

# REPORT: Model Separate Storm System Surveying & Monitoring Berkshire Environmental Action Team (BEAT)



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City of Pittsfield



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## REPORT: Model Separate Storm System Surveying & Monitoring

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# I. Introduction: Water Quality in the Pittsfield section of the Housatonic River

In 2002 the Massachusetts Department of Environmental Protection (DEP) and the Division of Watershed Management prepared a summary of water quality data/information on the Housatonic Watershed. In the report, it was determined that the sections of the Housatonic River in Pittsfield—specifically the Southwest Branch, the West Branch, the East Branch, and the Main Stem—were "impaired" as they pertained to Surface Water Quality Standards (SWQS).

SWQS designate the most sensitive uses of Massachusetts waters and provide criteria for evaluating water quality to support those uses. The designated uses include: *Aquatic Life, Fish Consumption, Primary and Secondary Contact Recreation and Aesthetics.* There are a variety of reasons a waterway may be considered impaired ranging from pollution to surrounding land-use. In the case of the Housatonic River in Pittsfield, a number of factors were evaluated including but not limited to trash and debris, PCBs, elevated temperature, elevated total phosphorus, organic enrichment, and/or fecal coliform. Remarkably, all sections tested positive for elevated levels of fecal coliform.

Fecal coliform are bacteria that contribute to digestion, live in the intestines of warm blooded mammals, and indicate the presence of sewage. Obviously, sewage does not belong in the river.

But how did the fecal coliform get into the River? DEP and the Division of Watershed Management speculated that stormwater pipes were conveying it via illicit connections/hookups to sewage pipes. Old infrastructure, in this case old stormwater and sewage pipes, crisscross most cities in the United States. Far too often sewage makes its way into a stormwater pipes via belowground cracks and leaks. And fun fact, stormwater pipes lead to the river.



To address this, the Berkshire Environmental Action Team (BEAT), in partnership with the City of Pittsfield, the Housatonic Valley Association (HVA), Berkshire Community College (BCC), and Berkshire Regional Planning Commission (BRPC), applied for and received grant funding through the Massachusetts Environmental Trust (MET). The project was called the **Model Separate Storm System Surveying and Monitoring**. It required multiple organization to develop a BMP survey methodology, adapt the survey for a smartphone application, train volunteers to survey waterways, collect water samples, have a certified lab analyze the samples, and meet with stakeholders to discuss results and remediation.

Basically, volunteers would find, survey, and take samples from stormwater outfalls that were flowing during "dry weather" events. Surveying during "dry weather" is essential because during a rainstorm the outfalls are busy conveying that precipitation. However, after 72 hours of no rain, the pipes should be dry. Therefore, if volunteers were finding "dry weather flow" it begs the question, what is coming out of the pipes and where did it come from?

## II. Methodology

### a. Survey Conditions

Based on best management practice in regards to surveying stormwater outfalls for dry weather flow, it was decided that "dry weather" would be considered 72 hours of less than or equal to one tenth of an inch of rain. As stormwater outfalls are designed specifically to convey rainwater to waterbodies, if surveyors found discharge at stormwater outfalls during dry weather conditions then it begs the question, what is it?

### b. Digital Survey Form

Deciding what data are necessary is the first step toward creating a digital survey form. To do so, BEAT asked the City of Pittsfield and Berkshire Regional Planning Commission what data would be most useful. After reviewing similar projects for best management practices we decided upon 16 data fields. Those fields were Unique ID, Latitude, Longitude, Flow, Material, Condition, Color of Flow, Smell of Outfall, Turbidity, Floatables, Vegetation Type, Animal or Fish Presence, Description, and the City of Pittsfield Outfall ID.

Using those fields BEAT modified an ArcCollector application for use on both Android and IPhone devices. To do so, BEAT created a file geodatabase in ArcMap, created domains based on those 16 fields, added a featureclass, added the correct field types, and published a feature service to our organization. Fortunately, ESRI has a step by step guide that will walk you through the process of creating your own modified ArcCollector App. That guide can be found here: <a href="http://doc.arcgis.com/en/collector/windows/create-maps/prepare-data-desktop.htm">http://doc.arcgis.com/en/collector/windows/create-maps/prepare-data-desktop.htm</a> and here: <a href="http://doc.arcgis.com/en/collector/windows/create-maps/create-and-share-a-collector-map.htm">http://doc.arcgis.com/en/collector/windows/create-maps/create-and-share-a-collector-map.htm</a>.

Additionally, BEAT added the City of Pittsfield's stormwater system GIS layer to the basemap of the digital survey form. Surveyors used that basemap as a reference when looking for outfalls.

Please note, you must have an ArcOnline subscription in order to create a digital survey form using this methodology.

#### c. QAPP

Concurrent with the start of the project, BEAT's partner, the Housatonic Valley Association (HVA), began updating an old Quality Assurance Project Plan or QAPP. A QAPP is like a blueprint for how a project will run. In this case, the state required a QAPP for the phase of the project that involved the collection of dry weather flow and lab testing. Fortunately, HVA had done a similar project in the past so they were able to simply update an old QAPP.

This was an essential step because without a QAPP the Commonwealth would not have considered the sampling data.

## d. Survey Outfalls

By far the most time consuming phase of this project was surveying the 17.75 miles of the Housatonic River for stormwater outfalls. BEAT staff and volunteers used kayaks and chest waders to negotiate the waters and only did so when the current of the river was manageable and safe.

Equipment included kayak, waders, personal floatation device, a meter stick, a backup camera, and a smartphone. The smartphone had previously downloaded the ArcCollector app.

### e. Collect and Test Samples

Based on the results of surveying, volunteers were trained under the QAPP, collected samples, and transported samples to the certified lab.

BEAT had funding enough to survey nine outfalls however surveyors found 43 with dry weather flow. To pick which nine would be sampled and tested, BEAT looked for indicators of fecal coliform contamination such as the odor of sewage and beige colored colonies of fungus.

Under the QAPP, volunteers collected 100ml of discharge from each of the nine outfalls as well as one duplicate sample and one 100ml of distilled water. Those samples were brought to Premier Laboratory in Lee, MA no later than 6 hours after the first sample had been collected.

## III. Summary of Findings

### a. West Branch

Range: Pontoosuc Lake to Confluence

Distance: 4.89mi

Land Use: Primarily Urban

Outfalls: 169

Dry Weather Flow Outfalls: 26



Overview: The West Branch of the Housatonic River begins at the Pontoosuc Lake dam. It winds through mostly urban, semi urban, and industrial surroundings before connecting with the Southwest Branch near the southern end of Clapp Park. Finally, it reaches the confluence with the East Branch at the southern point of Fred Garner Park.

The West Branch is the most developed section of river in Pittsfield nevertheless it boasts several short sections with ample aquatic and terrestrial habitat, especially behind Wahconah Park. Moreover, the West Branch runs through Pittsfield's Minority and Income Environmental Justice Area. Perennially, BEAT and HVA run trash cleanups on this branch of the river.

The West Branch is considered impaired under SWSQ Aquatic Life Uses, Primary Contact Recreation Use Assessments, Secondary Contact Recreation Use, and Aesthetics Use. Fecal coliform was a consideration for the Secondary Contact Recreation Use impairment.

The West Branch is considered a Class B water and as such designated habitat for fish, other aquatic life, and wildlife and for primary and secondary contact recreation. Under certain conditions and treatment water may be a suitable source of public water supply. It is also suitable for irrigation and agricultural uses and compatible industrial cooling processes.

The West Branch, as a Class B water and in relation to fecal coliform, as defined by the Massachusetts Department of Public Health, in 105 CMR 445.010: the geometric mean of all E. coli samples taken within the most recent six months shall not exceed 126 colonies per 100 ml typically based on a minimum of five samples and no single sample shall exceed 235 colonies per 100ml.

Volunteers found more dry weather flows on this branch of the river than any other (169). Of the 26 outfalls conveying dry weather flow 7 were sampled.

The first outfall sampled, identified as WB100, is located between Hancock Road bridge and the



Pontoosuc Lake dam. Throughout the sampling and survey season, this outfall maintained a what volunteers described as a "high" rate of flow. However, there was never any odor or curious bacterial growth. In the end, BEAT decided to sample this outfall due to the quantity of discharge regularly reported.

WB100 was tested on five occasions, in each instance levels of fecal coliform were very low to non-existent. The high rate of flow may be a result of a drainage from the eastern hillsides or a small stream connected to the

system. Cross referencing state hydrology layers and city stormwater system layers in a GIS system did not produce any potential stream stormwater connections. Whatever is flowing into the river, it is not contributing to fecal coliform contamination.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	1	1	10.9	7.5	14.5

The second outfall, identified as WB 260, is located along the riverside of Route 7/North Street



between Hancock Road and Wyandotte Business Park just downslope of a bike lane sign. Volunteers described the rate of flow as "moderate" and the odor as "musky" and/or "sewage". BEAT decided to sample this outfall because there was a fair amount of flow, volunteers detected the odor of sewage, and the fact that there is a sewage line that runs past this outfall.

WB 260 was tested on five occasions, three times it did not test positive for fecal coliform, on two occasions it tested 32.9 most probable number (MPN)/100ml and 52.9 MPN/100ml respectively. Both of those numbers are

still well below state imposed limits and as such BEAT did not consider this a priority for remediation. That being said, students from Berkshire Community College (BCC) will be monitoring this outfall via their own fecal coliform tests as a part of a microbiology class.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	1	52.9	32.9	1	0

The third outfall, identified as WB410, is located at the southernmost end of Wyandotte Business Park, behind an old fence and the southernmost brick building. Volunteers described



the rate of flow as "moderate", the odor as "sewage", and the condition as "minor damage". What's more, there is a sewer line running past the outfall. Also, this outfall did not appear on the City of Pittsfield's Storm Water System map or GIS layer. Due to these characteristics, BEAT decided to sample this outfall.

WB410 was tested on five occasions by a certified lab and one time by students from BCC's microbiology lab. Results obtained both sources indicate that there is a serious contamination issue. Lab results were 1732.9 MPN/100ml, 2419.6 MPN/100ml, >2419.6 MPN/100ml, >2419.6 MPN/100ml, and 648.5 MPN/100ml. The geometric mean for these five samples is BCC students were not able to obtain a result via plating and counting colony forming unit due to the extreme concentration of fecal coliform.

In relationship to state regulations, this outfall tested well outside the individual 235 cfu/100ml limit for all five samples. Moreover, it's geometric mean of 1739.3 is well above the 126 cfu/100ml permitted.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	1732.9	2419.6	>2419.6	>2419.6	648.5

BEAT is pressuring the City to remediate this situation. BCC students will continue to sample and test this outfall.

The fourth outfall, identified as WB 1440, is located west of Clocktower Business Park, behind

the start of a barbed wire fence along the parking lot. Volunteers described the rate of flow as "moderate" and the odor as "sewage". Additionally, some of the water beneath the outfall had a cloudy appearance that usually indicates some level of fecal coliform contamination.

WB1440 was tested on five occasions, only one of those samples tested above the state limit and it is worth mentioning that it tested well above the state limit. Also, the geometric mean of five samples was 20.3 which is well below the state limit of 126.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	10.8	2	17.5	9.8	920.8

Despite the one sample that tested above the state limit BEAT does not consider this outfall a priority for remediation. We will have students from BCC monitor the outfall for fecal coliform and follow up if results indicate a consistent source of contamination.

The fifth outfall, identified as WB1450, is located behind parking lot for the "Hot Dog Ranch" and



"Oasis Hair Design" off of Route 20/West Rd. Volunteers described the rate of flow as "minor", the odor as either "none" or "sewage", and noted the presence of a "beige colored colony of fungus or vegetation" which can be an indicator of fecal coliform.

WB1450 was tested on five occasions, on one occasion the sample well exceeded state limits. Additionally, the geometric mean of the

five samples is 177.3 which is slightly higher than the state limit of 126.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	178	1732.9	107.1	81.6	65

Despite the geometric mean and the one sample both being above state limits, BEAT does not consider this outfall a priority for remediation. We will have students from BCC monitor the outfall for fecal coliform and follow up if results indicate a consistent source of contamination.

The sixth outfall, identified as WB1600, is located along Atwood Drive in a forested section of the river between residential areas. Volunteers described the rate of flow as "minor" and the odor as "sewage". Also, there are a considerable number of locations where sewage lines cross the stormwater pipe.

WB1600 was tested on five occasions by a certified lab and four times by BCC's microbiology lab. Results obtained by both sources indicate a serious contamination issue. All five of the lab samples tested



significantly higher than the state limits and the geometric mean of the five samples was 2214.3, well above the state limit 126.



State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	1553.1	>2419.6	2419.6	>2419.6	2419.6

BCC students were not able to obtain a result via plating and counting colony forming units due to the extreme concentration of fecal coliform in the sample. Professors actually tried diluting samples in order to obtain a result but samples were still too concentrated. These experiences caused one of the BCC professors to query whether or not the discharge may actually be "raw sewage".

BEAT considers this outfall to be a priority for remediation. BEAT is pressuring the City to remediate this situation. BCC students will continue to sample and test this outfall.

The seventh outfall, identified as WB330, is located in the Wyandotte Business Park, 50 yards

downriver of the Keeler St bridge alongside the northernmost side of the nearest brick building. Volunteers described the rate of flow as "minor" and the odor as "musky" or "none". Also, this outfall did not appear on the City of Pittsfield's Storm Water System map or GIS layer.

WB330 was tested on five occasions by a certified lab. Of those five samples, none tested above individual sample state limits nor the state limit for geometric mean of five samples.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	5.2	30.5	214.3	9.6	2

This is not considered a priority for remediation by BEAT.

#### b. East Branch

Range: Hubbard Ave and Rte 8 Bridge to the Confluence

Distance: 5.12 mi

Land Use: Urban, Industrial and Forested

Outfalls: 71

Dry Weather Flow Outfalls: 12

Overview: The East Branch of the Housatonic River begins at the outlet of Center Pond in Dalton. However, for the

sake of this project, surveying began at the Hubbard Ave bridge adjacent to Route 8. This section of river winds through a combination of urban, industrial and forest before reaching the confluence with the West Branch at the southern point of Fred Garner Park.

The East Branch is the most forested branch of the Housatonic in Pittsfield. However, it is also considered a hazardous waste site because of severe PCB contamination.

The East Branch is considered a Class B water and as such designated habitat for fish, other aquatic life, and wildlife and for primary and secondary contact recreation. Under certain conditions and treatment water may be a suitable source of public water supply. It is also suitable for irrigation and agricultural uses and compatible industrial cooling processes.

The East Branch, as a Class B water and in relation to fecal coliform, as defined by the Massachusetts Department of Public Health, in 105 CMR 445.010: the geometric mean of all E. coli samples taken within the most recent six months shall not exceed 126 colonies per 100 ml typically based on a minimum of five samples and no single sample shall exceed 235 colonies per 100ml.

The East Branch is considered impaired under SWSQ Fish Consumption and Primary Contact Recreation Use Assessments. Fecal coliform was a consideration for the Primary Contact Recreation Use impairment.

Volunteers found 71 outfalls on this section of river. Of the 12 outfalls conveying dry weather flow 2 were sampled.

The first outfall sampled, identified as EB135, is located at a bend in the branch between route 8



and the Barnes and Noble parking lot. Volunteers described the rate of flow as "moderate" and did not detect any odor. However, there are several locations where the stormwater pipes and the sewer pipes cross one another.

EB135 was tested on five occasions by a certified lab, of those five samples one tested well above the state limit of 235 cfu/100ml.

That being said, the geometric mean of the five samples is 91.6 which is below the state limit of 126.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5

235 33.1	1553.1	50.4	70.3	35.5
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Despite one sample that tested well above the single sample limit of 235, this is not considered a priority for remediation by BEAT.

The second outfall samples, identified as EB190, is located southwest of Torrco Plumbing Supply on Commercial Street. Volunteers described the rate of flow as "minor" and the odor as "gasoline" or "none". There are several locations where the stormwater pipes and the sewer pipes cross one another. Also, this outfall did not appear on the City of Pittsfield's Storm Water

System map or GIS layer.

EB190 was sampled on five occasions by a certified lab, of those samples one tested slightly above state limits.

State reg	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
235	261.3	214.3	222.4	5.2	1

Despite one sample that tested well above the single sample limit of 235, this is not considered a priority for remediation by BEAT.

#### c. Southwest Branch

Range: Richmond Pond Outfall to West Branch

Confluence Distance: 3.23 mi

Land Use: Residential and Forested

Outfalls: 33

Dry Weather Flow Outfalls: 2

Overview: The Southwest Branch of the Housatonic River

begins at the outlet of Richmond Pond in Pittsfield. However, for the sake of this project, surveying began at Hungerford St bridge adjacent to Lebanon Ave. This section of river winds through a combination of residential areas and forest before reaching the confluence with the West Branch behind Clapp Park.

The Southwest Branch is considered a Class B water and as such designated habitat for fish, other aquatic life, and wildlife and for primary and secondary contact recreation. Under certain conditions and treatment water may be a suitable source of public water supply. It is also suitable for irrigation and agricultural uses and compatible industrial cooling processes.

As a Class B water and in relation to fecal coliform, as defined by the Massachusetts Department of Public Health, in 105 CMR 445.010: the geometric mean of all E. coli samples taken within the most recent six months shall not exceed 126 colonies per 100 ml typically based on a minimum of five samples and no single sample shall exceed 235 colonies per 100ml.



The East Branch is considered impaired under SWSQ *Fish Consumption and Primary Contact Recreation Use Assessments*. Fecal coliform was a consideration for the *Primary Contact Recreation Use* impairment.

Volunteers found 33 outfalls on this section of river. Of the 2 outfalls conveying dry weather flow none were sampled. It is thought that both outfalls are actually culverts and are conveying water from wetlands or streams.

#### d. Main Stem

Range: Confluence of the branches to the

town border with Lenox Distance: 4.51 mi Land Use: Forested

Outfalls: 12

Dry Weather Flow Outfalls: 0

Overview: The Main Stem of the Housatonic River begins at the confluence of the West Branch and the East Branch in Pittsfield. The Main Stem winds through forested



surroundings and an occasional residential area. For the sake of this grant, BEAT surveyed all stormwater outfalls to the town border with Lenox, MA.

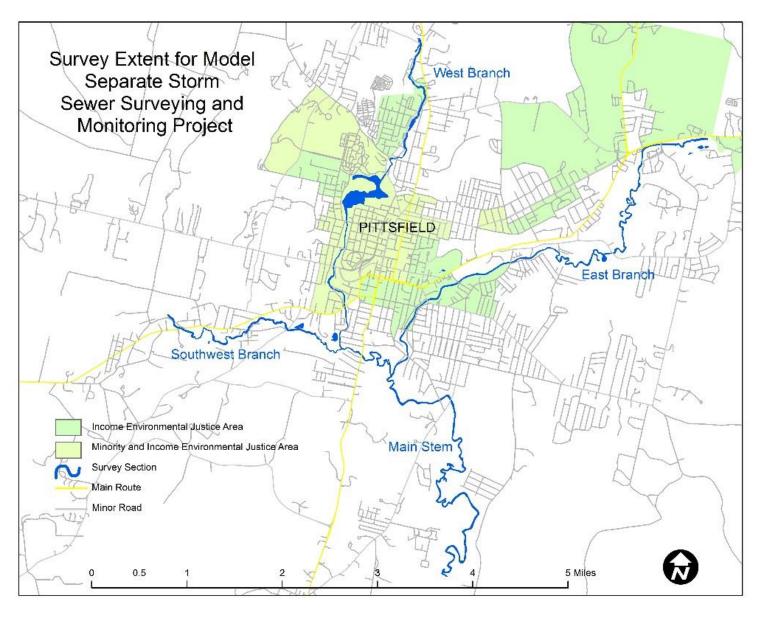
The Main Stem is considered a Class B water and as such designated habitat for fish, other aquatic life, and wildlife and for primary and secondary contact recreation. Under certain conditions and treatment water may be a suitable source of public water supply. It is also suitable for irrigation and agricultural uses and compatible industrial cooling processes.

As a Class B water and in relation to fecal coliform, as defined by the Massachusetts Department of Public Health, in 105 CMR 445.010: the geometric mean of all E. coli samples taken within the most recent six months shall not exceed 126 colonies per 100 ml typically based on a minimum of five samples and no single sample shall exceed 235 colonies per 100ml.

The Main Stem is considered impaired under SWSQ Aquatic Life Use Assessment, Fish Consumption Use Assessment, and Primary Contact Recreation Use Assessments. Fecal coliform was a consideration for the Primary Contact Recreation Use impairment.

Volunteers found 12 outfalls on this section of river. None of the outfalls were found conveying dry weather flow.

## IV. Maps





# **WB1600 Map** Photos - Results



★ WB1600



Stormwater Outfall



Stormwater Pipe



Sewer Pipe

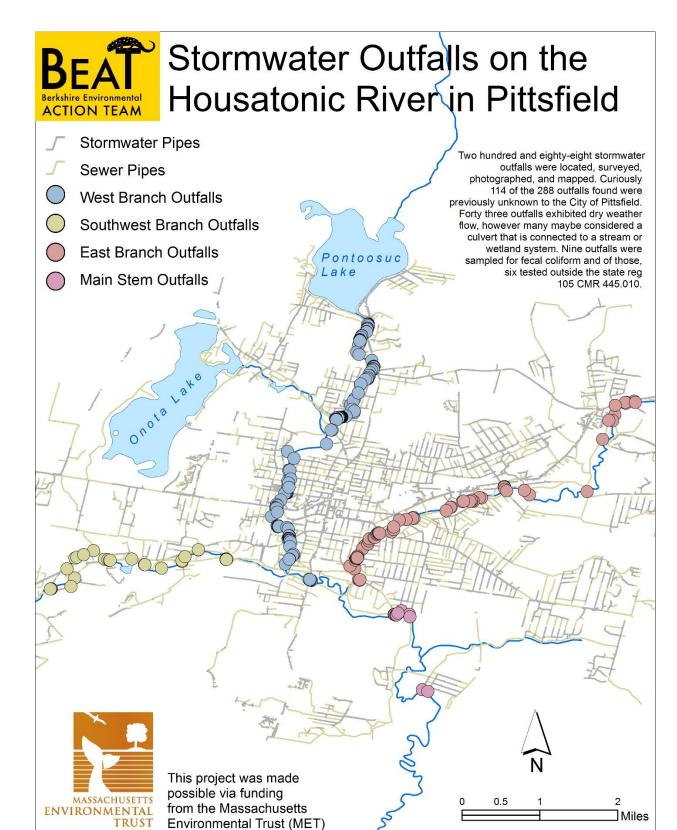




State Reg	235
Test 1	1553.1
Test 2	>2419.6
Test 3	2419.6
Test 4	>2419.6
Test 5	2419.6







## V. Table of Results

EB095	42.469405 -73.196500 minor	12	concrete	undamage: clear	sewage	clear	none	sewage_fui	fish	south east	156
EB100	42.469655 -73.196702 none	12	metal	undamage no flow	none	no flow	none		none	near bridge	
EB110	42.469440 -73.198208 none	30	metal	undamage no flow	none	no flow			none		NA
EB120	42.469282 -73.198275 none	36	metal	undamager no flow	none	no flow			none	appears to	
EB130	42.469399 -73.198382 none	12	metal	minor_dam no flow	none	no flow	none			deer proba	
EB135	42.468862:-73.200253 moderate	18	metal	undamage: clear	none	clear	none		fish	at bend in i	
EB140	42.467151 -73.200328 none	30	metal	minor_dam no flow	no flow	no flow	none		none	oil in outfle	
EB150	42.466012 -73.20070€ none	26	concrete	minor_dam no flow	no flow	no flow	none		none	standing w	
EB160	42.466078:-73.201421none	39	concrete	minor dam no flow	no flow	no flow	none		none	standing w	
EB170	42.462558(-73.202584none	12	metal	other no flow	no flow	no flow	none		none	standing w	
EB180	42.452850(-73.205460 none	12	metal	minor dam no flow	none	clear	none		fish	just upstrea	
EB190	42.452226 -73.216177 minor	14	metal	moderate_clear	none	clear	none			orange sed	
EB200	42.453078(-73.217158 moderate	36	metal	major_dam clear	musty	clear			fish	bottom cor	
EB310	42.453784 -73.220845 moderate	42	concrete	minor_dam clear	musty	clear	none	none	11511	one of two	
EB320	42.453729:-73.220883 minor	42	concrete	minor_dan clear	musty	clear	none	none		one of two	
EB330	42.453754 -73.220907 none	12									
			concrete	minor_dam no flow	none	clear		none		next to two	
EB340	42.453651(-73.220850 none	12	metal	moderate_ no flow	none	no flow		none		next two th	
EB350	42.453252 -73.220738 none	4	other	major_dam no flow	none	clear	none	none		2 PVC pipes	
EB360	42.452987 -73.220435 none	12	concrete	minor_dam no flow	none	clear	none	none		in thicket	
EB370 EB380	42.451672 -73.225125 none	12	other	undamaged no flow	none	clear	none		none	PVC plastic	
	42.451766(-73.225507none	12	metal	minor_dam no flow	none	clear			ducks	on concrete	
EB390	42.451059 -73.226618 none	10	metal	moderate_ no flow	none	clear			heron, fish		109
EB400	42.451057 -73.226904 none	14	metal	minor_dam no flow	none	clear	none		heron, fish		108
EB410	42.451247(-73.226973 none	30	concrete	minor_dam no flow	none	clear	none		fish		107
EB420	42.451043 -73.227242 none	6	metal	minor_dam no flow	none	clear	none		fish		NA
EB430	42.450969(-73.228689 none	14	metal	minor_dam no flow	none	clear	none		fish		367
EB440	42.451069 -73.228429 none	14	metal	undamage no flow	none	clear	none		fish		368
EB450	42.449968(-73.23074£ none	30	metal	minor_dam no flow	none	clear	none		raccoon		0
EB460	42.44992273.230936 heavy	10	metal	undamage: clear	none	clear	none		ducks		89
EB470	42.449323 -73.231659 none	30	concrete	minor_dam no flow	none	clear		none			154
EB480	42.448070(-73.237735 none	6	other	undamager no flow	none	clear			fish		NA
EB490	42.447986 -73.237863 none	8	metal	moderate_ no flow	none	clear	none		heron, fish		43
EB500	42.447846 -73.237690 none	16	metal	undamaged no flow	none	clear	none	none	fish		44
EB510	42.447934 -73.237900 none	16	other	undamaged no flow	none	clear	none	none	fish	plastic	NA
EB520	42.447652 -73.239147 none	10	other	undamage no flow	none	clear	none	none	fish	plastic	NA
EB530	42.447571 -73.240412 none	198	concrete	undamaged heavy flow	musty	clear	none	none		big box cul	177
EB540	42.446310(-73.241457 none	12	metal	undamage no flow	none	none	none	none			3
EB550	42.445797: -73.241435 none	16	metal	undamager no flow	none	none		none			59
EB560	42.445356:-73.241804 none	42	concrete	undamage no flow	none	none	none	none	fish		58
EB570	42.445107(-73.244042 none	12	metal	minor_dam no flow	none	clear		none			NA
EB580	42.445174(-73.244190 none	36	metal	moderate_ no flow	none	clear	none	none			35
EB590	42.445161(-73.24422€ minor	12	metal	minor_dam clear	none	clear	none	none			34
EB600	42.445136 -73.244257 minor	36	concrete	minor_dam clear	sewage	clear	none	sewage_fui		funny grayi	NA
EB610	42.445048 -73.244412 none	48	concrete	undamage no flow	none	clear	none	none		next to a bi	
EB620	42.444911 -73.244613 none	24	metal	minor dam no flow	none	clear	none	none		at end of cl	
EB630	42.444333(-73.244934 none	12	other	undamage no flow	none	clear	none	none		plastic	NA
EB640	42.444367 -73.245118 none	18	metal	minor_dam no flow	none	clear		none		attached to	
EB650	42.444079 -73.245958 none	24	metal	moderate_ no flow	none	clear	none	none		near rd, M/	
EB660	42.443696 -73.246052 none	24	other	undamage no flow	none	clear	none	none		plastic	NA
EB670	42.443101 -73.246242 none	18	other	undamager no flow	none	clear	none	none		plastic	120
EB674	42.442845 -73.246755 minor	12	plastic	undamage: clear	none	clear	none	none		NO MATCH	
EB675	42.442181 -73.247275 minor	12	other	undamagecclear	none	clear		none		VCP	278
EB676	42.440879 -73.248177 none	6	plastic	undamager no flow	none	clear		none		NO MATCH	
EB680	42.440654 -73.248266 none	12	metal	moderate_ no flow	none	clear	none	none		under bridg	
EB690	42.440628(-73.248295 none	6	metal	moderate_ no flow	none	clear	none	none		under bridg	
EB700	42.440594 -73.248157 none	12	metal	moderate_no flow	none	clear		none		under bridg	
EB710	42.440442 -73.248438 none	6	metal	minor_dam no flow	none	clear	none	none		under bridg	
EB720	42.440576 -73.248352 none	6	metal	moderate_ no flow	none	clear	none	none		under bridg	
EB730	42.440516 -73.248390 none	6	metal	moderate_no flow	none	clear	none	none		under bridg	
EB740	42.440598(-73.248303 none	6	metal	moderate_ no flow	none	clear	none	none		under bridg	
EB750	42.440532(-73.248184 none	6	metal	moderate_ no flow	none	clear		none		under bridg	
EB760	42.440424 -73.248228 none	30	metal	moderate_ no flow	none	clear		none		under retai	
EB770	42.440424 -73.248220 none	6	metal	moderate_ no flow	none	clear	none	none		under bridg	
EB780	42.440495 -73.248204 none	6	metal	moderate_ no flow	none	clear	none	none	f: .1.	under bridg	
EB790	42.440422(-73.248481none	15	metal	moderate_ no flow	none	clear	none		fish	built into re	
EB800	42.440134 -73.248612 none	30	other	undamaged no flow	musty	clear	none		fish	plastic mat	
EB810	42.439052 -73.249539 none	24	concrete	minor_dam no flow	none	clear	none		fish	at bend in t	
EB820	42.438556(-73.248694 none	12	other	undamage no flow	none	clear	none		minnows		210
EB830	42.436505(-73.247724 minor	30	concrete	undamage: clear	sewage	clear		sewage_fui		directly und	
EB840	42.436385 -73.247757 none	10	other	moderate_ no flow	none	clear	none	none	minnows	VCP, attach	
EB850	42.43651073.247968 none	12	concrete	minor_dam no flow	none	clear	none	none		just downst	
MS100	42.430031 -73.241339 none	4	metal	minor_dam no flow	none	clear	none		fish	under bridg	
MS110	42.430006 -73.24125€ none	4	metal	minor_dam no flow	none	clear	none		fish	under bridg	
MS130	42.429973(-73.240929 none	4	metal	minor_dam no flow	none	no flow			fish	under bridg	
MS140	42.429906 -73.241027 none	4	metal	minor_dam no flow	none	clear			fish	under bridg	
MS150	42.429943 -73.240932 none	4	metal	minor_dam no flow	none	clear	none		fish	under bridg	
MS160									fish	under bridg	NA
MS180	42.429956!-73.240884 none	4	metal	minor_dam no flow	none	clear	none			under bridg	
	42.429956: -73.240884 none 42.430276: -73.240630 none	16	concrete	minor_dam no flow	none none	clear	none	none	fish	Ì	286
MS190	42.429956 -73.240884 none 42.430276 -73.240630 none 42.430524 -73.240095 none	16 14		minor_dam no flow major_dam no flow			none	none none	fish fish	collapsed	NA
	42.429956: -73.240884 none 42.430276: -73.240630 none	16	concrete concrete metal	minor_dam no flow	none	clear	none none	none none	fish	Ì	NA
MS190	42.430276; -73.240884 none 42.430276; -73.240630 none 42.430524; -73.240095 none 42.430717; -73.239972 minor 42.430047; -73.238515 moderate	16 14	concrete concrete	minor_dam no flow major_dam no flow	none none	clear clear	none none	none none none	fish fish	collapsed behind dog behind fend	NA 233
MS190 MS200	42.429956: -73.240884 none 42.430276: -73.240630 none 42.430524: -73.240095 none 42.430717: -73.239972 minor	16 14 24	concrete concrete metal	minor_dam no flow major_dam no flow moderate_ clear	none none none	clear clear clear	none none none	none none none	fish fish fish	collapsed behind dog behind fend	NA 233
MS190 MS200 MS210	42.430276; -73.240884 none 42.430276; -73.240630 none 42.430524; -73.240095 none 42.430717; -73.239972 minor 42.430047; -73.238515 moderate	16 14 24 24	concrete concrete metal concrete	minor_dam no flow major_dam no flow moderate_ clear minor_dam clear	none none none	clear clear clear clear	none none none none	none none none none none	fish fish fish fish	collapsed behind dog behind fend	NA 233 188
MS190 MS200 MS210 MS230	42.429956 -73.240884 none 42.430276 -73.240635 none 42.4305244 -73.240095 none 42.430717 -73.239972 minor 42.430047 -73.238515 moderate 42.429602 -73.238426 none	16 14 24 24 4	concrete concrete metal concrete other	minor_dam no flow major_dam no flow moderate_ clear minor_dam clear major_dam no flow	none none none none none	clear clear clear clear	none none none none none none	none none none none none	fish fish fish fish fish	collapsed behind dog behind fend	NA 233 188 NA 2
MS190 MS200 MS210 MS230 MS240	42.42956-73.240884 none 42.430276: 73.240630 none 42.430524: 73.240095 none 42.430717: 73.239972 minor 42.430047: 73.238515 moderate 42.429602: 73.238426 none 42.415994: 73.236187 none	16 14 24 24 4 16	concrete concrete metal concrete other concrete	minor_dam no flow major_dam no flow moderate_ clear minor_dam clear major_dam no flow minor_dam no flow	none none none none none	clear clear clear clear clear	none none none none none none	none none none none none none none	fish fish fish fish fish fish	collapsed behind dog behind fend plastic	NA 233 188 NA 2 NA
MS190 MS200 MS210 MS230 MS240 SW100	42.439956 -73.240884 none 42.430276 -73.240630 none 42.430524 -73.240095 none 42.430047 -73.239972 minor 42.430047 -73.238515 moderate 42.429602 -73.238426 none 42.415994 -73.236187 none 42.434774 -73.305255 none	16 14 24 24 4 16 4	concrete concrete metal concrete other concrete concrete	minor_dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow minor_dam no flow undamagec no flow	none none none none none none none	clear clear clear clear clear clear no flow	none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink	collapsed behind dog behind fend plastic under bridg	NA 233 188 NA 2 NA 127
MS190 MS200 MS210 MS230 MS240 SW100 SW110	42.429956-73.240884 none 42.430276-73.240636 none 42.430524(-73.240095 none 42.430717(-73.239972 minor 42.430047)-73.238515 moderate 42.429602(-73.238426 none 42.415994(-73.236187) none 42.434774(-73.305255 none 42.434774(-73.305256 none	16 14 24 24 4 16 4 12	concrete concrete metal concrete other concrete concrete metal concrete	minor_dam no flow major_dam no flow moderateclear minor_dam clear major_dam no flow minor_dam no flow undamagec no flow undamagec no flow	none none none none none none none none	clear clear clear clear clear clear no flow no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none	collapsed behind dog behind fend plastic under bridg under bridg	NA 233 188 NA 2 NA 127 NA
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130	42.43956-73.240884 none 42.430276-73.240630 none 42.430524-73.240095 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.429602-73.238426 none 42.434774-73.305255 none 42.434774-73.305255 none 42.434774-73.305205 none 42.434774-773.305205 none	16 14 24 24 4 16 4 12	concrete concrete metal concrete other concrete concrete metal concrete metal concrete concrete	minor_dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow minor_dam of flow undamage(no flow undamage(no flow undamage(no flow undamage(no flow undamage(no flow	none none none none none none none none	clear clear clear clear clear clear no flow no flow no flow no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none	collapsed behind dog behind fend plastic under bridg under bridg under bridg under bridg	NA 233 188 NA 2 NA 127 NA NA
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120	42.43956-73.240884 none 42.430276:73.240630 none 42.430524:73.240095 none 42.430717:73.239972 minor 42.430047:73.238515 moderate 42.43962:73.238426 none 42.434774:73.305255 none 42.434774:73.305255 none 42.434776:73.30520	16 14 24 24 4 16 4 12 4	concrete concrete metal concrete other concrete concrete metal concrete	minor_dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow minor_dam no flow undamaged no flow undamaged no flow undamaged no flow undamaged no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none	collapsed behind dog behind fend plastic under bridg under bridg under bridg	NA 233 188 NA 2 NA 127 NA NA NA
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130 SW140	42.430956-73.240884 none 42.430276-73.240630 none 42.430524-73.240095 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.43962-73.238426 none 42.434774-73.305255 none 42.434778-73.305255 none 42.434794-73.3052	16 14 24 24 4 16 4 12 4 4	concrete concrete metal concrete other concrete metal concrete concrete metal concrete concrete concrete	minor dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow undamagec co flow undamagec co flow undamagec co flow undamagec clear	none none none none none none none none	clear clear clear clear clear clear clear no flow no flow no flow no flow no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none none	collapsed behind dog behind fen plastic under bridg under bridg under bridg under bridg under bridg	NA 233 188 NA 2 NA 127 NA NA NA NA
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130 SW140 SW145	42.430956-73.240884 none 42.430276-73.240095 none 42.430524-73.240095 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.439047-73.236187 none 42.434774-73.305255 none 42.434776-73.305205 none 42.434774-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none	16 14 24 24 4 16 4 12 4 4 4 4 36	concrete concrete metal concrete other concrete metal concrete metal concrete concrete concrete concrete metal	minor dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow undamage(no flow undama	none none none none none none none none	clear clear clear clear clear clear no flow no flow no flow no flow no flow clear	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none none fish beavers, wa	collapsed behind dog behind fend plastic under bridg under bridg under bridg under bridg under bridg under bridg	NA 233 188 NA 2 NA 127 NA NA NA NA 193 206
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130 SW140 SW145 SW146 SW150	42.429956-73.240884 none 42.430276-73.240636 none 42.430524-73.240095 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.439047-73.236187 none 42.434774-73.305255 none 42.434778-73.305205 none 42.434793-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.436902-73.300747 none 42.436802-73.300747 none	16 14 24 24 4 16 4 12 4 4 4 4 36 18	concrete concrete metal concrete other concrete metal concrete concrete metal concrete metal metal concrete	minor dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow undamagec clear minor_dam no flow undamagec no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow no flow no flow flow no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none none fish beavers, wa fish and be	collapsed behind dog behind fend plastic under bridg under bridg under bridg under bridg under bridg under dens under dens under bridg	NA 233 188 NA 2 NA 127 NA NA NA NA 193 206
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130 SW140 SW145 SW146 SW146 SW150 SW160	42.430276: -73.240884 none 42.430276: -73.24063C none 42.430717: -73.239972 minor 42.430477: -73.23815 moderate 42.43094: -73.23815 moderate 42.43094: -73.23815 mode 42.4315994: -73.23817 none 42.43474: -73.30525 none 42.434794: -73.30520 none 42.434794: -73.30520 none 42.434781: -73.305102 none 42.434594: -73.30520 none 42.434594: -73.30520 none 42.434594: -73.30520 none 42.434594: -73.30520 none 42.435920 none 42.43590 none 42.43590 none 42.43590 none 42.43590 none	16 14 24 24 4 16 4 12 4 4 4 4 36 18 2	concrete concrete metal concrete concrete metal concrete metal concrete concrete metal metal concrete concrete metal metal concrete concrete	minor dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow undamagec no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none fish beavers, wa fish and be beaver	collapsed behind dog behind fend plastic under bridg under bridg under bridg under bridg probably a under dens under bridg	NA 233 188 NA 2 NA 127 NA NA NA 193 206 NA 117
MS190 MS200 MS210 MS210 MS240 SW100 SW110 SW120 SW130 SW140 SW145 SW146 SW150 SW150 SW160 SW170	42.43956-73.240884 none 42.430276-73.240636 none 42.430277-73.240636 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.43504-73.236187 none 42.415994-73.236187 none 42.43474-73.30525 none 42.434794-73.305205 none 42.434781-73.305205 none 42.434781-73.305205 none 42.434794-73.305234 none 42.435224-73.301426 heavy 42.436883-73.302196 none 42.438483-73.302196 none 42.436099-73.300686 none 42.440509-73.300686 none 42.430506-73.300686 none	16 14 24 24 4 16 4 12 4 4 36 18 2 18	concrete concrete other concrete other concrete metal concrete concrete concrete concrete concrete concrete metal metal concrete concrete other	minor dari no flow major_dari no flow moderate_clear minor_dariclear major_dari no flow undamaged clear minor_dari no flow undamaged no flow najor_dari no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow no flow no flow no flow clear none no flow no flow clear	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none fish beavers, wa fish and be beaver none	collapsed behind dog behind fend plastic under bridg under bridg under bridg under bridg probably a under dens under bridg	NA 233 188 NA 2 NA 127 NA NA 193 206 NA 117 NA
MS190 MS200 MS210 MS210 MS240 SW100 SW110 SW120 SW130 SW140 SW145 SW146 SW150 SW160 SW160 SW170 SW180	42.429956-73.240884 none 42.430276-73.240636 none 42.430276-73.240695 none 42.430717-73.239972 minor 42.430047-73.239972 minor 42.430047-73.238515 moderate 42.436902-73.238426 none 42.434774-73.305255 none 42.434774-73.305205 none 42.434793-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.434794-73.305205 none 42.436902-73.300747 none 42.436802-73.300747 none 42.436802-73.300686 none 42.440581-73.300686 none 42.440681-73.300364 none 42.440181-73.30086 none	16 14 24 24 4 16 4 12 4 4 4 36 18 2 18 9	concrete concrete metal concrete concrete metal concrete concrete concrete concrete concrete concrete concrete concrete concrete metal concrete concrete concrete metal concrete concrete concrete concrete metal concrete	minor_dam no flow major_dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow minor_dam no flow undamagec clear minor_dam no flow undamagec no flow major_dam no flow minor_dam no flow	none none none none none none none none	clear clear clear clear clear clear no flow no flow no flow of flow clear none no flow no flow clear none	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none fish beavers, wa fish and be beaver none beaver	collapsed behind dog behind fen plastic under bridg volumer dens under dens under bridg	NA 233 188 NA 2 NA 127 NA NA 1193 206 NA 117 NA NA
MS190 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130 SW145 SW146 SW145 SW146 SW150 SW170 SW170 SW170 SW180	42.430276; -73.240884 none 42.430276; -73.240630 none 42.430524; -73.240095 none 42.430717; -73.239972 minor 42.430747; -73.238515 moderate 42.436904; -73.236187 none 42.435994; -73.236187 none 42.434774; -73.305255 none 42.434776; -73.305205 none 42.434774; -73.305234 none 42.434781; -73.305102 none 42.434581; -73.305102 none 42.435824; -73.305102 none 42.43583; -73.305105 none 42.440681; -73.30747 none 42.440681; -73.300364 none 42.440681; -73.300364 none 42.441134; -73.299085 none 42.441134; -73.299085 none	16 14 24 24 4 16 4 12 4 4 4 36 18 2 18 9 8 8 48	concrete concrete metal concrete metal concrete	minor dari no flow major_dari no flow moderate_clear minor_dari no flow minor_dari no flow undamaged clear	none none none none none none none none	clear clear clear clear clear clear no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none none tone fish beavers, wi fish and be beaver none beaver	collapsed behind dog behind fen plastic under bridg under dens under dens under dens under to bridg VCP, broken next to bric MATERIAL	NA 233 188 NA 2 NA 127 NA NA NA 193 206 NA 117 NA NA 117 NA NA 118
M5190 M5200 M5200 M5210 M5230 M5240 SW100 SW110 SW120 SW140 SW145 SW146 SW145 SW170 SW170 SW170 SW180 SW180 SW188 SW186 SW186 SW186	42.429956-73.240884 none 42.430276-73.240636 none 42.430276-73.240636 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.43094-73.236187 none 42.435994-73.236187 none 42.434793-73.305205 none 42.434776-73.305205 none 42.434781-73.305205 none 42.434781-73.305205 none 42.434781-73.305205 none 42.434881-73.305205 none 42.436883-73.301426 none 42.440509-73.300686 none 42.441344-73.299085 none 42.441344-73.299085 none 42.441386-73.297252 heavy 42.440866-73.297252 heavy	16 14 24 24 4 16 4 12 4 4 4 4 18 9 18 9 8 8 4 48 12	concrete concrete metal concrete onther concrete onther metal concrete concrete metal concrete metal	minor dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow undamagec no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none none fish beavers, wi fish and be beaver none beaver none	collapsed behind dog behind fen plastic under bridg volumer dens under dens under bridg	NA 233 188 NA 2 NA 127 NA NA 193 206 NA 117 NA NA 117 NA NA 117 NA NA 1186 160
MS190 MS200 MS200 MS210 MS230 MS240 SW100 SW110 SW120 SW130 SW146 SW150 SW146 SW146 SW150 SW166 SW170 SW180 SW186 SW190	42.430276; -73.240884 none 42.430276; -73.240630 none 42.430717; -73.239972 minor 42.430717; -73.238915 moderate 42.43094; -73.23815 moderate 42.43094; -73.23815 moderate 42.435994; -73.23817 none 42.434794; -73.305168 none 42.434794; -73.30525 none 42.434794; -73.30520 none 42.434794; -73.305102 none 42.434784; -73.305102 none 42.434594; -73.305102 none 42.435802; -73.300747 none 42.440681; -73.300364 none 42.441086; -73.29525 none 42.441886; -73.29725 none 42.441086; -73.295175 none	16 14 24 4 4 16 18 2 18 9 8 48 12 24	concrete concrete metal concrete other concrete concrete concrete metal metal metal concrete	minor dar no flow major_dar no flow moderate_clear minor_dar clear major_dar no flow undamagec clear minor_dar no flow undamagec clear minor_dar no flow undamagec no flow undamagec no flow undamagec no flow undamagec clear minor_dar no flow undamagec no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish fish mink none none none fish beavers, w fish and be beaver none beaver none beaver none beaver none	collapsed behind dog behind fenc plastic under bridg under bridg under bridg under bridg probably a under dens under bridg probably a under dens under bridg probably a to the fence to bei MATERIAL behind buil	NA 233 188 NA 2 NA 127 NA NA 193 206 NA 117 NA NA 1186 186 1160 NA
M5190 M5200 M5200 M5210 M5230 M5240 SW100 SW110 SW120 SW140 SW145 SW146 SW145 SW170 SW170 SW170 SW180 SW180 SW188 SW186 SW186 SW186	42.429956-73.240884 none 42.430276-73.240636 none 42.430276-73.240636 none 42.430717-73.239972 minor 42.430047-73.238515 moderate 42.43094-73.236187 none 42.435994-73.236187 none 42.434793-73.305205 none 42.434776-73.305205 none 42.434781-73.305205 none 42.434781-73.305205 none 42.434781-73.305205 none 42.434881-73.305205 none 42.436883-73.301426 none 42.440509-73.300686 none 42.441344-73.299085 none 42.441344-73.299085 none 42.441386-73.297252 heavy 42.440866-73.297252 heavy	16 14 24 24 4 16 4 12 4 4 4 4 18 9 18 9 8 8 4 48 12	concrete concrete metal concrete onther concrete onther metal concrete concrete metal concrete metal	minor dam no flow major_dam no flow moderate_clear minor_dam clear major_dam no flow undamagec no flow	none none none none none none none none	clear clear clear clear clear clear clear no flow	none none none none none none none none	none none none none none none none none	fish fish fish fish fish fish mink none none none fish beavers, wi fish and be beaver none beaver none	collapsed behind dog behind fen plastic under bridg under dens under dens under dens under to bridg VCP, broken next to bric MATERIAL	NA 233 188 NA 2 NA 127 NA NA 193 206 NA 117 NA NA 186 160 NA 304

SW215			18	metal	nimor_dam no flow	none	no flow	none		fish		184
SW220 SW230		-73.287777 none -73.287696 none	12 3	metal metal	major_dam no flow major_dam no flow	none	no flow	none	none	none fish and be	really bad : really bad :	
SW240			12	other	undamage no flow	none	no flow	none	none	none	plastic mat	
SW250			6.5	metal	undamage no flow	none	no flow	none		fish	sticking ou	
SW260	42.439953	-73.28081( none	24	other	undamage(no flow	none	no flow	none	none	fish	plastic mat	NA
SW270			5	concrete	undamage no flow	none	no flow	none	none	fish	part of brid	
SW280 SW290		-73.280763 none	12	metal	undamage(no flow	none	no flow	none			part of brid	
SW290 SW300		-73.28080( none -73.280278 none	12 12	other	undamage no flow undamage no flow	none	no flow	none	none	fish none	ACP, part (	252 302
SW310		-73.277767 none	18	concrete	undamage(no flow	none	no flow	none	none	fish	under foot	
SW320			15	metal	undamage no flow	none	no flow	none	none	none	under foot	
SW330			5	metal	undamage(no flow	none	no flow	none	none	fish	looks clogg	
SW340	42.440342		5	metal	undamage(no flow	none	no flow	none	none	fish	part of brid	NA
SW350			4	metal	minor_dam no flow	none	no flow	none		fish	part of brid	
SW360			4	metal	undamage no flow	none	no flow	none			part of brid	
SW370 WB100			12 36	metal concrete	minor_dam no flow undamage clear	none sewage	no flow clear	none	none excessive	fish fish	part of brid lots of flow	
WB1000			48	metal	moderate_no flow	musty	no flow	none	none	11311	maybe a ci	
WB1005			36	metal	major_damno flow	none	no flow	none		fish waterfo	-	203
WB1006	42.459015	-73.259971 moderate	36	metal	moderate_clear	none	clear	none	none	fish waterfo	hidden dee	101
WB1010			36	concrete	undamage no flow	none	no flow	none	none	fish	submerged	
WB1020			24	concrete	undamage(no flow	musty	clear	none	none		submerged	
WB1030		-73.260737 none	12	concrete	undamage(no flow	none	no flow	none	none	Calabia ta		223
WB1040 WB1044			48 36	concrete	minor_dam none minor_dam clear	none	no flow clear	none	none sewage_fu	fish birds		14 NA
WB1044			24	metal	major_dam no flow	none	clear	none	none		submerged	
WB1050			36	metal	major_damno flow	none	clear	none	none		submerged	
WB1060		-73.26114( none	18	concrete	major_dam no flow	none	clear	none	sewage_fu		next to larg	87
WB1070			48	concrete	undamageclear	sulfide	clear	none	sewage_fu		mist, sound	
WB1075			24	metal	major_dam clear	none	clear	none	none		submerged	
WB1080			6	other	undamage no flow	none	clear	none	none	fish	plastic mat	
WB1090 WB110			6 5	other metal	undamage no flow minor_dam no flow	none	clear no flow	none		fish fish	VCP mater part of brid	
WB1100			4	other	undamage no flow	none	clear	none		fish	VCP mater	
WB1110			24	metal	minor_dam clear	musty	clear	none	none	fish		147
WB1120			36	concrete	moderate_ no flow	musty	no flow	none	none	fish		146
WB1130			15	metal	undamage(no flow	musty	no flow	none	none	fish	NO MATCI	
WB1140			4	metal	undamage(no flow	none	clear	none	none		clogged by	
WB1150			6	metal	undamage no flow	none	no flow	none	none		8ft up on a	
WB1160 WB1170			3	metal metal	other no flow undamage no flow	none	clear	none	none		clogged by	NA NA
WB1170			4	concrete	minor_dam no flow	none	clear	none	none			NA
WB1190			4	concrete	minor_dam no flow	none	clear	none	none			NA
WB120	42.483918	-73.24618( none	5	metal	minor_dam no flow	none	no flow	none	none	fish	part of brid	NA
WB1200			3	metal	undamage(no flow	none	clear	none	none			NA
WB1210			4	concrete	minor_dam no flow	none	clear	none	none			NA
WB1220			4	concrete	other no flow	none	clear	none	none		partially clo	
WB1230 WB1240			4 3	concrete metal	other no flow undamage no flow	none	clear	none	none		partially clo	NA NA
WB1250			3	metal	other no flow	none	clear	none	none		clogged by	
WB1270			12	metal	major_damno flow	none	clear	none	none		metal pipe	
WB1280	42.450441	-73.263223 none	36	metal	major_dam no flow	none	clear	none	none		submerged	79
WB1290		-73.263065 none	12	concrete	major_dam no flow	none	clear	none	none		caving in	NA
WB130			5	metal	minor_dam no flow	none	no flow	none	none	fish	part of brid	
WB1300			36	metal	moderate_grey	sewage	clear	none	sewage_fu		flow seeps	
WB1310 WB1320		-73.263363 none -73.263212 none	12 48	metal concrete	other no flow	none	clear	none	none		next to WE submerged	
WB1330		-73.263087 none	12	concrete	other no flow	none	clear	none	none		submerged	
WB1340		-73.264158 none	48	concrete	other no flow	none	clear	none	none	fish	submerged	
WB1350	42.446295	-73.262943 none	10	other	moderate_no flow	none	clear	none	none		VCP	213
WB1360		-73.262869 none	4	concrete	undamage(no flow	none	clear	none	none			NA
WB1370			4	concrete	undamage(no flow	none	clear	none	none			NA
WB1380 WB1390			4	concrete	undamage no flow undamage clear	none	clear	none	none			NA NA
WB1390 WB140			5	concrete metal	minor_dam no flow	sewage none	clear no flow	none	sewage_fu none		next to larg part of brid	
WB1400			4	concrete	undamage clear	sewage	clear	none	sewage_fu		next to, wh	
WB1410			4	concrete	undamage(no flow	none	clear	none	none			NA
WB1420			4	concrete	undamage(no flow	none	clear	none	none			NA
WB1430			24	concrete	undamage no flow	none	clear	none	none		flat bottom	
WB1440 WB1450			60 42	concrete metal	undamage clear minor_dam clear	none	clear	none	excessive sewage_fu		big outfall o	128 143
WB1460		-73.26091£none	12	metal	minor_dam no flow	none	clear	none	none			NA
WB1470		-73.261078 none	12	metal	moderate_no flow	none	clear	none	none			NA
WB1480			12	concrete	minor_dam no flow	none	clear	none	none			NA
WB1490			4	metal	undamage no flow	none	clear	none	none		part of brid	
WB150			2	metal	minor_dam clear	none	clear	none	none	fish	part of brid	
WB1500 WB1510			4	metal	undamage no flow minor damno flow	none	clear	none	none		part of brid	
WB1510 WB1520			4	metal metal	minor_dam no flow	none	clear	none	none		part of brid part of brid	
WB1520			20	metal	moderate_no flow	none	clear	none	none		part of brid	
WB1540			4	metal	moderate_no flow	none	clear	none	none		part of brid	
WB1550	42.443893	-73.260817 none	20	metal	minor_dam no flow	none	clear	none	none		part of brid	
WB1560			4	metal	minor_dam no flow	musty	clear	none	none		part of brid	
WB1570			12	concrete	undamage no flow	none	clear	none	none		next to brid	
WB1580 WB1590		-73.260601 none -73.260738 none	24 12	metal	major_dam no flow	none	clear	none	none		widespread	
WB1590 WB160			12 5	concrete metal	minor_dam no flow minor_dam no flow	none	clear no flow	none	none	fish	part of rock part of brid	
WB1600			60	concrete	minor_dam clear	musty	clear	none	excessive		alongside (	
WB1605		-73.260022 none	12	other	moderate_no flow	musty	no flow	none	none		VCP mater	
WB1610			12	concrete	undamage(no flow	none	clear	none	none			282
WB1620			18	metal	minor_dam no flow	none	clear	none	none			174
WB1630			6	metal	undamage(no flow	none	clear	none	none			NA
WB1640			16	metal	minor_dam no flow	none	no flow	none	none	fish waterfo	at very end	
WB1650		-73.25720( none	12	concrete	major_dam no flow	none	clear	none	none		next to brid	
WB1660 WB1670		-73.256699 none -73.256928 none	12 12	metal metal	major_dam no flow major_dam no flow	none	clear	none	none		part of brid part of brid	
		-73.25092611011e	12	metal	major_damno flow	none	clear	none	none			NA
WB1680	42.436435	-73.23703CHOHE	12									
			24	metal	minor_dam no flow	none	clear	none	none		next to brid	