222 INGLESIDE AVE	FLINT	48507	2310
LF85856	MIKE GLASGOW	01-Oct-15	PB	0.005	1308 WALNUT	FLINT	48503	2310
LF85857	MIKE GLASGOW	01-Oct-15	PB	0.003	1206 WILLOW ST	FLINT	48503	2310
LF85858	MIKE GLASGOW	01-Oct-15	PB	0.002	2708 CRESTWOOD DR	FLINT	48503	2310
LF85859	MIKE GLASGOW	01-Oct-15	PB	0.006	2721 COVENTRY CT	FLINT	48503	2310
LF85860	MIKE GLASGOW	01-Oct-15	PB	0.041	2319 BAGLEY	FLINT	48504	2310
LF85861	MIKE GLASGOW	01-Oct-15	PB	0.002	4214 KELLAR AVE	FLINT	48504	2310
LF85862	MIKE GLASGOW	01-Oct-15	PB	0.000	605 CHANDLER	FLINT	48503	2310
LF85863	MIKE GLASGOW	01-Oct-15	PB	0.005	904 E 7TH ST	FLINT	48503	2310
LF85929	MIKE GLASGOW	02-Oct-15	PB	0.011	3120 NORWOOD DR	FLINT	48503	2310
LF85930	MIKE GLASGOW	02-Oct-15	PB	0.003	2207 HILLS ST	FLINT	48503	2310
LF85931	MIKE GLASGOW	02-Oct-15	PB	0.000	1359 DONALDSON #2	FLINT	48504	2310
LF85932	MIKE GLASGOW	02-Oct-15	PB	0.002	612 E 3RD ST APT #3	FLINT	48503	2310
LF85933	MIKE GLASGOW	02-Oct-15	PB	0.000	3701 N AVERILL AVE	FLINT	48506	2310
LF85934	MIKE GLASGOW	02-Oct-15	PB	0.001	819 KENSINGTON	FLINT	48503	2310
LF85935	MIKE GLASGOW	02-Oct-15	PB	0.018	2708 CRESTWOOD DR	FLINT	48503	2310
LF85936	MIKE GLASGOW	02-Oct-15	PB	0.000	1359 DONALDSON ST	FLINT	48504	2310
LF85937	MIKE GLASGOW	02-Oct-15	PB	0.001	3705 WHITTIER AVE	FLINT	48506	2310
LF85938	MIKE GLASGOW	02-Oct-15	PB	0.003	3014 BEGOLE ST	FLINT	48504	2310
LF85939	MIKE GLASGOW	02-Oct-15	PB	0.001	4219 GREENLAWN DR	FLINT	48504	2310
LF85940	MIKE GLASGOW	02-Oct-15	PB	0.007	602 W STEWART	FLINT	48505	2310
LF85941	MIKE GLASGOW	02-Oct-15	PB	0.010	1329 WASHINGTON	FLINT	48503	2310
LF85942	MIKE GLASGOW	02-Oct-15	PB	0.001	533 MACDONALD	FLINT	48507	2310
LF85943	MIKE GLASGOW	02-Oct-15	PB	0.005	1210 KENSINGTON	FLINT	48503	2310
LF85944	MIKE GLASGOW	02-Oct-15	PB	0.004	932 KENSINGTON AVE	FLINT	48503	2310
LF85945	MIKE GLASGOW	02-Oct-15	PB	0.000	G3139 HOGARTH AVE #1	FLINT	48532	2310
LF85946	MIKE GLASGOW	02-Oct-15	PB	0.002	G3139 HOGARTH #2	FLINT	48532	2310
LF85947	MIKE GLASGOW	02-Oct-15	PB	0.000	G3139 HOGARTH AVE	FLINT	48532	2310
LF85948	MIKE GLASGOW	02-Oct-15	PB	0.030	1210 WALKER ST	FLINT	48503	2310
LF85949	MIKE GLASGOW	02-Oct-15	PB	0.009	927 KENSINGTON AVE	FLINT	48503	2310
LF85950	MIKE GLASGOW	02-Oct-15	PB	0.002	927 KENSINGTON AVE #2	FLINT	48503	2310
LF85951	MIKE GLASGOW	02-Oct-15	PB	0.001	1005 KENSINGTON AVE	FLINT	48503	2310
LF85952	MIKE GLASGOW	02-Oct-15	PB	0.003	1002 KENSINGTON AVE APT #1	FLINT	48503	2310
LF85953	MIKE GLASGOW	02-Oct-15	PB	0.004	1006 KENSINGTON AVE	FLINT	48503	2310

LF85954	MIKE GLASGOW	02-Oct-15	PB	0.000	23009 PIERCE ST #2	FLINT	48503	2310
LF85955	MIKE GLASGOW	02-Oct-15	PB	0.007	1319 BEARD ST	FLINT	48503	2310
LF85956	MIKE GLASGOW	02-Oct-15	PB	0.009	1205 BLANCHARD	FLINT	48503	2310
LF85957	MIKE GLASGOW	02-Oct-15	PB	0.000	1001 KENSINGTON AVE	FLINT	48503	2310
LF85958	MIKE GLASGOW	02-Oct-15	PB	0.002	540 S SAGINAW ST	FLINT	48502	2310
LF85959	MIKE GLASGOW	02-Oct-15	PB	0.001	736 WALDMAN	FLINT	48507	2310
LF85960	MIKE GLASGOW	02-Oct-15	PB	0.000	2309 PIERCE ST	FLINT	48503	2310
LF86477	MIKE GLAGOW	06-Oct-15	PB	0.000	1401 S DORT HWY #4	FLINT	48503	2310
LF86478	MIKE GLAGOW	06-Oct-15	PB	0.008	1401 S DORT HWY #3	FLINT	48503	2310
LF86479	MIKE GLAGOW	06-Oct-15	PB	0.000	1401 S DORT HWY #5	FLINT	48503	2310
LF86480	MIKE GLAGOW	06-Oct-15	PB	0.000	3314 DEARBORN ST	FLINT	48507	2310
LF86481	MIKE GLAGOW	06-Oct-15	PB	0.000	3837 RISEDORPH AVE #2	FLINT	48506	2310
LF86482	MIKE GLAGOW	06-Oct-15	PB	0.000	1806 E WEBSTER RD LOT 168	FLINT	48505	2310
LF86483	MIKE GLAGOW	06-Oct-15	PB	0.003	1107 MASON ST #1	FLINT	48503	2310
LF86484	MIKE GLAGOW	06-Oct-15	PB	0.003	1107 MASON ST #2	FLINT	48503	2310
LF86485	MIKE GLAGOW	06-Oct-15	PB	0.000	3837 RISEDORPH AVE #1	FLINT	48506	2310
LF86486	MIKE GLAGOW	06-Oct-15	PB	0.004	1563 BRADLEY AVE	FLINT	48503	2310
LF86487	MIKE GLAGOW	06-Oct-15	PB	0.001	815 BRADLEY AVE	FLINT	48503	2310
LF86488	MIKE GLAGOW	06-Oct-15	PB	0.015	1115 MASON ST	FLINT	48503	2310
LF86489	MIKE GLAGOW	06-Oct-15	PB	0.000	2319 BAGLEY ST	FLINT	48504	2310
LF86490	MIKE GLAGOW	06-Oct-15	PB	0.002	2522 NOLEN DR	FLINT	48504	2310
LF86491	MIKE GLAGOW	06-Oct-15	PB	0.002	3402 HAWTHORNE DR	FLINT	48503	2310
LF86492	MIKE GLAGOW	06-Oct-15	PB	0.001	3005 THOM	FLINT	48506	2310
LF86493	MIKE GLAGOW	06-Oct-15	PB	0.151	1410 BLUEBERRY LN	FLINT	48507	2310
LF86494	MIKE GLAGOW	06-Oct-15	PB	0.004	1216 COURT ST	FLINT	48503	2310
LF86495	MIKE GLAGOW	06-Oct-15	PB	0.012	1715 KANSAS AVE	FLINT	48506	2310
LF86496	MIKE GLAGOW	06-Oct-15	PB	0.016	3009 THOM ST	FLINT	48506	2310
LF86497	MIKE GLAGOW	06-Oct-15	PB	0.002	3309 MILLER RD	FLINT	48503	2310
LF86498	MIKE GLAGOW	06-Oct-15	PB	0.000	3201 COLORADO AVE	FLINT	48506	2310
LF86499	MIKE GLAGOW	06-Oct-15	PB	0.000				2310
LF86500	MIKE GLAGOW	06-Oct-15	PB	0.008				2310
LF86501	MIKE GLAGOW	06-Oct-15	PB	0.000	2400 N SAGINAW BLDG C	FLINT	48505	2310
LF86502	MIKE GLAGOW	06-Oct-15	PB	0.002	920 N GENESEE ST	FLINT	48504	2310
LF86503	MIKE GLAGOW	06-Oct-15	PB	0.002	1861 SPRINGFIELD ST	FLINT	48503	2310
LF86504	MIKE GLAGOW	06-Oct-15	PB	0.003	3802 PENBROOK LN	FLINT	48507	2310
LF86505	MIKE GLAGOW	06-Oct-15	PB	0.053	2801 YALE ST #2	FLINT	48503	2310
LF86506	MIKE GLAGOW	06-Oct-15	PB	0.002	916 W GENESEE ST	FLINT	48504	2310
LF86507	MIKE GLAGOW	06-Oct-15	PB	0.253	2801 YALE ST	FLINT	48503	2310
LF86508	MIKE GLAGOW	06-Oct-15	PB	0.004	633 W BISHOP AVE	FLINT	48505	2310
LF86509	MIKE GLAGOW	06-Oct-15	PB	0.002	2400 N SAGINAW BLDG G	FLINT	48505	2310
LF86510	MIKE GLAGOW	06-Oct-15	PB	0.000	2429 KANSAS #1	FLINT	48506	2310

LF86511	MIKE GLAGOW	06-Oct-15	PB	0.001	3201 MILDRED ST	FLINT	48505	2310
LF86512	MIKE GLAGOW	06-Oct-15	PB	0.000	2429 KANSAS #2	FLINT	48506	2310
LF86513	MIKE GLAGOW	06-Oct-15	PB	0.035	2400 N SAGINAW ST BLDG E	FLINT	48505	2310
LF86514	MIKE GLAGOW	06-Oct-15	PB	0.000	1401 S DORT HWY #1	FLINT	48503	2310
LF86515	MIKE GLAGOW	06-Oct-15	PB	0.012	4905 CANTERBURY	FLINT	48504	2310
LF86516	MIKE GLAGOW	06-Oct-15	PB	0.000	1401 S DORT HWY #2	FLINT	48503	2310
LF86517	MIKE GLAGOW	06-Oct-15	PB	0.005	2031 CROOKED LN	FLINT	48503	2310
LF86518	MIKE GLAGOW	06-Oct-15	PB	0.003	918 W MCCLELLAN ST	FLINT	48504	2310
LF86519	MIKE GLAGOW	06-Oct-15	PB	0.000	4307 BERGER DR	FLINT	48504	2310
LF86520	MIKE GLAGOW	06-Oct-15	PB	0.004	2100 KANSAS AVE	FLINT	48506	2310
LF86521	MIKE GLAGOW	06-Oct-15	PB	0.003	1119 MASON ST	FLINT	48503	2310
LF87007	MIKE GLASGOW	08-Oct-15	PB	0.000	G3376 BRANCH RD	FLINT		2310
LF87008	MIKE GLASGOW	08-Oct-15	PB	0.010	1112 BEARD ST	FLINT	48503	2310
LF87009	MIKE GLASGOW	08-Oct-15	PB	0.006	719 KENSINGTON AVE	FLINT	48503	2310
LF87010	MIKE GLASGOW	08-Oct-15	PB	0.004	3106 CLEMENT ST	FLINT	48504	
LF87011	MIKE GLASGOW	08-Oct-15	PB	0.005	1112 BEARD ST	FLINT	48503	2310
LF87012	MIKE GLASGOW	08-Oct-15	PB	0.000	1107 BEARD ST	FLINT	48503	2310
LF87013	MIKE GLASGOW	08-Oct-15	PB	0.001	3001 HENRY ST	FLINT	48506	2310
LF87014	MIKE GLASGOW	08-Oct-15	PB	0.003	2131 SHERFF PL	FLINT	48503	2310
LF87015	MIKE GLASGOW	08-Oct-15	PB	0.001	2818 EPSILON TR	FLINT	48506	2310
LF87016	MIKE GLASGOW	08-Oct-15	PB	0.001	1107 BEARD ST	FLINT	48503	2310
LF87017	MIKE GLASGOW	08-Oct-15	PB	0.003	2602 PEWANAGA PL	FLINT	48507	2310
LF87018	MIKE GLASGOW	08-Oct-15	PB	0.008	839 W ALMA	FLINT	48505	2310
LF87019	MIKE GLASGOW	08-Oct-15	PB	0.005	501 W KEARSLEY	FLINT		2310
LF87020	MIKE GLASGOW	08-Oct-15	PB	0.002	3106 CLEMENT	FLINT	48504	2310
LF87021	MIKE GLASGOW	08-Oct-15	PB	0.006	725 BLANCHARD AVE	FLINT	48503	2310
LF87022	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #7	FLINT	48503	2310
LF87023	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #6	FLINT	48503	2310
LF87024	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #5	FLINT	48503	2310
LF87025	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #4	FLINT	48503	2310
LF87026	MIKE GLASGOW	08-Oct-15	PB	0.002	211 W OAKLEY ST #3	FLINT	48503	
LF87027	MIKE GLASGOW	08-Oct-15	PB	0.002	211 W OAKLEY ST #2	FLINT	48503	
LF87028	MIKE GLASGOW	08-Oct-15	PB	0.001	211 W OAKLEY ST #1	FLINT	48503	2310
LF87029	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #12	FLINT	48503	2310
LF87030	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #11	FLINT	48503	2310
LF87031	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #10	FLINT	48503	2310
LF87032	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #9	FLINT	48503	2310
LF87033	MIKE GLASGOW	08-Oct-15	PB	0.000	211 W OAKLEY ST #8	FLINT	48503	2310
LF87034	MIKE GLASGOW	08-Oct-15	PB	0.008	333 BEDE ST	FLINT	48507	
LF87035	MIKE GLASGOW	08-Oct-15	PB	0.000	2013 WEAVER ST	FLINT	48506	
LF87036	MIKE GLASGOW	08-Oct-15	PB	0.007	1013 BEARD ST	FLINT	48503	

LF87037	MIKE GLASGOW	08-Oct-15	PB	0.000	3447 BARTH ST	FLINT	48504	
LF87038	MIKE GLASGOW	08-Oct-15	PB	0.008	3013 CHICAGO BLVD	FLINT	48503	
LF87039	MIKE GLASGOW	08-Oct-15	PB	0.003	1651 N GRAND TRAVERSE	FLINT	48503	
LF87040	MIKE GLASGOW	08-Oct-15	PB	0.074	318 BUCKINGHAM AVE	FLINT	48507	
LF87041	MIKE GLASGOW	08-Oct-15	PB	0.003	1901 E 2ND ST	FLINT	48503	2310
LF87042	MIKE GLASGOW	08-Oct-15	PB	0.006	2925 CHICAGO BLVD	FLINT	48503	2310
LF87043	MIKE GLASGOW	08-Oct-15	PB	0.006	1820 DELAWARE AVE	FLINT	48506	
LF87044	MIKE GLASGOW	08-Oct-15	PB	0.001	318 BEDE ST	FLINT	48507	
LF87045	MIKE GLASGOW	08-Oct-15	PB	0.000	2309 WISCONSIN AVE	FLINT	48506	
LF87046	MIKE GLASGOW	08-Oct-15	PB	0.001	2701 DAKOTA	FLINT	48506	
LF87047	MIKE GLASGOW	08-Oct-15	PB	0.000	3701 WOODROW AVE	FLINT	48506	
LF87048	MIKE GLASGOW	08-Oct-15	PB	0.006	2018 CANNIFF ST	FLINT	48504	2310
LF87049	MIKE GLASGOW	08-Oct-15	PB	0.002	337 BUCKINGHAM AVE	FLINT	48507	2310
LF87050	MIKE GLASGOW	08-Oct-15	PB	0.000	3807 N CENTER RD	FLINT	48506	2310
LF87051	MIKE GLASGOW	08-Oct-15	PB	0.000	3310 E COURT ST	FLINT	48506	2310
LF87052	MIKE GLASGOW	08-Oct-15	PB	0.011	721 FRANK ST	FLINT	48504	
LF87053	MIKE GLASGOW	08-Oct-15	PB	0.001	3807 N CENTER RD	FLINT	48506	2310
LF87054	MIKE GLASGOW	08-Oct-15	PB	0.000	5813 GRIGGS DR	FLINT	48504	
LF87055	MIKE GLASGOW	08-Oct-15	PB	0.003	3709 SHERRY DR	FLINT	48506	2310
LF87056	MIKE GLASGOW	08-Oct-15	PB	0.006	3702 RISEDORPH AVE	FLINT	48506	2310
LF87057	MIKE GLASGOW	08-Oct-15	PB	0.004	629 BURROUGHS	FLINT	48507	2310
LF87058	MIKE GLASGOW	08-Oct-15	PB	0.003	423 S FRANKLIN AVE	FLINT	48503	
LF87059	MIKE GLASGOW	08-Oct-15	PB	0.002	901 W SECOND ST	FLINT	48503	2310
LF87060	MIKE GLASGOW	08-Oct-15	PB	0.009	3917 RED ARROW RD	FLINT	48507	2310
LF87061	MIKE GLASGOW	08-Oct-15	PB	0.000	3810 HERRICK ST	FLINT	48532	2310
LF87062	MIKE GLASGOW	08-Oct-15	PB	0.005	2309 TORONTO ST	FLINT	48507	2310
LF87063	MIKE GLASGOW	08-Oct-15	PB	0.002	1305 MAPLEWOOD AVE	FLINT	48502	2310
LF87064	MIKE GLASGOW	08-Oct-15	PB	0.000				2310
LF87065	MIKE GLASGOW	08-Oct-15	PB	0.009		FLINT		2310
LF87364	MIKE GLASGOW	13-Oct-15	PB	0.003	3010 MCCLURE	FLINT	48506	2310
LF87365	MIKE GLASGOW	13-Oct-15	PB	0.000	1101 S SAGINAW ST RM N102	FLINT	48502	2310
LF87366	MIKE GLASGOW	13-Oct-15	PB	0.017	3200 ROBERT T LONGWAY #2	FLINT	48506	2310
LF87367	MIKE GLASGOW	13-Oct-15	PB	0.001	1809 VALLEY LANE	FLINT	48503	2310
LF87368	MIKE GLASGOW	13-Oct-15	PB	0.002	2938 PARKSIDE DR	FLINT	48503	2310
LF87369	MIKE GLASGOW	13-Oct-15	PB	0.000	3713 SHERRY DR	FLINT	48506	2310
LF87370	MIKE GLASGOW	13-Oct-15	PB	0.000	4123 COGGINS AVE	FLINT	48506	2310
LF87371	MIKE GLASGOW	13-Oct-15	PB	0.003	3719 KENT ST	FLINT	48503	2310
LF87372	MIKE GLASGOW	13-Oct-15	PB	0.000	4500 N DORT HWY	FLINT	48505	2310
LF87373	MIKE GLASGOW	13-Oct-15	PB	0.014	1302 LINCOLN AVE	FLINT	48507	2310
LF87374	MIKE GLASGOW	13-Oct-15	PB	0.005	311 S VERNON AVE	FLINT	48503	2310
LF87375	MIKE GLASGOW	13-Oct-15	PB	0.007	2715 LAKEWOOD DR	FLINT	48507	2310

LF87376	MIKE GLASGOW	13-Oct-15	PB	0.002	3409 SANTA CLARA CT	FLINT	48504	2310
LF87377	MIKE GLASGOW	13-Oct-15	PB	0.003	1830 HAMPDEN RD	FLINT	48503	2310
LF87378	MIKE GLASGOW	13-Oct-15	PB	0.000	3514 BRANDON ST	FLINT	48503	2310
LF87379	MIKE GLASGOW	13-Oct-15	PB	0.000	336 BUCKINGHAM AVE	FLINT		2310
LF87380	MIKE GLASGOW	13-Oct-15	PB	0.001	3610 SHERRY DR	FLINT	48506	2310
LF87381	MIKE GLASGOW	13-Oct-15	PB	0.002	3214 N AVERILL AVE	FLINT	48506	2310
LF87382	MIKE GLASGOW	13-Oct-15	PB	0.001	1101 S SAGINAW ST RM 20	FLINT	48502	2310
LF87383	MIKE GLASGOW	13-Oct-15	PB	0.000	1160 DUPONT ST	FLINT	48504	2310
LF87384	MIKE GLASGOW	13-Oct-15	PB	0.001	4910 EDWARDS AVE	FLINT	48505	2310
LF87385	MIKE GLASGOW	13-Oct-15	PB	0.006	3622 GRATIOT AVE	FLINT	48503	2310
LF87386	MIKE GLASGOW	13-Oct-15	PB	0.000	414 CHALMERS ST	FLINT	48503	2310
LF87387	MIKE GLASGOW	13-Oct-15	PB	0.004	1001 BLANCHARD AVE	FLINT	48503	2310
LF87388	MIKE GLASGOW	13-Oct-15	PB	0.005	3123 CHAMBERS	FLINT	48507	2310
LF87389	MIKE GLASGOW	13-Oct-15	PB	0.007	7002 PEMBERTON DR	FLINT	48505	2310
LF87390	MIKE GLASGOW	13-Oct-15	PB	0.019	3613 LEITH ST	FLINT	48506	2310
LF87391	MIKE GLASGOW	13-Oct-15	PB	0.002	360 BUCKINGHAM AVE	FLINT	48507	2310
LF87392	MIKE GLASGOW	13-Oct-15	PB	0.000	3800 RICHFIELD RD	FLINT		2310
LF87393	MIKE GLASGOW	13-Oct-15	PB	0.002	3840 GLOUCESTER ST	FLINT	48503	2310
LF87394	MIKE GLASGOW	13-Oct-15	PB	0.000	822 FRANK ST	FLINT	48504	2310
LF87395	MIKE GLASGOW	13-Oct-15	PB	0.000	2516 NOLEN DR	FLINT	48504	2310
LF87396	MIKE GLASGOW	13-Oct-15	PB	0.017	2001 N CENTER RD	FLINT	48506	2310
LF87397	MIKE GLASGOW	13-Oct-15	PB	0.000	3224 N AVERILL AVE	FLINT	48506	2310
LF87398	MIKE GLASGOW	13-Oct-15	PB	0.000	3741 JOAL LN	FLINT	48506	2310
LF87399	MIKE GLASGOW	13-Oct-15	PB	0.021	4301 OGEMA AVE	FLINT	48507	2310
LF87400	MIKE GLASGOW	13-Oct-15	PB	0.002	1310 FOREST HILL ST	FLINT	48504	2310
LF87401	MIKE GLASGOW	13-Oct-15	PB	0.010	329 W ELDRIDGE AVE	FLINT	48505	2310
LF87402	MIKE GLASGOW	13-Oct-15	PB	0.003	2250 NOLEN DR	FLINT	48504	2310
LF87403	MIKE GLASGOW	13-Oct-15	PB	0.027	5838 EDGAR HOLT DR	FLINT	48505	2310
LF87404	MIKE GLASGOW	13-Oct-15	PB	0.002	3156 DAKOTA AVE	FLINT	48506	2310
LF87405	MIKE GLASGOW	13-Oct-15	PB	0.000	1401 WOODLAWN PARK DR	FLINT	48503	2310
LF87406	MIKE GLASGOW	13-Oct-15	PB	0.007	705 SIMCOE AVE	FLINT	48507	2310
LF87407	MIKE GLASGOW	13-Oct-15	PB	0.006	2101 STEDRON ST	FLINT	48504	2310
LF87408	MIKE GLASGOW	13-Oct-15	PB	0.002	3200 ROBERT T LONGWAY	FLINT	48506	2310
LF87409	MIKE GLASGOW	13-Oct-15	PB	0.003	340 BUCKINGHAM AVE	FLINT		2310
LF87410	MIKE GLASGOW	13-Oct-15	PB	0.002	1805 LAPEER RD	FLINT	48503	2310
LF87411	MIKE GLASGOW	13-Oct-15	PB	0.001	6707 PARKBELT DR	FLINT	48505	2310
LF87412	MIKE GLASGOW	13-Oct-15	PB	0.005	924 ALVORD AVE	FLINT	48507	2310
LF87413	MIKE GLASGOW	13-Oct-15	PB	0.002	359 TENNYSON AVE	FLINT	48507	2310
LF87414	MIKE GLASGOW	13-Oct-15	PB	0.003	1106 KENSINGTON AVE	FLINT	48503	2310
LF87415	MIKE GLASGOW	13-Oct-15	PB	0.000	902 E COURT ST	FLINT	48503	2310
LF87416	MIKE GLASGOW	13-Oct-15	PB	0.020	3405 WESTWOOD PKY	FLINT		2310

LF87417	MIKE GLASGOW	13-Oct-15	PB	0.001	2565 BAGLEY ST	FLINT	48504	2310
LF87418	MIKE GLASGOW	13-Oct-15	PB	0.000	820 GARLAND	FLINT	48505	2310
LF87419	MIKE GLASGOW	13-Oct-15	PB	0.000	1160 DUPONT ST	FLINT	48504	2310
LF87420	MIKE GLASGOW	13-Oct-15	PB	0.002	1622 E HAMILTON AVE	FLINT	48506	2310
LF87421	MIKE GLASGOW	13-Oct-15	PB	0.004	UNKNOWN	FLINT		2310
LF87422	MIKE GLASGOW	13-Oct-15	PB	0.002	3011 N CENTER RD	FLINT	48506	2310
LF87423	MIKE GLASGOW	13-Oct-15	PB	0.000	518 MASON ST	FLINT	48503	2310
LF87424	MIKE GLASGOW	13-Oct-15	PB	0.001	1920 COLCHESTER RD	FLINT	48503	2310
LF87425	MIKE GLASGOW	13-Oct-15	PB	0.003	1025 E KEARSLEY ST #2	FLINT		2310
LF87426	MIKE GLASGOW	13-Oct-15	PB	0.078	1220 E KEARSLEY ST	FLINT		2310
LF87427	MIKE GLASGOW	13-Oct-15	PB	0.001	1221 S KEARSLEY ST	FLINT		2310
LF87428	MIKE GLASGOW	13-Oct-15	PB	0.000	4060 MARTIN LUTHER KING AVE	FLINT		2310
LF87429	MIKE GLASGOW	13-Oct-15	PB	0.013	329 W ELDRIDGE AVE	FLINT	48505	2310
LF87430	MIKE GLASGOW	13-Oct-15	PB	0.003	2020 RASKOB ST	FLINT	48504	2310
LF87431	MIKE GLASGOW	13-Oct-15	PB	0.000	1705 LAUREL OAK DR	FLINT	48507	2310
LF87432	MIKE GLASGOW	13-Oct-15	PB	0.000	2010 CASTLE LN	FLINT	48504	2310
LF87433	MIKE GLASGOW	13-Oct-15	PB	0.001	714 ELLAND ST	FLINT		2310
LF87434	MIKE GLASGOW	13-Oct-15	PB	0.000	906 GARLAND	FLINT	48505	2310
LF87435	MIKE GLASGOW	13-Oct-15	PB	0.004	1025 E KEARSLEY ST	FLINT	48503	2310
LF87436	MIKE GLASGOW	13-Oct-15	PB	0.003	801 FLORAL PK	FLINT	48503	2310
LF87927	MIKE GLASGOW	16-Oct-15	PB	0.000	422 CHALMERS ST	FLINT	48503	2310
LF87928	MIKE GLASGOW	16-Oct-15	PB	0.008	613 MORLEY AVE	FLINT	48503	2310
LF87929	MIKE GLASGOW	16-Oct-15	PB	0.000	3248 PROSPECT ST	FLINT	48504	2310
LF87930	MIKE GLASGOW	16-Oct-15	PB	0.001	924 BARRIE	FLINT	48507	2310
LF87931	MIKE GLASGOW	16-Oct-15	PB	0.005	913 KENNELWORTH	FLINT	48503	2310
LF87932	MIKE GLASGOW	16-Oct-15	PB	0.000	2306 MOUNTAIN AVE	FLINT	48503	2310
LF87933	MIKE GLASGOW	16-Oct-15	PB	0.002	1906 E SECOND ST	FLINT	48503	2310
LF87934	MIKE GLASGOW	16-Oct-15	PB	0.002	116 W EDDINGTON AVE	FLINT	48503	2310
LF87935	MIKE GLASGOW	16-Oct-15	PB	0.002	2302 MOUNTAIN AVE	FLINT	48503	2310
LF87936	MIKE GLASGOW	16-Oct-15	PB	0.005	1728 TACOMA	FLINT	48503	2310
LF87937	MIKE GLASGOW	16-Oct-15	PB	0.010	1201 ALVORD	FLINT	48507	2310
LF87938	MIKE GLASGOW	16-Oct-15	PB	0.000	3730 DELAWARE AVE	FLINT	48506	2310
LF87939	MIKE GLASGOW	16-Oct-15	PB	0.011	1502 S FRANKLIN AVE	FLINT	48503	2310
LF87940	MIKE GLASGOW	16-Oct-15	PB	0.016	205 W EDDINGTON AVE	FLINT	48503	2310
LF87941	MIKE GLASGOW	16-Oct-15	PB	0.005	514 CADILLAC ST	FLINT	48504	2310
LF87942	MIKE GLASGOW	16-Oct-15	PB	0.000	932 INGLESIDE	FLINT	48507	2310
LF87943	MIKE GLASGOW	16-Oct-15	PB	0.004	1602 LINWOOD AVE	FLINT	48503	2310
LF87944	MIKE GLASGOW	16-Oct-15	PB	0.002	929 STEVENS ST	FLINT	48502	2310
LF87945	MIKE GLASGOW	16-Oct-15	PB	0.005	1110 INGLESIDE AVE	FLINT	48507	2310
LF87946	MIKE GLASGOW	16-Oct-15	PB	0.000	5714 BALDWIN BLVD	FLINT		2310
LF87947	MIKE GLASGOW	16-Oct-15	PB	0.003	3110 NORWOOD DR	FLINT	48503	2310

LF88278	MIKE GLASGOW	20-Oct-15	PB	0.001	2820 S SAGINAW ST	FLINT	48503	2310
LF88279	MIKE GLASGOW	20-Oct-15	PB	0.008	2630 WESTWOOD PKY	FLINT	48503	2310
LF88280	MIKE GLASGOW	20-Oct-15	PB	0.000	555 S SAGINAW ST	FLINT	48502	2310
LF88281	MIKE GLASGOW	20-Oct-15	PB	0.000	1002 MCKEIGHAN AVE	FLINT	48507	2310
LF88282	MIKE GLASGOW	20-Oct-15	PB	0.006	1310 BLANCHARD AVE	FLINT	48503	2310
LF88283	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88284	MIKE GLASGOW	20-Oct-15	PB	0.000	119 N GRAND TRAVERSE	FLINT	48503	2310
LF88285	MIKE GLASGOW	20-Oct-15	PB	0.000	987 SALISBURY AVE	FLINT	48532	2310
LF88286	MIKE GLASGOW	20-Oct-15	PB	0.000	3813 CHEROKEE AVE	FLINT	48507	2310
LF88287	MIKE GLASGOW	20-Oct-15	PB	0.015	1407 WELCH BLVD	FLINT	48504	2310
LF88288	MIKE GLASGOW	20-Oct-15	PB	0.002	2820 S SAGINAW ST	FLINT	48503	2310
LF88289	MIKE GLASGOW	20-Oct-15	PB	0.008	2529 N CHEVROLET AVE	FLINT	48504	2310
LF88290	MIKE GLASGOW	20-Oct-15	PB	0.001	422 S GARDEN ST	FLINT	48503	2310
LF88291	MIKE GLASGOW	20-Oct-15	PB	0.001	2820 S SAGINAW ST	FLINT	48503	2310
LF88292	MIKE GLASGOW	20-Oct-15	PB	0.000	5905 MARLOWE DR	FLINT	48504	2310
LF88293	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88294	MIKE GLASGOW	20-Oct-15	PB	0.002	1914 PENBROOK LN	FLINT	48507	2310
LF88295	MIKE GLASGOW	20-Oct-15	PB	0.000	3813 CHEROKEE AVE	FLINT	48507	2310
LF88296	MIKE GLASGOW	20-Oct-15	PB	0.000	317 W PIERSON RD	FLINT		2310
LF88297	MIKE GLASGOW	20-Oct-15	PB	0.001	2820 S SAGINAW ST	FLINT	48503	2310
LF88298	MIKE GLASGOW	20-Oct-15	PB	0.000	3821 CHEROKEE AVE	FLINT	48507	2310
LF88299	MIKE GLASGOW	20-Oct-15	PB	0.001	1700 S CENTER RD	FLINT	48504	2310
LF88300	MIKE GLASGOW	20-Oct-15	PB	0.088	2540 S GRAND TRAVERSE	FLINT	48503	2310
LF88301	MIKE GLASGOW	20-Oct-15	PB	0.004	535 LETA AVE	FLINT	48507	2310
LF88302	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88303	MIKE GLASGOW	20-Oct-15	PB	0.002	2820 S SAGINAW ST	FLINT	48503	2310
LF88304	MIKE GLASGOW	20-Oct-15	PB	0.001	1856 S AUERILL	FLINT	48503	2310
LF88305	MIKE GLASGOW	20-Oct-15	PB	0.001	341 BROWNING AVE	FLINT	48507	2310
LF88306	MIKE GLASGOW	20-Oct-15	PB	0.000	3510 WHITTIER AVE	FLINT	48506	2310
LF88307	MIKE GLASGOW	20-Oct-15	PB	0.026	3822 HERRICK ST	FLINT	48532	2310
LF88308	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88309	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88310	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88311	MIKE GLASGOW	20-Oct-15	PB	0.005	1118 INGLESIDE AVE	FLINT	48507	2310
LF88312	MIKE GLASGOW	20-Oct-15	PB	0.001	2820 S SAGINAW ST	FLINT	48503	2310
LF88313	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88314	MIKE GLASGOW	20-Oct-15	PB	0.002	1409 BEGOLE	FLINT		2310
LF88315	MIKE GLASGOW	20-Oct-15	PB	0.001	2820 S SAGINAW ST	FLINT	48503	2310
LF88316	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88317	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88318	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310

LF88319	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88320	MIKE GLASGOW	20-Oct-15	PB	0.004	2115 MOUNTAIN AVE	FLINT	48503	2310
LF88321	MIKE GLASGOW	20-Oct-15	PB	0.002	2820 S SAGINAW ST	FLINT	48503	2310
LF88322	MIKE GLASGOW	20-Oct-15	PB	0.007	3330 PARKSIDE DR	FLINT	48503	2310
LF88323	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88324	MIKE GLASGOW	20-Oct-15	PB	0.002	325 CLOVERDALE PL	FLINT	48503	2310
LF88325	MIKE GLASGOW	20-Oct-15	PB	0.000	2820 S SAGINAW ST	FLINT	48503	2310
LF88949	MIKE GLASGOW	26-Oct-15	PB	0.004	2413 WINONA ST	FLINT	48504	2310
LF88950	MIKE GLASGOW	26-Oct-15	PB	0.000	3813 CHEROKEE AVE #1	FLINT	48507	
LF88951	MIKE GLASGOW	26-Oct-15	PB	0.004	225 W COURT ST #1	FLINT	48503	2310
LF88952	MIKE GLASGOW	26-Oct-15	PB	0.000	1549 E ATHERTON RD	FLINT	48507	2310
LF88953	MIKE GLASGOW	26-Oct-15	PB	0.000	4025 PENGELLY RD APT #10	FLINT	48507	
LF88954	MIKE GLASGOW	26-Oct-15	PB	0.036	225 W COURT ST #2	FLINT	48503	2310
LF88955	MIKE GLASGOW	26-Oct-15	PB	0.004	829 WELLINGTON AVE	FLINT	48503	2310
LF88956	MIKE GLASGOW	26-Oct-15	PB	0.000	3709 CLAIRMONT ST	FLINT	48532	
LF88957	MIKE GLASGOW	26-Oct-15	PB	0.003	3901 CHEROKEE AVE	FLINT	48507	2310
LF88958	MIKE GLASGOW	26-Oct-15	PB	0.002	726 STOCKTON ST	FLINT	48503	2310
LF88959	MIKE GLASGOW	26-Oct-15	PB	0.001	801 STOCKTON ST	FLINT	48503	
LF88960	MIKE GLASGOW	26-Oct-15	PB	0.131	829 E WELLINGTON AVE	FLINT	48503	2310
LF88961	MIKE GLASGOW	26-Oct-15	PB	0.004	1006 BEARD ST	FLINT	48503	2310
LF88962	MICHAEL GLASGOW	26-Oct-15	PB	0.000	3746 RICHFIELD RD	FLINT	48506	2310
LF88963	MICHAEL GLASGOW	26-Oct-15	PB	0.009	1421 UNIVERSITY AVE	FLINT	48504	2310
LF88964	MICHAEL GLASGOW	26-Oct-15	PB	0.006	1302 FLUSHING RD	FLINT	48504	2310
LF88965	MIKE GLASGOW	26-Oct-15	PB	0.001	225 W COURT ST #3	FLINT	48503	2310
LF88966	MICHAEL GLASGOW	26-Oct-15	PB	0.003	620 E TAYLOR ST	FLINT	48505	2310
LF88967	MICHAEL GLASGOW	26-Oct-15	PB	0.006	3623 NORWOOD DR	FLINT	48503	2310
LF88968	MICHAEL GLASGOW	26-Oct-15	PB	0.000	3815 OGEMA AVE	FLINT	48507	2310
LF88969	MICHAEL GLASGOW	26-Oct-15	PB	0.004	3220 DUPONT ST	FLINT	48504	2310
LF88970	MICHAEL GLASGOW	26-Oct-15	PB	0.002	1421 UNIVERSITY AVE	FLINT	48504	2310
LF88971	MIKE GLASGOW	26-Oct-15	PB	0.002	502 CRAPO ST	FLINT	48503	2310
LF88972	MIKE GLASGOW	26-Oct-15	PB	0.005	555 COPEMAN BLVD	FLINT	48503	
LF88973	MIKE GLASGOW	26-Oct-15	PB	0.000	3813 CHEROKEE AVE #2	FLINT	48507	
LF88974	MICHAEL GLASGOW	26-Oct-15	PB	0.002	2400 BAGLEY ST	FLINT	48504	2310
LF88975	MICHAEL GLASGOW	26-Oct-15	PB	0.002	3713 KENT ST	FLINT	48503	2310

Rennaker, Joanne (DEQ)

From: Wyant, Dan (DEQ)
Sent: Monday, October 19, 2015 3:59 PM
Subject: Information on the City of Flint's Drinking Water and Announcement of Interim Chief for ODWMA - Message from Director Dan Wyant

Dear Colleagues:

I know you have all heard a lot lately about the drinking water situation in Flint, and I want to update you on recent developments.

Today, I released a statement announcing Chief Deputy Director Jim Sygo will immediately assume the role of interim chief of the Office of Drinking Water and Municipal Assistance.

As details of the situation have emerged, it has become apparent staff made a mistake while working with the city of Flint. Simply stated, staff employed a federal protocol they believed was appropriate, and it was not. However, I am convinced our program staff believed they were doing their job correctly, and simply did not have the experience with the particular issue of corrosion control in cities of more than 50,000 people.

Today's actions were the result of a long process. In the spring of 2013, the city of Flint announced it would leave the Detroit Water and Sewerage Department (DWSD) in favor of joining the Karegnondi Water Authority, which is constructing a pipeline to bring drinking water from Lake Huron. In the meantime, the city used the Flint River, treated at the Flint Water Treatment Plant, as its full-time drinking water source.

Since then, the system experienced a number of problems, including most recently, elevated lead levels in some homes and schools. To address public health, the Governor led a charge to bring \$6 million in state funds, plus an additional \$2 million from the city and \$4 million from the C.S. Mott Foundation, to fund the city's reconnection with DWSD.

This was a huge first step in fixing the problem. However, while the switch back to Detroit water carried numerous public health benefits, lead in drinking water is largely a function of outdated local infrastructure. For a long-term fix, we are looking at several options to help the city update its infrastructure and remove all lead service lines.

To ensure safe drinking water in the short-term, the state is providing water filters to every resident in the city of Flint. Many local partners, including the United Way, are also stepping up to ensure the city's schools have bottled water available for children as we design a thorough protocol to test all schools.

I know this is a stressful time for many of you, and I appreciate your dedication and hard work. This is a good time to reflect, as a staff, on our purpose as an agency. Our mission is to protect public health and the environment. Whatever the particular protocol or statute you help to implement or uphold, that is our core reason for being. Keep that at the forefront of your mind.

I am proud to lead a staff of such knowledgeable, committed individuals. Thanks, as always, for the work you do.

Sincerely,

Dan Wyant
Director

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Friday, October 16, 2015 11:47 AM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Cook, Pat (DEQ); Rosenthal, Adam (DEQ)
Subject: FW: Urgent Request for Clarification: Letter to Lee-Anne Walters and justification for invalidating her samples.

From: Wyant, Dan (DEQ)
Sent: Thursday, October 15, 2015 1:27 PM
To: Krisztian, George (DEQ); Sygo, Jim (DEQ); Shekter Smith, Liane (DEQ)
Subject: Fwd: Urgent Request for Clarification: Letter to Lee-Anne Walters and justification for invalidating her samples.

Sent from my iPhone

Begin forwarded message:

From: Marc Edwards <edwardsm@vt.edu>
Date: October 15, 2015 at 10:44:08 AM EDT
To: <WyantD@michigan.gov>, <lwalters313@gmail.com>, Andrew Leavitt <ALeavitt@senate.michigan.gov>, Melissa Mays <indigrace@gmail.com>, "Dickinson, Jordan" <Jordan.Dickinson@mail.house.gov>
Subject: Urgent Request for Clarification: Letter to Lee-Anne Walters and justification for invalidating her samples.

Hi Dan,

Thank you for your help (if any) with the MDEQ FOIA. I received the documents last night. I was hoping you could help me with something ASAP.

One of the things creating distrust between Flint residents and MDEQ, is a long list of miscommunications and false statements by your employees. I want you to help us understand one of those miscommunications as soon as possible.

On August 4th your employee's Wurfel, Busch and Shekter Smith met with Melissa and Lee-Anne. According to Melissa and Lee-Anne, in a meeting with the governor's Chief of Staff, your employee's could not explain to them, why Lee-Anne's samples were invalidated (i.e., thrown out of the samples used to calculate the 90th percentile lead).

For your information, on the basis of records from the City, Lee-Anne's home is the ONLY home in the 2015 sampling pool that is proven to have a lead pipe. I have compared the sample sites that the city used to the database that Flint has put together, and of 11 samples in the database that the city claims had a lead pipe, ZERO actually had a lead pipe. Michigan and Federal law further states that if a sample is taken from a home with a lead pipe, even if it has a point of use device like a filter or softener, once that sample is collected it cannot be invalidated (see below). EPA R5 staff explicitly told your employee's in writing, that Lee-Anne's samples had to

be counted for compliance purposes. **Your employee's nonetheless, over R5's written instructions and the law, threw out the only Flint LCR samples known to be legitimate in the 2015 sampling round.** They also double counted Melissa's samples for LCR compliance purposes, even though her house does not have a lead pipe, and has no lead plumbing. So I hope you can see the "adding insult to injury" dimension of your employee's actions. The irony - using samples from the chief critics of MDEQ, to cheat on the LCR monitoring. Specifically, counting a lead free site twice (when it should not be counted at all), and throwing out three samples from the only home known to have lead pipe. We also now have data that shows every single sample we could check in the 2015 round, did not have a lead pipe at all.

Furthermore, according to Melissa and Lee-Anne, the Governor's chief of staff ordered your employee's, to as soon as possible, communicate to Lee-Anne why her samples were invalidated. According to Melissa and Lee-Anne, the governor's chief of staff further ordered your employees to "CC" him on that communication. The governor's chief of staff also apparently asked them to get Lee-Anne's address and phone number, so that they could be sure their communication got to her, and they refused, and insisted they had all of Lee-Anne's information.

In the FOIA production, I was surprised to see that there is an e-mail to Lee-Anne dated August 25th. This is surprising because Lee-Anne never received that e-mail. Moreover, there is an apology to Lee-Anne that the e-mail is late, and furthermore, the chief of staff is not cc'd. Lee-Anne has looked in her spam and other files, and there is no evidence that this late e-mail ever reached her.

I am hoping you can get to the bottom of this, and see first of all 1) why the chief of staff was not cc'd as requested, 2) if this e-mail was actually sent, and produce some evidence that it was, and 3) try to understand why your employee's illegally invalidated Lee-Anne's samples over the objections of EPA and Lee-Anne. And I am hoping you can do this today. My understanding is that you are out and about trying to re-establish public trust in MDEQ, and this would be a good place to start.

Best Regards,

Marc Edwards

From your own web page.

c. Softeners and Other Point of Use (POU) and Point of Entry (POE) Devices:

Sampling sites with faucets that have POU or POE treatment devices, such as softeners, shall not be used as Tier 1, 2, or 3 sites unless insufficient Tiered sites are available. Field staff shall encourage water supplies to sample from a kitchen or bathroom tap that is not normally connected to the softener. If a sample of softened water is analyzed, then the water supply may consider returning to the same site to collect a sample of unsoftened water. Some residents may be able to bypass the softener at the tap. Both sample results (softened and unsoftened) will be used to calculate the 90th percentile. Sample results shall not be deemed improper on the basis that the water passed through a softener.

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Friday, October 16, 2015 9:13 AM
To: Busch, Stephen (DEQ); Cook, Pat (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Benzie, Richard (DEQ); Butler, Sonya (DEQ)
Cc: Devereaux, Tracy Jo (DEQ)
Subject: FW: Action Steps for the week of October 19th

Importance: High

Need help on this one. You don't want me doing this alone ☺.

From: Krisztian, George (DEQ)
Sent: Friday, October 16, 2015 8:50 AM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Cook, Pat (DEQ); Prysby, Mike (DEQ); Wurfel, Brad (DEQ); Pallone, Maggie (DEQ); Tommasulo, Karen (DEQ)
Cc: Shaler, Karen (DEQ); Thelen, Mary Beth (DEQ); Wyant, Dan (DEQ); Sygo, Jim (DEQ)
Subject: Action Steps for the week of October 19th
Importance: High

I need to have 25 additional action steps for the week of October 19th. I would like at least 15 steps from Liane's group and 10 from exec. Please submit your steps to the whole group by 4:00 PM today.

Given how tight everyone's schedule is we will try to do this electronically. If it works, then we will make this a weekly deadline. If it doesn't work then we will have weekly meetings.

Thank you!
George

George L. Krisztian
 Flint Action Plan Coordinator
 Laboratory Director
 Michigan Department of Environmental Quality
 Desk ph (517) 284-6719
 Cell ph (517) 204-0381

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Thursday, October 15, 2015 10:36 AM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Cc: Benzie, Richard (DEQ); Cook, Pat (DEQ)
Subject: FW: 3rd Quarter Water Report
Attachments: 3rd Quarter Water Quality Report (2).docx

FYI

From: Krisztian, George (DEQ)
Sent: Monday, October 12, 2015 7:44 AM
To: Wyant, Dan (DEQ); Sygo, Jim (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ); Wurfel, Brad (DEQ); Pallone, Maggie (DEQ); Tommasulo, Karen (DEQ); Shekter Smith, Liane (DEQ)
Subject: FW: 3rd Quarter Water Report

Here is the latest version of Flint's Water Quality Report incorporating comments from TAC members.

George

George L. Krisztian
 Flint Action Plan Coordinator
 Laboratory Director
 Michigan Department of Environmental Quality
 Desk ph (517) 284-6719
 Cell ph (517) 204-0381

From: Howard Croft [<mailto:hcroft@cityofflint.com>]
Sent: Sunday, October 11, 2015 7:29 AM
To: Andy Leavitt
Cc: Marc Edwards; Amy Hovey; Brent Wright; Darren Lytle; Dayne Walling; donna. cole; Dykema, Linda D. (DHHS); Krisztian, George (DEQ); Gerald (Jed) Natzke; James Henry; Jamie Gaskin; Jason Lorenz; jmikewright; JoAnne Herman; John O'Brien; Kirk Smith; larry.koehler@mcc.edu; Laura Sullivan; Lawrence Reynolds; Lawrence Reynolds; Michael Glasgow; Michael Wright; Mike Lane; Prysby, Mike (DEQ); Natasha Henderson; Norb Birchmeier; Pete Levine; Robert Bincsik; rosejo@msu.edu; Russell Hudson; Samir Matta; schock.michael@epa.gov; Sean Kammer; Busch, Stephen (DEQ); Warren Green; Wurfel, Brad (DEQ); Anthony Chubb; Kevin Keane
Subject: Re: 3rd Quarter Water Report

All,

The comments were very helpful and I have made several revisions to the report that was sent yesterday, please review the amendments and forward any additional recommendations. I would like to solicit comments from anyone in the medical community that is willing to be quoted.

On Sat, Oct 10, 2015 at 12:03 PM, Andy Leavitt <aleavitt@senatedems.org> wrote:

I would echo Marc's sentiment on the bold language agreeing with his points but I would also add that trust needs to be rebuilt and the public simply will not believe anything in the document if you start by

telling them it still meets standards. They do not differentiate between regs and rules but they know the water does not meet the standard of the physician community.

I would also recommend opening with timeline of going back to Detroit and what steps people can take to mitigate lead issues. Preferably with an excerpt from a physician.

The technical information matters for transparency but the trust gap is so wide that most people will be skeptical of all of it.

On Sat, Oct 10, 2015 at 11:48 AM Marc Edwards <edwardsm@vt.edu> wrote:

Hi Howard,

I think it is universally acknowledged now, that 30 seconds to 2 minutes flushing are not adequate, and all public education should say 5 minutes flushing.

I also think that given results of our team sampling 277 homes, the high levels of lead MDEQ detected in the Flint schools (a 90%ile over 15 ppb..which is horrible because they are not tier 1 plumbing sites), and the problems in the official LCR sampling conducted in late 2014-2015, that the following statement (in bold) is not really helpful in getting the message out about the current health risks. The bold statement seems more like wishful thinking or a legal position, and detracts from the goal of telling the public about the known problems.

After 16 months of treating water from the Flint River, the City became aware that the while still meeting all Safe Drinking Water Standards, the level of corrosiveness could result in more lead leaching from service lines and household plumbing.

That is my input. I am available at 540 231-7236 or 540 320-8740, if anyone should have questions about this.

Best Regards,

Marc Edwards

From: Howard Croft [mailto:hcroft@cityofflint.com]

Sent: Saturday, October 10, 2015 8:33 AM

To: Amy Hovey; Andy Leavitt; Brent Wright; Darren Lytle; Dayne Walling; donna. cole; dykemai; edwardsm; George Krisztian (DEQ); Gerald (Jed) Natzke; Howard Croft; James Henry; Jamie Gaskin; Jason Lorenz; jmikewright; JoAnne Herman; John O'Brien; Kirk Smith; larry.koehler@mcc.edu; Laura Sullivan; Lawrence Reynolds; Lawrence Reynolds; Michael Glasgow; Michael Wright; Mike Lane; Mike Prysby (DEQ); Natasha Henderson; Norb Birchmeier; Pete Levine; Robert Bincsik; rosejo@msu.edu; Russell Hudson; Samir Matta; schock.michael@epa.gov; Sean Kammer; Stephen Busch (DEQ); Warren Green; Wurfel, Brad (DEQ); Anthony Chubb; Kevin Keane

Subject: 3rd Quarter Water Report

Team,

Included in this email is a copy of the first quarter water quality report that has been developed by the Utilities Division. Please take a look and offer any comments that you may have regarding content. There will be an additional one page insert containing three months test data inserted prior to distribution.

The purpose of the quarterly mailer is to increase communication, provide more transparency, and put more information into the hands of the public about what's occurring within the water system and with the infrastructure.

I will be putting together a separate weekly report for this Committee.

Thank you,

--

Howard Croft

Public Works Director

City of Flint

1101 S. Saginaw Street

Flint, MI 48502

PH# 810.766.7135 Ext.2043

hcroft@cityofflint.com

--

Howard Croft

Public Works Director

City of Flint

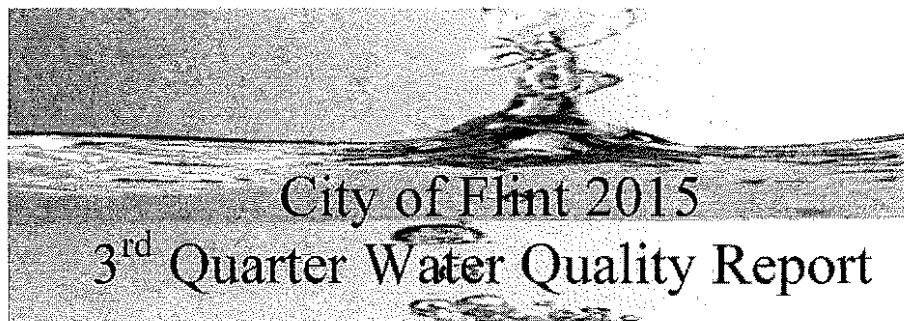
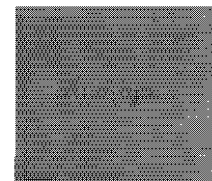
1101 S. Saginaw Street

Flint, MI 48502

PH# 810.766.7135 Ext.2043

hcroft@cityofflint.com

Customer Service Center
City Hall
1101 S. Saginaw St.
Flint, MI 48501



The Quarterly Water Quality Report provides important information about your drinking water. This report includes information about the water source, current drinking water issues, lead information, water filters, 3rd quarter work accomplished, and a water timeline of events. The City of Flint Department of Utilities is dedicated to providing quality drinking water to the residents of the community. The Flint Water Plant operates and maintains a certified drinking water laboratory to assure compliance with all state and federal regulations, and is committed to prompt and thorough notification to the consumers if there is any reason for concern about the quality of the drinking water. Information about your drinking water is available on the City of Flint web page at www.cityofflint.com or by calling the City of Flint Water Plant at (810) 787-6537. The Safe Drinking Water Hotline at (800) 426-4791 is a resource for health related questions and water quality issues. General drinking water information can also be found on the U.S. Environmental Protection Agency (EPA) web site at www.epa.gov/safewater/.

Water Source

The City of Flint began using the Flint River as a water source in May of 2014. After 16 months of treating water from the Flint River, the City became aware that the level of corrosiveness could result in more lead leaching from service lines and household plumbing. Reports of elevated blood lead levels resulted in the City's Technical Advisory Committee making a recommendation to return to the previous source of water while waiting for the KWA to provide water from Lake Huron.

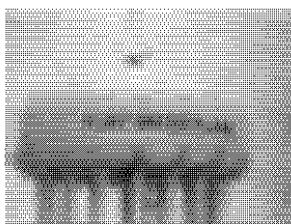
On Wednesday October 8, 2015, with the consent of Governor Snyder, the City stated they plan to return to its previous source of water. The decision followed two consecutive lead and copper test periods that exceeded 5ug/L which calls for additional action. In August of 2015 following the guidance of the DEQ, the City began also developing additional corrosion control measures that will be evaluated if it is needed as an additive to treated water but will be required when the city begins treating raw water from the Karegnondi Water Authority.

The City contributed \$2 Million dollars, the Mott Foundation contributed \$4 Million dollars, and the State of Michigan contributed \$ 6 Million dollars to make the transition possible. The City expects the transition to occur in October.

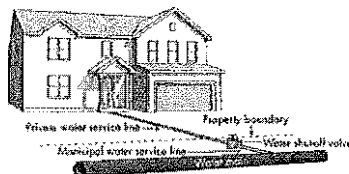
Current Drinking Water Issues & Lead Information

As noted, there has been a heightened awareness of lead leaching into drinking water through service lines and household plumbing. The City's Technical Advisory Committee has enlisted the support of EPA lead experts and is working with State of Michigan representatives to increase testing, rebuild public confidence, and implement long-term solutions to lead. It is recommended that everyone get their water tested and check with a plumber to evaluate the type and condition of your household plumbing. The City is currently mapping all of its lead service lines and working to develop a program to get lines changed over time.

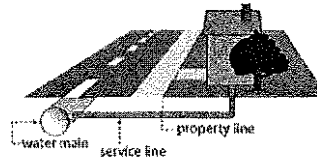
If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Flint is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 5 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.



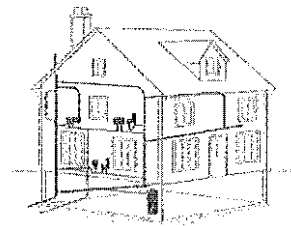
**No lead in water
leaving the
Treatment Plant.**



**Little or no lead in
water in the
transmission mains.**



**Lead can leach into
water through
service lines.**



**Lead can leach into
water through
household plumbing.**

Water Filters

Free water filters have been made available to current Flint residents at several locations. The MDHHS and the Genesee County Community Action Resource Department (GCCARD) are providing Free National Sanitation Foundation certified water filters at the following locations.

Residents receiving MDHHS assistance are encouraged to visit either the **125 E. Union St.** or **4809 Clio Rd.** MDHHS office location to obtain a free, certified home water filter. Residents who are not currently enrolled in MDHHS assistance programs should visit the (GCCARD) offices located at **2727 Lippincott** and **601 N. Saginaw** in Flint.

Staff will be onsite at all four locations from **9 a.m. to 4 p.m., Monday through Friday**, to distribute filters and assist residents who have questions about proper installation.

3rd Quarter Work Accomplished

- Successfully completed the installation of Granulated Activated Carbon at the water treatment plant which reduced the TTHM level in the water and helped bring the City back into compliance with the Safe Drinking Water Act.
- Over 3000 new water meters were installed creating better accuracy, accountability, and decreasing the number of estimated reads on water & sewer bills.
- Evaluated over 8000 valves in the system and identified over 2300 that are currently inoperable. The repair of these valves will be budgeted and worked into our multi-year Capital Improvement Plan.
- Leak Detection on all 600 miles of the distribution system has started and is over halfway complete. Several dozen leaks have been identified and repairs continue as more leaks are found. This has decreased the amount of water loss existing in the system.
- Construction of a load out facility at our wastewater plant is on target for completion by November and will allow the City to eliminate the use of the incinerator resulting in significant annual savings.
- Hundreds of main breaks are repaired annually by City workers on top of construction projects and routine maintenance.



employees work to contain and repair one of many main breaks that continues to occur as a part of an antiquated infrastructure system.

Hundreds of water main breaks occur annually and the City's skilled workforce is constantly faced with long hours and changing weather conditions in which they work. Hydrant flushing and hydrant winterization are also part of the system maintenance and often cause water discoloration. It is advised that you run your water for several minutes to allow discoloration to

pass if work is being done in your area. The City is working to increase notification to residents when and where work is occurring.

Water Timeline

The following is a timeline of events, beginning with signing the KWA contract leading up to the current status of switching back to our previous source of water. This timeline only highlights certain notable events, for more information please visit the "water" page on the City of Flint website or email flintwater@cityofflint.com with your questions or to request a water test.

2013		
Date	Event	Comments
16-Apr	Flint signs contract with Karegnondi Water Authority (KWA).	Switch to KWA projected to provide water by mid-2016 and to result in over \$200 million dollars in savings over time.
17-Apr	DWSD terminates existing water contract.	Termination effective 12 months from date of the notice.
Oct	Determination is made to use Flint River for interim period if construction can be completed.	Determination follows attempt at signing new contract with DWSD and evaluation of River option.
2014		
9-Apr	Flint receives permit for use of the Flint River.	Permit is approved for interim use of Flint River which is expected to be just over two years.
30-Apr	Flint closes off the supply of water from DWSD	Valves were closed in the evening and monitored by Flint, GCDC, and DWSD.
Jul - Sept	Multiple boil water notices are issued in several areas of the City	Notices are due to test samples showing that bacteria growth is possible. Hydrant flushing is unable to clear the environment and additional chlorine is introduced.
Nov	Development of Operational Evaluation Report (OER)	Recognition of high TTHM levels prompts a preemptive development of an OER which was submitted to the DEQ
16-Dec	Flint receives TTHM violation notice from DEQ	Violation is calculated from a running average of four quarterly test results
2015		
2-Feb	Flint offers free water testing	Letters are sent to residents who have voiced water concerns and free testing is expanded to all residents
10-Feb	Veolia Consultants hired	Veolia responds to RFP for a water expert to make recommendations to reduce TTHM levels.
4-Mar	Flint holds first Technical Advisory Committee meeting	Formation of Advisory Committee comes out of Veolia recommendation and helped bring experts together to discuss options and solutions.
20-May	Flint holds second Technical Advisory Committee meeting	meeting is used to confirm that Flint plans to install the recommended Granulated Activated Carbon filters by August to combat TTHM
Aug	GAC filter installation complete	Filter installation completed on schedule and the TTHM drops significantly prior to quarterly testing
17-Aug	DEQ directs City to begin additional corrosion control	Corrosion control design moves forward with the City's engineering firm.
2-Sep	Flint receives notice they have returned to compliance	DEQ sends notification that Flint is no longer in violation of the Safe Drinking water act.
2-Sep	Online report that Flint River water is very corrosive	Report is by a VA Tech research group led by Professor Marc Edwards after hundreds of samples were tested.
24-Sep	Medical Professionals report a rise in elevated blood lead level of children.	A group of Medical Professionals led by Dr. Mona Hanna-Attisha, announce the difference in blood lead levels
25-Sep	Flint issues a "Lead Advisory"	Following the medical information, Flint and the Genesee County Health Department issue a "Lead Advisory"
1-Oct	Public Health State of Emergency	County Commissioners and the Health Department declare a Health Emergency.
7-Oct	Flint Technical Advisory Committee recommends returning to former source of water	The Tech team includes EPA lead experts, Marc Edwards, DEQ representatives, engineering team, Medical Professionals, and City Officials.
8-Oct	Governor announces effort to return Flint to former water source	The City of Flint, Mott Foundation, and State of Michigan combine to raise funding for switch.

Rennaker, Joanne (DEQ)

From: Busch, Stephen (DEQ)
Sent: Friday, October 16, 2015 1:44 PM
To: Shekter Smith, Liane (DEQ)
Cc: Prysby, Mike (DEQ); Cook, Pat (DEQ); Rosenthal, Adam (DEQ)
Subject: Preliminary and Deliberative, Not Subject to FOIA - 10/19 ODWMA Action Steps - Draft
Attachments: ODWMA-ActionSteps-10-19-draft.docx

Liane,

See the attached draft list and provide and edits/comments. If you are not back by 4:00, I will get the list to George and the team. Thanks.

Stephen Busch, P.E.
MDEQ Lansing District Coordinator
Office of Drinking Water and Municipal Assistance
Lansing and Jackson District Supervisor
517-643-2314
buschs@michigan.gov

PRELIMINARY AND DELIBERATIVE – NOT SUBJECT TO FOIA

Action Steps for week of 10/19/2015

1. Develop Letter to Schools
2. Finalize Sampling Protocol
3. Confirm school sampling logistics
4. Meeting(s) with school staff/management
5. Complete Non-Transient Non-Community Water Supply letter
6. Meet with DHHS and discuss all lead education material for schools
7. ODWMA staff observe a DLARA plumbing assessment
8. Develop sample form and chain of custody document
9. Provide Director with revised Part 54 language
10. Review CCT plan and get any EPA comments
11. Review construction permit application and issue construction permit for phosphate equipment.
12. Review Standby Operation of Flint Water Treatment Plant with City of Flint.
13. Provide City of Flint updated monitoring schedule based on DWSD/GLWA service.
14. Contact City and County daily for DWSD connection status updates.
15. Work with KWA and other agencies to address bottleneck issues.
16. Verify City of Flint distribution operations under DWSD/GLWA service.
17. Confirm recommendations for updated 2004 letter to EPA.
18. Contact City of Flint for Service Line Record status update and obtain a copy of the records to date.
19. Provide DHHS with any available cross-reference information.
20. Develop childcare facility guidance or review DHHS related materials.

Rennaker, Joanne (DEQ)

From: Rosenthal, Adam (DEQ)
Sent: Thursday, October 15, 2015 3:16 PM
To: Shekter Smith, Liane (DEQ)
Subject: RE: repeat sample 2015 PbCu Flint DRAFT DELIBERATIVE. NOT SUBJECT TO FOIA.

...or the business at 625 Grand Traverse, 2 samples excluded along with 212 Browning

From: Shekter Smith, Liane (DEQ)
Sent: Thursday, October 15, 2015 2:43 PM
To: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ)
Subject: RE: repeat sample 2015 PbCu Flint DRAFT DELIBERATIVE. NOT SUBJECT TO FOIA.

Were there any other duplicate addresses included in the sampling pool?

From: Rosenthal, Adam (DEQ)
Sent: Thursday, October 15, 2015 2:15 PM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ)
Subject: repeat sample 2015 PbCu Flint

3714 Beecher Rd, Melissa Mays co-founder of Water you fighting for.

3/24/15 kitchen, Pb = 2 ppb

5/14/15 main bathroom, Pb = 8 ppb

Preliminary and Deliberative not subject to FOIA

Rennaker, Joanne (DEQ)

From: Rosenthal, Adam (DEQ)
Sent: Thursday, October 15, 2015 2:51 PM
To: Shekter Smith, Liane (DEQ)
Subject: RE: repeat sample 2015 PbCu Flint DRAFT DELIBERATIVE. NOT SUBJECT TO FOIA.

not for the 2015 compliance round – except Lee-Anne Walters home @ 212 Browning

From: Shekter Smith, Liane (DEQ)
Sent: Thursday, October 15, 2015 2:43 PM
To: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ)
Subject: RE: repeat sample 2015 PbCu Flint DRAFT DELIBERATIVE. NOT SUBJECT TO FOIA.

Were there any other duplicate addresses included in the sampling pool?

From: Rosenthal, Adam (DEQ)
Sent: Thursday, October 15, 2015 2:15 PM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ)
Subject: repeat sample 2015 PbCu Flint

3714 Beecher Rd, Melissa Mays co-founder of Water you fighting for.

3/24/15 kitchen, Pb = 2 ppb
 5/14/15 main bathroom, Pb = 8 ppb

Preliminary and Deliberative not subject to FOIA

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Thursday, October 15, 2015 2:43 PM
To: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ)
Subject: RE: repeat sample 2015 PbCu Flint DRAFT DELIBERATIVE. NOT SUBJECT TO FOIA.

Were there any other duplicate addresses included in the sampling pool?

From: Rosenthal, Adam (DEQ)
Sent: Thursday, October 15, 2015 2:15 PM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ)
Subject: repeat sample 2015 PbCu Flint

3714 Beecher Rd, Melissa Mays co-founder of Water you fighting for.

3/24/15 kitchen, Pb = 2 ppb

5/14/15 main bathroom, Pb = 8 ppb

Preliminary and Deliberative not subject to FOIA

Rennaker, Joanne (DEQ)

From: Busch, Stephen (DEQ)
Sent: Wednesday, October 14, 2015 11:36 AM
To: Krisztian, George (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: RE: Preliminary and Deliberative not subject to FOIA: Information Request
Attachments: Final Notes from Michigan semi-annual call on 6/10; Final Notes from call Tuesday 8/31/15 with MI DEQ RE: Flint; FW: FOR REVIEW: MDEQ - Flint Call Notes

George,

Attached are emails with notes related to conference calls with EPA region V that I have and provide further discussion regarding Flint. Liane could still have additional material.

Stephen Busch, P.E.
 MDEQ Lansing District Coordinator
 Office of Drinking Water and Municipal Assistance
 Lansing and Jackson District Supervisor
 517-643-2314
buschs@michigan.gov

From: Krisztian, George (DEQ)
Sent: Wednesday, October 14, 2015 10:57 AM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: Preliminary and Deliberative not subject to FOIA: Information Request
Importance: High

Liane,

As a follow-up to our conversation yesterday, I need a copy of the write up that EPA provided to your group for the conference call that was held after Steve's e-mail of February 27, 2015.

Thank you!
 George

George L. Krisztian
 Flint Action Plan Coordinator
 Laboratory Director
 Michigan Department of Environmental Quality
 Desk ph (517) 284-6719
 Cell ph (517) 204-0381

Rennaker, Joanne (DEQ)

From: Prysby, Mike (DEQ)
Sent: Wednesday, October 14, 2015 10:42 AM
To: Rosenthal, Adam (DEQ)
Subject: Preliminary & Deliberative, not subject to FOIA, FW: 3rd Quarter Water Report
Attachments: Quarterly CCR -Test Results.docx

Howard's summary of lead and copper (3rd quarter report) will likely cause more confusion

Michael Prysby, P.E.
 District Engineer
 Office of Drinking Water and Municipal Assistance
 517 290-8817

From: Howard Croft [mailto:hcroft@cityofflint.com]
Sent: Monday, October 12, 2015 8:39 AM
To: Gerald (Jed) Natzke
Cc: Andy Leavitt; Marc Edwards; Amy Hovey; Brent Wright; Lytle, Darren; Flint Mayor; donna.cole; Dykema, Linda D. (DHHS); Krisztian, George (DEQ); Henry, James; James Gaskin; Jason Lorenz; jmikewright; JoAnne Herman; John O'Brien; Kirk Smith; larry.koehler@mcc.edu; Laura Sullivan; Lawrence Reynolds; Lawrence Reynolds; Michael Glasgow; Wright, Michael; Lane, Mike; Prysby, Mike (DEQ); Natasha Henderson; Norb Birchmeier; Pete Levine; Robert Bincsik; rosejo@msu.edu; Russell Hudson; Samir Matta; schock.michael@epa.gov; Sean Kammer; Busch, Stephen (DEQ); Warren Green; Wurfel, Brad (DEQ); Anthony Chubb; Kevin Keane
Subject: Re: 3rd Quarter Water Report

All,

In addition to the text, here is the single page of data that will accompany the mailer.
 We can add any specific information that is requested.

We will be tracking all of the Flint River testing data prior to the switch and it will be available to this group.
 We will work with Genesee County to obtain any water data that they have as well.

On Sun, Oct 11, 2015 at 5:57 PM, <gdn2@aol.com> wrote:

Hi Howard,

The thoughts that both Andy and Marc shared sound wise. I'm curious though as to whether the TAC could be privy to the actual results of the Flint City water testing prior to the switch and this years values? Also, it would seem prudent to obtain the present Detroit Water System testing if available as well?

Thank you,
 Gerald Natzke DO

-----Original Message-----

From: Andy Leavitt <aleavitt@senatedems.org>
 To: Marc Edwards <edwardsm@vt.edu>; Howard Croft <hcroft@cityofflint.com>; Amy Hovey <Amy.Hovey@mail.house.gov>; Brent Wright <bwright@cityofflint.com>; Darren Lytle <lytle.darren@epa.gov>; Dayne Walling <dwalling@cityofflint.com>; donna.cole <donna.cole@genesys.org>; dykemai <dykemai@mich.gov>; George Krisztian (DEQ) <krisztian@michigan.gov>; Gerald (Jed) Natzke <gdn2@aol.com>; James Henry <jhenry@gchd.us>;

Jamie Gaskin <jgaskin@unitedwaygenesee.org>; Jason Lorenz <jlorenz@cityofflint.com>; jmikewright <jmikewright@yahoo.com>; JoAnne Herman <jherman@genesys.org>; John O'Brien <jfobrien@gcdcwws.com>; Kirk Smith <ksmith@flint.org>; Larry Koehler <larry.koehler@mcc.edu>; Laura Sullivan <dr.laura2@gmail.com>; Lawrence Reynolds <LawrenceR@mottchc.org>; Lawrence Reynolds <reynolds@mottchc.org>; Michael Glasgow <mglasgow@cityofflint.com>; Michael Wright <Wright.Michael@epa.gov>; Mike Lane <mjlane@umflint.edu>; Mike Prysby (DEQ) <prysbym@michigan.gov>; Natasha Henderson <nhenderson@cityofflint.com>; Norb Birchmeier <nbirchm1@hurleymc.com>; Pete Levine <plevine@gcms.org>; Robert Bincsik <rbincsik@cityofflint.com>; rosejo <rosejo@msu.edu>; Russell Hudson <Russell.Hudson@mclaren.org>; Samir Matta <SFMatta@lan-inc.com>; schock.michael <schock.michael@epa.gov>; Sean Kammer <skammer@cityofflint.com>; Stephen Busch (DEQ) <BUSCHS@michigan.gov>; Warren Green <jwgreen@lan-inc.com>; Wurfel, Brad (DEQ) (DEQ) <WurfelB@michigan.gov>; Anthony Chubb <achubb@cityofflint.com>; Kevin Keane <KEVIN.KEANE@cmsenergy.com>
 Sent: Sat, Oct 10, 2015 12:09 pm
 Subject: Re: 3rd Quarter Water Report

I would echo Marc's sentiment on the bold language agreeing with his points but I would also add that trust needs to be rebuilt and the public simply will not believe anything in the document if you start by telling them it still meets standards. They do not differentiate between regs and rules but they know the water does not meet the standard of the physician community.

I would also recommend opening with timeline of going back to Detroit and what steps people can take to mitigate lead issues. Preferably with an excerpt from a physician.

The technical information matters for transparency but the trust gap is so wide that most people will be skeptical of all of it. On Sat, Oct 10, 2015 at 11:48 AM Marc Edwards <edwardsm@vt.edu> wrote:

Hi Howard,

I think it is universally acknowledged now, that 30 seconds to 2 minutes flushing are not adequate, and **all public education should say 5 minutes flushing.**

I also think that given results of our team sampling 277 homes, the high levels of lead MDEQ detected in the Flint schools (a 90%ile over 15 ppb..which is horrible because they are not tier 1 plumbing sites), and the problems in the official LCR sampling conducted in late 2014-2015, that the following statement (in bold) is not really helpful in getting the message out about the current health risks. The bold statement seems more like wishful thinking or a legal position, and detracts from the goal of telling the public about the known problems.

*After 16 months of treating water from the Flint River, the City became aware that the while **still meeting all Safe Drinking Water Standards**, the level of corrosiveness could result in more lead leaching from service lines and household plumbing.*

That is my input. I am available at 540 231-7236 or 540 320-8740, if anyone should have questions about this.

Best Regards,
 Marc Edwards

From: Howard Croft [<mailto:hcroft@cityofflint.com>]

Sent: Saturday, October 10, 2015 8:33 AM

To: Amy Hovey; Andy Leavitt; Brent Wright; Darren Lytle; Dayne Walling; donna. cole; dykema; edwards; George Krisztian (DEQ); Gerald (Jed) Natzke; Howard Croft; James Henry; Jamie Gaskin; Jason Lorenz; jmikewright; JoAnne Herman; John O'Brien; Kirk Smith; larry.koehler@mcc.edu; Laura Sullivan; Lawrence Reynolds; Lawrence Reynolds; Michael Glasgow; Michael Wright; Mike Lane; Mike Prysby (DEQ); Natasha Henderson; Norb Birchmeier; Pete Levine; Robert Bincsik; rosejo@msu.edu; Russell Hudson; Samir Matta; schock.michael@epa.gov; Sean Kammer; Stephen Busch (DEQ); Warren Green; Wurfel, Brad (DEQ); Anthony Chubb; Kevin Keane

Subject: 3rd Quarter Water Report

Team,

Included in this email is a copy of the first quarter water quality report that has been developed by the Utilities Division. Please take a look and offer any comments that you may have regarding content. There will be an additional one page insert containing three months test data inserted prior to distribution.

The purpose of the quarterly mailer is to increase communication, provide more transparency, and put more information into the hands of the public about what's occurring within the water system and with the infrastructure.

I will be putting together a separate weekly report for this Committee.

Thank you,

--

Howard Croft

Public Works Director

City of Flint

1101 S. Saginaw Street

Flint, MI 48502

PH# 810.766.7135 Ext.2043

hcroft@cityofflint.com

--

Howard Croft

Public Works Director

City of Flint

1101 S. Saginaw Street

Flint, MI 48502

PH# 810.766.7135 Ext.2043

hcroft@cityofflint.com

2015 3rd Quarter Regulated Detected Contaminants

Inorganic & Organic Chemicals, Metals, and Pesticides – Monitored at treatment plant						
Regulated Contaminant	Unit of Measure	MCLG	MCL	Highest Level Detected	Range of Detection	Violation
Inorganic Chemicals						
Fluoride	mg/L	4	4	0.84	0.64 – 0.84	No
Nitrate	mg/L	10	10	N.D.	N/A	No
Metals						
Barium	mg/L	2	2	0.02	N/A	No

More than 100 other chemicals were monitored from July through September that were not detected.

The various classification groups of these chemicals include metals, carbamates, herbicides, pesticides, organics, and radiologicals.

Total Organic Carbon, TOC - Monitored at treatment plant			
Regulated Contaminant	Required Monthly % Removal	Minimum Monthly % Removal	Monthly % Removal Ranges
Total Organic Carbon	50	60	60 - 87

Turbidity - Monitored at treatment plant		
Highest Single Measurement (Cannot exceed 1NTU)	Lowest Monthly % of Samples Meeting Turbidity Limit (0.3 NTU in 95% of samples)	Violation
0.18	100 %	No

Disinfectant Residuals – Monitored in the distribution system						
Regulated Contaminant	Unit of Measure	MCLG	MCL	Highest Level Detected	Range of Detection	Violation
Total Chlorine Residual	mg/L	4.0	4.0	4.0	0.2 – 4.0	No

Microbiological Contaminants - Monitored in the distribution system				
Regulated Contaminant	MCLG	MCL	Highest Number detected (in 1 month)	Violation
Total Coliform bacteria	0	The presence of coliform bacteria in > 5% of monthly samples	1	No
<i>E. coli</i> Bacteria	0	0	0	No

Lead & Copper – Monitored from consumers tap					
Regulated Contaminant	Unit of Measure	MCLG	Action Level AL	Number of samples over AL	Total # of Samples Tested from January - September
Lead	ug/L	0	15	16	189
Copper	mg/L	1.3	1.3	0	189

Disinfection By-Products - Monitored in the distribution system and from treatment plant						
Regulated Contaminant	Unit of Measure	MCLG	MCL	Highest Level Detected	Range of Detection	Violation
Total Trihalomethanes (TTHM)	ug/L	n/a	80	90.3	42.6 – 90.3	N/A*
Haloacetic Acids (HAA)	ug/L	n/a	60	15.0	2.0 – 15.0	N/A*
Bromate	ug/L	10	10	N.D.	N/A	N/A*

*Violation based on locational running annual average for TTHM & HAA5, violation for bromate based on yearly average.

Key to the Detected Contaminant Tables		
Symbol	Abbreviation for	Definition/Explanation
>	Greater than	
AL	Action Level	The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements which a water system must follow.
HAA5	Haloacetic Acids	HAA5 is the total of bromoacetic, chloroacetic, dibromoacetic, dichloroacetic, and trichloroacetic acids. Compliance is based on the total.
LRAA	Locational Running Annual Average	
MCL	Maximum Contaminant Level	The highest level of a contaminant that is allowed in water. MCLs are set as close to the MCLG's as feasible using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal	The level of contaminant in drinking water below which there is no known or expected risk to health.
mg/L	Milligrams per Liter	A milligram = 1/1000 gram 1 milligram per liter is equal to 1ppm
MRDL	Maximum Residual Disinfectant Level	The highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	Maximum Residual Disinfectant Level Goal	The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
n/a	Not Applicable	
ND	Not Detected	
NTU	Nephelometric Turbidity Units	Measures the cloudiness of water.
pCi/L	Picocuries per Liter	A measure of radioactivity. Picocurie (pCi) means the quantity of radioactive material producing 2.22 nuclear transformations per minute.
ppb	Parts Per Billion (one in one billion)	The ppb is equivalent to micrograms per liter. A microgram = 1/1000 milligram.
ppm	Parts Per Million (one in one million)	The ppm is equivalent to milligrams per liter. A milligram = 1/1000 gram.
RAA	Running Annual Average	
TT	Treatment Technique	A required process intended to reduce the level of a contaminant in drinking water.
TTHM	Total Trihalomethanes	Total Trihalomethanes is the sum of chloroform, bromodichloromethane, dibromochloromethane and bromoform. Compliance is based on total.
ug/L	Micrograms per Liter	A microgram = 1/1,000,000 gram 1 microgram per liter is equal to 1ppb

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 14, 2015 5:14 PM
To: Krisztian, George (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Subject: RE: Preliminary and Deliberative not subject to FOIA: Information Request
Attachments: Flint

An additional related e-mail for consideration.

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 14, 2015 2:27 PM
To: Busch, Stephen (DEQ); Krisztian, George (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: RE: Preliminary and Deliberative not subject to FOIA: Information Request

Attached in the agenda received from EPA on 7/21/15 – it is related to the e-mail Steve included without a date.

The agenda for the 6/10 call is also attached.

I think seeing the agendas is helpful to understand EPA's perspective and inquiries at the time.

The third e-mail I've included is between Pat Cook and Miguel Deltoral, EPA. This e-mail includes Pat's explanation regarding our approach to managing the LCR (lead copper rule) in Flint.

From: Busch, Stephen (DEQ)
Sent: Wednesday, October 14, 2015 11:36 AM
To: Krisztian, George (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: RE: Preliminary and Deliberative not subject to FOIA: Information Request

George,

Attached are emails with notes related to conference calls with EPA region V that I have and provide further discussion regarding Flint. Liane could still have additional material.

Stephen Busch, P.E.
 MDEQ Lansing District Coordinator
 Office of Drinking Water and Municipal Assistance
 Lansing and Jackson District Supervisor
 517-643-2314
buschs@michigan.gov

From: Krisztian, George (DEQ)
Sent: Wednesday, October 14, 2015 10:57 AM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: Preliminary and Deliberative not subject to FOIA: Information Request
Importance: High

Liane,

As a follow-up to our conversation yesterday, I need a copy of the write up that EPA provided to your group for the conference call that was held after Steve's e-mail of February 27, 2015.

Thank you!
George

George L. Krisztian
Flint Action Plan Coordinator
Laboratory Director
Michigan Department of Environmental Quality
Desk ph (517) 284-6719
Cell ph (517) 204-0381

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 14, 2015 3:42 PM
To: Groetsch, Kory J. (DHHS); Dykema, Linda D. (DHHS)
Cc: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ); Krisztian, George (DEQ); Devereaux, Tracy Jo (DEQ)
Subject: FW: Flint PbCu data DRAFT DELIBERATIVE. NOT SUBJECT TO FOIA.
Attachments: 2014 Flint PbCu.pdf; 2015 Flint PbCu.pdf; Flint 90th calculation 14-15.xlsx

Attached are the pdf/scanned forms that were submitted by the city (we do have the individual lab sheets, but didn't think those would be helpful) for the 2 six month rounds of monitoring conducted (July – December 2014 and January – June 2015). Also, Adam has provided the excel spreadsheet that he used to calculate the 90th percentile numbers for both rounds.

Ask if you have questions.

Liane

From: Rosenthal, Adam (DEQ)
Sent: Wednesday, October 14, 2015 3:34 PM
To: Shekter Smith, Liane (DEQ)
Subject: Flint PbCu data

The excel document is sorted low to high for each parameter and are independent of each other, ie. same row doesn't mean from the same site.

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE
**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**



Issued under authority of 1976 PA 399, MCL 325.1001 *et al.*, and Administrative Rules, as amended.
Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Locations.

1. Water Supply Name: City of Flint
2. County: Genesee 3. WSSN: 2310
4. Population: _____ 5. Monitoring Period: From: 7/1/2014 To: 12/31/2014
6. Minimum # of Samples Required: 100 7. # of Samples Taken: 100
8. Name of Certified Laboratory: MDEQ Drinking Water Laboratory

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

Comments: The increased number of samples required has led to many new sample sites.

10. NAME:

Name: Michael Glasgow

Title: Assistant Water Plant Supervisor Phone: (810)787-6537 Date: 2/27/15

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint / GeneseeWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
2205 Flushing Rd. ✓	11/19/14	1	L		N.D.	110	
3814 Whitter Ave. ✓	11/20/14	1	L		2	N.D.	
3521 Bennett Ave ✓	11/21/14	1	L		2	N.D.	
1914 Penbrook Ln ✓	11/20/14	1	L		N.D.	N.D.	
305 Allendale Pl. ✓	11/24/14	1	L		2	130	
518 Frost St. ✓	12/1/14	1	L		1	N.D.	
3120 Norwood Dr. ✓	12/2/14	1	L		N.D.	N.D.	
1901 Crestbrook Ln. ✓	11/25/14	1	L		N.D.	70	
3727 Maryland Ave. ✓	12/3/14	1	L		1	N.D.	
1220 Beard St. ✓	12/2/14	1	L		10	60	
3718 Dolphaine Ln ✓	12/3/14	1	L		N.D.	N.D.	
2213 Flushing Rd ✓	12/3/2014	1	L		1	100	
721 East St. ✓	12/10/14	1	L		9	120	
1125 Barrie Ave ✓	12/5/14	1	L		4	N.D.	
1505 Woodlawn Park Dr. ✓	12/6/2014	1	L		5	N.D.	
2622 Windmere ✓	12/7/14	1	L		5	N.D.	
3517 Bennett ✓	12/10/14	1	L		3	N.D.	
927 Kensington Ave. ✓	12/5/14	1	L		N.D.	110	
1109 Kensington Ave. ✓	12/4/14	1	L		N.D.	N.D.	
1901 Montclair Ave. ✓	12/5/14	1	L		4	60	

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint / GeneseeWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
1809 Lynbrook ✓	12/4/14	1	L		2	N.D.	
1130 Simcoe Ave. ✓	12/5/14	1	L		2	50	
413 Burroughs Ave ✓	12/4/14	1	L		N.D.	N.D.	
2079 Zimmerman ✓	12/8/14	1	L		4	N.D.	
2615 Westwood Pkwy ✓	12/6/14	1	L		2	280	
2441 Norbert ✓	12/8/14	1	L		8	60	
711 Kensington Ave. ✓	12/9/14	1	L		3	N.D.	
2015 Gold Ave. ✓	12/4/14	1	L		2	N.D.	
618 S. Meade St. ✓	12/8/14	1	L		2	N.D.	
2802 Westwood Pkwy. ✓	12/5/14	1	L		1	110	
860 Schafer St. ✓	12/8/14	1	L		N.D.	70	
1021 S. Franklin Ave. ✓	12/5/14	1	L		4	N.D.	
1616 Durand St. ✓	12/5/14	1	L		N.D.	200	
928 Durand	12/7/14	1	L		N.D.	N.D.	
2730 Westwood Pkwy ✓	12/4/14	1	L		23	290	
1543 Kearsley Park Blvd. ✓	12/4/14	1	L		1	N.D.	
2920 Parkside Dr. ✓	12/5/14	1	L		10	220	
2721 Westwood Pkwy ✓	12/5/14	1	L		2	110	
1002 Durand St. ✓	12/4/14	1	L		2	110	
2560 Thomas St. ✓	12/4/14	1	L		N.D.	N.D.	

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint / GeneseeWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
815 Bradley Ave. ✓	12/7/14	1	L		5	270	
4013 Brownell Blvd. ✓	12/8/14	1	L		2	80	
2418 Gold Ave. ✓	12/10/14	1	L		N.D.	N.D.	
628 Commonwealth Ave. ✓	12/5/14	1	L		3	N.D.	
920 Stocker St. ✓	12/9/14	1	L		N.D.	N.D.	
430 Westcombe Ave. ✓	12/9/14	1	L		2	N.D.	
1623 Neorne Dr. ✓	12/5/14	1	L		7	70	
3802 Gorey Ave. ✓	12/8/14	1	L		1	50	
1720 Davison Rd. ✓	12/4/14	1	L		2	130	
2110 Mountain Ave. ✓	12/8/14	1	L		5	60	
2006 Clement St. ✓	12/3/14	1	L		3	N.D.	
2028 Corunna Rd. ✓	12/7/14	1	L		N.D.	N.D.	
2829 Yale St. ✓	12/10/14	1	L		N.D.	N.D.	
1914 W. Home Ave. ✓	12/15/14	1	L		4	N.D.	
2920 N. Dexter St. ✓	12/15/14	1	L		N.D.	70	
2810 Kellar Ave. ✓	12/15/14	1	L		N.D.	N.D.	
3245 Montana Ave. ✓	12/15/14	1	L		4	N.D.	
3623 Norwood Dr. ✓	12/15/14	1	L		1	N.D.	
2801 Reynolds ✓	12/8/14	1	L		2	N.D.	
3510 Brandon St. ✓	12/10/14	1	L		5	80	

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

14

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint / GeneseeWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
2117 Stanford Ave. L	12/11/14	1	L		3	N.D.	
5806 Leslie Dr. L	12/12/14	1	L		N.D.	N.D.	
1809 W. Home Ave. L	12/11/14	1	L		1	N.D.	
1414 Stone St. L	12/12/14	1	L		2	N.D.	
2006 Alken Ave. L	12/16/14	1	L		N.D.	N.D.	
3131 Walcott L	12/17/14	1	L		N.D.	N.D.	
983 Gainey Ave. L	12/17/14	1	L		N.D.	100	
2806 Norbert St. L	12/18/14	1	L		N.D.	N.D.	
912 Crawford St. L	12/15/14	1	L		1	110	
4024 Sterling L	12/16/14	1	L		1	N.D.	
3737 Worchester Dr. L	12/16/14	1	L		N.D.	140	
1100 Stockton St. L	12/16/14	1	L		6	N.D.	
1725 Lincoln Ave. L	12/21/14	1	L		2	N.D.	
3139 Colorado L	12/16/14	1	L		N.D.	N.D.	
1401 Gainey Ave. L	12/20/14	1	L		4	N.D.	
2730 Coventry Ct. L	12/19/14	1	L		N.D.	N.D.	
709 Frost St. L	12/19/14	1	L		N.D.	N.D.	
2307 Radcliffe L	12/20/14	1	L		37	80	
224 E. Court St. L	12/16/14	1	L		4	N.D.	
3440 Rangeley L	12/13/14	1	L		N.D.	N.D.	

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint / GeneseeWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
3808 Brownell Blvd. ✓	12/16/14	1	L		N.D.	90	
1008 Kensington ✓	12/19/14	1	L		2	N.D.	
2517 Delaware Ave. ✓	12/18/14	1	L		5	200	
1810 W. Hobson Ave. ✓	12/21/14	1	L		N.D.	N.D.	
6805 Leslie Dr. ✓	12/21/14	1	L		2	N.D.	
1721 Chelsea Circle ✓	12/22/14	1	L		N.D.	N.D.	
912 Waldman Ave. ✓	12/23/14	1	L		N.D.	N.D.	
3062 Lanning Dr. ✓	12/24/14	1	L		N.D.	N.D.	
25151 Chicago Blvd. ✓	12/26/14	1	L		6	N.D.	
742 Lincoln Ave. ✓	12/26/14	1	L		3	N.D.	
1805 Ramsay Blvd. ✓	12/27/14	1	L		4	N.D.	
1910 Ramsay Blvd. ✓	12/20/14	1	L		N.D.	N.D.	
3009 Montana Ave. ✓	12/29/14	1	L		1	N.D.	
1223 Campbell St. ✓	12/30/14	1	L		1	N.D.	
3821 Delaware ✓	12/27/14	1	L		N.D.	N.D.	
1651 Woodlawn Pk Blvd. ✓	12/29/14	1	L		N.D.	N.D.	
1911 Corry St. ✓	12/30/14	1	L		4	N.D.	
3507 Dearborn Ave. ✓	12/20/14	1	L		6	N.D.	
3829 Ivanhoe Ave. ✓	12/29/14	1	L		N.D.	N.D.	
1559 Chevrolet Ave. ✓	12/30/14	1	L		9	N.D.	

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb	6.0			2
Cu	110			0

Consumer Notice of Lead & Copper Results in Drinking Water

Water Supply Name: City of Flint
 County: Genesee WSSN: 2310
 Sample Location 2205 Flushing Rd. Date Sampled: 11/19/2014

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water which there is no known or expected risk to health. MCLG's allow for a margin of safety. ppb: parts per billion or micrograms per liter.	Lead (ppb)	15	0	Not Detected
	Copper (ppb)	1300	1300	110

Lead can cause serious health problem if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects on the brain with lower IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce exposure to lead in drinking water:

- Run your water to flush out lead. Run the water until it becomes cold.
- Use cold water for cooking and preparing baby formula. Do not cook with or drink water from the hot tap; lead dissolves more easily in hot water.
- Do not boil water to remove lead. Boiling water will not reduce lead levels.
- Look for an alternative sources or treatment of water. If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- Identify if your plumbing fixtures contain lead. New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised as "lead-free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.

Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure to lead may come from drinking water.

For more information, contact us at: City of Flint Water Plant (810)787-6537.

For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE
**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**



Issued under authority of 1976 PA 399, MCL 325.1001 et al., and Administrative Rules, as amended.
Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Locations.

1. Water Supply Name: City of Flint Water Plant
2. County: Genesee 3. WSSN: 2310
4. Population: 99,763 5. Monitoring Period: From: 1/1/15 To: 6/30/15
6. Minimum # of Samples Required: 60 7. # of Samples Taken: 69
8. Name of Certified Laboratory: DEQ Drinking Water Laboratory

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?

For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

Comments: Revised report after conference call with DEQ staff. Two samples were removed from list for not meeting sample criteria, and due to population the number of samples required was reduced to 60.

10. NAME:

Name: Michael Glasgow
Title: Utilities Administrator Phone: 810-766-7135 Date: 8/20/2015

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water Plant

WSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
2205 Flusing Rd	2/15/15	1	L	C,P	N.D.	0.13	54663
1809 Stevenson St.	2/10/15	1	L	P	10	N.D.	54956
4202 Custer Ave.	3/4/15	1	L	C,P	6	0.27	56223
401 E. Newall St.	3/2/15	1	L	P	5	N.D.	56225
215 Browning Ave.	3/21/15	1	L	C,P	N.D.	0.16	56226
2615 Trumbull Ave.	2/27/15	1	L	C,P	3	N.D.	56227
201 Browning Ave.	3/5/15	1	L	P	N.D.	N.D.	56228
1224 Decker St.	3/17/15	1	L	C,P	13	0.10	57728
1220 Decker St.	3/17/15	1	L	P	4	N.D.	57730
1379 Washington Ave.	3/19/15	1	L	P	8	N.D.	57731
1383 Washington Ave.	3/19/15	1	L	C,P	6	0.17	57734
1372 Washington Ave.	3/19/15	1	L	C,P	2	0.14	57733
1367 Washington Ave.	3/17/15	1	L	P	1	N.D.	57735
1701 Marquette Dr.	3/14/15	1	L	C,P	1	0.19	57736
778 Bundy Ave.	3/24/15	1	L	P	N.D.	N.D.	58413
3714 Beecher Rd.	3/24/15	1	L	C	2	0.52	58414
1016 Ingleside Ave.	4/9/15	1	L	C,P	7	0.07	59749
1818 Rock Creek Ln.	4/6/15	1	L	C,P	3	0.11	59750
3010 Cheyenne St.	4/3/15	1	L	C,P	5	0.10	59751
2606 Mountain Ave.	4/15/2015	1	L	P	N.D.	N.D.	60546

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water PlantWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
2020 Crooked Ln.	4/24/15	1	L	C,P	5	0.10	61845
310 E. Moore St.	4/22/15	1	L	P	5	N.D.	61846
631 Alvord Ave.	5/6/15	1	L	P	42	N.D.	63410
216 Browning Ave.	5/7/15	1	L	C,P	22	0.31	63411
3714 Beecher Rd.	5/14/15	1	L	C,P	8	0.15	64283
912 Lexington Ave.	5/15/15	1	L	P	6	N.D.	64285
349 Robble Ln.	5/31/15	1	L	P	2	N.D.	67428
353 Robble Ln.	5/30/15	1	L	C,P	5	0.11	67427
341 Robble Ln.	5/31/15	1	L	C,P	3	0.05	67426
328 Robble Ln.	5/30/15	1	L	C,P	2	0.09	67425
357 Robble Ln.	5/31/15	1	L	C	3	0.20	67424
344 Robble Ln.	5/31/15	1	L	C,P	4	0.11	67423
1807 Oren Ave.	6/8/15	1	L	P	21	N.D.	68023
421 Lyon St.	6/14/15	1	L	C,P	7	0.14	68788
1528 Delaware Ave.	6/12/15	1	L	P	3	N.D.	68789
3811 Brentwood Dr.	6/14/15	1	L	P	42	N.D.	68790
1615 S. Franklin Ave.	6/14/15	1	L	P	N.D.	N.D.	68791
853 E. 7th St.	6/12/15	1	L	C,P	7	0.07	68792
1150 Woodside Dr.	6/14/15	1	L	P	29	N.D.	68793
547 Copeman Blvd.	6/15/14	1	L	P	18	N.D.	68794

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water Plant

WSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
2114 Flushing Rd.	6/30/15	1	L	P	5	0.05	71170
709 Frost St.	6/30/15	1	L	P	2	N.D.	72033
920 Stocker Ave.	6/21/15	1	L	P	1	N.D.	69622
742 Lincoln Ave.	6/19/15	1	L	P	2	N.D.	69623
3517 Bennett Ave.	6/24/15	1	L	C,P	3	0.06	69624
1730 Overhill Dr.	6/22/15	1	L	C,P	1	0.08	69625
2117 Stanford Ave.	6/23/15	1	L	C,P	5	0.08	69626
2432 Beta Ln.	6/21/15	1	L	P	N.D.	N.D.	69627
2023 Miller Rd.	6/21/15	1	L	C,P	3	0.08	69628
721 East St. Apt #2	6/25/15	4	L	C,P	10	0.16	70222
3814 Whittier	6/25/15	1	L	P	2	N.D.	70223
3120 Norwood	6/24/15	1	L	P	5	N.D.	70224
2122 Pierce St.	6/21/15	1	L	P	2	N.D.	70225
3521 Bennett Ave.	6/25/15	1	L	P	3	N.D.	70226
1602 Raspberry Ln.	6/24/15	1	L	P	N.D.	N.D.	70227
1809 Lynbrook	6/26/15	1	L	P	3	N.D.	70228
2112 Sherff	6/24/15	1	L	C,P	9	0.06	70229
1205 Blanchard Ave.	6/24/15	1	L	C,P	11	0.05	70230
860 Schafer St.	6/26/15	1	L	C,P	N.D.	0.08	70231
2110 Flushing Rd.	6/30/15	1	L	C	N.D.	0.10	71158

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water PlantWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
2300 Flushing Rd.	6/29/15	1	L	C	3	0.28	71159
2130 Flushing Rd.	6/28/15	1	L	C,P	6	0.05	71160
2202 Flushing Rd.	6/29/15	1	L	C,P	2	0.06	71162
2429 Flushing Rd.	6/30/15	1	L	C,P	N.D.	0.06	71163
4013 Brownell Blvd.	6/29/15	1	L	C,P	2	0.08	71165
2414 Flushing Rd.	6/30/15	1	L	P	N.D.	N.D.	71166
1914 Penbrook Ln	6/29/15	1	L	P	2	N.D.	71167
3901 Leedra St.	6/26/15	1	L	P	N.D.	N.D.	71168
3142 McClure	6/26/15	1	L	P	3	N.D.	71169

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

Consumer Notice of Lead Result in Drinking Water

Water Supply Name: City of Flint
 County: Genesee WSSN: 2310
 Sample Location: 401 E. Newall St. Date Sampled: 3/2/15

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. ppb: parts per billion or micrograms per liter.	Lead (ppb)	15	0	5
	Copper (ppb)	1300	1300	Not Detected

Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce exposure to lead in drinking water:

- *Run your water to flush out lead.* Run the water until it becomes cold.
- *Use cold water for cooking and preparing baby formula.* Do not cook with or drink water from the hot water tap; lead dissolves more easily in hot water.
- *Do not boil water to remove lead.* Boiling water will not reduce lead levels.
- *Look for alternative sources or treatment of water.* If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- *Identify if your plumbing fixtures contain lead.* New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised or labeled as "lead-free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.

Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure to lead may come from drinking water.

For more information, contact us at: City of Flint Water Plant (810) 787-6537
 For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Certification: I certify that this public water supply has provided the consumer notice of lead result to persons served at each of the taps that was tested, either by mail or by another method approved by the DEQ, within 30 days of knowing the result. The Notice includes required content.

Michael G. Flanagan Signature UTILITIES ADMINISTRATOR Title 3/17/15 Date Sent to Consumer

Reminder to water supplier: Complete this certification on only one (1) example copy of a notice sent to a consumer and submit it to the DEQ.

Flint 02310

For monitoring period 7/1/14 - 12/31/14

	Pb	Cu
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	0	0
27	0	0
28	0	0
29	0	0
30	0	0
31	0	0
32	0	0
33	0	0
34	0	0
35	0	0
36	0	0
37	0	0
38	1	0
39	1	0
40	1	0
41	1	0
42	1	0
43	1	0
44	1	0
45	1	0

46	1	0
47	1	0
48	1	0
49	1	0
50	2	0
51	2	0
52	2	0
53	2	0
54	2	0
55	2	0
56	2	0
57	2	0
58	2	0
59	2	0
60	2	0
61	2	0
62	2	0
63	2	0
64	2	0
65	2	0
66	2	0
67	2	0
68	3	0
69	3	50
70	3	50
71	3	60
72	3	60
73	3	60
74	4	60
75	4	70
76	4	70
77	4	70
78	4	70
79	4	80
80	4	80
81	4	80
82	4	90
83	4	100
84	5	100
85	5	110
86	5	110
87	5	110
88	5	110
89	5	110
90	6	110
91	6	120
92	6	130

93	7	130
94	8	140
95	9	200
96	9	200
97	10	220
98	10	270
99	23	280
100	37	290

90th
average
max
min
> AL

6	110
3	38
37	290
0	0
2	0

Pb	Cu	
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	1	0
15	1	0
16	1	0
17	1	0
18	2	0
19	2	0
20	2	0
21	2	0
22	2	0
23	2	0
24	2	0
25	2	0
26	2	0
27	2	0
28	2	0
29	3	0
30	3	0
31	3	0
32	3	0
33	3	0
34	3	50
35	3	50
36	3	50
37	3	50
38	3	60
39	3	60
40	4	60
41	4	60
42	5	60
43	5	60
44	5	70
45	5	70
46	5	80

02310 - Flint PbCu 1st 1/2 2015

47	5	80
48	5	80
49	5	90
50	6	100
51	6	100
52	6	100
53	6	100
54	7	110
55	7	110
56	7	110
57	8	130
58	8	140
59	9	140
60	10	150
61	10	160
62	11	160
63	13	170
64	18	190
65	21	200
66	22	270
67	29	280
68	42	310
69	42	520

90th = 62.1

90th	11.2	161 ppb
average	5.72	66.38
max	42	520
min	0	0
# > AL	6	0

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 14, 2015 2:27 PM
To: Busch, Stephen (DEQ); Krisztian, George (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: RE: Preliminary and Deliberative not subject to FOIA: Information Request
Attachments: AGENDA for Today's Call on Flint; Agenda for MI Semi-Annual Call on Wed 6/10 at 10am EST; 9am CST; Fw: Flint Corrosion Control?

Attached in the agenda received from EPA on 7/21/15 – it is related to the e-mail Steve included without a date.

The agenda for the 6/10 call is also attached.

I think seeing the agendas is helpful to understand EPA's perspective and inquiries at the time.

The third e-mail I've included is between Pat Cook and Miguel Deltoral, EPA. This e-mail includes Pat's explanation regarding our approach to managing the LCR (lead copper rule) in Flint.

From: Busch, Stephen (DEQ)
Sent: Wednesday, October 14, 2015 11:36 AM
To: Krisztian, George (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: RE: Preliminary and Deliberative not subject to FOIA: Information Request

George,

Attached are emails with notes related to conference calls with EPA region V that I have and provide further discussion regarding Flint. Liane could still have additional material.

Stephen Busch, P.E.
 MDEQ Lansing District Coordinator
 Office of Drinking Water and Municipal Assistance
 Lansing and Jackson District Supervisor
 517-643-2314
buschs@michigan.gov

From: Krisztian, George (DEQ)
Sent: Wednesday, October 14, 2015 10:57 AM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: Preliminary and Deliberative not subject to FOIA: Information Request
Importance: High

Liane,

As a follow-up to our conversation yesterday, I need a copy of the write up that EPA provided to your group for the conference call that was held after Steve's e-mail of February 27, 2015.

Thank you!
George

George L. Krisztian
Flint Action Plan Coordinator
Laboratory Director
Michigan Department of Environmental Quality
Desk ph (517) 284-6719
Cell ph (517) 204-0381

Rennaker, Joanne (DEQ)

From: Krisztian, George (DEQ)
Sent: Wednesday, October 14, 2015 10:57 AM
To: Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Sygo, Jim (DEQ); Wyant, Dan (DEQ); Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ)
Subject: Preliminary and Deliberative not subject to FOIA: Information Request
Importance: High

Liane,

As a follow-up to our conversation yesterday, I need a copy of the write up that EPA provided to your group for the conference call that was held after Steve's e-mail of February 27, 2015.

Thank you!
George

George L. Krisztian
Flint Action Plan Coordinator
Laboratory Director
Michigan Department of Environmental Quality
Desk ph (517) 284-6719
Cell ph (517) 204-0381

Rennaker, Joanne (DEQ)

From: Hyde, Tinka <hyde.tinka@epa.gov>
Sent: Tuesday, June 30, 2015 4:41 PM
To: Shekter Smith, Liane (DEQ)
Cc: Monosmith, Carrie (DEQ); Henry, Timothy; Poy, Thomas; Bair, Rita; Damato, Nicholas
Subject: Flint

Hi Liane – I'm following up on the voicemail I left for you earlier today. I'm also copying Carrie Monosmith as I did get a chance to chat with her. In advance of our call scheduled for 7/21/15, I wanted to provide you with an update related to water quality challenges in Flint. I understand that some discussion occurred on June 10th with Tom Poy and staff during the semi-annual call regarding MDEQ's implementation of the LCR rule and the status of Flint. The Region is concerned about the lead situation in Flint and suggested that additional ORD assistance could be provided to Flint's Advisory Committee. We understand that the city is finishing up its second set of 6-month initial monitoring and I have scheduled a call with you on July 21st so we can discuss the Flint situation in more detail.

As you know, my staff have been out to Flint to collect samples and data which we felt could uniquely inform the NDWAC process and ultimately better inform the LCR rulemaking. Tom Poy asked Miguel Del Toral to prepare a report summarizing the visits and findings. Last week Miguel completed a draft interim report and provided it to management. Once Miguel addresses our comments, we will provide you with a copy of that report. In most cases, an internal EPA memo would not be distributed outside the agency, but given his interaction with the homeowner for one of the sampling locations, Miguel has shared a copy of the draft interim report as a courtesy with this Flint resident. Based on Miguel's initial analysis, elevated lead levels were found at this residence. In addition, it appears that the source of the lead may be from outside the home (Note: plumbing in the home is largely plastic).

Please know that Region 5 management is still being briefed on the lead issues in Flint and we look forward to the opportunity to discuss the situation with you in more detail so we can better characterize what MDEQ is already doing in Flint and how public health protection can best be provided to the citizens of Flint. If you would like to discuss this in advance of our call, please feel free to contact myself, or Tim Henry (312-886-6107). Thanks

Tinka G. Hyde
Water Division Director
USEPA W-15J
77 W. Jackson Blvd
Chicago, IL 60604

Office: 312-886-9296
Cell: 312-735-9428

Rennaker, Joanne (DEQ)

From: Hyde, Tinka <hyde.tinka@epa.gov>
Sent: Tuesday, July 21, 2015 9:07 AM
To: Shekter Smith, Liane (DEQ)
Cc: Poy, Thomas; Bair, Rita; Damato, Nicholas
Subject: AGENDA for Today's Call on Flint
Attachments: Agenda for MDEQ Call on Flint 7-21-15.docx

Hi Liane – In preparation for our call today we've prepared an agenda (attached) with some background and discussion points. Please let me know if you have other items you wish to discuss. Thanks

Tinka G. Hyde
Water Division Director
USEPA W-15J
77 W. Jackson Blvd
Chicago, IL 60604

Office: 312-886-9296
Cell: 312-735-9428

Briefing Paper for Call with MDEQ on July 21, 2015

MDEQ Implementation of LCR Rule and Flint Issues

Issue #1: Is there a public health concern regarding lead in Flint or other regulatory requirements?

- Under State policy ODWMA-399-027, the wholesale system is responsible for corrosion control treatment. Detroit, as the wholesale system, was providing this for Flint. When Flint changed to no longer be a consecutive system, and instead using the Flint River as its water source, it did not begin its own corrosion control program and is not currently practicing corrosion control treatment at the Water Treatment Plant.
- Prior to the change from being a consecutive public water system to the Detroit Water and Sewerage Department (DWSD) system and associated switch in source water, the City of Flint was conducting LCR sampling every three years. Due to the switch in water sources, the Michigan Department of Environmental Management (MDEQ) required the City of Flint to increase the number of monitoring sites from 50 to 100 sites for two consecutive rounds of monitoring (July through December 2014 and January through June 2015).
- The first round of samples after switch-over from DWSD (July 1, 2014 – Dec 31, 2014) had 90th percentiles of 6 ppb for Lead and 110 ppb for Copper.
- As of June 30, 2015, we believe MDEQ received all 100 sample results from the second round of monitoring and is incorporating citizen-requested sample results that meet the Tier 1 criteria.
- HQ confirmed, per the Water Supply Guidance #174 that citizen-requested sample results should be included in the 90th percentile calculations.
- We believe that the results of the two rounds of sampling will support an exceedance of 5 ug/l. This will result in the need for a corrosion control study, but not public education.
- Flint plans to switch to another source in 2016 making the corrosion control study timing complicated.
- Compliance with other regulatory requirements: Appears to be doing fine with Stage 2 DBP rule and re-characterizing the distribution system based on the new source of water, but not sure about LT2 compliance for first round monitoring for cryptosporidium. We'd want to ask if Flint had existing data on Crypto for the Flint River (they would be allowed to grandfather data for the 1st round of sampling). If not, they'd need to start sampling as soon as possible to get 1st round crypto results). If they did have old data, they'd still be expected to start a 2nd round of Crypto monitoring already (April 2015 – since Flint's population is still above 100,000).

Discussion Items:

- Discuss most recent 2 rounds of 6-months monitoring results and 90th percentile calculations and inclusion of the citizen-requested samples.
- Based on results, what are the next steps?
- Set the stage for why we are concerned about lead levels – since Flint is not feeding phosphate and the lead, phosphate, and cadmium are tracking, the phosphate is likely coming off the pipes.
- Is there anything we should do now to reduce the exposure risk to lead?
- Discuss possibly accelerating a corrosion control study for Flint. However, this should be done with a comprehensive look at all rule requirements and treatment needs. EPA/ORD expert are available to assist.
- How is Flint doing with meeting all the other regulatory requirements? Are they meeting LT2 requirements for crypto monitoring?

Criteria for large systems (serving >50,000 persons) to install/maintain corrosion control treatment:	Action Level (AL) Exceedance: If exceed Pb AL of 0.015 mg/L expressed as 90 th percentile level based on samples at tap:
If 90 th percentile tap lead value minus source water lead value greater than or equal to 0.005 mg/L.	• Corrosion control treatment steps • Source water treatment steps • Public education • Lead service line replacement (if continue to exceed Pb AL after installing treatment)

Issue #2: Discuss optimal corrosion control requirements

- The federal regulations governing lead and copper in drinking water, which all States are required to adopt, require all large public water systems (those serving greater than 50,000 persons (Flint's population is 99,002 (2014)) to install and maintain optimal corrosion control. The federal citation (requirement) requiring optimal corrosion control treatment can be found at Title 40 Code of Federal Regulations (CFR), Subpart I, Section 141.80, paragraph (d), as follows:
 - "(d) Corrosion control treatment requirements.
 - (1) All water systems shall install and operate optimal corrosion control treatment as defined in 141.2.
 - (2) Any water system that complies with the applicable corrosion control treatment requirements specified by the State under 141.81 and 141.82 shall be deemed in compliance with the treatment requirement contained in paragraph (d)(1) of this section."
- Paragraph (1) above requires systems to have installed treatment unless they have low lead levels (defined in other parts of the rule), but based on the Flint's current 90th percentile lead level, they would not meet that criteria and must have optimal corrosion control in place. Title 40 CFR Section 141.2 defines optimal corrosion control treatment as follows:
 - "Optimal corrosion control treatment, for the purpose of subpart I of this part only, means the corrosion control treatment that minimizes the lead and copper concentrations at users' taps while insuring that the treatment does not cause the water system to violate any national primary drinking water regulations."
- HQ memorandum of January 10, 1992 titled, "Consecutive Systems Regulated under the National Primary Drinking Water Regulations for Lead and Copper" reinforces the position that "optimal corrosion control treatment is properly installed and maintained". Further, the LCR Short-term Revisions (2007) Preamble (starting on page 57788) states, "State notification and approval of long-term treatment changes is important because these changes could adversely impact optimal corrosion control. As EPA noted in the proposed rule, this approach allows the State to evaluate the change prior to implementation and, if needed, to design a monitoring program to ensure that optimal corrosion control is maintained after the change..... EPA will provide guidance to help systems identify source water changes (such as changing the mixture) that could impact optimal corrosion control."
- MDEQ's Policy also describes under 5.c. Change in Treatment or Addition of a New Source that "Field staff may require the water supply to conduct additional monitoring or take other actions to ensure that CCT (corrosion control treatment) remains optimized".

Discussion Items:

- MDEQ made decision that Flint would be treated as a "new system" rather than an existing system changing their source of water. Discuss EPA (Region & HQ) interpretation of regulations that systems need to "maintain" corrosion control.
- Are there any other communities that may leave the Detroit system for other sources like Lake Huron that would be viewed as new systems or should be doing something about now to collect needed information to maintain corrosion control?

Issue #3: Discuss Pre-flushing (as time allows)

- Lead compliance sampling procedures in the state of Michigan comply with Federal SDWA requirements which calls for a minimum of 6 hours during which there is no water used from the tap the sample is taken from. While pre-flushing may fall within a strict legal interpretation of the regulations, we believe that it goes against the intent of the monitoring protocol, since it changes the normal water use of the homeowner in the sample.
- Michigan is the only Region 5 State that requires pre-flushing.
- Attachment 1 provides a brief description of pre-flushing.

Pre-flushing

The issue of pre-flushing came up regarding compliance sampling protocol used in Washington DC and was addressed by Cynthia Dougherty/OGWDW(see below/attached docs) in a letter to a resident in DC. It was not addressed in the Grumbles memo as the pre-flushing was discovered after the Grumbles memo had been written. To date, it has not been addressed on a national basis but it is one of the issues being discussed as part of the LCR Long-term revisions.

"The purpose of the monitoring protocol is to determine if corrosion control is effective in reducing lead and copper leaching at times and locations where we would expect levels to be greatest under normal conditions. Therefore, we believe that homeowners collecting samples should use their water as they would normally, with the exception that the regulations require the water to stagnate for a minimum of six hours prior to collection of the sample."

"We do not understand why DC WASA believes it should be necessary to request flushing only in households participating in the sampling. While this may fall within a strict legal interpretation of the regulations, we believe that it goes against the intent of the monitoring protocol, since it changes the normal water use of the homeowner in the sample. We will discuss this matter with their water quality manager to determine if there is a rationale that we should consider as we evaluate this issue. We also want to make sure that you are aware that we are considering additional actions we can take to further reduce lead and copper in drinking water and will be holding a stakeholder meeting on October 14-15 to initiate the effort."

Rennaker, Joanne (DEQ)

From: Crooks, Jennifer <crooks.jennifer@epa.gov>
Sent: Monday, June 08, 2015 11:19 AM
To: Shekter Smith, Liane (DEQ); Benzie, Richard (DEQ); Philip, Kris (DEQ); Cook, Pat (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ); DeBruyn, Dana (DEQ); Monosmith, Carrie (DEQ); Dettweiler, Dan (DEQ)
Cc: Poy, Thomas; Bair, Rita; Damato, Nicholas; Shoven, Heather; Murphy, Thomas; Porter, Andrea; Deltoral, Miguel; Kuefler, Janet; McElhinney, Cary; Noureldin, Mostafa
Subject: Agenda for MI Semi-Annual Call on Wed 6/10 at 10am EST; 9am CST
Importance: High

Good morning! Below is the Agenda I came up with for our semi-annual call this Wed morning. Please let me know if you would like to add additional items for us to discuss. Please note that I have invited Steve Busch, Mike Prysby and Pat Cook to discuss item no. 3 regarding Flint.

Jennifer

Agenda Topics for Michigan Semi-Annual Call on Wednesday June 10, 9am CST

Call-in no: 877-226-9607

Code: 1896350612

1. Changes in Lead Disinvestments and Commitments for FY 2016 ARDP—for discussion: Due to our extreme focus on lead in drinking water, this is the consensus here.
 - a. Consumer notification of tap results at NTNCWSs:
 (Suggested wording) The NCWS program commits to full implementation of the lead consumer notification of tap results requirement, to begin in CY 2016. Region 5 will assist in a notification outreach effort in late FY 2015 to remaining 698 NTNCWSs that are not schools/daycares, to begin providing lead consumer notice in CY 2016. NCWS program commits to include information on providing lead consumer notice in the annual monitoring letter sent to all NTNCWSs for CY 2016.
 - b. Collection of Lead samples at NTNCWSs during June – September 2016 timeframe
 (Suggested wording) NCWS program commits to including information in the applicable NTNCWS annual monitoring letters of the requirement to collect their annual/triennial lead sample between June and September only, during CY 2016. The MDEQ currently does not have the capability to track lead sampling compliance within this specific timeframe.
 - c. Follow-up Actions for NTNCWSs that sample outside of June-September 2015 timeframe
 (From 5/5/15 call notes w/EPA) MDEQ commits to providing Region 5 with all CY 2015 lead (and copper?) sample data for all NTNCWSs by March 2016 so that EPA can analyze how many PWSs monitored outside the June through October timeframe. EPA commits to follow-up with MDEQ to discuss follow-up actions.
 - d. Submittal of the lead and copper reporting form
 (Suggested wording) MDEQ commits to requiring CWSs and NTNCWSs to submit the lead and copper reporting form via the annual monitoring letters to each system, tracking CWSs and NTNCWSs submittal of the lead and copper reporting form, and commits to issuing violations for failure to submit the lead and copper reporting form. The reporting form provides the address of the sample site, designates sampling site selection criteria, and explanation(s) for any changes in sampling sites.

2. Enforcement Update with Heather

NTNCWSs under Bottled Water agreements due to Arsenic MCL violations:

Per discussions with Region 5 and the February 2014 EPA/OECA memo, MDEQ has closed the old Arsenic open-ended MCL violations; however, no further quarterly monitoring is being conducted at the (± 27) systems that are still under bottled water agreements. Thus, no more arsenic MCL violations will be reported for these systems and these systems will not become priority systems (ETT score of 11 or more) since only one arsenic MCL violation will be reported (5 points) even though they have a longstanding issue with arsenic noncompliance. The Region would like to discuss the pros and cons of placing these PWSs with arsenic MCL violations on quarterly monitoring as required under 40 CFR Section 141.23(c)(7); and brainstorm possible solutions.

3. Status of Flint

a. TTHM levels for May—Due to MDEQ district engineer June 10

b. Lead in Flint

Our discussions with MDEQ indicate that no phosphates/corrosion control has been added to the system since April 2014 when the source of drinking water changed to the Flint River. We understand that the City is just finishing up its second set of 6-month initial monitoring for lead; where the results will probably warrant a Corrosion Control Study to be conducted. Since Flint has lead service lines, we understand some citizen-requested lead sampling is exceeding the Action Level, and the source of drinking water will be changing again in 2016, so to start a Corrosion Control Study now doesn't make sense. The idea to ask Flint to simply add phosphate may be premature; there are many other issues and factors that must be taken into account which would require a comprehensive look at the water quality and the system before any treatment recommendations can/should be made. Miguel is recommending MDEQ and EPA approach Flint about formally requesting EPA's Office of Research and Development in Cincinnati support on the lead in Flint drinking water issue, and request that Mike Schock, ORD, and possibly Darren Lytle, ORD, to participate in Flint's drinking water advisory committee so that a comprehensive evaluation on how to proceed can be discussed.

4. Update on WaterTrack to SDWIS-State: The migration of WaterTrack data to SDWIS-State was number 39 on the Dept of Technology Management and Budget's (DTMB) project list last year; this year it is number 30. It doesn't appear this project has a high priority. Does the State have any new information on the progress of this project?

5. Consequences of cutting the State drinking water program to a "minimal program"

Jennifer had a discussion with Richard Benzie regarding the possibility of the Michigan State Legislature looking to have just a minimal drinking water program, meaning only a program with activities that are required by the Federal SDWA. Jennifer ultimately discussed this internally with Tom Poy. The minimal program suggested would cut out Operator Certification, Capacity Development, Plan Review, Cross Connection Control, Source Water Protection, among other programs that are State required. Operator Certification and Capacity Development, while not required by the Federal regulations, do have financial strings attached. And Plan review/construction permits are required by the SRF program for a loan. Any recent communication with the State Legislature that they might proceed and make this possibility a reality?

6. EPA's Resource Message at the LHD Workshop in April

From the 2014 analysis of Shared Goals 2013 data, which is compliance data, for noncommunity systems, there are increasing trends of nitrate M/R violations for both NTNCWSs and TNCWSs. We discussed this on the last semi-annual call. Analysis of the 2015 Shared Goals 2014 data (April 2015) shows an improvement—that of decreasing numbers of bacti/nitrate M/R violations.

However, in light of the upcoming implementation of RTRC in 2016, the question raised here in the Region is: Does the State have a plan with the LHDs as to what activities must be prioritized, and what will fall off the plate? Not all LHDs will need to disinvest based upon each LHD's resources, but some poorly funded LHDs may have to disinvest in some activities/drop activities that have no risk to public health.

Jennifer

Rennaker, Joanne (DEQ)

From: Crooks, Jennifer <crooks.jennifer@epa.gov>
Sent: Monday, June 08, 2015 11:19 AM
To: Shekter Smith, Liane (DEQ); Benzie, Richard (DEQ); Philip, Kris (DEQ); Cook, Pat (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ); DeBruyn, Dana (DEQ); Monosmith, Carrie (DEQ); Dettweiler, Dan (DEQ)
Cc: Poy, Thomas; Bair, Rita; Damato, Nicholas; Shoven, Heather; Murphy, Thomas; Porter, Andrea; Deltoral, Miguel; Kuefler, Janet; McElhinney, Cary; Noureldin, Mostafa
Subject: Agenda for MI Semi-Annual Call on Wed 6/10 at 10am EST; 9am CST
Importance: High

Good morning! Below is the Agenda I came up with for our semi-annual call this Wed morning. Please let me know if you would like to add additional items for us to discuss. Please note that I have invited Steve Busch, Mike Prysby and Pat Cook to discuss item no. 3 regarding Flint.

Jennifer

Agenda Topics for Michigan Semi-Annual Call on Wednesday June 10, 9am CST

Call-in no: 877-226-9607

Code: 1896350612

1. Changes in Lead Disinvestments and Commitments for FY 2016 ARDP—for discussion: Due to our extreme focus on lead in drinking water, this is the consensus here.
 - a. Consumer notification of tap results at NTNCWSs:
 (Suggested wording) The NCWS program commits to full implementation of the lead consumer notification of tap results requirement, to begin in CY 2016. Region 5 will assist in a notification outreach effort in late FY 2015 to remaining 698 NTNCWSs that are not schools/daycares, to begin providing lead consumer notice in CY 2016. NCWS program commits to include information on providing lead consumer notice in the annual monitoring letter sent to all NTNCWSs for CY 2016.
 - b. Collection of Lead samples at NTNCWSs during June – September 2016 timeframe
 (Suggested wording) NCWS program commits to including information in the applicable NTNCWS annual monitoring letters of the requirement to collect their annual/triennial lead sample between June and September only, during CY 2016. The MDEQ currently does not have the capability to track lead sampling compliance within this specific timeframe.
 - c. Follow-up Actions for NTNCWSs that sample outside of June-September 2015 timeframe
 (From 5/5/15 call notes w/EPA) MDEQ commits to providing Region 5 with all CY 2015 lead (and copper?) sample data for all NTNCWSs by March 2016 so that EPA can analyze how many PWSs monitored outside the June through October timeframe. EPA commits to follow-up with MDEQ to discuss follow-up actions.
 - d. Submittal of the lead and copper reporting form
 (Suggested wording) MDEQ commits to requiring CWSs and NTNCWSs to submit the lead and copper reporting form via the annual monitoring letters to each system, tracking CWSs and NTNCWSs submittal of the lead and copper reporting form, and commits to issuing violations for failure to submit the lead and copper reporting form. The reporting form provides the address of the sample site, designates sampling site selection criteria, and explanation(s) for any changes in sampling sites.

2. Enforcement Update with Heather

NTNCWSs under Bottled Water agreements due to Arsenic MCL violations:

Per discussions with Region 5 and the February 2014 EPA/OECA memo, MDEQ has closed the old Arsenic open-ended MCL violations; however, no further quarterly monitoring is being conducted at the (± 27) systems that are still under bottled water agreements. Thus, no more arsenic MCL violations will be reported for these systems and these systems will not become priority systems (ETT score of 11 or more) since only one arsenic MCL violation will be reported (5 points) even though they have a longstanding issue with arsenic noncompliance. The Region would like to discuss the pros and cons of placing these PWSs with arsenic MCL violations on quarterly monitoring as required under 40 CFR Section 141.23(c)(7); and brainstorm possible solutions.

3. Status of Flint

a. TTHM levels for May—Due to MDEQ district engineer June 10

b. Lead in Flint

Our discussions with MDEQ indicate that no phosphates/corrosion control has been added to the system since April 2014 when the source of drinking water changed to the Flint River. We understand that the City is just finishing up its second set of 6-month initial monitoring for lead; where the results will probably warrant a Corrosion Control Study to be conducted. Since Flint has lead service lines, we understand some citizen-requested lead sampling is exceeding the Action Level, and the source of drinking water will be changing again in 2016, so to start a Corrosion Control Study now doesn't make sense. The idea to ask Flint to simply add phosphate may be premature; there are many other issues and factors that must be taken into account which would require a comprehensive look at the water quality and the system before any treatment recommendations can/should be made. Miguel is recommending MDEQ and EPA approach Flint about formally requesting EPA's Office of Research and Development in Cincinnati support on the lead in Flint drinking water issue, and request that Mike Schock, ORD, and possibly Darren Lytle, ORD, to participate in Flint's drinking water advisory committee so that a comprehensive evaluation on how to proceed can be discussed.

4. Update on WaterTrack to SDWIS-State: The migration of WaterTrack data to SDWIS-State was number 39 on the Dept of Technology Management and Budget's (DTMB) project list last year; this year it is number 30. It doesn't appear this project has a high priority. Does the State have any new information on the progress of this project?

5. Consequences of cutting the State drinking water program to a "minimal program"

Jennifer had a discussion with Richard Benzie regarding the possibility of the Michigan State Legislature looking to have just a minimal drinking water program, meaning only a program with activities that are required by the Federal SDWA. Jennifer ultimately discussed this internally with Tom Poy. The minimal program suggested would cut out Operator Certification, Capacity Development, Plan Review, Cross Connection Control, Source Water Protection, among other programs that are State required. Operator Certification and Capacity Development, while not required by the Federal regulations, do have financial strings attached. And Plan review/construction permits are required by the SRF program for a loan. Any recent communication with the State Legislature that they might proceed and make this possibility a reality?

6. EPA's Resource Message at the LHD Workshop in April

From the 2014 analysis of Shared Goals 2013 data, which is compliance data, for noncommunity systems, there are increasing trends of nitrate M/R violations for both NTNCWSs and TNCWSs. We discussed this on the last semi-annual call. Analysis of the 2015 Shared Goals 2014 data (April 2015) shows an improvement—that of decreasing numbers of bacte/nitrate M/R violations.

However, in light of the upcoming implementation of RTCR in 2016, the question raised here in the Region is: Does the State have a plan with the LHDs as to what activities must be prioritized, and what will fall off the plate? Not all LHDs will need to disinvest based upon each LHD's resources, but some poorly funded LHDs may have to disinvest in some activities/drop activities that have no risk to public health.

Jennifer

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Saturday, May 02, 2015 10:35 AM
To: Shekter Smith, Liane (DEQ)
Subject: Fw: Flint Corrosion Control?

FYI

From: Cook, Pat (DEQ)
Sent: Friday, May 1, 2015 11:38 AM
To: Deltoral, Miguel
Cc: Porter, Andrea; Crooks, Jennifer; Poy, Thomas; Benzie, Richard (DEQ); Busch, Stephen (DEQ)
Subject: RE: Flint Corrosion Control?

Hi Miguel - sorry, I should have been more specific in my previous email. The rules you stated below allow large systems to be considered having optimal corrosion control if they have data from two consecutive 6 month monitoring periods that meet specific criteria. DEQ-ODWMA has not made a formal decision as to whether or not the City of Flint meets the exemption criteria or will be required to do a corrosion control study since Flint has only completed one round of 6 month monitoring. The City of Flint's second round of monitoring will be completed by June 30, 2015, and we will make a formal decision at that time. If my memory is correct, this is consistent with the process followed in the early 1990's for large systems when the Pb/Cu rule was first implemented. The Department waits until large systems complete both rounds of full scale, 6 month monitoring before making a decision about optimal corrosion control. If it is determined that Flint has to install corrosion control treatment, the rule allows up to 2 years to complete a study and 2 additional years to install the treatment unless we set a shorter time frame.

As Flint will be switching raw water sources in a just over one year from now, raw water quality will be completely different than what they currently use. Requiring a study at the current time will be of little to no value in the long term control of these chronic contaminants.

Finally, the City of Flint's sampling protocols for lead and copper monitoring comply will all current state and federal requirements. Any required modifications will be implemented at the time when such future regulatory requirements take effect.

Patrick Cook, P.E.
 Community Drinking Water Unit
 Office of Drinking Water & Municipal Assistance
 Michigan Department of Environmental Quality
 Phone: (517) 284-6514
cookp@michigan.gov

From: Deltoral, Miguel [<mailto:deltoral.miguel@epa.gov>]
Sent: Saturday, April 25, 2015 10:11 AM
To: Cook, Pat (DEQ)
Cc: Porter, Andrea; Crooks, Jennifer; Poy, Thomas
Subject: Re: Flint Corrosion Control?

Hi Pat,

I'll be heading out to MI for RTCR tomorrow and won't see email until next Tuesday, but I wanted to follow up on this because Flint has essentially not been using any corrosion control treatment since April 30, 2014 and they have LSLs. Given the very high lead levels found at one home and the pre-flushing happening at Flint, I'm worried that the whole town may have much higher lead levels than the compliance results indicated, since they are using pre-flushing ahead of their compliance sampling.

If the source water lead is non-detect (zero), then according to 141.89(a)(3) they should use zero for that source water value:

"All lead and copper levels measured between the PQL and MDL must be either reported as measured or they can be reported as one-half the PQL specified for lead and copper in paragraph (a)(1)(ii) of this section. All levels below the lead and copper MDLs must be reported as zero."

As far as the treatment determination, there are only two scenarios for a large system to be deemed to have optimized corrosion control without treatment and Flint does not appear to meet either:

The first is at 141.81(b)(3)

Any water system is deemed to have optimized corrosion control if it submits results of tap water monitoring conducted in accordance with § 141.86 and source water monitoring conducted in accordance with § 141.88 that demonstrates for two consecutive 6-month monitoring periods that the difference between the 90th percentile tap water lead level computed under §141.80(c)(3), and the highest source water lead concentration is less than the Practical Quantitation Level for lead specified in § 141.89(a)(1)(ii).

If Flint's highest source water lead was zero, and their 90th percentile was 0.006, then Flint does not meet this criteria, because the difference must be LESS THAN the PQL (i.e., 0.004 or less). $0.006 - 0 = 0.006$.

The second is at 141.81(b)(3)(i):

Those systems whose highest source water lead level is below the Method Detection Limit may also be deemed to have optimized corrosion control under this paragraph if the 90th percentile tap water lead level is less than or equal to the Practical Quantitation Level for lead for two consecutive 6-month monitoring periods.

Although Flint's source water lead was non-detect (zero), the 90th percentile lead level is 0.006 which is above the PQL of 0.005, so Flint would not meet this criteria either.

Am I missing something?

Miguel A. Del Toral
Regulations Manager
U.S. EPA R5 GWDWB
77 West Jackson Blvd, (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

From: Cook, Pat (DEQ) <COOKP@michigan.gov>
Sent: Friday, April 24, 2015 12:45 PM
To: Deltoral, Miguel
Subject: RE: Flint Corrosion Control?

Total Lead collected from the plant tap on 5/22/14 was zero.

pat

From: Deltoral, Miguel [<mailto:deltoral.miguel@epa.gov>]
Sent: Friday, April 24, 2015 11:59 AM
To: Cook, Pat (DEQ)
Cc: Poy, Thomas; Porter, Andrea
Subject: Re: Flint Corrosion Control?

What was the source water lead level?

Miguel A. Del Toral
 Regulations Manager
 U.S. EPA R5 GWDWB
 77 West Jackson Blvd, (WG-15J)
 Chicago, IL 60604
 Phone: (312) 886-5253

From: Cook, Pat (DEQ) <COOKP@michigan.gov>
Sent: Friday, April 24, 2015 10:43 AM
To: Deltoral, Miguel
Cc: Poy, Thomas; Porter, Andrea
Subject: RE: Flint Corrosion Control?

Hi Miguel - Flint is currently not practicing corrosion control treatment at the WTP. When they started treating water at their WTP last spring, we placed them on full chart (100 sites) Pb/Cu monitoring for two consecutive 6 month periods. WQ monitoring is also being conducted. The first round of samples after switch-over from DWSD (July 1, 2014 – Dec 31, 2014) had 90th percentiles of 6 ppb for Lead and 110 ppb for Copper. The second round of samples (Jan 1, 2015 – June 30, 2015) is underway with approximately 20 of the 100 sample site results in. The highest lead result out of the 20 received thus far is 13 ppb.

Based on the matrix of recommended corrosion control study components for Large PWS's for both Lead and Copper, there are no additional requirements for the City of Flint based on the levels of lead and copper in the current source water and the results of the lead and copper distribution monitoring. The only provision of the Lead & Copper Rule which classifies the existing treatment of large PWSs as optimized for corrosion control is when the difference between the 90% Pb-TAP and Pb-POE is less than the lead practical quantitative level (PQL) for each six-month period of the initial monitoring program. By definition, the PQL for lead is 0.005 mg/L; and the lead value for the source water used in this determination is the highest source water lead concentration. If this condition is met, then no study or testing is required. We believe this condition has been met for Flint. However, we will re-evaluate this after the 2nd round of 6 month sampling is completed.

If you have any further questions, please contact the Lansing District Supervisor, Steve Busch at (517) 643-2314 or at buschs@michigan.gov.

Have a good (and hopefully warm) weekend!

Patrick Cook, P.E.
 Community Drinking Water Unit
 Office of Drinking Water & Municipal Assistance
 Michigan Department of Environmental Quality
 Phone: (517) 284-6514
cookp@michigan.gov

From: Deltoral, Miguel [<mailto:deltoral.miguel@epa.gov>]
Sent: Thursday, April 23, 2015 12:33 PM
To: Cook, Pat (DEQ)
Cc: Poy, Thomas; Porter, Andrea
Subject: Flint Corrosion Control?

Hi Pat,

What's Flint doing now (post Detroit) for corrosion control treatment?

Miguel A. Del Toral
Regulations Manager
Ground Water and Drinking Water Branch
77 West Jackson Blvd (WG-15J)
Chicago, IL 60604
Phone: (312) 886-5253

Rennaker, Joanne (DEQ)

From: Busch, Stephen (DEQ)
Sent: Friday, October 09, 2015 12:40 PM
To: Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Prysby, Mike (DEQ)
Cc: Rennaker, Joanne (DEQ); Devereaux, Tracy Jo (DEQ); Benzie, Richard (DEQ)
Subject: Preliminary and Deliberative not subject to FOIA RE: Got dates?

Already done. It had been provided previously and Heather has it now.

Stephen Busch, P.E.
 MDEQ Lansing District Coordinator
 Office of Drinking Water and Municipal Assistance
 Lansing and Jackson District Supervisor
 517-643-2314
buschs@michigan.gov

From: Shekter Smith, Liane (DEQ)
Sent: Friday, October 09, 2015 12:33 PM
To: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Cc: Rennaker, Joanne (DEQ); Devereaux, Tracy Jo (DEQ); Benzie, Richard (DEQ)
Subject: RE: Got dates?

I'm assuming that you folks in the district will be compiling this for Brad.

Any estimate on a time frame?

From: Wurfel, Brad (DEQ)
Sent: Friday, October 09, 2015 12:08 PM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Prysby, Mike (DEQ)
Cc: Krisztian, George (DEQ)
Subject: FW: Got dates?

I need a comprehensive picture of lead and copper tests, please. At the plant tap, in the lines, figures we got from the city during the L&C rule tests. Everything. Thank you.
 b

From: Erb, Robin [<mailto:rerb@freepress.com>]
Sent: Friday, October 09, 2015 11:13 AM
To: Wurfel, Brad (DEQ)
Subject: RE: Got dates?

Hey Brad,

'Just making sure you saw this. Can you help me out? I know it's probably been a hellish couple of weeks, but for what it's worth – weekend's almost here....

Robin

From: Erb, Robin
Sent: Thursday, October 08, 2015 3:28 PM
To: 'WurfelB@michigan.gov' <WurfelB@michigan.gov>
Subject: Got dates?

Hey Brad,

I know we've talked about all the testing that was done on the Flint water. I'd like to drive home how much testing was done.

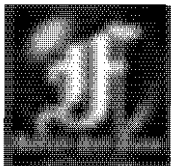
Can you give me a time line of the tests? I believe there were the 7 tests done from the source, and then the two supplemental tests that confirmed ppb lower than 15 (6 and 11).

I know, I know. You've probably explained this 422 time to 422 different reporters (I'm guessing). Can we go over one more time so we have it nailed down on a time line? If it's easier, a phone call works too – 313-222-2708.

Robin

Robin Erb
Medical Writer
Desk: 313-222-2708
Metro Desk: 313-222-6601
rerb@freepress.com

Follow me on Twitter: @FreepHealth



www.freep.com

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Friday, October 09, 2015 12:33 PM
To: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Cc: Rennaker, Joanne (DEQ); Devereaux, Tracy Jo (DEQ); Benzie, Richard (DEQ)
Subject: RE: Got dates?

I'm assuming that you folks in the district will be compiling this for Brad.

Any estimate on a time frame?

From: Wurfel, Brad (DEQ)
Sent: Friday, October 09, 2015 12:08 PM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Prysby, Mike (DEQ)
Cc: Krisztian, George (DEQ)
Subject: FW: Got dates?

I need a comprehensive picture of lead and copper tests, please. At the plant tap, in the lines, figures we got from the city during the L&C rule tests. Everything. Thank you.
b

From: Erb, Robin [<mailto:rerb@freepress.com>]
Sent: Friday, October 09, 2015 11:13 AM
To: Wurfel, Brad (DEQ)
Subject: RE: Got dates?

Hey Brad,

'Just making sure you saw this. Can you help me out? I know it's probably been a hellish couple of weeks, but for what it's worth -- weekend's almost here....

Robin

From: Erb, Robin
Sent: Thursday, October 08, 2015 3:28 PM
To: 'WurfelB@michigan.gov' <WurfelB@michigan.gov>
Subject: Got dates?

Hey Brad,

I know we've talked about all the testing that was done on the Flint water. I'd like to drive home how much testing was done.

Can you give me a time line of the tests? I believe there were the 7 tests done from the source, and then the two supplemental tests that confirmed ppb lower than 15 (6 and 11).

I know, I know. You've probably explained this 422 time to 422 different reporters (I'm guessing). Can we go over one more time so we have it nailed down on a time line? If it's easier, a phone call works too – 313-222-2708.

Robin

Robin Erb

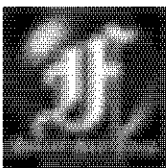
Medical Writer

Desk: 313-222-2708

Metro Desk: 313-222-6601

rerb@freepress.com

Follow me on Twitter: @FreepHealth



www.freep.com

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Friday, October 09, 2015 8:09 AM
To: Prysby, Mike (DEQ); Rennaker, Joanne (DEQ); Rosenthal, Adam (DEQ); Butler, Sonya (DEQ); Benzie, Richard (DEQ); Busch, Stephen (DEQ); Cook, Pat (DEQ)
Cc: Devereaux, Tracy Jo (DEQ)
Subject: FW: Daily updates

Importance: High

FYI – I'll need a daily summary by 4:00pm (4:15pm at the latest) of all work efforts as described below.

Be sure to cc Tracy Jo so that one of us will be able to forward it to George by the 4:30pm deadline.

Thanks!

From: Krisztian, George (DEQ)
Sent: Friday, October 09, 2015 7:07 AM
To: Shekter Smith, Liane (DEQ)
Cc: Thelen, Mary Beth (DEQ); Shaler, Karen (DEQ); Wyant, Dan (DEQ); Sygo, Jim (DEQ)
Subject: Daily updates
Importance: High

Hi Liane,

The Governor wants daily updates regarding the progress we are making on the Flint issue. Can you please provide me with a summary of the action steps that we have taken on a daily basis? The summary should not contain excessive detail, it should be something like:

- Steve Busch contacted Natasha Henderson at the City of Flint to get details on supplemental Phosphate Dosing
- Pat Cook/Mike P Analyzed Plans for flushing and pressure testing lines to make the switch back to GLWA
- Met with city of Flint officials to review actions to date and to create a list of next steps

The above examples are for illustrative purposes only

I need to have this summary each day no later than 4:30 PM. This is a hard deadline as we need to get the summary to the Governor by 5:00 PM. Please make sure that you copy Mary Beth and Karen.

Thank you!
 George

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Thursday, October 08, 2015 5:35 PM
To: Busch, Stephen (DEQ); Benzie, Richard (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Cc: DeBruyn, Dana (DEQ); Hoeh, Jeremy (DEQ); Monosmith, Carrie (DEQ); Bloemker, Jon (DEQ); Donaldson, Kristina (DEQ); Lachance, Amy (DEQ); Thomas, Chuck (DEQ); Philip, Kris (DEQ)
Subject: FW: Handling Inquiries About Lead in Drinking Water

FYI

Liane J. Shekter Smith, P.E., Chief
Office of Drinking Water and Municipal Assistance
Michigan Department of Environmental Quality
517-284-6543

From: bballard@mi-water.org [<mailto:bballard@mi-water.org>]
Sent: Thursday, October 08, 2015 5:23 PM
To: Shekter Smith, Liane (DEQ)
Subject: Handling Inquiries About Lead in Drinking Water

The recent media coverage on lead in drinking water in Flint may prompt media or customer inquiries about lead and other water quality issues. Water utilities should be prepared to answer questions about their water quality and general questions about risks associated with lead.

AWWA has numerous resources to assist you in responding. In addition, direct-to-consumer information is available on the Drinktap.org site. Utilities should be able to answer questions about:

- Corrosion control strategies
- Compliance with the Lead and Copper Rule
- Testing water at the tap (e.g., does the utility provide testing, and if not, who does?)
- How to determine if a home is at higher risk due to lead service lines or other factors
- Communications with local schools

The 2014 document Communicating About Lead Service Lines has message points that may be particularly helpful as utilities evaluate their responses. Other helpful documents include:

- Strategies to Obtain Customer Acceptance of Complete Lead Service Line Replacement (2005)
- Assisting Schools and Child Care Facilities in Addressing Lead in Drinking Water (2005)

For more information about AWWA resources on lead, please contact Greg Kall in AWWA Communications.

The Michigan Section will be gathering together resources and posting links to the Section website as well.

If you wish to stop receiving email from us, you can simply remove yourself by visiting: <http://www.miwater.org/members/EmailOptPreferences.aspx?id=34844190&e=shekterl@michigan.gov&h=dc5da03328fd206594cf7aead7f3d7d986ea8aca>

Michigan Section American Water Works Association
PO Box 150469
Grand Rapids, Michigan 49515

▪

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Wednesday, October 07, 2015 8:27 AM
To: Cook, Pat (DEQ); Philip, Kris (DEQ); Rosenthal, Adam (DEQ)
Cc: Busch, Stephen (DEQ); Benzie, Richard (DEQ); Devereaux, Tracy Jo (DEQ)
Subject: FW: Project Number for City of Flint Drinking Water

Importance: High

FYI

From: Tetzlaff, Katherine (DEQ)
Sent: Wednesday, October 07, 2015 7:28 AM
To: Shekter Smith, Liane (DEQ); Benzie, Richard (DEQ); Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Subject: FW: Project Number for City of Flint Drinking Water
Importance: High

I wasn't sure who all will need this so please forward as appropriate. The department would like to capture our costs related to the Flint situation. The below project number has been established. You can use this with any account coding that you would normally be using for DCDS or travel expenses. As I understand it, we also want to go back and capture as much as we can prior to this date. If you would process payroll corrections to add this project number, that would be helpful. If there is travel, let us know so we can correct it. We can also do the DCDS corrections for you if you provide the dates and hours that should be charged.

With year-end, the sooner the better. Thanks

From: Lundy, Anastasia (DEQ)
Sent: Tuesday, October 06, 2015 4:00 PM
To: Jackson, Michael (DEQ); Lundy, Anastasia (DEQ); Marinangeli, Lois (DEQ); Renteria, Sylvia (DEQ); Tetzlaff, Katherine (DEQ)
Cc: Austin, Dawn (DEQ); Bradsher, Esther (DEQ); McDonald, Paul (DEQ)
Subject: Project Number for City of Flint Drinking Water
Importance: High

Hello all. If your division incurs expenditures related to the City of Flint drinking water situation, we have established a central project number to track as many of the costs as possible department-wide. This can be used for both payroll and non-payroll charges. *Exception: As usual, if you are using federal grants to fund the work/purchase, please use the appropriate grant project number instead of this central number.*

Project #: 900040-00, City of Flint Drinking Water

Thanks everyone!

Anastasia M. Lundy, Administration Section Chief

Remediation & Redevelopment Division
Michigan Department of Environmental Quality
Phone: 517-284-5129 / Fax: 517-373-2637
Email: LundyA1@michigan.gov

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Tuesday, October 06, 2015 5:50 PM
To: DEQ-ODWMA-Cadillac; DEQ-ODWMA-Community Drinking Water; DEQ-ODWMA-Environmental Health; DEQ-ODWMA-Executive; DEQ-ODWMA-Gaylord; DEQ-ODWMA-Grand Rapids; DEQ-ODWMA-Jackson; DEQ-ODWMA-Kalamazoo; DEQ-ODWMA-Lansing District; DEQ-ODWMA-Rev-Loan; DEQ-ODWMA-Saginaw Bay; DEQ-ODWMA-SEMI; DEQ-ODWMA-UP
Cc: Tetzlaff, Katherine (DEQ); Gasper, Kirsten (DEQ)
Subject: Brown Bag - Thursday, 10-8-15 @ 11 AM

If you haven't already been informed by your supervisor, we are planning a conference call with the ODWMA district staff to be held in the ConCon Conference room at 11 AM on October 8th to provide an update and explain what has been happening and what we are doing in response to concerns about increased blood lead levels and possible lead exposure in the city of Flint. We realize that many of you may be receiving questions about this matter from your contacts at water systems in your district or at local health departments.

If you work in Constitution Hall, you are invited to the conference room. If you will be in one of the district offices or at a remote site, you may call in to the conference number that was provided to all ODWMA supervisors, but hopefully you will do so as a group.

I will try to let Liane and Steve do most of the talking so we can get out of there in an hour or two.

Rennaker, Joanne (DEQ)

From: Crooks, Jennifer <crooks.jennifer@epa.gov>
Sent: Friday, October 02, 2015 12:46 PM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Benzie, Richard (DEQ)
Cc: Poy, Thomas
Subject: Flint schematic in OEL

Hi, all. Sorry to have bugged you about this; I thought Mike and Darren wanted something more in detail than what was provided in the OEL, and they have the OEL. I asked if they need further detail than this. We'll find out.

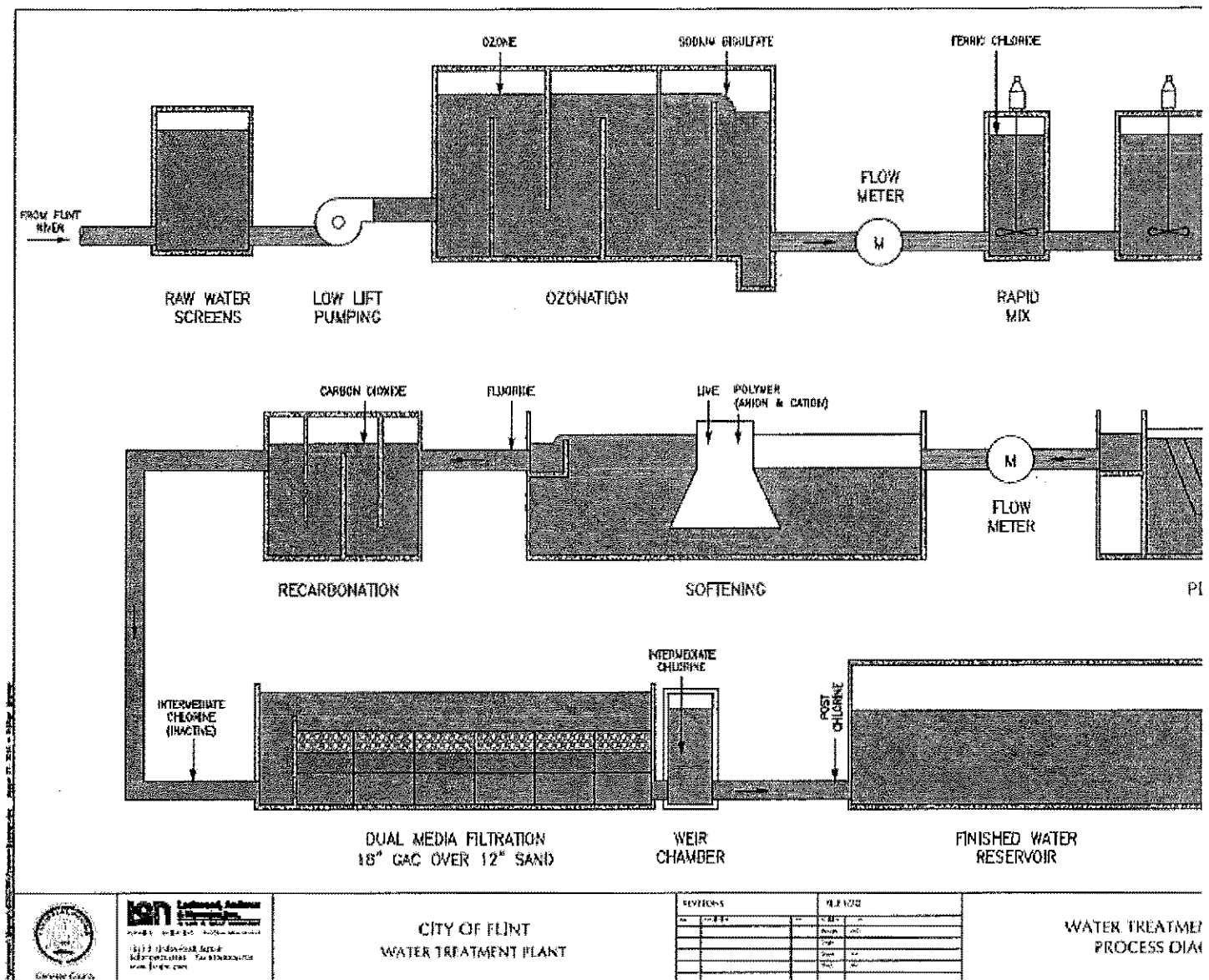
Jennifer

From: Porter, Andrea
Sent: Friday, October 2, 2015 9:56 AM
To: Crooks, Jennifer; Schock, Michael; Lytle, Darren
Cc: Poy, Thomas; Deltoral, Miguel
Subject: RE: Flint schematic

Hi All,

If you need a schematic for the Flint water treatment plant, there's one included in the August 2015 OEL report posted on City of Flint's website.

Source = <https://www.cityofflint.com/wp-content/uploads/Flint-TTHM-Operational-Evaluation-Report-August-2015.pdf>



Hope that helps,
Andrea Porter

Environmental Engineer
Ground Water & Drinking Water Branch
U.S. EPA, Region 5 (WG-15J)
77 W. Jackson Blvd.
Chicago, IL 60604
Phone: 312-886-4427
Fax: 312-697-2656

From: Crooks, Jennifer
Sent: Thursday, October 01, 2015 5:02 PM
To: Schock, Michael; Lytle, Darren
Cc: Poy, Thomas; Deltoral, Miguel; Porter, Andrea
Subject: no Flint schematic yet

I think MI DEQ has been hit hard this week with public inquiries, congressional inquiries, etc., so I have not heard back from them today. Tomorrow is a press release with MI DEQ and EPA. I did send them an email just now to say if they have the schematic, they should email it to you directly since I'm out of the office tomorrow. But I'll be back on Monday, so I'll continue to follow up with them.

Jennifer

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Friday, October 02, 2015 11:35 AM
To: Busch, Stephen (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Philip, Kris (DEQ);
Cook, Pat (DEQ)
Cc: Shekter Smith, Liane (DEQ)
Subject: 5-17-2005 Statement on Lead Service Line Flushing
Attachments: 5-17-2005 Statement on Lead Service Line Flushing.doc

I wonder if we should consider preparing a similar document for possible distribution to other water systems that discusses the issues that we have been facing in Flint and the action plan that is being put in place today. I think we published this document in Water Works News. Let's discuss next week.

What You Should Know About Lead Service Line Flushing

The Lansing Board of Water & Light (LBWL) recently embarked upon several initiatives designed to provide customers with the best information on minimizing exposure to lead in drinking water. They did so in the face of heightened public scrutiny of their lead monitoring program in the wake of widely reported problems experienced by the Washington D.C., water system with lead monitoring and lead service line replacement programs.

One of the LBWL initiatives was designed to determine the time needed for a typical resident with a lead service line to flush their kitchen tap until the lead level in the drinking water is reduced to background levels (≤ 3 ppb). The LBWL hired consultants Malcolm & Pirnie, Inc to conduct this assessment. Consecutive 1 liter samples were collected from 30 Lansing homes with lead service lines after an overnight period of stagnation. These samples were analyzed to determine when water flowing from the tap no longer contained lead that had presumably leached from fixtures, household plumbing, or the service line.

As a result of this study, LBWL issued new flushing guidelines for its customers with lead service lines. Customers are now being advised to flush their kitchen tap for a minimum of 7 minutes when it has been stagnant for 6 or more hours. This recommendation is extremely cautious and goes well beyond all advice currently being given by EPA, which currently states that flushing for up to 2 minutes may be sufficient.

The LBWL recognizes that flushing for 7 minutes may not always be convenient or practical, so in conjunction with the new flushing guidelines, they are offering free water filters and replacement cartridges to customers who have lead service lines. Customers may install this filter on the primary tap used for consumption so that flushing will be unnecessary. A free blood lead test is also available through the county health department for customers participating in the lead service line sampling program.

It should be emphasized that the LBWL has never exceeded the lead action level in compliance monitoring. Nonetheless, they committed to replacing all 14,000 known or suspected lead service lines by the year 2014 at an estimated cost of \$35 million. At this point, the LBWL has about 13,000 lead service lines remaining.

The DEQ is providing you with this information today so that other water systems with lead service lines remaining in their system may be well informed and prepared to answer any questions that may arise about what the LBWL has done and what your utility is doing in comparison. We are not advocating that you alter your current flushing guidance, only that you be aware that EPA and other references may soon start recommending flushing for longer periods than currently published. We also urge you to continue providing customers with all information available so they may make informed decisions about when and where they obtain their drinking water.

Rennaker, Joanne (DEQ)

From: Crooks, Jennifer <crooks.jennifer@epa.gov>
Sent: Thursday, October 01, 2015 5:57 PM
To: Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Cc: Benzie, Richard (DEQ); Philip, Kris (DEQ); Poy, Thomas
Subject: RE: question for ORD/Mike Schock

I'm out of the office tomorrow, so if you've been able to track down a schematic of the Flint's treatment plant, perhaps you can forward it to Mike Schock in Cincinnati? His email is schock.michael@epa.gov.

If not, I'm back in the office on Monday and maybe you can steer me toward the City to obtain a schematic. I'll check in with you then.

Thank you all.

Jennifer

From: Crooks, Jennifer
Sent: Wednesday, September 30, 2015 11:51 AM
To: Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); 'Busch, Stephen (DEQ)'
Cc: Richard Benzie; kris philip; Thomas Poy
Subject: question for ORD/Mike Schock
Importance: High

Tom P told me that your Director, Dan Wyatt, asked that his staff work with ORD/Mike Schock and Darren Lytle. Mike and Darren are both working on getting up to speed on the basics of the Flint water treatment scheme. I had a request from Mike Schock this morning about information about treatment and various sample results for Flint. So, I sent them the final OEL report from Flint that is on their website, as well as the 5 MORs that are also on Flint's website.

Mike had an additional question; he's looking for a schematic of the Flint treatment process to help him evaluate the possible successfulness of phosphate treatment at Flint. See Mike's brief explanation below.

I don't want to make this a big project if it's not handy; would Mike Glasgow have this schematic?

Thank you all! I know your time is very valuable right now.

Jennifer

From: Schock, Michael
Sent: Wednesday, September 30, 2015 10:57 AM
To: Crooks, Jennifer
Cc: Lytle, Darren
Subject: RE: more pdfs

Jennifer;

Thank you so much!

Would you happen to know if any other report has, or that you might have somewhere, a currently-valid process schematic for the entire set of treatments done at the Flint plant? It would be helpful to have a better picture of where things like softening, type of coagulant and GAC fit into the picture. There are several potential interrelationships that would affect the successfulness of the phosphate treatment proposed and dosage, and the instability cause by the major chemistry change from Detroit finished water (which I understand was from their Lake Huron-fed plant).

--Mike

From: Crooks, Jennifer

Sent: Wednesday, September 30, 2015 9:29 AM

To: Schock, Michael; Lytle, Darren

Subject: more pdfs

April 2015 MOR is not on the website.

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Wednesday, September 30, 2015 3:07 PM
To: Busch, Stephen (DEQ); Rennaker, Joanne (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Skinker, Bethel (DEQ); Joseph, Mark (DEQ); Swendsen, Kurt (DEQ)
Cc: Shekter Smith, Liane (DEQ); Devereaux, Tracy Jo (DEQ); Philip, Kris (DEQ); Cook, Pat (DEQ); Howd, Pamela (DEQ)
Subject: RE: Flint calls
Categories: Lead

ODWMA is receiving a lot of calls with questions from Flint residents concerned about the safety of their drinking water. If you receive one of these calls, our message should be consistent – the drinking water distributed to city customers currently meets all drinking water standards and is considered safe. However, there is no safe level for lead. The fact that Flint meets the drinking water standard is based on an evaluation of the effectiveness of their treatment system to minimize lead leaching from plumbing materials. Compliance does not mean that under certain conditions that some homeowners may still have water in their domestic plumbing that has leached some lead from lead pipes or lead solder.

The only way for a resident to know if they may be exposed to lead leaching from their plumbing system is having a sample from that residence analyzed for lead at a certified laboratory. The DEQ laboratory is not providing that service at no cost. The city of Flint currently is accommodating requests from residents without charging them, but the residents have to go through the city to arrange that sampling, and the city may have a backlog right now.

If the caller has a result that indicates lead is present, or in the absence of a result, our advice should be to minimize any stagnation of the water before consumption, even without knowing if they have plumbing that contains lead. You could tell them they can do so by letting a faucet run for a few minutes or until the water is cooler (don't set a time – it can be so variable) and then use it for drinking or cooking.

Please be polite and empathetic if you receive one of these calls.

I also want to thank you for the effort you have made to respond to this issue. It is noticed and appreciated. In recognition of your performance, I have arranged for you to receive a 2 percent merit increase starting tomorrow.

Richard

Richard Benzie, P.E., Chief
 Field Operations Section
 Office of Drinking Water and Municipal Assistance, MDEQ
 517-284-6512

Rennaker, Joanne (DEQ)

From: Crooks, Jennifer <crooks.jennifer@epa.gov>
Sent: Wednesday, September 30, 2015 12:51 PM
To: Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Cc: Benzie, Richard (DEQ); Philip, Kris (DEQ); Poy, Thomas
Subject: question for ORD/Mike Schock

Importance: High

Tom P told me that your Director, Dan Wyatt, asked that his staff work with ORD/Mike Schock and Darren Lytle. Mike and Darren are both working on getting up to speed on the basics of the Flint water treatment scheme. I had a request from Mike Schock this morning about information about treatment and various sample results for Flint. So, I sent them the final OEL report from Flint that is on their website, as well as the 5 MORs that are also on Flint's website.

Mike had an additional question; he's looking for a schematic of the Flint treatment process to help him evaluate the possible successfulness of phosphate treatment at Flint. See Mike's brief explanation below.

I don't want to make this a big project if it's not handy; would Mike Glasgow have this schematic?

Thank you all! I know your time is very valuable right now.

Jennifer

From: Schock, Michael
Sent: Wednesday, September 30, 2015 10:57 AM
To: Crooks, Jennifer
Cc: Lytle, Darren
Subject: RE: more pdfs

Jennifer;

Thank you so much!

Would you happen to know if any other report has, or that you might have somewhere, a currently-valid process schematic for the entire set of treatments done at the Flint plant? It would be helpful to have a better picture of where things like softening, type of coagulant and GAC fit into the picture. There are several potential interrelationships that would affect the successfulness of the phosphate treatment proposed and dosage, and the instability cause by the major chemistry change from Detroit finished water (which I understand was from their Lake Huron-fed plant).

--Mike

From: Crooks, Jennifer
Sent: Wednesday, September 30, 2015 9:29 AM
To: Schock, Michael; Lytle, Darren
Subject: more pdfs

April 2015 MOR is not on the website.

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Monday, September 28, 2015 9:52 AM
To: Ploehn, Kelly (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ)
Subject: Re: FYI

Thanks. There's not much we can do if they don't leave contact info. We will add it to the list of complaints.

From: Ploehn, Kelly (DEQ)
Sent: Monday, September 28, 2015 7:39:23 AM
To: Benzie, Richard (DEQ)
Subject: FYI

Good Morning Richard,
Over the weekend there was a complaint left on the EAC voicemail regarding Flint drinking water. No other information was provided.
Thanks,
Kelly ☺

Rennaker, Joanne (DEQ)

From: Rennaker, Joanne (DEQ)
Sent: Friday, September 25, 2015 2:03 PM
To: Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Devereaux, Tracy Jo (DEQ)
Cc: Busch, Stephen (DEQ)
Subject: FW: FOIA 6526-15 - Corrosion Control in Flint River Water

Steve requested that I e-mail Marc Edwards for clarification on FOIA 6526-15 regarding corrosion in Flint River water. His response is below. We need to gather the information as requested. The due date is September 30, 2015.

Jo Anne Rennaker
 Secretary
 Office of Waste Management and Radiological Protection
 Office of Drinking Water and Municipal Assistance
 517-284-6643

From: Marc Edwards [<mailto:edwardsm@vt.edu>]
Sent: Friday, September 25, 2015 1:46 PM
To: Rennaker, Joanne (DEQ)
Subject: RE: FOIA 6526-15 - Corrosion Control in Flint River Water

At the Flint water treatment plant. Thanks, Marc

From: Rennaker, Joanne (DEQ) [<mailto:RENNAKERJ@michigan.gov>]
Sent: Friday, September 25, 2015 1:34 PM
To: edwardsm@vt.edu
Subject: FOIA 6526-15 - Corrosion Control in Flint River Water

Dear Mr. Edwards,

In regards to your FOIA request of September 7, 2015 (6526-15), could you please clarify if you are looking for information regarding corrosion control in the Flint River, or corrosion control at the Flint Water Treatment Plant.

Thank-you,

Jo Anne Rennaker
 Secretary
 Office of Waste Management and Radiological Protection
 Office of Drinking Water and Municipal Assistance
 517-284-6643

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Tuesday, September 22, 2015 5:51 PM
To: Prysby, Mike (DEQ); Rosenthal, Adam (DEQ); Busch, Stephen (DEQ)
Cc: Devereaux, Tracy Jo (DEQ); Shekter Smith, Liane (DEQ)
Subject: RE: Flint water questions

We need to get answers Wednesday. Someone needs to contact Flint and determine the validity of these claims without sounding too accusatory.

Did the city mail sampling kits to the same homes in the last two rounds of lead & copper monitoring? If not, why? Do they have a record that these sites have lead services or lead plumbing? If not, why did they certify them as meeting that criteria when they submitted the results? Did they tell Mark Edwards or anyone else that their sampling kits are distributed randomly? Did they mean randomly among lead service line properties?

Those are just the ones I can think up at this time. I'm sure there are others we could ask.

From: Shekter Smith, Liane (DEQ)
Sent: Tuesday, September 22, 2015 2:57 PM
To: Benzie, Richard (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Cc: Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ)
Subject: FW: Flint water questions
Importance: High

Liane J. Shekter Smith, P.E., Chief
 Office of Drinking Water and Municipal Assistance
 Michigan Department of Environmental Quality
 517-284-6543

From: Wyant, Dan (DEQ)
Sent: Tuesday, September 22, 2015 1:49 PM
To: Pallone, Maggie (DEQ); Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ)
Cc: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: FW: Flint water questions
Importance: High

FYI

Dan Wyant, Director
 Department of Environmental Quality
 517-284-6700 (New Number)

From: Curt Guyette [<mailto:cguyette@aclumich.org>]
Sent: Tuesday, September 22, 2015 1:33 PM
To: Wurfel, Brad (DEQ)
Cc: Wyant, Dan (DEQ)

Subject: Flint water questions

Importance: High

Mr. Wurfel,

Attached are a few questions regarding the MDEQ's oversight of Flint's Lead and Copper Rule monitoring program.

I would appreciate it if you would provide me answers by the end of the day Thursday, Sept. 24.

Feel free to call me either at work (313-578-6834) or on my cell phone (586-925-0493) if you have questions or need anything clarified.

Sincerely,

Curt Guyette

Rennaker, Joanne (DEQ)

From: Shekter Smith, Liane (DEQ)
Sent: Tuesday, September 22, 2015 2:57 PM
To: Benzie, Richard (DEQ); Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Cc: Devereaux, Tracy Jo (DEQ); Busch, Stephen (DEQ)
Subject: FW: Flint water questions
Attachments: MDEQ Questions 9-22-15.docx

Importance: High

Liane J. Shekter Smith, P.E., Chief
 Office of Drinking Water and Municipal Assistance
 Michigan Department of Environmental Quality
 517-284-6543

From: Wyant, Dan (DEQ)
Sent: Tuesday, September 22, 2015 1:49 PM
To: Pallone, Maggie (DEQ); Shekter Smith, Liane (DEQ); Busch, Stephen (DEQ)
Cc: Wurfel, Brad (DEQ); Tommasulo, Karen (DEQ)
Subject: FW: Flint water questions
Importance: High

FYI

Dan Wyant, Director
 Department of Environmental Quality
 517-284-6700 (New Number)

From: Curt Guyette [<mailto:cguyette@aclumich.org>]
Sent: Tuesday, September 22, 2015 1:33 PM
To: Wurfel, Brad (DEQ)
Cc: Wyant, Dan (DEQ)
Subject: Flint water questions
Importance: High

Mr. Wurfel,

Attached are a few questions regarding the MDEQ's oversight of Flint's Lead and Copper Rule monitoring program.

I would appreciate it if you would provide me answers by the end of the day Thursday, Sept. 24.

Feel free to call me either at work (313-578-6834) or on my cell phone (586-925-0493) if you have questions or need anything clarified.

Sincerely,

Curt Guyette

Dear Mr. Wurfel,

In a February 27, 2015 email to Jennifer Crooks and Miguel Del Toral of the U.S. EPA, the MDEQ's Stephen Busch wrote that the city of Flint "has an optimized corrosion control program."

According to a recent interview with Flint Public Work's director Howard Croft, there is currently no corrosion control plan in place in Flint, and that it was MDEQ's decision not to use corrosion control additives, as Detroit does, at the time of the changeover to the Flint River in April 2014, and that none have been used since. It appears that Mr. Busch told the EPA something that wasn't true.

I'm writing to ask you to clear up the discrepancy between what Mr. Busch told the EPA, and what Mr. Croft is now saying.

- **What, if any, Optimized Corrosion Control has been in place in Flint since the changeover to the Flint River in April 2014?**
- **If implemented, when did that program begin?**
- **What are the specific details of that optimized corrosion control program, if it did in fact exist? That is to say, what chemicals were used to control corrosion in Flint's water infrastructure?**

In addition, according to my understanding of the law, the city of Flint, operating under the oversight of the MDEQ, was supposed to (a) have had a 120-home sample pool to draw from when choosing homes to sample as part of the EPA's Lead and Copper Rule compliance monitoring and (b) that the city was required by law to re-test those same 100 homes during the second round of testing that took place from Jan. 1 to June 30 2015.

- **Did the city of Flint ever provide the MDEQ with that 120 homes sample pool? Will the MDEQ make that list available if in its possession?**
- **Why did the MDEQ certify that Flint followed proper testing protocol when only 13 of the homes tested during the first round (July 1 to Dec. 31, 2014) were re-tested during the second round?**
- **Why is this not a violation of the federal LCR testing protocols?**
- **Why were all 13 of those homes under the federal action level for lead and copper, while none of the homes over the action level were re-tested during the second round?**

Mr. Del Toral of the EPA specifically said in a communication with MDEQ that a sample from the Walters home at 212 Browning Ave. in Flint should be included in the homes used to determine whether Flint is in compliance with the LCR.

That home was included in the original list of 71 homes the city of Flint provided to MDEQ, but the MDEQ deleted that home from its final report.

It has been asserted that this home had a whole house filter, but according to Lee-Anne Walters she was instructed by Flint officials to disable the filter prior to taking the water sample that showed lead levels to be far above the federal action limit.

- What is the DEQ's justification for not following the U.S. EPA's specific guidance to include this home in its report showing that Flint is in compliance with federal regulations regarding lead levels in water?

I would appreciate an answer to these questions by the end of the day Thursday, Sept. 24.

Thank you for your assistance in this important matter.

Sincerely,

Curt Guyette

Investigative reporter

ACLU of Michigan

Work number: 313-578-6834

Cell phone number: 586-925-0493

Rennaker, Joanne (DEQ)

From: Kaiser, Rebecca (DEQ)
Sent: Friday, September 18, 2015 11:58 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: DEQ-Laboratory Report-Genesee-2015-09-17

Thanks! How if Flint, by the way? I see that Erin B. is stirring the pot again!

-----Original Message-----

From: Rosenthal, Adam (DEQ)
Sent: Friday, September 18, 2015 11:52 AM
To: Kaiser, Rebecca (DEQ)
Subject: FW: DEQ-Laboratory Report-Genesee-2015-09-17

I believe the last one is yours.

Adam

-----Original Message-----

From: DEQ-DWR-LABREPORTS
Sent: Thursday, September 17, 2015 2:12 PM
To: GCHD-EHWATER@GCHD.US; Graham, Lois (DEQ); DEQ-DWMA-Lansing
Subject: DEQ-Laboratory Report-Genesee-2015-09-17

Dear Drinking Water Laboratory Client,

A PDF file containing your analytical results has been attached to this e-mail.

Please do not reply directly to this e-mail. It is an automated account that does not respond to incoming messages.

Please contact the laboratory directly at (517) 335-8184 with questions regarding your report.

Thank you for using the MDEQ Drinking Water Laboratory.

Rennaker, Joanne (DEQ)

From: Wurfel, Brad (DEQ)
Sent: Wednesday, September 16, 2015 1:33 PM
To: Vorce, Susan (DEQ)
Cc: Busch, Stephen (DEQ); Shaler, Karen (DEQ); Tommasulo, Karen (DEQ); Feuerstein, Heather (DEQ); Pallone, Maggie (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ)
Subject: FW: foia request

Susan, got this FOIA from Mlive. Would like to just get it processed quickly today. Doable, or do we need to follow some set steps? Please advise. Thanks.

b

From: Ronald Fonger [<mailto:RFONGER1@mlive.com>]
Sent: Wednesday, September 16, 2015 8:12 AM
To: Wurfel, Brad (DEQ)
Subject: foia request

Sept. 16, 2015

Please consider this a request under the Freedom of Information Act for the following:

- A copy of a June 25, 2015, email from Adam Rosenthal of the Michigan Department of Environmental Quality to Howard Croft, Flint Department of Public Works director. The email concerns lead/copper samples collected by the city of Flint.
- Any document or documents showing the results of water tests from samples submitted by the city of Flint to the Michigan Department of Environmental Quality from June 25, 2015, until June 30, 2015.

Because these documents relate to a matter of public concern and are of timely value, I ask that you expedite my request and provide the documents electronically if possible.

Should the cost of providing these document exceed \$50, I ask that you contact me immediately.

Likewise, if you have any questions regarding this request, please contact me as soon as possible.

Thank-you in advance for your help in this matter of public interest.

Ron Fonger
 MLive Media Group
 Reporter

mobile 810.347.9963
 email rfonger1@mlive.com
 address 540 S. Saginaw St. #101, Flint MI 48502

Ron Fonger
 MLive Media Group
 Reporter

mobile 810.347.9963

email rfonger1@mlive.com

address 540 S. Saginaw St. #101, Flint MI 48502

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Wednesday, September 09, 2015 5:21 PM
To: Poy, Thomas
Cc: Busch, Stephen (DEQ); Rosenthal, Adam (DEQ); Shekter Smith, Liane (DEQ)
Subject: RE: Flint Pb&Cu Results

I don't think the addresses were redacted. Almost 25 years ago, we received an Attorney General's opinion that was issued in response to a FOIA request from the media for lead results from Flint that said we could withhold the addresses. However, I believe we have since determined we do not have that authority.

But I will have to ask the Lansing district staff to weigh in on this matter. Steve and Adam, did we redact addresses for this FOIA?

From: Poy, Thomas [<mailto:poy.thomas@epa.gov>]
Sent: Wednesday, September 09, 2015 3:41 PM
To: Benzie, Richard (DEQ)
Subject: RE: Flint Pb&Cu Results

Richard: Thank you for the analytical results. Were the addresses redacted before sending to the ACLU in response to their FOIA? I'm not comfortable sending addresses out, even if it is to a Congressman, so we are going to tell Congressman Kildee that he needs to call MDEQ's Congressional Liaison to get the results.

Tom

Tom Poy
 Chief, Ground Water and Drinking Water Branch
 USEPA - Region 5
 (312) 886-5991

From: Benzie, Richard (DEQ) [<mailto:BENZIER@michigan.gov>]
Sent: Wednesday, September 09, 2015 2:22 PM
To: Poy, Thomas
Cc: Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); Busch, Stephen (DEQ); shekterl@michigan.gov
Subject: Flint Pb&Cu Results

Tom,

Here are the scanned analytical results from the latest round of compliance monitoring (January 1 -- June 30, 2015) conducted in Flint. They were scanned for the purpose of responding to a Freedom of Information Act request.

I believe you already have a copy of the correspondence from our Lansing District Office notifying the city of Flint of the compliance determination that was based on these results.

If you need more information, contact Adam Rosenthal.

Richard

Richard Benzie, P.E., Chief
Field Operations Section
Office of Drinking Water and Municipal Assistance, MDEQ
517-284-6512

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Wednesday, September 09, 2015 3:22 PM
To: Poy, Thomas (poy.thomas@epa.gov)
Cc: Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ)
Subject: Flint Pb&Cu Results
Attachments: ACLU FOIA - Lab Results for Flint.pdf

Tom,

Here are the scanned analytical results from the latest round of compliance monitoring (January 1 – June 30, 2015) conducted in Flint. They were scanned for the purpose of responding to a Freedom of Information Act request.

I believe you already have a copy of the correspondence from our Lansing District Office notifying the city of Flint of the compliance determination that was based on these results.

If you need more information, contact Adam Rosenthal.

Richard

Richard Benzie, P.E., Chief
Field Operations Section
Office of Drinking Water and Municipal Assistance, MDEQ
517-284-6512



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Carl. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF68790

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **3811 BRENTWOOD DR, FLINT**
Collected By: **REID SANDERS**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/14/2015 09:35**
Date Received: **06/19/2015 11:02**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.042	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. M100003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF63410

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48506

System Name/Owner: CITY OF FLINT
Collection Address: 631 ALVORD AVE, FLINT
Collected By: JANICE BERRYMAN
Township/Well#/Section: //
County: Genesee
Sample Point: MAIN BATHROOM
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 05/06/2015 07:00
Date Received: 05/13/2015 11:26
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	05/14/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.042	05/14/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszczian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8582

Sample Number

LF68793



Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48506

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	1150 WOODSIDE DR, FLINT	Source:	Single Family Dwelling
Collected By:	DEBORAH CONRAD	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/14/2015 07:30
Sample Point:	KITCHEN	Date Received:	06/19/2015 11:02
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.029	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligramme / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszczan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF63411

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY.
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	216 BROWNING AVE, FLINT	Source:	Single Family Dwelling
Collected By:	DEB	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	05/07/2015 08:00
Sample Point:	KITCHEN	Date Received:	05/13/2015 11:26
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.31	05/14/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.022	05/14/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8662



Sample Number

LF68023

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1807 OREN AVE, FLINT**
Collected By: **MARK RUSSEL**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/08/2015 07:30**
Date Received: **06/16/2015 11:11**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/17/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.021	06/17/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Piepor
Systems Mgmt. Unit Mgr: George Kirsztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF68794

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 547 COPEMAN BLVD, FLINT
Collected By: LINDA LEE
Township/Well/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/14/2015 09:00
Date Received: 06/19/2015 11:02
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.018	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kristian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 336-8184

FAX: (517) 336-8562



Sample Number

LF57728

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 1224 DECKER ST, FLINT
Collected By: LOU ANNE MALIS
Township/Well/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 03/17/2015 06:00
Date Received: 03/24/2015 11:05
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.10	03/25/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.013	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8582



Sample Number

LF70230

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1205 BLANCHARD AVE, FLINT**
Collected By: **JOEL ARNOLD**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/24/2015 06:30**
Date Received: **08/30/2015 11:14**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.011	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 267-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julie Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF70222

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **721 EAST STAPT #2, FLINT**
Collected By: **MELANIE POISSON**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **08/25/2015 06:30**
Date Received: **08/30/2015 11:14**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.18	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.010	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julie Pieper
Systems Mgmt. Unit Mgr: George Kiszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert, No. M100003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF54946

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1809 STEVENSON ST, FLINT**
Collected By: **MIKE TAYLOR**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN SINK**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **TYPE I**
Site Code:
Collector: **Private Citizen**
Date Collected: **02/10/2015 06:30**
Date Received: **02/19/2015 11:13**
Purpose: **Routine Monitoring**

TESTING INFORMATION				REGULATORY INFORMATION		
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	02/20/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.010	02/20/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krazlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF56223



Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	4202 CUSTER AVE, FLINT	Source:	Single Family Dwelling
Collected By:	JACQUELINE PEMBERTON	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	03/04/2015 08:00
Sample Point:	KITCHEN	Date Received:	03/06/2015 11:33
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.27	03/10/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.006	03/10/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF56225

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	401 E NEWALL ST, FLINT	Source:	Single Family Dwelling
Collected By:	MARK CROMWELL SR	Site Code:	
Township/Well#/Section:	//	Collector:	Other
County:	Genesee	Date Collected:	03/02/2015 09:30
Sample Point:	KITCHEN	Date Received:	03/06/2015 11:33
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	03/10/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	03/10/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Krszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF56227

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 2615 TRUMBULL AVE, FLINT
Collected By: JENNIFER PEDERSON
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 02/27/2015 10:00
Date Received: 03/06/2015 11:33
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	03/10/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	03/10/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Kriszian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF54663

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2265 FLUSHING RD, FLINT	Source:	TYPE I
Collected By:	CHRIS BEATENHEAD	Site Code:	
Township/Well#/Section:	//	Collector:	Public Water Supply Operator
County:	Genesee	Date Collected:	02/16/2015 06:00
Sample Point:	KITCHEN	Date Received:	02/17/2015 10:47
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.13	02/16/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	02/16/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF57730

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1220 DECKER ST, FLINT**
Collected By: **CARMEN PULIDO**
Township/Well/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **03/17/2015 06:00**
Date Received: **03/24/2015 11:05**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	03/25/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.004	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF57731

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48506

System Name/Owner: CITY OF FLINT
Collection Address: 1379 WASHINGTON, FLINT
Collected By: ROXANNE PUTMAN
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 03/19/2015 08:30
Date Received: 03/24/2015 11:05
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/L (mg/L)	Method	CAS #
Copper	Not detected	03/25/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.008	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 257-3803

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krieszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF57733

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 1372 WASHINGTON AVE, FLINT
Collected By: ANTHONY PALLADENO JR
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 03/19/2015 08:00
Date Received: 03/24/2015 11:05
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.14	03/25/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF57734

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 1383 WASHINGTON AVE, FLINT
Collected By: ANTHONY PALLADENO III
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 03/19/2015 08:00
Date Received: 03/24/2015 11:05
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.17	03/25/2015	0.05	1.3	EPA 200.8	7440-60-8
Lead	0.006	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF57735

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1367 WASHINGTON AVE, FLINT.**
Collected By: **LEAH PALLADENO**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **MAIN BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **03/17/2015 06:00**
Date Received: **03/24/2015 11:05**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	03/25/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.001	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligram / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF57736

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	1701 MARQUETTE DR, FLINT	Source:	Single Family Dwelling
Collected By:	CHARMA DOMPHEH	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	03/14/2015 09:40
Sample Point:	KITCHEN	Date Received:	03/24/2015 11:05
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.19	03/25/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.001	03/25/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3803

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number
LF58413

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **778 E BUNDY AVE, FLINT**
Collected By: **SANDRA HULL**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **MAIN BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **TYPE I**
Site Code:
Collector: **Private Citizen**
Date Collected: **03/24/2015 08:25**
Date Received: **03/31/2015 11:11**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	04/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	04/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszczan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF58414

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **3714 BEECHER RD, FLINT**
Collected By: **MELISSA MAYS**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **TYPE 1**
Site Code:
Collector: **Private Citizen**
Date Collected: **03/24/2015 06:30**
Date Received: **03/31/2015 11:11**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.62	04/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	04/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8582



Sample Number

LF59749

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1016 INGLESIDE AVE, FLINT**
Collected By: **JAMES D JARVIS**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **04/09/2015 07:00**
Date Received: **04/14/2015 11:07**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.07	04/15/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.007	04/15/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Plepor
Systems Mgmt. Unit Mgr: George Kiszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8582



Sample Number

LF59750

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1618 ROCK CREEK LN, FLINT**
Collected By: **HELEN HUNTER**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **MAIN BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **04/08/2015 08:50**
Date Received: **04/14/2015 11:07**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.11	04/15/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	04/15/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF59751

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 3010 CHEYENNE ST, FLINT
Collected By: GERTRUDE MARSHALL
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 04/03/2015 08:50
Date Received: 04/14/2015 11:07
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.10	04/15/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	04/15/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Plepor
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8154

FAX: (517) 335-8562



Sample Number

LF60546

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48605

System Name/Owner: **CITY OF FLINT**
Collection Address: **2606 MOUNTAIN AVE, FLINT**
Collected By: **MARIBETH PEREZ**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **04/15/2015 12:00**
Date Received: **04/21/2015 10:41**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	04/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	04/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Ploper
Systems Mgmt. Unit Mgr: George Kriestian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF61845

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 2020 CROOKED LN, FLINT
Collected By: TRACY & MIKE SARGENT
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 04/24/2015 07:00
Date Received: 05/04/2015 10:21
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.10	05/05/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	05/05/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Plopor
Systems Mgmt. Unit Mgr: George Kiszlian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8582

Sample Number
LF61846

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48606

System Name/Owner: CITY OF FLINT
Collection Address: 310 E MOORE ST, FLINT
Collected By: HUSTON BOLDEN
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 04/22/2015 07:00
Date Received: 05/04/2016 10:21
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	05/05/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	05/05/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U. S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krizsfian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF64283

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 3714 BEECHER RD, FLINT
Collected By: MELISSA MAYS
Township/Well#/Section: //
County: Genesee
Sample Point: MAIN BATHROOM
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 05/14/2015 06:00
Date Received: 05/20/2015 11:24
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.15	05/21/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.008	05/21/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 267-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julie Floper
Systems Mgmt. Unit Mgr: George Krieszian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



**Sample Number
LF64285**

Official Laboratory Report

Report To: **MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48506**

System Name/Owner: **CITY OF FLINT**
Collection Address: **912 LEXINGTON AVE, FLINT**
Collected By: **LAURA HATT**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **MAIN BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **05/15/2015 09:00**
Date Received: **05/20/2015 11:24**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	05/21/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.006	05/21/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

**Genesee County Health Dept.
530 South Saginaw
Flint, MI 48602-1540
810 257-3603**

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Papor
Systems Mgmt. Unit Mgr: George Kriszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF67423

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 344 ROBBIE LN, FLINT
Collected By: CASSANDRA BROWN
Township/Well/Section: //
County: Genesee
Sample Point: BATHROOM
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 05/31/2015 08:15
Date Received: 06/11/2015 10:51
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.11	06/12/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.004	06/12/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriazlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF67424



Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 357 ROBBIE LN, FLINT
Collected By: FRANK EVANS
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 05/31/2015 08:00
Date Received: 06/11/2015 10:51
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.20	06/12/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	06/12/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
830 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF67425



Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **328 ROBBIE LN, FLINT**
Collected By: **WILLIE TURNER**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **05/30/2015 06:00**
Date Received: **06/11/2015 10:51**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.09	06/12/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	06/12/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
830 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF67427

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 353 ROBBIE LN, FLINT
Collected By: ZETAN EVANS
Township/Well#/Section: //
County: Genesee
Sample Point: BATHROOM
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 05/30/2015 06:45
Date Received: 06/11/2015 10:51
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.11	06/12/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	06/12/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Kriszian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



**Sample Number
LF67428**

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **349 ROBBIE LN, FLINT**
Collected By: **DORIS NUNN**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **05/31/2015 08:00**
Date Received: **06/11/2015 10:51**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/12/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	06/12/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3803

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julie Pleper
Systems Mgral. Unit Mgr: George Krisztlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF68792

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48605

System Name/Owner: CITY OF FLINT
Collection Address: 853 E 7TH ST, FLINT
Collected By: LAURA STUDACHER
Township/Well#/Section: //
County: Genesee
Sample Point: BATHROOM
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/12/2015 06:30
Date Received: 06/19/2015 11:02
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.07	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.007	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562



Sample Number

LF68791

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48605

System Name/Owner: **CITY OF FLINT**
Collection Address: **1615 S FRANKLIN AVE, FLINT**
Collected By: **VIVAN GRIER**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/14/2015 09:45**
Date Received: **06/19/2015 11:02**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszlian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8582

Sample Number
LF68788

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 421 LYON ST, FLINT
Collected By: SAMUEL J CONDE
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/14/2015 08:34
Date Received: 06/19/2015 11:02
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.14	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.007	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kizilian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF68789

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1528 DELAWARE AVE, FLINT**
Collected By: **CAROL PARKER**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/12/2015 05:23**
Date Received: **06/19/2015 11:02**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/22/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	06/22/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krsztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF69622

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	920 STOCKER AVE, FLINT	Source:	Single Family Dwelling
Collected By:	MICHAEL TAYLOR	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/21/2015 10:30
Sample Point:	KITCHEN	Date Received:	06/25/2015 11:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.001	06/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8582

Sample Number
LF69623

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **742 LINCOLN AVE, FLINT**
Collected By: **DANA STIF**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/18/2015 07:00**
Date Received: **06/25/2015 11:52**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	06/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U. S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3803

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Ploper
Systems Mgmt. Unit Mgr: George Kristian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF69624

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	3517 BENNETT AVE, FLINT	Source:	Single Family Dwelling
Collected By:	RANDOLPH FREEMAN	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/24/2015 05:05
Sample Point:	KITCHEN	Date Received:	06/25/2015 11:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	06/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	06/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgrd. Unit Mgr: George Krsztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF69625



Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **1730 OVERHILL DR, FLINT**
Collected By: **PETER M BADE**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **KITCHEN**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **08/22/2015 05:30**
Date Received: **08/25/2015 11:52**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.08	08/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.001	08/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1640
810 257-3803

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Krszilan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF69626

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **2117 STANFORD AVE, FLINT**
Collected By: **CHIMENE HILL**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **MAIN BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/23/2015 08:20**
Date Received: **06/25/2015 11:52**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.08	06/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	06/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pleper
Systems Mgmt. Unit Mgr: George Kisztlan



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF69627

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2432 BETA LN, FLINT	Source:	Single Family Dwelling
Collected By:	JON KINGEN	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/21/2015 07:00
Sample Point:	KITCHEN	Date Received:	06/25/2015 11:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	06/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	06/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF69628

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2023 MILLER RD, FLINT	Source:	Single Family Dwelling
Collected By:	CAROLA HIGGINS	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/21/2015 11:00
Sample Point:	KITCHEN	Date Received:	06/25/2015 11:52
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	06/26/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	06/26/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kdszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF70223

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	3814 WHITTIER, FLINT	Source:	Single Family Dwelling
Collected By:	BRIAN URCH	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/25/2015 07:33
Sample Point:	BATHROOM	Date Received:	06/30/2015 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krizstian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF70224

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **3120 NORWOOD DR, FLINT**
Collected By: **TOM HUTCHINGS**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **BATHROOM**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/24/2015** **06:20**
Date Received: **06/30/2015** **11:14**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. M100003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8582

Sample Number

LF70225

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 2122 PIERCE ST, FLINT
Collected By: KATHLEEN REID
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 08/21/2015 07:00
Date Received: 08/30/2015 11:14
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	07/01/2016	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
830 South Saginaw
Flint, MI 48502-1540
810 257-3803

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kristian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF70226

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	3521 BENNETT AVE, FLINT	Source:	Single Family Dwelling
Collected By:	BRENT WRIGHT	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/25/2015 06:35
Sample Point:	KITCHEN	Date Received:	06/30/2015 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF70227

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 1602 RASPBERRY LN, FLINT
Collected By: BRAD FARRAR
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/24/2015 07:15
Date Received: 06/30/2015 11:14
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krieszian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. M00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

**Sample Number
LF70228**

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	1809 LYNBROOK, FLINT	Source:	Single Family Dwelling
Collected By:	DAWN STEELE	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/26/2015 04:35
Sample Point:	KITCHEN	Date Received:	06/30/2015 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kirsztlan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF70229

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2112 SHERFF, FLINT	Source:	Single Family Dwelling
Collected By:	KAREN EATON	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/24/2015 09:30
Sample Point:	KITCHEN	Date Received:	06/30/2015 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.009	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kraszian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

**Sample Number
LF70231**

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48605

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	880 SCHAFER ST, FLINT	Source:	Single Family Dwelling
Collected By:	DERRICK JONES	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/26/2015 05:27
Sample Point:	KITCHEN	Date Received:	06/30/2015 11:14
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	07/01/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	07/01/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julie Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF71158

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48605

System Name/Owner: CITY OF FLINT
Collection Address: 2110 FLUSHING RD, FLINT
Collected By: SHELLY SANETRIK
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/30/2015 08:34
Date Received: 07/07/2015 11:34
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.10	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U. S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 267-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszlian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF71159

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48605

System Name/Owner: CITY OF FLINT
Collection Address: 2300 FLUSHING RD, FLINT
Collected By: CONSTANCE VAUGHN
Township/Well#/Section: //
County: Genesee
Sample Point: BATHROOM
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/28/2015 09:30
Date Received: 07/07/2015 11:34
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.28	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48602-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriebitzian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8164

FAX: (517) 335-8562

Sample Number

LF71160

Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: **CITY OF FLINT**
Collection Address: **2130 FLUSHING RD, FLINT**
Collected By: **ROSARIO**
Township/Well#/Section: **//**
County: **Genesee**
Sample Point: **BASEMENT**
Water System: **Treated Public Distribution System**

WSSN/Pool ID: **2310**
Source: **Single Family Dwelling**
Site Code:
Collector: **Private Citizen**
Date Collected: **06/28/2015 17:46**
Date Received: **07/07/2015 11:34**
Purpose: **Routine Monitoring**

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.05	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.006	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1640
810 267-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kraztjan



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF71162

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 2202 FLUSHING RD, FLINT
Collected By: BARBARA NELSON
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 08/29/2015 08:30
Date Received: 07/07/2015 11:34
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003



P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF71163

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2429 FLUSHING RD, FLINT	Source:	Single Family Dwelling
Collected By:	ROLAND WATSON	Site Code:	
Township/Well/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/30/2015 08:00
Sample Point:	KITCHEN	Date Received:	07/07/2015 11:34
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.06	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kiszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF71165



Official Laboratory Report

Report To: MIKE GLASGOW
4600 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 4013 BROWNELL BLVD, FLINT
Collected By: ADRIAN AND PHYLLIS JONES
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/29/2015 08:30
Date Received: 07/07/2015 11:34
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.08	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kristian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF71166



Official Laboratory Report

Report To: **MIKE GLASGOW**
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2414 FLUSHING RD, FLINT	Source:	Single Family Dwelling
Collected By:	MICHELLE AND MICHAEL REED	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/30/2015 07:30
Sample Point:	KITCHEN	Date Received:	07/07/2015 11:34
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
830 South Saginaw
Flint, MI 48502-1540
810 257-3803

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kristian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8582

Sample Number
LF71167



Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 1914 PENBROOK LN, FLINT
Collected By: KARL ADKINS
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/29/2015 08:00
Date Received: 07/07/2015 11:34
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U. S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kristian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF71168

Official Laboratory Report

Report To: MIKE GLASGOW
4600 N DORT HWY
FLINT MI 48505

System Name/Owner: CITY OF FLINT
Collection Address: 3901 LEERDA ST, FLINT
Collected By: CARNETTA CARTER
Township/Well#/Section: //
County: Genesee
Sample Point: KITCHEN
Water System: Treated Public Distribution System

WSSN/Pool ID: 2310
Source: Single Family Dwelling
Site Code:
Collector: Private Citizen
Date Collected: 06/26/2015 08:25
Date Received: 07/07/2015 11:34
Purpose: Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	Not detected	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS#: Chemical Abstract Service Registry Number
MCL: Maximum Contaminant Level
AL: Action Level
RL: Reporting Limit

mg/L: milligrams / Liter (ppm)
ppm: parts per million
MPN: Most Probable Number
CFU: Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszlian

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**



USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LF71169

Official Laboratory Report

Report To: MIKE GLASGOW
4600 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	3142 MCCLURE, FLINT	Source:	Single Family Dwelling
Collected By:	BOB FARRAR	Site Code:	
Township/Well/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/26/2015 06:20
Sample Point:	KITCHEN	Date Received:	07/07/2015 11:34
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.003	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kratzian



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

**Sample Number
LF71170**

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	2114 FLUSHING RD, FLINT	Source:	Single Family Dwelling
Collected By:	DAVID PAVLOVICH	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/29/2015 08:00
Sample Point:	KITCHEN	Date Received:	07/07/2015 11:34
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	0.05	07/08/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.005	07/08/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 257-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Kriszilan

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY**

USEPA Region V Drinking Water Cert. No. MI00003

P.O. Box 30270

Lansing, MI 48909

TEL: (517) 335-8184

FAX: (517) 335-8562

Sample Number

LF72033

Official Laboratory Report

Report To: MIKE GLASGOW
4500 N DORT HWY
FLINT MI 48505

System Name/Owner:	CITY OF FLINT	WSSN/Pool ID:	2310
Collection Address:	709 FROST ST, FLINT	Source:	Single Family Dwelling
Collected By:	MAURCICA GUYNN	Site Code:	
Township/Well#/Section:	//	Collector:	Private Citizen
County:	Genesee	Date Collected:	06/30/2015 08:15
Sample Point:	BATHROOM	Date Received:	07/10/2015 10:36
Water System:	Treated Public Distribution System	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Copper	Not detected	07/13/2015	0.05	1.3	EPA 200.8	7440-50-8
Lead	0.002	07/13/2015	0.001	0.015	EPA 200.8	7439-92-1

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Genesee County Health Dept.
630 South Saginaw
Flint, MI 48502-1540
810 267-3603

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminant Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Fleper
Systems Mgmt. Unit Mgr: George Krszilan



Michigan Department of Environmental Quality

*Replicate Laboratory Report for
Lansing Drinking Water Laboratory*

Owner/Location Information:CITY OF FLINT
341 ROBBIE LN
FLINT MI 48505Sample Number: LLF67426

Sample/Collection Information:WSSN:
County: Genesee
Township:
Section:
Well #:
Collection Date: 5/31/2015 6:00:00 AM
Arrival Date: 6/11/2015 10:51:10 AMSite Code:
Water Source: Single Family Dwelling
Sample Reason: Routine Monitoring
Sample Point: Treated Public Distribution System
Point Description: KITCHEN
Collector: Private Citizen
Collected By: FLORISSA STEBBINS

<u>CasNo</u>	<u>Analyte</u>	<u>Result</u>	<u>Detect</u>	<u>Units</u>	<u>Method</u>
7440-50-8	COPPER (RECOVERABLE)	0.05	0.05	mg/L	EPA 200.8
7439-92-1	LEAD (TOTAL)	0.003	0.001	mg/L	EPA 200.8

Laboratory Comments:

By authority of PA 368 of 1978 as amended.

Print Date: Tue Aug 4 14:23:55 EDT
2015



Michigan Department of Environmental Quality

**Replicate Laboratory Report for
Lansing Drinking Water Laboratory**

Owner/Location Information:

CITY OF FLINT
215 BROWNING AVE
FLINT MI 48507

Sample Number: LLF56226

Sample/Collection Information:

WSSN: 02310
County: Genesee
Township:
Section:
Well #:
Collection Date: 3/2/2015 6:30:00 AM
Arrival Date: 3/6/2015 11:33:07 AM

Site Code:
Water Source: Single Family Dwelling
Sample Reason: Routine Monitoring
Sample Point: Treated Public Distribution System
Point Description: KITCHEN
Collector: Private Citizen
Collected By: KEVIN & JENNIFER STARNES

<u>CasNo</u>	<u>Analyte</u>	<u>Result</u>	<u>Detect</u>	<u>Units</u>	<u>Method</u>
7440-50-8	COPPER (RECOVERABLE)	0.16	0.05	mg/L	EPA 200.8
7439-92-1	LEAD (TOTAL)	ND	0.001	mg/L	EPA 200.8

Laboratory Comments:

By authority of PA 368 of 1978 as amended.

Print Date: Tue Aug 4 14:17:25 EDT
2015



Michigan Department of Environmental Quality

*Replicate Laboratory Report for
Lansing Drinking Water Laboratory*

Owner/Location Information:

CITY OF FLINT
201 BROWNING AVE
FLINT MI 48507

Sample Number: LLF56228

Sample/Collection Information:

WSSN: 02310
County: Genesee
Township:
Section:
Well #:
Collection Date: 3/5/2015 9:30:00 AM
Arrival Date: 3/6/2015 11:33:08 AM

Site Code:
Water Source: Single Family Dwelling
Sample Reason: Routine Monitoring
Sample Point: Treated Public Distribution System
Point Description: KITCHEN
Collector: Private Citizen
Collected By: FLOYD BELL

<u>CasNo</u>	<u>Analyte</u>	<u>Result</u>	<u>Detect</u>	<u>Units</u>	<u>Method</u>
7440-50-8	COPPER (RECOVERABLE)	ND	0.05	mg/L	EPA 200.8
7439-92-1	LEAD (TOTAL)	ND	0.001	mg/L	EPA 200.8

Laboratory Comments:

By authority of PA 368 of 1978 as amended.

Print Date: Tue Aug 4 14:17:49 EDT
2015

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Friday, August 28, 2015 1:23 PM
To: Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ)
Cc: Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Subject: RE: Preliminary Flint TTHM results

Yes. The city deserves to be told of our compliance determination just as much when they meet the standard as when they exceed it.

I would suggest the messaging from the city and possibly from us "express cautious optimism but acknowledge that the formation of disinfection byproducts can vary depending upon water quality, temperature and stagnation, all items the city is unable to control, so continued compliance is not assured. As always, the city will keep their customers informed."

From: Busch, Stephen (DEQ)
Sent: Friday, August 28, 2015 11:13 AM
To: Benzie, Richard (DEQ); Shekter Smith, Liane (DEQ)
Cc: Prysby, Mike (DEQ); Rosenthal, Adam (DEQ)
Subject: Preliminary Flint TTHM results

Richard and Liane,

A PRELIMINARY Flint TTHM compliance determination is attached. (The one month monitoring window doesn't officially end until Monday 8/31).

Note all 8 sites would now be in compliance with the LRAA, but we did have one sample this quarter over 80 ppb (site 7, 90.3 ppb). This will make messaging a little more difficult.

Shall we proceed, after August 31, to create a "TTHM return to compliance" letter?

Stephen Busch, P.E.
 MDEQ Lansing District Coordinator
 Office of Drinking Water and Municipal Assistance
 Lansing and Jackson District Supervisor
 517-643-2314
buschs@michigan.gov

Rennaker, Joanne (DEQ)

From: Marc Edwards <edwardsm@vt.edu>
Sent: Wednesday, August 26, 2015 11:41 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: Flint Water Study-VT

Adam,

I am teaching a class on graduate engineering ethics at Virginia Tech, and we are using the Flint situation as our case study this semester.

Would you or someone else from DEQ, be willing to be interviewed by my class on some Wednesday between 4-6:45 pm?

Best Regards,
 Marc

From: Marc Edwards [<mailto:edwardsm@vt.edu>]
Sent: Sunday, August 23, 2015 4:57 PM
To: 'ROSENTHALA@michigan.gov'; 'bwright@cityofflint.com'; 'Ptaszinski, Rachel'
Subject: Flint Water Study-VT

Dear Adam, Mike and Rachel,

Hi there. I am a professor at Virginia Tech who specializes in research on corrosion, opportunistic premise plumbing pathogens, lead in water health effects and engineering ethics.

Over the next few months we will be studying Flint water quality issues, in conjunction with all parties who are interested in this subject.

We will be launching our web page to publicly report results of our work.

We visited Flint last week and collected a lot of samples from the distribution system, and we are also doing a lead in water study with residents, to complement that which was recently conducted by the city under the LCR.

Just giving you a heads up on this, and I hope you can give me a point of contact with each of your agencies. Dependent on what we find, it might be desirable to touch base, in advance of our releasing certain findings. We also intend to collaborate with all parties, in an open manner, to the extent that is possible, as our study progresses.

Mike, I think I met you a few years back at a Michigan AWWA event, and Rachel, you were kind enough to send me the coliform/E.Coli data last week. Adam, I am not sure if I have ever met you or not.

My cell phone is 540 320 8740, my office phone is 540 231-7236, and my e-mail is on this message. Feel free to call me at any time, if any of you should have any questions about our plans, or the Flint water quality issues that we will be studying.

Best Regards,
 Marc Edwards

Rennaker, Joanne (DEQ)

From: Antil, Jeffrey (DEQ)
Sent: Wednesday, August 26, 2015 8:36 AM
To: Prysby, Mike (DEQ)
Cc: Rosenthal, Adam (DEQ); Busch, Stephen (DEQ); Benzie, Richard (DEQ)
Subject: Flint WM break

FYI - <http://www.detroitnews.com/story/news/local/michigan/2015/08/26/water-main-breaks-flint-leave-workers-strained/32386685/>

Jeff Antil
Drinking Water Analyst
Office of Drinking Water & Municipal Assistance
Department of Environmental Quality
301 East Louis Glick Hwy
Jackson, Michigan, 49201
(p) 517.780.7840
(f) 517.780.7855
antilj@michigan.gov

Rennaker, Joanne (DEQ)

From: Marc Edwards <edwardsm@vt.edu>
Sent: Sunday, August 23, 2015 4:57 PM
To: Rosenthal, Adam (DEQ); bwright@cityofflint.com; 'Ptaszenski, Rachel'
Subject: Flint Water Study-VT

Dear Adam, Mike and Rachel,

Hi there. I am a professor at Virginia Tech who specializes in research on corrosion, opportunistic premise plumbing pathogens, lead in water health effects and engineering ethics.

Over the next few months we will be studying Flint water quality issues, in conjunction with all parties who are interested in this subject.

We will be launching our web page to publicly report results of our work.

We visited Flint last week and collected a lot of samples from the distribution system, and we are also doing a lead in water study with residents, to complement that which was recently conducted by the city under the LCR.

Just giving you a heads up on this, and I hope you can give me a point of contact with each of your agencies. Dependent on what we find, it might be desirable to touch base, in advance of our releasing certain findings. We also intend to collaborate with all parties, in an open manner, to the extent that is possible, as our study progresses.

Mike, I think I met you a few years back at a Michigan AWWA event, and Rachel, you were kind enough to send me the coliform/E.Coli data last week. Adam, I am not sure if I have ever met you or not.

My cell phone is 540 320 8740, my office phone is 540 231-7236, and my e-mail is on this message. Feel free to call me at any time, if any of you should have any questions about our plans, or the Flint water quality issues that we will be studying.

Best Regards,
Marc Edwards

Rennaker, Joanne (DEQ)

From: Crooks, Jennifer <crooks.jennifer@epa.gov>
Sent: Thursday, August 20, 2015 5:07 PM
To: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Rosenthal, Adam (DEQ)
Cc: Poy, Thomas
Subject: 90th percentile letter to Flint?

I was out of the office last week, and I know you all touched base with Tom Poy on the letter you are sending to Flint regarding their lead results. I'm wondering if you could send us a copy of the signed letter when it goes out? Flint has sure gotten a lot of attention over the past year; I'm going to be positive! And say that I hope this all dies down once they connect to the Karegnondi pipeline....

Thank you all!

Jennifer

Rennaker, Joanne (DEQ)

From: Cook, Pat (DEQ)
Sent: Friday, July 31, 2015 2:05 PM
To: Rosenthal, Adam (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Subject: RE: Flint Lead/copper 90th letter
Attachments: Flint PbCu15 with PC additions.doc

Hi Adam - I added a paragraph (in red) at the end of the letter to inform them that they will have to optimize corrosion control and we'll be contacting them in the near future to discuss in further detail.

pat

From: Rosenthal, Adam (DEQ)
Sent: Thursday, July 30, 2015 2:11 PM
To: Cook, Pat (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Subject: Flint Lead/copper 90th letter

Attached for editing

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

July 27, 2015

Mr. Brent Wright
City Of Flint - DPW
Flint Water Plant
4500 North Dort Highway
Flint, Michigan 48505

Dear Mr. Wright:

Subject: City Of Flint WSSN: 02310
Lead and Copper Monitoring of Drinking Water Taps

We received your report for the monitoring period January 1, 2015, through June 30, 2015.

Action Levels	Results this monitoring period		Next monitoring period	
	90 th Percentile	# of Samples Above Action Level	# of Samples Required	Take Samples Within These Dates
Lead 15 parts per billion (ppb)	11 ppb	7	60	1/1 and 6/30/2017 Submit results to this office by July 10, 2017
Copper 1.3 parts per million (ppm)	0.16 ppm	0		

Ninety percent of the sites you tested are within action levels under the administrative rules promulgated under the Michigan Safe Drinking Water Act, 1976 PA 399, as amended. These results must be reported on your 2015 Consumer Confidence Report (CCR) due to our office, your customers, and the local health department, by July 1, 2016. Also include the following statement in the CCR, regardless of the lead and copper levels:

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The City of Flint is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 1-800-426-4791 or at <http://water.epa.gov/drink/info/lead>.

Mr. Brent Wright

2

July 27, 2015

Recent changes to the Lead and Copper Rule (LCR) require you to provide individual lead tap results to people who receive water from sites that were sampled, even if lead was not detected, within 30 days of learning of results. You must also send us a certification that you met all the delivery requirements along with a sample copy of your customer notice by 3 months after the end of the monitoring period. To download the *Lead and Copper Report and Consumer Notice of Lead Result Certificate* in Microsoft Word or PDF format, visit <http://michigan.gov/deq>. Click on Water, Drinking Water, Community Water Supply, and Reporting Forms. Water supplies that fail to distribute the Consumer Notice of Lead Results must include the following statement in their CCR, "During the year, we failed to provide lead results to persons served at the sites that were tested as required by the Lead and Copper Rule."

Samples due the next monitoring period will mark your first six month round of monitoring after connection to the Karegnondi Water Authority (KWA). Please make every attempt to select the same sites used in the previous monitoring period, giving Tier 1 sites first priority. If original sites are unavailable, select replacement sites based on the Tier 1, 2, and 3 criteria. We strongly encourage you to sample early in the monitoring period.

Finally, the LCR requires all large systems (those serving over 50,000 people) to optimize corrosion control regardless of their 90th percentile lead concentration, unless the difference between the 90th percentile and the highest source water lead concentration is less than the Practical Quantitative Level for lead (0.005 mg/l). Since the City of Flint did not meet this criteria in both the July – December 2014, and January – June 2015, sampling periods, the city will have to optimize corrosion control. We will be contacting you soon to discuss the items the city must complete to comply with the optimal corrosion requirements of the LCR.

Bottles will NOT be mailed automatically. To order bottles, call the Department of Environmental Quality laboratory at 517-335-8184, or download the form EQP 2301 *Requisition for Water Sample Units* from www.michigan.gov/deq. Click on Key Topics, Laboratory Services, Drinking Water, Obtaining the Necessary Sampling Units, and test list.

Sincerely,

Adam Rosenthal, EQA
Office of Drinking Water and Municipal Assistance
Lansing District
517-284-6644
rosenthala@michigan.gov

ar/jlr
Enclosures

cc: Mr. Michael Glasgow, City of Flint

Rennaker, Joanne (DEQ)

From: Michael Glasgow <mglasgow@cityofflint.com>
Sent: Friday, July 31, 2015 10:28 AM
To: Rosenthal, Adam (DEQ)
Subject: Re: PbCu Cert form
Attachments: Official Report to DEQ.pdf

Adam,

Here is the lead & copper report. I have also sent a hard copy out via USPS.

On Thu, Jul 30, 2015 at 9:33 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike, I'm preparing the 90th percentile letter and I need your lead copper certification form with the cert of notification to the customers. What I have are 68 results that are routine from 1/1 – 6/30/15. The link below is for the form if you don't have one.

http://www.michigan.gov/deq/0,4561,7-135-3313_3675_3691-61640--,00.html

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--
Mike Glasgow
Utilities Administrator
City of Flint
1101 S. Saginaw St.
Flint, MI 48502
(810)766-7135 ext. 2602

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF DRINKING WATER AND MUNICIPAL ASSISTANCE
**LEAD AND COPPER REPORT AND
CONSUMER NOTICE OF LEAD RESULT
CERTIFICATE FOR COMMUNITY WATER SUPPLY**



Issued under authority of 1976 PA 399, MCL 325.1001 *et al.*, and Administrative Rules, as amended.
Failure to submit this information is a violation of Act 399 and may subject the water supply to enforcement penalties.

Administrative Rule R 325.10710d requires water supplies to report lead and copper monitoring information within 10 days after the end of the monitoring period. This form may be used to meet this requirement. Submit the information to the appropriate Department of Environmental Quality (DEQ) district office. For district office addresses, visit www.michigan.gov/deq and click on Locations.

1. Water Supply Name: City of Flint Water Plant
2. County: Genesee 3. WSSN: 2310
4. Population: 99,763 5. Monitoring Period: From: 1/1/15 To: 6/30/15
6. Minimum # of Samples Required: 100 7. # of Samples Taken: 71
8. Name of Certified Laboratory: DEQ Drinking Water Laboratory

9. SAMPLE CRITERIA:

Yes	No	Explain No responses in Comments block.
☐	☒	a. Are the same sampling points used as in the previous monitoring period?
☐	☒	b. Are all samples from Tier 1 sites?
☒	☐	c. Are all samples from Tier 1, 2, or 3 sites giving Tier 1 priority?
☒	☐	d. If no Tier 1, 2, or 3 sites are available, do all sites have plumbing materials commonly found at other locations in the system?
☒	☐	e. Is the minimum number of lead service line samples taken (when applicable)?
For more information see <i>Instructions</i> paragraph 11, subparagraph "Sample Category."		
Comments: A total of 175 sample bottles and instructions were distributed to city residents. We are continuing to solicit samples due to the fact that we did not reach the minimum number for this monitoring period.		

10. NAME:

Name: Michael Glasgow
Title: Utilities Administrator Phone: 810-766-7135 Date: 7/28/2015

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water PlantWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-Ing ²	Lead (ppb)	Copper (ppb)	Lab #
2205 Flusing Rd	2/15/15	1	L	C,P	N.D.	0.13	54663
212 Browning Ave.	2/18/15	1	L	P	104	N.D.	54945
1809 Stevenson St.	2/10/15	1	L	P	10	N.D.	54956
4202 Custer Ave.	3/4/15	1	L	C,P	6	0.27	56223
401 E. Newall St.	3/2/15	1	L	P	5	N.D.	56225
215 Browning Ave.	3/21/15	1	L	C,P	N.D.	0.16	56226
2615 Trumbull Ave.	2/27/15	1	L	C,P	3	N.D.	56227
201 Browning Ave.	3/5/15	1	L	P	N.D.	N.D.	56228
1224 Decker St.	3/17/15	1	L	C,P	13	0.10	57728
1220 Decker St.	3/17/15	1	L	P	4	N.D.	57730
1379 Washington Ave.	3/19/15	1	L	P	8	N.D.	57731
1383 Washington Ave.	3/19/15	1	L	C,P	6	0.17	57734
1372 Washington Ave.	3/19/15	1	L	C,P	2	0.14	57733
1367 Washington Ave.	3/17/15	1	L	P	1	N.D.	57735
1701 Marquette Dr.	3/14/15	1	L	C,P	1	0.19	57736
778 Bundy Ave.	3/24/15	1	L	P	N.D.	N.D.	58413
3714 Beecher Rd.	3/24/15	1	L	C	2	0.52	58414
1016 Ingleside Ave.	4/9/15	1	L	C,P	7	0.07	59749
1818 Rock Creek Ln.	4/6/15	1	L	C,P	3	0.11	59750
3010 Cheyenne St.	4/3/15	1	L	C,P	5	0.10	59751

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water PlantWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
2606 Mountain Ave.	4/15/15	1	L	P	N.D.	N.D.	60546
2020 Crooked Ln.	4/24/15	1	L	C,P	5	0.10	61845
310 E. Moore St.	4/22/15	1	L	P	5	N.D.	61846
631 Alvord Ave.	5/6/15	1	L	P	42	N.D.	63410
216 Browning Ave.	5/7/15	1	L	C,P	22	0.31	63411
3714 Beecher Rd.	5/14/15	1	L	C,P	8	0.15	64283
625 S. Grand Traverse	5/18/15	5	L	C,P	20	0.14	64284
912 Lexington Ave.	5/15/15	1	L	P	6	N.D.	64285
349 Robbie Ln.	5/31/15	1	L	P	2	N.D.	67428
353 Robbie Ln.	5/30/15	1	L	C,P	5	0.11	67427
341 Robbie Ln.	5/31/15	1	L	C,P	3	0.05	67426
328 Robbie Ln.	5/30/15	1	L	C,P	2	0.09	67425
357 Robbie Ln.	5/31/15	1	L	C	3	0.20	67424
344 Robbie Ln.	5/31/15	1	L	C,P	4	0.11	67423
1807 Oren Ave.	6/8/15	1	L	P	21	N.D.	68023
421 Lyon St.	6/14/15	1	L	C,P	7	0.14	68788
1528 Delaware Ave.	6/12/15	1	L	P	3	N.D.	68789
3811 Brentwood Dr.	6/14/15	1	L	P	42	N.D.	68790
1615 S. Franklin Ave.	6/14/15	1	L	P	N.D.	N.D.	68791
853 E. 7 th St.	6/12/15	1	L	C,P	7	0.07	68792

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water PlantWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumb-ing ²	Lead (ppb)	Copper (ppb)	Lab #
1150 Woodside Dr.	6/14/15	1	L	P	29	N.D.	68793
547 Copeman Blvd.	6/14/15	1	L	P	18	N.D.	68794
920 Stocker Ave.	6/21/15	1	L	P	1	N.D.	69622
742 Lincoln Ave.	6/19/15	1	L	P	2	N.D.	69623
3517 Bennett Ave.	6/24/15	1	L	C,P	3	0.06	69624
1730 Overhill Dr.	6/22/15	1	L	C,P	1	0.08	69625
2117 Stanford Ave.	6/23/15	1	L	C,P	5	0.08	69626
2432 Beta Ln.	6/21/15	1	L	P	N.D.	N.D.	69627
2023 Miller Rd.	6/21/15	1	L	C,P	3	0.06	69628
721 East St. Apt #2	6/25/15	4	L	C,P	10	0.16	70222
3814 Whitter	6/25/15	1	L	P	2	N.D.	70223
3120 Norwood	6/24/15	1	L	P	5	N.D.	70224
2122 Pierce St.	6/21/15	1	L	P	2	N.D.	70225
3521 Bennett Ave.	6/25/15	1	L	P	3	N.D.	70226
1602 Raspberry Ln.	6/24/15	1	L	P	N.D.	N.D.	70227
1809 Lynbrook	6/26/15	1	L	P	3	N.D.	70228
2112 Sherff	6/24/15	1	L	C,P	9	0.06	70229
1205 Blanchard Ave.	6/24/15	1	L	C,P	11	0.05	70230
860 Schafer St.	6/26/15	1	L	C,P	N.D.	0.06	70231
2110 Flushing Rd.	6/30/15	1	L	C	N.D.	0.10	71158

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

11. TAP SAMPLING DATA: (Use additional sheets as needed)

Water Supply Name/County City of Flint Water PlantWSSN 2310

RESULTS:

Sample Location	Sample Date	Sample Category ¹	Service Lines ²	Bldg Plumbing ²	Lead (ppb)	Copper (ppb)	Lab #
2300 Flushing Rd.	6/29/15	1	L	C	3	0.28	71159
2130 Flushing Rd.	6/28/15	1	L	C,P	6	0.05	71160
2202 Flushing Rd.	6/29/15	1	L	C,P	2	0.06	71162
2429 Flushing Rd.	6/30/15	1	L	C,P	N.D.	0.06	71163
4013 Brownell Blvd.	6/29/15	1	L	C,P	2	0.08	71165
2414 Flushing Rd.	6/30/15	1	L	P	N.D.	N.D.	71166
1914 Penbrook Ln	6/29/15	1	L	P	2	N.D.	71167
3901 Leedra St.	6/26/15	1	L	P	N.D.	N.D.	71168
3142 McClure	6/26/15	1	L	P	3	N.D.	71169
2114 Flushing Rd.	6/30/15	1	L	C,P	5	0.05	71170
709 Frost St.	6/30/15	1	L	P	2	N.D.	72033

¹ Sample Category: Enter a number 1 through 6 to designate the category of tap sample site. For more information see *Instructions* paragraph 11, subparagraph "Sample Category."

² Materials used for service line and building plumbing: Enter C = copper; G = galvanized; L = lead; or P = plastic.

TO BE DETERMINED BY DEQ

	90 th percentile	Ave	Max	# > AL
Pb				
Cu				

Consumer Notice of Lead Result in Drinking Water

Water Supply Name:	City of Flint		
County:	Genesee	WSSN:	2310
Sample Location:	401 E. Newall St.	Date Sampled:	3/2/15

Thank you for participating in the lead and copper monitoring of drinking water. The levels of lead and copper found at your location are in the table below.

Key to Table	Contaminant	AL	MCLG	Your Result
Action Level (AL): The concentration of a contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. ppb: parts per billion or micrograms per liter.	Lead (ppb)	15	0	5
	Copper (ppb)	1300	1300	Not Detected

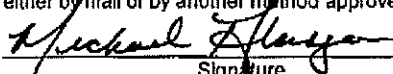
Lead can cause serious health problems if too much enters your body from drinking water or other sources. It can cause damage to the brain and kidneys, and it can interfere with the production of red blood cells that carry oxygen to all parts of your body. The greatest risk of lead exposure is to infants, young children, and pregnant women. Scientists have linked the effects of lead on the brain with lowered IQ in children. Adults with kidney problems and high blood pressure can be affected by low levels of lead more than healthy adults. Lead is stored in the bones, and it can be released later in life. During pregnancy, the child receives lead from the mother's bones, which may affect brain development.

To reduce exposure to lead in drinking water:

- *Run your water to flush out lead.* Run the water until it becomes cold.
- *Use cold water for cooking and preparing baby formula.* Do not cook with or drink water from the hot water tap; lead dissolves more easily in hot water.
- *Do not boil water to remove lead.* Boiling water will not reduce lead levels.
- *Look for alternative sources or treatment of water.* If your lead result is above 15 ppb, you may want to consider purchasing bottled water or a water filter. Read the package to be sure the filter is approved to reduce lead or contact NSF International at 800-NSF-8010, or www.nsf.org for information on performance standards for water filters.
- *Identify if your plumbing fixtures contain lead.* New faucets, fittings, and valves, may contain up to 8 percent lead including those advertised or labeled as "lead-free" and may contribute lead to drinking water. Consumers should be aware of this when choosing fixtures and take appropriate precautions.

Although the primary sources of lead exposure for most children are deteriorating lead-based paint, lead-contaminated dust, and lead-contaminated soil, the U.S. EPA estimates that 10 to 20 percent of human exposure to lead may come from drinking water.

For more information, contact us at: City of Flint Water Plant (810) 787-6537.
 For more information on reducing lead exposure around your home and the health effects of lead, visit the U.S. EPA's Web site at www.epa.gov/lead, call the National Lead Information Center at 800-424-LEAD, or contact your health care provider.

Certification: I certify that this public water supply has provided the consumer notice of lead result to persons served at each of the taps that was tested, either by mail or by another method approved by the DEQ, within 30 days of knowing the result. The Notice includes required content.	WSSN: 2310
 Signature	UTILITIES ADMINISTRATOR Title
	3/12/15 Date Sent to Consumer

Reminder to water supplier: Complete this certification on only one (1) example copy of a notice sent to a consumer and submit it to the DEQ.

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Tuesday, July 28, 2015 4:03 PM
To: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Wurfel, Brad (DEQ)
Cc: Rennaker, Joanne (DEQ); Rosenthal, Adam (DEQ); Cook, Pat (DEQ)
Subject: RE: City of Flint - Lead & Copper - FOIA Request

Mike,

When we discussed this matter earlier, I believed the request was limited to correspondence generated between January 1 and June 30, 2015, that met the conditions spelled out in their FOIA request. In reading your message below, I now suspect that they want any correspondence (with the designated entities) that is in regard to the lead and copper results from samples collected between January 1 and June 30, 2015, even if the correspondence was generated after that time frame. It appears to me the dates are bracketing the period of time for the lead and copper monitoring, not the time frame for correspondence regarding those results. So if we have correspondence with these entities (electronic or otherwise) dated this month (July 2015) that addresses results from samples collected in the first six months of 2015, we should provide them with a copy.

Richard

From: Prysby, Mike (DEQ)
Sent: Tuesday, July 28, 2015 3:17 PM
To: Benzie, Richard (DEQ); Busch, Stephen (DEQ); Shekter Smith, Liane (DEQ); Wurfel, Brad (DEQ)
Cc: Rennaker, Joanne (DEQ); Rosenthal, Adam (DEQ); Cook, Pat (DEQ)
Subject: City of Flint - Lead & Copper - FOIA Request

The LDO has received a FOIA request from the ACLU for information concerning lead and copper records from the city of Flint. Specific information being requested is in 2 main parts. First.. provide a copy of all documented (electronic and hard copy) records of individual lead/copper sample results conducted in the city of Flint from January 1, 2015 through June 30th. Second...provide a copy of all communications (including electronic) between DEQ staff with any city official or employee, outside contractors or consultants, and any US EPA employee regarding lead/copper water tests conducted in the city of Flint from January 1, 2015 through June 30th, 2015.

The initial deadline was July 30, 2015; however, our request for a 10-day extension to August 13, 2015 was approved. I will work with Joanne and Adam on compiling the information pertaining to the sample results/locations and hard copies of written correspondence. Also all e-mails (not internal) will need to be compiled as part of meeting this FOIA request. Richard and I reviewed his record of "sent" and "received" emails in Outlook earlier today and we believe that most of them are accounted for, however, there may be additional PB/CU electronic communication sent from other staff...including me. Each one of you should check on this for verification. We will most likely need to meet early in the week of August 10th to

be verify that all of the information has been compiled prior to sending out the requested information.

Michael Prysby, P.E.
District Engineer
Office of Drinking Water and Municipal Assistance
517 290-8817

Rennaker, Joanne (DEQ)

From: Brent Wright <bwright@cityofflint.com>
Sent: Tuesday, July 28, 2015 2:41 PM
To: Prysby, Mike (DEQ)
Cc: Michael Glasgow; Rosenthal, Adam (DEQ)
Subject: Re: Flint TTHM Public Notice - April 1, 2015
Attachments: Water-Quality-Update-to-Residents-April-2015.pdf; Scan014.PDF; Scan013.PDF

Mike

I have attached the information that was sent to all water customers and what was sent to your office. Let me know if any thing else is needed. You should be receiving the CCR report this week.

On Tue, Jul 28, 2015 at 11:42 AM, Prysby, Mike (DEQ) <PRYSBYM@michigan.gov> wrote:

Brent, Michael

Can you send us a copy of the second TTHM public notice that the city distributed to city residents on or about April 1, 2015? This PN would reflect TTHM levels from monitoring through Feb. of 2015. Thanks.

Michael Prysby, P.E.

District Engineer

Office of Drinking Water and Municipal Assistance

517 290-8817

--

Brent Wright
Water Plant Supervisor
City of Flint
4500 N. Dort Hwy.
Flint, MI. 48505
Ph: 810.787.6537 ext. 3510

Fx: 810.787.3710

Water Quality Update

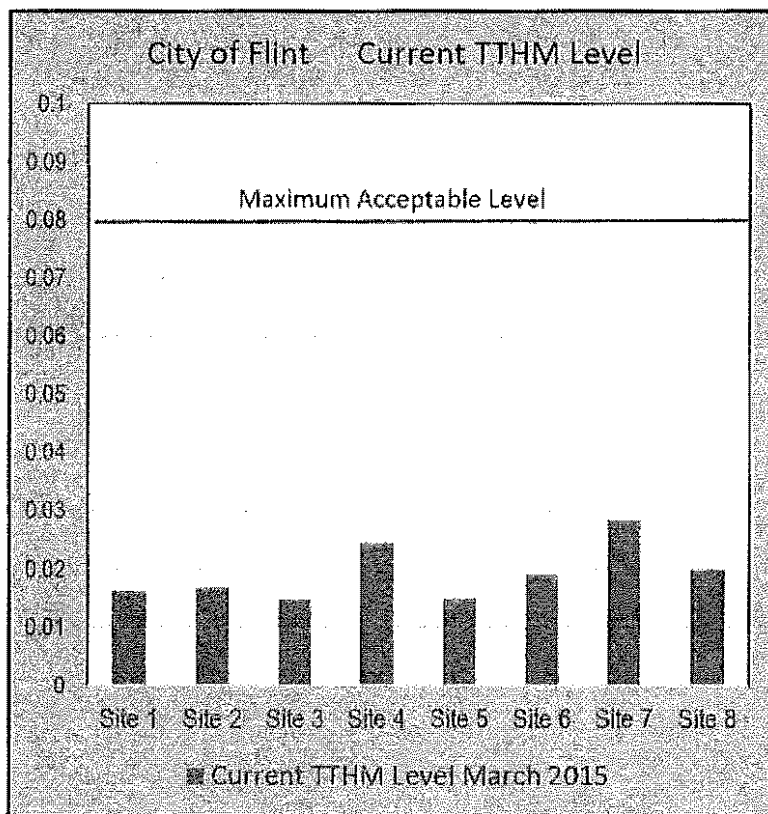
City of Flint Resident:

We are pleased to report that City of Flint water is safe and meets U.S. Environmental Protection Agency guidelines. While we continue to work on improving aesthetic qualities, such as discoloration or odor, you can be confident that the water provided to you today meets all safety standards. Maintaining safety and quality in our water is a top priority of the City.

We accomplished this by:

- Upgrading the ozone treatment process at the Water Treatment Plant
- Increasing water main/hydrant flushing to reduce stagnation
- Conducting additional testing of treatment to identify areas of improvement
- Improving water circulation by repairing valves and adjusting reservoir levels

Our most recent testing in February showed that every testing site was well below allowable levels, as shown below:



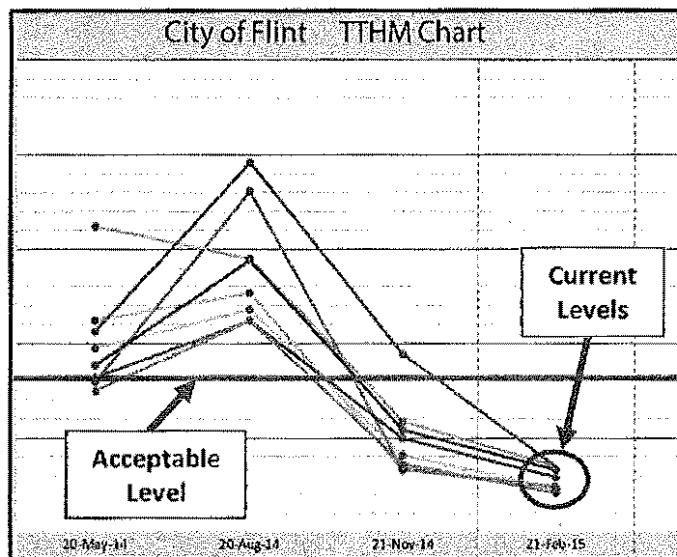
City of Flint

Water Quality Update

The Michigan Department of Environmental Quality (MDEQ) has acknowledged our progress:

"We are encouraged by the results from the most recent round of compliance samples collected on February 17, 2015, which now show individual TTHM levels at less than half of the 0.080 mg/l. standard at all locations throughout the City's system. Operational Evaluation Reports from December 2014, and February 2015, have identified possible causes and corrective measures for the previous elevated TTHM levels, which we encourage the City to continue implementing." -MDEQ

Notification is based on four quarters of test results. Because of last year's test results, the City's *annual* quarterly testing average is not yet below the state's allowable average and the City is required to issue the attached notice (*"Important Information about Your Drinking Water"*).



If you have any questions about this report or would like a test done at your home, free of charge, please call us at 810-787-6537.

Maintaining safe water and improving its quality is a top priority for all of us at the City of Flint, and we apologize for the concerns these notices have raised. We have taken many steps to improve the safety and quality of our water supply and will be taking more. As you may know, we have recently received a series of recommendations from several sources, including a report from international urban water system consultant, Veolia North America. We will be taking further action steps to assure that water remains safe and that water quality is improved, and we will be working with our recently created Citizen Advisory Committee and our Technical Advisory Committee as we progress. Please track our progress on our website cityofflint.com.

City of Flint

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

City of Flint Did Not Meet Treatment Requirements

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Samples were collected for total trihalomethanes (TTHM) analysis from eight locations on a quarterly basis (May 21, August 21, November 20 of 2014, and February 17, 2015). The average of the results at ANY of the eight locations must not exceed the maximum contaminant level (MCL) for TTHMs, otherwise our water system exceeds the MCL. The standard for TTHMs is 80 micro grams per liter (µg/L). The location reporting the highest TTHM level was 105 µg/L; thus, our water system exceeds the TTHM MCL.

What should I do?

- There is nothing you need to do unless you have a severely compromised immune system, have an infant, or are elderly. These people may be at increased risk and should seek advice about drinking water from their health care providers.
- You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What does this mean?

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

People who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

What is being done?

We are currently working on solutions to correct the problem. We anticipate resolving the problem in 2015. Our most recent individual sample results were all less than half the 80 µg/L standard, however since compliance is calculated using a locational running annual average (LRAA) of the most recent four quarters, we are still out of compliance with the MCL at two of eight locations.

For more information, please contact Mr. Brent Wright at 517-787-6537, or the Flint Water Plant at 4500 North Dort Highway, Flint, Michigan 48505.

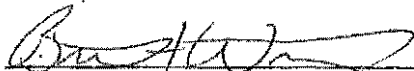
Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F2 S3

WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.



Signature

Plant Supervisor

Title

March 25, 2015

Date Distributed

Reminder to water supplier: This notice/certification must be sent to the Department of Environmental Quality.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

City of Flint Did Not Meet Treatment Requirements

Our water system recently violated a drinking water standard. Although this incident was not an emergency, as our customers, you have a right to know what happened and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Samples were collected for total trihalomethanes (TTHM) analysis from eight locations on a quarterly basis (May 21, August 21, November 20 of 2014, and February 17, 2015). The average of the results at **ANY** of the eight locations must not exceed the maximum contaminant level (MCL) for TTHMs, otherwise our water system exceeds the MCL. The standard for TTHMs is 80 micro grams per liter ($\mu\text{g/L}$). The location reporting the highest TTHM level was 105 $\mu\text{g/L}$; thus, our water system exceeds the TTHM MCL.

What should I do?

- There is nothing you need to do unless you have a severely compromised immune system, have an infant, or are elderly. These people may be at increased risk and should seek advice about drinking water from their health care providers.
- You do not need to boil your water or take other corrective actions. If a situation arises where the water is no longer safe to drink, you will be notified within 24 hours.

What does this mean?

This is not an emergency. If it had been an emergency, you would have been notified within 24 hours.

People who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys, or central nervous system, and may have an increased risk of getting cancer.

What is being done?

We are currently working on solutions to correct the problem. We anticipate resolving the problem in 2015. Our most recent individual sample results were all less than half the 80 $\mu\text{g/L}$ standard, however since compliance is calculated using a locational running annual average (LRAA) of the most recent four quarters, we are still out of compliance with the MCL at two of eight locations.

For more information, please contact Mr. Brent Wright at 517-787-6537, or the Flint Water Plant at 4500 North Dort Highway, Flint, Michigan 48505.

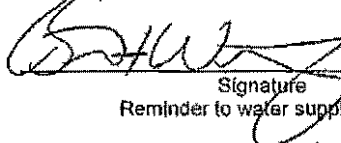
Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

This notice is being sent to you by the City of Flint.

CERTIFICATION: F2, S3

WSSN: 02310

I certify that this water supply has fully complied with the public notification requirements in the Michigan Safe Drinking Water Act, 1976 PA 399, as amended, and the administrative rules.


Signature

SUPERVISOR
Title

4-1-2015
Date Distributed

Reminder to water supplier: This notice/certification must be sent to the Department of Environmental Quality.

U.S. Postal Service™		
CERTIFIED MAIL™ RECEIPT		
(Domestic Mail Only; No Insurance Coverage Provided)		
For delivery information visit our website at www.usps.com		
SPECIAL USE		

Postage	\$	\$0.98	0503
Certified Fee		\$3.30	1B
Return Receipt Fee (Endorsement Required)		\$2.70	APR 10 2015
Restricted Delivery Fee (Endorsement Required)		\$0.00	Postmark Here
Total Postage & Fees	\$	\$6.98	04/10/2015

Sent To	
Street, Apt. No., or PO Box No.	P.O. 30402
City, State, ZIP+4	

PS Form 3800, August 2006 See Reverse for Instructions

DEPARTMENT OF UTILITIES Water Plant & Facilities

Gerald Ambrose
Emergency Manager

Brent Wright
Supervisor

April 10, 2015

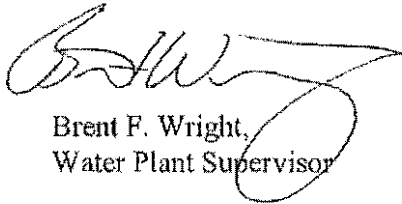
Michael F. Prysby, P.E., District Engineer
Michigan Department of Environmental
Quality
525 W. Allegan Street
P.O. Box 30242
Lansing, MI 48909-7742

Dear Mr. Prysby:

This letter is to inform your office the City of Flint Water Treatment Plant made public the MCL violation for TTHM's, a letter was mailed to all water customers on Wednesday April 1, 2015. The notification letter was also uploaded on the City's website www.cityofflint.com/wp-content/Water-Quality-Update-to-Residents-April-2015.pdf. A copy of the letter is enclosed.

I believe this will satisfy are requirements under administrative rule R 325.10610.

If anything further is necessary, please contact me at here at the plant, 810.787.6537.



Brent F. Wright,
Water Plant Supervisor

cc: File

Rennaker, Joanne (DEQ)

From: Scherbarth, John (AG)
Sent: Tuesday, July 28, 2015 11:31 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

Adam

Page 3 of what you sent to me appears to be page 3 of the March 5 letter. Please resend the complete June 9 letter.

John C. Scherbarth

From: Rosenthal, Adam (DEQ)
Sent: Tuesday, July 28, 2015 11:14 AM
To: Scherbarth, John (AG)
Cc: Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Subject: FW: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

John, the April 3rd letter was for a different rule and not a violation letter. The attached is the latest violation notice regarding the disinfection byproduct MCL.

thanks,

Adam Rosenthal, EQA
 MDEQ – Office of Drinking Water and Municipal Assistance
 Lansing District – Constitution Hall 1SW
 PO Box 30242
 Lansing, MI 48909
 517-284-6644
 fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Busch, Stephen (DEQ)
Sent: Tuesday, June 09, 2015 12:39 PM
To: Howes, Sarah (DEQ); Pallone, Maggie (DEQ); Wurfel, Brad (DEQ)
Cc: Prysby, Mike (DEQ); Benzie, Richard (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Thelen, Mary Beth (DEQ); Devereaux, Tracy Jo (DEQ)
Subject: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

Attached is a copy of the Violation Notice and Public Notice Template being mailed to the City of Flint by the DEQ Office of Drinking Water and Municipal Assistance regarding an exceedance of the Maximum Contaminant Level (MCL) standard for Total Trihalomethanes at certain locations within the City's drinking water distribution system.

This violation notice is in response to updated monitoring completed in May 2015, which shows the locational running annual average for one of the City's eight compliance sampling locations continues to exceed MCL standard of 0.080 mg/L. It is however, important to note that all individual compliance sample results collected in both May and February were below the 0.080 mg/L levels.

You are being provided an electronic copy of this notice as exceedance of this drinking water standard is expected to generate inquiries from water system customers, news media, and the general public.

Sarah Howes or Maggie Pallone will be informing members of the Michigan legislature.

If you have any questions or would like any additional information, you may contact Michael Prysby, District Engineer, DEQ-ODWMA at 517-290-8817, or you may contact me at the number below.

Stephen Busch, P.E.
Lansing and Jackson District Supervisor
Office of Drinking Water and Municipal Assistance
MDEQ
517-643-2314

Rennaker, Joanne (DEQ)

From: Scherbarth, John (AG)
Sent: Tuesday, July 28, 2015 11:26 AM
To: Prysby, Mike (DEQ)
Cc: Rosenthal, Adam (DEQ)
Subject: FW: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

Mike

Can you please send me a PDF version of the notice that the City of Flint sent on or about April 1?

John C. Scherbarth

From: Rosenthal, Adam (DEQ)
Sent: Tuesday, July 28, 2015 11:14 AM
To: Scherbarth, John (AG)
Cc: Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Subject: FW: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

John, the April 3rd letter was for a different rule and not a violation letter. The attached is the latest violation notice regarding the disinfection byproduct MCL.

thanks,

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Busch, Stephen (DEQ)
Sent: Tuesday, June 09, 2015 12:39 PM
To: Howes, Sarah (DEQ); Pallone, Maggie (DEQ); Wurfel, Brad (DEQ)
Cc: Prysby, Mike (DEQ); Benzie, Richard (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Thelen, Mary Beth (DEQ); Devereaux, Tracy Jo (DEQ)
Subject: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

Attached is a copy of the Violation Notice and Public Notice Template being mailed to the City of Flint by the DEQ Office of Drinking Water and Municipal Assistance regarding an exceedance of the Maximum Contaminant Level (MCL) standard for Total Trihalomethanes at certain locations within the City's drinking water distribution system.

This violation notice is in response to updated monitoring completed in May 2015, which shows the locational running annual average for one of the City's eight compliance sampling locations continues to exceed MCL standard of 0.080 mg/L. It is however, important to note that all individual compliance sample results collected in both May and February were below the 0.080 mg/L levels.

You are being provided an electronic copy of this notice as exceedance of this drinking water standard is expected to generate inquiries from water system customers, news media, and the general public.

Sarah Howes or Maggie Pallone will be informing members of the Michigan legislature.

If you have any questions or would like any additional information, you may contact Michael Prysby, District Engineer, DEQ-ODWMA at 517-290-8817, or you may contact me at the number below.

Stephen Busch, P.E.
Lansing and Jackson District Supervisor
Office of Drinking Water and Municipal Assistance
MDEQ
517-643-2314

Rennaker, Joanne (DEQ)

From: Scherbarth, John (AG)
Sent: Tuesday, July 28, 2015 11:24 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

thanks

John C. Scherbarth

From: Rosenthal, Adam (DEQ)
Sent: Tuesday, July 28, 2015 11:14 AM
To: Scherbarth, John (AG)
Cc: Busch, Stephen (DEQ); Prysby, Mike (DEQ)
Subject: FW: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

John, the April 3rd letter was for a different rule and not a violation letter. The attached is the latest violation notice regarding the disinfection byproduct MCL.

thanks,

Adam Rosenthal, EQA
 MDEQ – Office of Drinking Water and Municipal Assistance
 Lansing District – Constitution Hall 1SW
 PO Box 30242
 Lansing, MI 48909
 517-284-6644
 fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Busch, Stephen (DEQ)
Sent: Tuesday, June 09, 2015 12:39 PM
To: Howes, Sarah (DEQ); Pallone, Maggie (DEQ); Wurfel, Brad (DEQ)
Cc: Prysby, Mike (DEQ); Benzie, Richard (DEQ); Shekter Smith, Liane (DEQ); Rosenthal, Adam (DEQ); Thelen, Mary Beth (DEQ); Devereaux, Tracy Jo (DEQ)
Subject: Flint Drinking Water TTHM Standard Violation - 2nd quarter 2015

Attached is a copy of the Violation Notice and Public Notice Template being mailed to the City of Flint by the DEQ Office of Drinking Water and Municipal Assistance regarding an exceedance of the Maximum Contaminant Level (MCL) standard for Total Trihalomethanes at certain locations within the City's drinking water distribution system.

This violation notice is in response to updated monitoring completed in May 2015, which shows the locational running annual average for one of the City's eight compliance sampling locations continues to exceed MCL standard of 0.080 mg/L. It is however, important to note that all individual compliance sample results collected in both May and February were below the 0.080 mg/L levels.

You are being provided an electronic copy of this notice as exceedance of this drinking water standard is expected to generate inquiries from water system customers, news media, and the general public.

Sarah Howes or Maggie Pallone will be informing members of the Michigan legislature.

If you have any questions or would like any additional information, you may contact Michael Prysby, District Engineer, DEQ-ODWMA at 517-290-8817, or you may contact me at the number below.

Stephen Busch, P.E.
Lansing and Jackson District Supervisor
Office of Drinking Water and Municipal Assistance
MDEQ
517-643-2314

Rennaker, Joanne (DEQ)

From: Brewster, Simone (DEQ)
Sent: Tuesday, July 21, 2015 8:29 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: 73154 - 56

Good Morning Adam,

LF73154 – 341 Robbie Lane - 07.14.15
LF73155 – 2106 Pierce St - 07.09.15
LF73156 – 413 Burroughs Ave - 07.06.15

All received Friday, 07.17.15 @ 10:30

Simone Brewster
DEQ Drinking Water Laboratory
Laboratory Services Section
517.335.8184 (T)
517.335.8562 (F)
brewsters@michigan.gov

From: Rosenthal, Adam (DEQ)
Sent: Monday, July 20, 2015 4:39 PM
To: Brewster, Simone (DEQ)
Subject: 73154 - 56

Hi Simone, can you tell me the sample date on these last 3 Pb/Cu samples from Flint 02310?

thanks,

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

Rennaker, Joanne (DEQ)

From: Benzie, Richard (DEQ)
Sent: Wednesday, July 15, 2015 1:25 PM
To: Rosenthal, Adam (DEQ); Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Subject: TTHMs in Flint

Just had a call from a resident of Flint whose neighbor was told yesterday by the city to not drink the water because the TTHM level at her home was 95 ppb. The caller wanted to know if animals should be consuming the water. I told her she would have to consult with a toxicologist or someone familiar with veterinary medicine. I told her animals are less susceptible to some contaminants but more so to others, but as engineers and analysts, we were not the ones that would make that decision – we just pass it on if we find out.

She asked about other TTHM sampling locations and where they were in the city. I told her to contact one of you, starting with Adam.

Rennaker, Joanne (DEQ)

From: Michael Glasgow <mglasgow@cityofflint.com>
Sent: Thursday, July 09, 2015 2:19 PM
To: Rosenthal, Adam (DEQ)
Cc: Brent Wright
Subject: Re: lead/copper
Attachments: June 2015 Bromate Results.pdf

Adam,

I just sent the last of the samples to the lab today. Unfortunately we did not reach 100 samples. I believe the count I have is 76 total. Since we have had a few more hits this round, we are going to continue to solicit samples for our own informational purposes. I am disappointed in the turnout of sampling, we distributed close to 200 sample bottles. With this monitoring violation will we be required to collect another round of 100 samples?

Also, I have attached a copy of our June bromate test results.

On Thu, Jul 9, 2015 at 9:55 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike, do you have a count on how many lead/copper samples were turned in? I know they all haven't been run at the lab yet, but if I can verify how many there will be, that would be good. So far I have 70 results and the City is below the AL for lead – current 90th = 13 ppb. All the copper results are below.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--

Mike Glasgow
Utilities Administrator
City of Flint
1101 S. Saginaw St.
Flint, MI 48502
(810)766-7135 ext. 2602

**NSF International**789 N. Dixboro Rd. Ann Arbor, MI 48105, USA
1-800.NSF.MARK | +1-734.769.8010 | www.nsf.org

TEST REPORT

Send To: C0211289Mr. Michael Glasgow
City of Flint, Municipality
1101 South Saginaw Street
Flint, MI 48502**Facility: C0211290**City of Flint Water Plant
4500 North Dort Highway
Flint MI 48505
United States

Result	COMPLETE	Report Date	26-JUN-2015
Customer Name	City of Flint, Municipality		
Tested To	USFDA CFR Title 21 Part 165.110		
Description	Municipal Water		
Test Type	Test Only		
Job Number	J-00173940		
Project Number	10005233 (CL06)		
Project Manager	Anna Ciechanowski		

Thank you for having your product tested by NSF International.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization Kerri L. Levenseler
Kerri Levenseler - Director, Chemistry Laboratory

Date 26-JUN-2015

**General Information**

Standard: USFDA CFR Title 21 Part 165.110
Date and Time Sampled: 06/22/2015 08:45 EDT
Product Description: Municipal Water
Test Description: Bromate - June 2015

Sample Id: **S-0001167921**
Description: Municipal Water - 06/22/2015 08:45 EDT
Sampled Date: 06/22/2015
Received Date: 06/23/2015

Testing Parameter	Reporting Limit	Result	FDA SOQ	Units	P / F
Disinfection Residuals/Disinfection By-Products					
Bromate	5	ND	10	ug/L	Pass



<<Additional Information>>

Sample Id: S-0001167921

Test Parameter	Date Analyzed	Time Analyzed	Date Prepared/ Processed
Disinfection Residuals/Disinfection By-Products			
Bromate (Ref: EPA 300.1)	25-JUN-2015		


Testing Laboratories:

	Flag	Id	Address
All work performed at: (Unless otherwise specified)	→	NSF_AA	NSF International 789 N. Dixboro Road Ann Arbor MI 48105

References to Testing Procedures:

NSF Reference	Parameter / Test Description
C3015	Bromate (Ref: EPA 300.1)

Certifications:

Arizona (# AZ0655)	California (# 03214 CA)	Connecticut (# PH-0625)
Florida (# E-87752 FL)	Hawaii	Indiana
Maryland (# 201)	Michigan (# 0048)	North Carolina (# 26701)
New Jersey (# M1770)	Nevada (# MI000302010A)	New York (# 11206)
Pennsylvania (# 68-00312)	South Carolina (# 81005)	Virginia (# 00045)
Vermont (# VT 11206)		

Test descriptions preceded by an asterisk "*" indicate that testing has been performed per NSF International requirements but is not within its scope of accreditation.

The reported result for Odor, Phenolics, Potassium, Specific Conductance and Total Residual Chlorine cannot be used for compliance purposes within the State of Arizona.

Notes:

- 1) Bottled water sold in the United States shall not contain Fluoride in excess of the levels published by the USFDA in 21 CFR Part 165.110. These levels are based on the annual average of maximum daily air temperatures at the location where the bottled water is sold at retail. Please refer to the most current edition of the regulation to determine the Fluoride maximum level that pertains to your product.
- 2) A blank on the FDA SOQ column indicates that no maximum level has been established by the FDA for that contaminant.
- 3) An ND result means that the contaminant was not detected at or above the reporting limit.

For a list of NSF International Method Detection Limits refer to
http://www.nsf.org/media/enews/documents/minimum_detection_level_spreadsheet.pdf.

Rennaker, Joanne (DEQ)

From: Cook, Pat (DEQ)
Sent: Monday, June 29, 2015 10:28 AM
To: Rosenthal, Adam (DEQ)
Subject: RE: 6/30 & 7/1/15 deadlines

Yea, that's not real clear. Other supplies are using the intake number noted in SDWIS. For Flint have them use IN001.

pat

From: Rosenthal, Adam (DEQ)
Sent: Monday, June 29, 2015 10:22 AM
To: Cook, Pat (DEQ)
Subject: FW: 6/30 & 7/1/15 deadlines

Morning Pat, do you have a list or more clarification to what the "source id number" is for the Flint River? The surface water folks have no idea what I'm looking for.

thanks,

Adam

From: Kammer, Stephanie (DEQ)
Sent: Monday, June 29, 2015 9:25 AM
To: Bennett, Charles (DEQ); Rosenthal, Adam (DEQ)
Subject: RE: 6/30 & 7/1/15 deadlines

Sorry, I don't know what a source id code is.

I assume it is not referring to a HUC code?

From: Bennett, Charles (DEQ)
Sent: Monday, June 29, 2015 9:18 AM
To: Rosenthal, Adam (DEQ); Kammer, Stephanie (DEQ)
Subject: RE: 6/30 & 7/1/15 deadlines

I don't think so. Stephanie might know if they do?

Charles Bennett, PE
 DEQ Water Resources Division
 Lansing District Office
BennettC4@michigan.gov
 ph 517-284-6659; fax 517-241-3571

From: Rosenthal, Adam (DEQ)
Sent: Monday, June 29, 2015 8:53 AM
To: Bennett, Charles (DEQ)
Subject: FW: 6/30 & 7/1/15 deadlines

Does your program have a source id code for the Flint river?

thanks,

Adam Rosenthal, EQA
MDEQ – Office of Drinking Water and Municipal Assistance
Lansing District – Constitution Hall 1SW
PO Box 30242
Lansing, MI 48909
517-284-6644
fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Michael Glasgow [<mailto:mglasgow@cityofflint.com>]
Sent: Friday, June 26, 2015 4:46 PM
To: Rosenthal, Adam (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Brent Wright
Subject: Re: 6/30 & 7/1/15 deadlines

Adam,

Just a quick question on the LT2 worksheet. What is the source identification number for the Flint River?

On Thu, Jun 25, 2015 at 10:47 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike & Brent, just wanted to remind you/confirm that Flint is on track for a few items.

1 – We hope you have 61 more lead/copper samples collected and sent to the lab by 6/30/15, and that they will be below the AL for lead. As of now with 39 results, Flint's 90th percentile is over the AL for lead.

2 – LT2 source water monitoring plan, reminder that it is due to our office for review by 7/1/15 per Mike's 4/3/15 letter, (attached).

3 – Consumer Confidence Report, (CCR), has not been received yet – due to our office, Gen. Co. LHD & your customers by 7/1/15.

Please provide an update for the above items.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--

Mike Glasgow
Utilities Administrator
City of Flint
1101 S. Saginaw St.
Flint, MI 48502
(810)766-7135 ext. 2602

Rennaker, Joanne (DEQ)

From: Kammer, Stephanie (DEQ)
Sent: Monday, June 29, 2015 9:25 AM
To: Bennett, Charles (DEQ); Rosenthal, Adam (DEQ)
Subject: RE: 6/30 & 7/1/15 deadlines

Sorry, I don't know what a source id code is.

I assume it is not referring to a HUC code?

From: Bennett, Charles (DEQ)
Sent: Monday, June 29, 2015 9:18 AM
To: Rosenthal, Adam (DEQ); Kammer, Stephanie (DEQ)
Subject: RE: 6/30 & 7/1/15 deadlines

I don't think so. Stephanie might know if they do?

Charles Bennett, PE
 DEQ Water Resources Division
 Lansing District Office
BennettC4@michigan.gov
 ph 517-284-6659; fax 517-241-3571

From: Rosenthal, Adam (DEQ)
Sent: Monday, June 29, 2015 8:53 AM
To: Bennett, Charles (DEQ)
Subject: FW: 6/30 & 7/1/15 deadlines

Does your program have a source id code for the Flint river?

thanks,

Adam Rosenthal, EQA
 MDEQ – Office of Drinking Water and Municipal Assistance
 Lansing District – Constitution Hall 1SW
 PO Box 30242
 Lansing, MI 48909
 517-284-6644
 fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Michael Glasgow [<mailto:mglasgow@cityofflint.com>]
Sent: Friday, June 26, 2015 4:46 PM
To: Rosenthal, Adam (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Brent Wright
Subject: Re: 6/30 & 7/1/15 deadlines

Adam,

Just a quick question on the LT2 worksheet. What is the source identification number for the Flint River?

On Thu, Jun 25, 2015 at 10:47 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike & Brent, just wanted to remind you/confirm that Flint is on track for a few items.

1 – We hope you have 61 more lead/copper samples collected and sent to the lab by 6/30/15, and that they are will be below the AL for lead. As of now with 39 results, Flint's 90th percentile is over the AL for lead.

2 – LT2 source water monitoring plan, reminder that it is due to our office for review by 7/1/15 per Mike's 4/3/15 letter, (attached).

3 – Consumer Confidence Report, (CCR), has not been received yet – due to our office, Gen. Co. LHD & your customers by 7/1/15.

Please provide an update for the above items.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--
Mike Glasgow
Utilities Administrator
City of Flint
1101 S. Saginaw St.
Flint, MI 48502
(810)766-7135 ext. 2602

Rennaker, Joanne (DEQ)

From: Bennett, Charles (DEQ)
Sent: Monday, June 29, 2015 9:18 AM
To: Rosenthal, Adam (DEQ); Kammer, Stephanie (DEQ)
Subject: RE: 6/30 & 7/1/15 deadlines

I don't think so. Stephanie might know if they do?

Charles Bennett, PE
 DEQ Water Resources Division
 Lansing District Office
BennettC4@michigan.gov
 ph 517-284-6658; fax 517-241-3571

From: Rosenthal, Adam (DEQ)
Sent: Monday, June 29, 2015 8:53 AM
To: Bennett, Charles (DEQ)
Subject: FW: 6/30 & 7/1/15 deadlines

Does your program have a source id code for the Flint river?

thanks,

Adam Rosenthal, EQA
 MDEQ – Office of Drinking Water and Municipal Assistance
 Lansing District – Constitution Hall 1SW
 PO Box 30242
 Lansing, MI 48909
 517-284-6644
 fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:
DEQ-DWMA-Lansing@michigan.gov

From: Michael Glasgow [<mailto:mglasgow@cityofflint.com>]
Sent: Friday, June 26, 2015 4:46 PM
To: Rosenthal, Adam (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Brent Wright
Subject: Re: 6/30 & 7/1/15 deadlines

Adam,

Just a quick question on the LT2 worksheet. What is the source identification number for the Flint River?

On Thu, Jun 25, 2015 at 10:47 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike & Brent, just wanted to remind you/confirm that Flint is on track for a few items.

1 – We hope you have 61 more lead/copper samples collected and sent to the lab by 6/30/15, and that they will be below the AL for lead. As of now with 39 results, Flint's 90th percentile is over the AL for lead.

2 – LT2 source water monitoring plan, reminder that it is due to our office for review by 7/1/15 per Mike's 4/3/15 letter, (attached).

3 – Consumer Confidence Report, (CCR), has not been received yet – due to our office, Gen. Co. LHD & your customers by 7/1/15.

Please provide an update for the above items.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--

Mike Glasgow
Utilities Administrator
City of Flint
1101 S. Saginaw St.
Flint, MI 48502
(810)766-7135 ext. 2602

Rennaker, Joanne (DEQ)

From: Michael Glasgow <mglasgow@cityofflint.com>
Sent: Friday, June 26, 2015 4:46 PM
To: Rosenthal, Adam (DEQ)
Cc: Prysby, Mike (DEQ); Busch, Stephen (DEQ); Brent Wright
Subject: Re: 6/30 & 7/1/15 deadlines

Adam,

Just a quick question on the LT2 worksheet. What is the source identification number for the Flint River?

On Thu, Jun 25, 2015 at 10:47 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike & Brent, just wanted to remind you/confirm that Flint is on track for a few items.

1 – We hope you have 61 more lead/copper samples collected and sent to the lab by 6/30/15, and that they are will be below the AL for lead. As of now with 39 results, Flint's 90th percentile is over the AL for lead.

2 – LT2 source water monitoring plan, reminder that it is due to our office for review by 7/1/15 per Mike's 4/3/15 letter, (attached).

3 – Consumer Confidence Report, (CCR), has not been received yet – due to our office, Gen. Co. LHD & your customers by 7/1/15.

Please provide an update for the above items.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--
Mike Glasgow
Utilities Administrator
City of Flint
1101 S. Saginaw St.
Flint, MI 48502
(810)766-7135 ext. 2602

Rennaker, Joanne (DEQ)

From: Brent Wright <bwright@cityofflint.com>
Sent: Friday, June 26, 2015 12:00 PM
To: Rosenthal, Adam (DEQ)
Cc: Mike Glasgow; Prysby, Mike (DEQ); Busch, Stephen (DEQ)
Subject: Re: 6/30 & 7/1/15 deadlines

Adam,

1- We have more than 100 sample bottles out but are only seeing a couple returned daily.

2-Mike is working LT2 Source Water Monitoring Plan and should have it to you before the 1st.

3-Both the Lake Huron water source and Flint River water source along with the violation letter CCR's are at the printers, I will send you a copy of each one as soon as they drop the extras off to me. This is usually a day after they mail them out.

Thank you

On Thu, Jun 25, 2015 at 10:47 AM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Morning Mike & Brent, just wanted to remind you/confirm that Flint is on track for a few items.

1 – We hope you have 61 more lead/copper samples collected and sent to the lab by 6/30/15, and that they are will be below the AL for lead. As of now with 39 results, Flint's 90th percentile is over the AL for lead.

2 – LT2 source water monitoring plan, reminder that it is due to our office for review by 7/1/15 per Mike's 4/3/15 letter, (attached).

3 – Consumer Confidence Report, (CCR), has not been received yet – due to our office, Gen. Co. LHD & your customers by 7/1/15.

Please provide an update for the above items.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov

--

Brent Wright
Water Plant Supervisor
City of Flint
4500 N. Dort Hwy.
Flint, MI. 48505
Ph: 810.787.6537 ext. 3510
Fx: 810.787.3710

Rennaker, Joanne (DEQ)

From: Michael Glasgow <mglasgow@cityofflint.com>
Sent: Wednesday, May 13, 2015 11:54 AM
To: Rosenthal, Adam (DEQ)
Subject: Re: distribution WQPs
Attachments: 2014 2nd qtr WQM (River source water).xls; 2014 3rd qtr WQM (River source water).xls;
2014 4th qtr WQM (River source water).xls

Adam,

Here are the 2014 WQM parameters during full time plant operation.

Mike

On Tue, May 12, 2015 at 4:32 PM, Rosenthal, Adam (DEQ) <ROSENTHALA@michigan.gov> wrote:

Good afternoon Mike, we did not receive a 2nd half 2014 water quality parameters in the distribution system for the City of Flint. Please email me a copy when you get this.

thanks,

Adam Rosenthal, EQA

MDEQ – Office of Drinking Water and Municipal Assistance

Lansing District – Constitution Hall 1SW

PO Box 30242

Lansing, MI 48909

517-284-6644

fax: 517-241-3571

For MORs, Lab Results & Reporting Forms:

DEQ-DWMA-Lansing@michigan.gov



Water Quality Monitoring

2nd Quarter 2014

SAMPLE POINT IDENTIFICATION			PARAMETERS AND RESULTS				
Distribution System Location #	Sample Point Name & Address	Sample Date	Temperature (C)	Conductivity (mS)	pH (su)	Total Alkalinity (mg/L CaCO ₃)	Calcium (mg/L Ca ²⁺)
#1	Arby's 3742 Davison Rd.	6/17/2014	21.7	0.50	7.67	100	62.5
#2	BP Gas Station 822 S.Dort Hwy	6/17/2014	21.0	0.50	7.60	94	56.9
#3	Liquor Palace 3302 S. Dort Hwy	6/17/2014	22.1	0.50	7.49	98	57.7
#4	Taco Bell 3606 Corunna Rd.	6/17/2014	22.3	0.50	7.52	104	57.7
#5	University Market 2501 Flushing Rd.	6/17/2014	21.0	0.50	7.50	100	56.9
#6	Salem Housing 3216 MLK Blvd.	6/17/2014	22.3	0.50	7.60	94	59.3
#7	Rite-Aid 5018 Clio Rd.	6/17/2014	21.2	0.50	7.69	98	57.7
#8	N. Flint Automotive 6204 N. Saginaw St.	6/17/2014	23.4	0.50	7.64	96	57.7
CS	Cedar Street Reservoir & Pump Station	6/17/2014	19.1	0.50	7.58	130	58.5
WS	West Side Reservoir & Pump Station	6/17/2014	20.2	0.60	7.51	126	65.7
N/A	Russell Collection Agency	6/17/2014	19.0	0.60	7.50	102	62.5
N/A	Southwestern Academy High School	6/17/2014	23.6	0.60	7.47	94	59.3
N/A	Cummings Elementary School	6/17/2014	19.6	0.50	7.60	102	68.9
N/A	Rite Aid Corunna Rd.	6/17/2014	20.8	0.50	7.66	104	60.1
N/A	Rite Aid Clio Rd.	6/18/2014	19.0	0.50	7.74	92	62.5
N/A	Tim Hortons Flushing Rd.	6/18/2014	21.6	0.50	7.68	98	59.3
N/A	Arby's Dort Hwy	6/18/2014	20.6	0.50	7.74	92	55.3
N/A	Ya Ya's Dort Hwy	6/18/2014	22.0	0.50	7.63	92	56.9
N/A	Taco Bell Dort Hwy	6/18/2014	21.4	0.50	7.76	90	56.1
N/A	Grandma's Recipe Richfield Rd.	6/19/2014	21.1	0.50	7.64	84	57.7
N/A	Flint City Hall 1101 S. Saginaw St.	6/19/2014	22.2	0.50	7.65	94	60.1
N/A	Quizzno's Court St.	6/19/2014	22.6	0.50	7.78	88	57.7
N/A	Whitehorse Tavern	6/19/2014	22.6	0.50	7.59	104	61.7
N/A	Flint Public Library	6/20/2014	19.4	0.50	7.77	86	59.3

002254

N/A	Rite Aid Fenton Rd.	6/25/2014	19.3	0.50	7.49	88	59.3
-----	---------------------	-----------	------	------	------	----	------



Water Quality Monitoring

3rd Quarter 2014

SAMPLE POINT IDENTIFICATION				PARAMETERS AND RESULTS			
Distribution System Location #	Sample Point Name & Address	Sample Date	Time	Temperature (C)	Conductivity (mS)	pH (su)	Total Alkalinity (mg/L CaCO ₃)
#1	Arby's 3742 Davison Rd.	8/6/2014	10:36	23.0	0.388	7.74	60
#2	BP Gas Station 822 S.Dort Hwy	8/6/2014	10:49	23.9	0.372	7.76	70
#3	Liquor Palace 3302 S. Dort Hwy	8/6/2014	11:00	23.8	0.369	7.65	72
#4	Taco Bell 3606 Corunna Rd.	8/6/2014	11:34	26.8	0.359	7.69	74
#5	University Market 2501 Flushing Rd.	8/6/2014	11:47	26.5	0.383	7.56	80
#6	Salem Housing 3216 MLK Blvd.	8/6/2014	12:09	27.3	0.350	7.73	70
#7	Rite-Aid 5018 Clio Rd.	8/8/2014	10:22	20.9	0.387	7.74	78
#8	N. Flint Automotive 6204 N. Saginaw St.	8/6/2014	12:38	25.5	0.363	7.83	72
CS	Cedar Street Reservoir & Pump Station	8/6/2014	11:16	25.5	0.395	7.69	78
WS	West Side Reservoir & Pump Station	8/6/2014	11:57	26.5	0.406	7.56	82
N/A	Russell Collection Agency 3285 Van Slyke Rd	8/8/2014	11:12	25.6	0.370	7.78	74
N/A	Southwestern Academy High School 1420 W.12th St.	8/8/2014	11:42	26.7	0.403	7.82	86
N/A	Cummings Elementary School G-2200 Walton St.	8/8/2014	11:00	25.8	0.359	7.62	76
N/A	Rite-Aid 3521 Corunna Rd.	8/8/2014	10:47	23.0	0.390	7.86	86
N/A	Kroger 2629 W. Pierson Rd.	8/6/2014	12:24	27.3	0.370	7.76	88
N/A	Tim Hortons 1274 Ballanger Hwy.	8/8/2014	10:35	21.9	0.411	7.73	86
N/A	Arby's 3559 S. Dort Hwy.	8/5/2014	11:19	23.1	0.401	7.63	88
N/A	Ya Ya's 519 S. Dort Hwy	8/5/2014	10:57	23.7	0.392	7.60	90
N/A	Taco Bell 1740 S. Dort Hwy	8/5/2014	11:09	23.2	0.412	7.60	90
N/A	Grandma's Recipe 3538 Richfield Rd.	8/5/2014	10:28	23.1	0.406	7.69	88
N/A	Flint City Hall 1101 S. Saginaw St.	8/5/2014	11:35	23.0	0.396	7.75	88
N/A	Quizzno's 3818 E. Court St.	8/5/2014	10:48	23.3	0.415	7.67	86
N/A	Whitehorse Tavern 621 W. Court St.	8/8/2014	11:53	26.1	0.390	7.81	78
N/A	Flint Public Library 1026 E. Kearsley Rd.	8/8/2014	11:45	22.2	0.446	7.82	82

002256

N/A	Rite-Aid 3717 Fenton Rd.	8/8/2014	11:30	22.0	0.394	7.78	88
-----	-----------------------------	----------	-------	------	-------	------	----

Calcium (mg/L Ca²⁺)
49.7
52.1
51.3
53.7
56.9
49.7
50.5
52.9
54.5
52.1
55.3
59.3
53.7
56.1
58.5
56.1
61.7
60.1
60.9
61.7
56.9
60.1
57.7
64.1



Water Quality Monitoring

4th Quarter 2014

SAMPLE POINT IDENTIFICATION				PARAMETERS AND RESULTS				
Distribution System Location #	Sample Point Name & Address	Sample Date	Time	Temperature (C)	Conductivity (mS)	pH (su)	Total Alkalinity (mg/L CaCO ₃)	Calcium (mg/L Ca ²⁺)
#1	Arby's 3742 Davison Rd.	11/25/2014	10:40	16.8	0.465	7.96	114	58.5
#2	BP Gas Station 822 S. Dort Hwy	11/25/2014	10:53	14.9	0.421	7.99	114	60.9
#3	Liquor Palace 3302 S. Dort Hwy	11/25/2014	11:08	11.6	0.461	7.98	118	59.3
#4	Taco Bell 3606 Corunna Rd.	11/25/2014	11:49	17.4	0.479	7.99	118	60.1
#5	University Market 2501 Flushing Rd.	11/25/2014	12:08	15.6	0.442	7.90	116	63.3
#6	Salem Housing 3216 MLK Blvd.	11/25/2014	12:34	15.0	0.437	7.85	104	58.5
#7	Rite-Aid 5018 Clio Rd.	11/25/2014	13:00	16.1	0.448	7.99	118	62.5
#8	N. Flint Automotive 6204 N. Saginaw St.	11/25/2014	13:14	16.1	0.488	8.00	114	59.3
CS	Cedar Street Reservoir & Pump Station	11/25/2014	11:25	11.1	0.442	7.99	108	60.9
WS	West Side Reservoir & Pump Station	11/25/2014	12:18	9.1	0.449	7.96	114	59.3
N/A	Russell Collection Agency 3285 Van Slyke Rd	12/2/2014	11:35	12.2	0.372	7.67	100	64.1
N/A	Southwestern Academy High School 1420 W. 12th St.	12/2/2014	11:23	12.7	0.352	7.71	100	65.7
N/A	Cummings Elementary School G-2200 Walton St.	12/2/2014	11:51	11.2	0.382	7.65	108	64.1
N/A	Rite-Aid 3521 Corunna Rd.	11/28/2014	12:37	13.2	0.405	8.03	106	55.3
N/A	Clio Rd. Pharmacy 4902 Clio Rd.	12/2/2014	13:00	13.4	0.356	7.62	100	65.7
N/A	Tim Hortons 1274 Ballanger Hwy.	11/28/2014	12:58	11.7	0.404	7.95	106	50.5
N/A	Arby's 3559 S. Dort Hwy.	11/26/2014	11:07	15.5	0.443	7.87	108	68.1
N/A	Ya Ya's 519 S. Dort Hwy	11/26/2014	10:33	12.2	0.424	7.95	106	66.5
N/A	Taco Bell 1740 S. Dort Hwy	11/26/2014	10:50	9.5	0.414	7.86	108	64.1
N/A	Grandma's Recipe 3538 Richfield Rd.	11/26/2014	9:55	15.3	0.426	7.68	114	65.7
N/A	Flint City Hall 1101 S. Saginaw St.	12/3/2014	10:00	15.7	0.404	7.84	98	61.7
N/A	Quizzno's 3818 E. Court St.	11/26/2014	10:19	11.5	0.421	7.88	122	68.1
N/A	Whitehorse Tavern 621 W. Court St.	11/28/2014	12:00	12.0	0.405	8.10	104	56.9
N/A	Flint Public Library 1026 E. Kearsley Rd.	12/3/2014	11:00	18.4	0.449	7.76	100	59.3

002260

N/A	Rite-Aid 3717 Fenton Rd.	11/28/2014	11:48	10.5	0.407	7.88	102	56.1
-----	-----------------------------	------------	-------	------	-------	------	-----	------