

Bowman Creek Flow Monitoring

Investigator: Maggie Gipson

Date: 11-12-15

Weather Conditions (including temp.): Cloudy, light showers, 50°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	2:01pm	Strong Flow	Clear water flowing from culvert
M2 Katherine Ave SE	2:08pm	No Flow	Stream bed moist, but firm ground
M3 Jasmine Ave SE	2:17pm	No Flow	Stream bed moist, but firm ground
M4 Driveway	2:34pm	No Flow	Dry stream channel, contained leaf and stick debris
M5 Roadside APN 3221059026	2:29pm	No Flow	Dry stream channel, contained leaf and stick debris
M6 Mine Property	3:00pm	Flow	Channel had moving water

Investigator: Maggie Gipson

Date: 11-19-15

Weather Conditions (including temp.): Mostly Cloudy, 43°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	8:55am	Strong/ High flow	Water Clear, lots flowing form culvert
M2 Katherine Ave SE	9:03am	Flow, fast	Stream channel full, flowing, clear, some white foam
M3 Jasmine Ave SE	9:10am	Flow, slow	Channel full, water clear
M4 Driveway	9:15am	No Flow	Channel damp (saw one puddle)
M5 Roadside APN 3221059026	9:19am	No Flow	Channel damp (saw one puddle)
M6 Mine Property	9:30am	Flow, fast	Clear water flowing into culvert

Investigator: Maggie Gipson

Date: 11-25-15

Weather Conditions (including temp.): Sunny, 30°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	8:54am	Flow, fast	Water Clear, some white foam present
M2 Katherine Ave SE	9:02am	Flow	Moving clear water, white foam present
M3 Jasmine Ave SE	9:06am	Flow, not moving	Channel full, still, clear water
M4 Driveway	9:11am	No Flow	Stream channel dry
M5 Roadside APN 3221059026	9:19am	No Flow	Stream channel dry
M6 Mine Property	9:27am	Flow, fast	Clear water flowing into culvert

Investigator: Maggie Gipson

Date: 12-2-15

Weather Conditions (including temp.): Cloudy, 43°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:19am	Flow, fast	Clear water, some white bubbles/foam
M2 Katherine Ave SE	9:24am	Flow	Clear, moving water, some foam present
M3 Jasmine Ave SE	9:30am	Flow	Clear water, not moving
M4 Driveway	9:36am	No Flow	Channel damp from rain
M5 Roadside APN 3221059026	9:39am	No Flow	Channel damp from rain
M6 Mine Property	9:49am	Flow, fast	Clear water moving fast

Supplementary Observations

Investigator: Christina Jarvis

Date: 12-8-15

Weather Conditions (including temp.): Rainy, 57.4°F

Location	Time	Flow Conditions	Observations
S1 Fassbind Property APN 3221059025	2:30pm	Flow, fast	Channel dry up to the outlet of storm water culvert coming from the south under Kersey Way SE. Strong flow is moderately turbid from culvert into pond; outlet of culvert is submerged. Water continues to flow downstream in Bowman creek channel from this point.

Investigator: Maggie Gipson

Date: 12-9-15

Weather Conditions (including temp.): Cloudy, 48°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	8:55am	Flow, fast	High flow, fast moving, clear water
M2 Katherine Ave SE	9:01am	Flow, fast	Flowing, ditch full, clear water
M3 Jasmine Ave SE	9:06am	Flow	Channel full, clear water
M4 Driveway	9:10am	Flow, fast	High flows, fast clear water
M5 Roadside APN 3221059026	9:14am	Flow, fast	Fast flowing, clear water
M6 Mine Property	9:25am	Flow, fast	Fast moving murky brown water

Investigator: Maggie Gipson

Date: 12-16-15

Weather Conditions (including temp.): Mostly Cloudy, 37°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	8:54am	Flow	Clear moving water, some foam present
M2 Katherine Ave SE	8:59am	Flow	Clear moving water, some foam present
M3 Jasmine Ave SE	9:05am	Flow	Clear water in channel, water not moving
M4 Driveway	9:09am	No Flow	Channel damp, leaf debris in channel
M5 Roadside APN 3221059026	9:12am	No Flow	Channel damp
M6 Mine Property	9:21am	Flow	Clear moving water, some foam present

Investigator: Maggie Gipson

Date: 12-22-15

Weather Conditions (including temp.): Mostly Cloudy, 39°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:21am	Flow	Fast moving, clear water
M2 Katherine Ave SE	9:28am	Flow	Fast moving, clear water
M3 Jasmine Ave SE	9:32am	Flow	Slow moving, clear water
M4 Driveway	9:49am	Flow	Clear moving water
M5 Roadside APN 3221059026	9:53am	Flow	Flow a slight trickle

M6 Mine Property	10:16am	Flow	Fast moving, murky water, foam present
S1 Fassbind Property APN 3221059025	9:45am	Flow	Creek channel dry, flow coming from side/hill channel, pond full

Investigator: Maggie Gipson

Date: 12-30-15

Weather Conditions (including temp.): Partly Cloudy, 26°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:00am	Flow	Fast moving, clear water, some foam present
M2 Katherine Ave SE	9:06am	Flow	Moving, clear water
M3 Jasmine Ave SE	9:09am	Flow	Still, clear water
M4 Driveway	9:16am	No Flow	Channel dry
M5 Roadside APN 3221059026	9:19am	No Flow	Channel dry
M6 Mine Property	9:30am	Flow	Clear, moving water
S1 Fassbind Property APN 3221059025	9:14am	Flow	Creek channel dry, flow coming from side/hill channel, pond full
S2 Irene Ave SE	9:14am	No Flow	Flow stopped before this point

Investigator: Maggie Gipson

Date: 1-6-16

Weather Conditions (including temp.): Partly Cloudy, 35°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:31am	Flow	Fast moving, clear water, some foam present
M2 Katherine Ave SE	9:36am	Flow	Moving, clear water, some foam present
M3 Jasmine Ave SE	9:43am	Flow	Still, clear water
M4 Driveway	9:55am	No Flow	Channel dry
M5 Roadside APN 3221059026	9:58am	No Flow	Channel dry
M6 Mine Property	10:09am	Flow	Clear, moving water
S1 Fassbind Property APN 3221059025	9:51am	Flow	Creek channel dry, flow coming from side/hill channel
S2 Irene Ave SE	9:46am	No Flow	Channel dry, flow stopped before this point

Investigator: Maggie Gipson

Date: 1-13-16

Weather Conditions (including temp.): Raining, 46°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	8:59am	Flow	Fast moving, clear water, some foam present
M2 Katherine Ave SE	9:09am	Flow	Moving, clear water, some foam present
M3 Jasmine Ave SE	9:15am	Flow	Slow moving, clear water
M4 Driveway	9:23am	No Flow	Channel dry
M5 Roadside APN 3221059026	9:27am	No Flow	Channel dry
M6 Mine Property	9:37am	Flow	Clear, moving water, some foam present

S1 Fassbind Property APN 3221059025	9:21am	Flow	Creek channel dry, flow coming from side/hill channel, not Bowman
S2 Irene Ave SE	9:19am	No Flow	Channel dry, flow stopped before this point

Investigator: Maggie Gipson

Date: 1-20-16

Weather Conditions (including temp.): Raining, 43°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:26am	Flow	Clear, flowing water, some foam present
M2 Katherine Ave SE	9:33am	Flow	Clear, flowing water, some foam present
M3 Jasmine Ave SE	9:40am	Flow	Slow moving, clear water
M4 Driveway	9:56am	No Flow	Channel damp, but no flow
M5 Roadside APN 3221059026	10:00am	No Flow	Channel damp, but no flow
M6 Mine Property	10:10am	Flow	Fast moving, clear water, some foam present
S1 Fassbind Property APN 3221059025	9:54am	Flow	Creek channel dry, flow coming from side/hill channel, not Bowman
S2 Irene Ave SE	9:46am	No Flow	Channel dry, flow stopped just before this point

Investigator: Maggie Gipson

Date: 1-27-16

Weather Conditions (including temp.): Cloudy, 50°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:17am	Flow	Clear, flowing water, some foam present
M2 Katherine Ave SE	9:23am	Flow	Clear, flowing water, some foam present
M3 Jasmine Ave SE	9:28am	Flow	Slow moving, clear water
M4 Driveway	9:37am	No Flow	Channel damp, but no flow
M5 Roadside APN 3221059026	9:41am	No Flow	Channel damp, but no flow
M6 Mine Property	9:54am	Flow	Flowing water, some foam present
S1 Fassbind Property APN 3221059025	9:35am	Flow	Creek channel dry, flow coming from side/hill channel, not Bowman
S2 Irene Ave SE	9:33am	No Flow	Channel had some standing water on one side of the driveway, no flow/dried up on the other side of driveway.

Investigator: Maggie Gipson

Date: 2-3-16

Weather Conditions (including temp.): Cloudy, 41°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	9:26am	Flow	Clear, flowing water
M2 Katherine Ave SE	9:31am	Flow	Clear, flowing water, some foam present
M3 Jasmine Ave SE	9:36am	Flow	Still, clear water
M4 Driveway	9:44am	No Flow	Channel damp, but no flow
M5 Roadside APN 3221059026	9:47am	No Flow	Channel damp, but no flow

M6 Mine Property	9:58am	Flow	Flowing water, slightly murky brown
S1 Fassbind Property APN 3221059025	9:43am	Flow	Creek channel dry, slight trickle coming from side/hill channel, not Bowman
S2 Irene Ave SE	9:40am	No Flow	Flow stops before this point along the road in the ditch.

Investigator: Maggie Gipson

Date: 2-10-16

Weather Conditions (including temp.): Rainy, 48°F

Location	Time	Flow Conditions	Observations
M1 Randall Ave SE	10:55am	Flow	Clear, flowing water
M2 Katherine Ave SE	11:03am	Flow	Clear, flowing water, some foam present
M3 Jasmine Ave SE	11:10am	Flow	Clear, flowing water
M4 Driveway	11:23am	No Flow	Channel damp, but no flow
M5 Roadside APN 3221059026	11:28am	No Flow	Channel damp, but no flow
M6 Mine Property	11:38am	Flow	Clear, Flowing water, but flow is less than normal
S1 Fassbind Property APN 3221059025	11:20am	Flow	Flow not from Bowman, coming from side/hill channel, Bowman Creek channel dry
S2 Irene Ave SE	11:16am	No Flow	Flow stops before this point along the road in the ditch.

Location M1 (Randall Ave SE)

11-12-15



11-19-15



11-25-15



12-2-15



12-9-15



12-16-15



12-22-15



12-30-15



1-6-16



1-13-16

1-20-16

1-27-16



2-3-16



2-10-16



Location M2 (Katherine Ave SE)

11-12-15



11-19-15



11-25-15



12-2-15



12-9-15



12-16-15



12-22-15



12-30-15



1-6-16



1-13-16

1-20-16

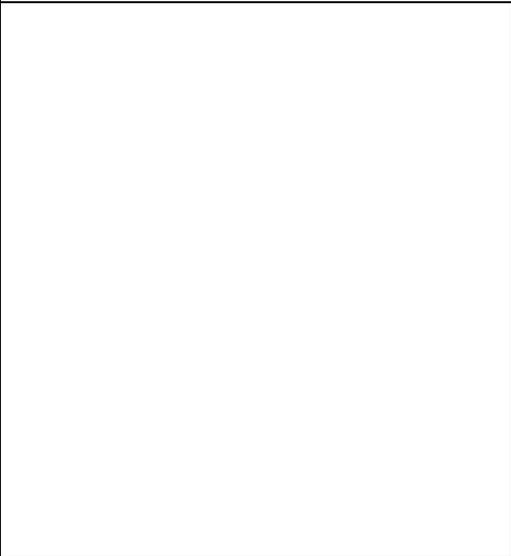
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2-3-16



2-10-16



Location M3 (Jasmine Ave SE)

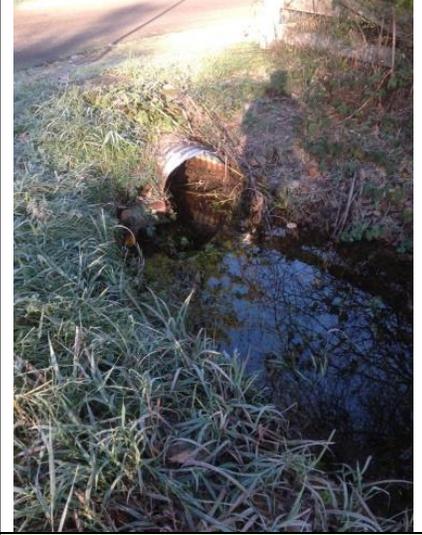
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11-19-15



11-25-15



12-2-15



12-9-15



12-16-15



12-22-15



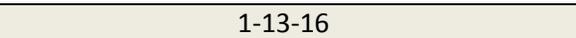
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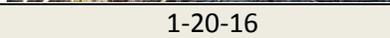
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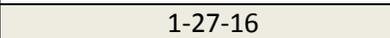
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1-20-16



1-27-16





2-3-16



2-10-16



Location M4 (Driveway)

11-12-15



11-19-15



11-25-15



12-2-15



12-9-15



12-16-15



12-22-15



12-30-15



1-6-16



1-13-16

1-20-16

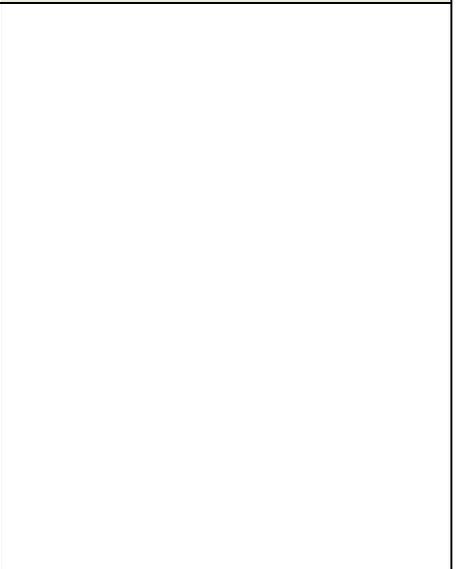
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2-10-16



Location M5 (Roadside APN 3221059026)

11-12-15



11-19-15



11-25-15



12-2-15



12-9-15



12-16-15



12-22-15



12-30-15



1-6-16



1-13-16

1-20-16

1-27-16



2-3-16



2-10-16



Location M6 (Mine Property)

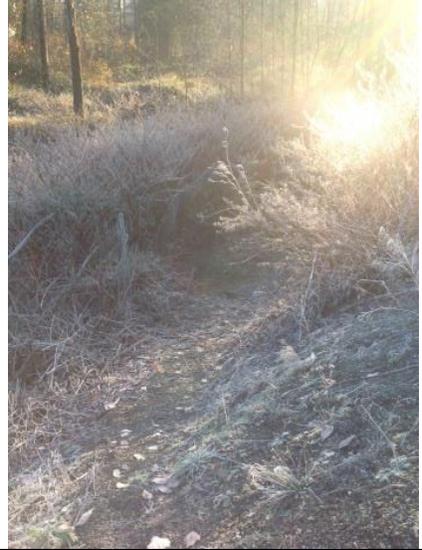
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11-19-15



11-25-15



12-2-15



12-9-15



12-16-15



12-22-15



12-30-15



1-6-16



1-13-16

1-20-16

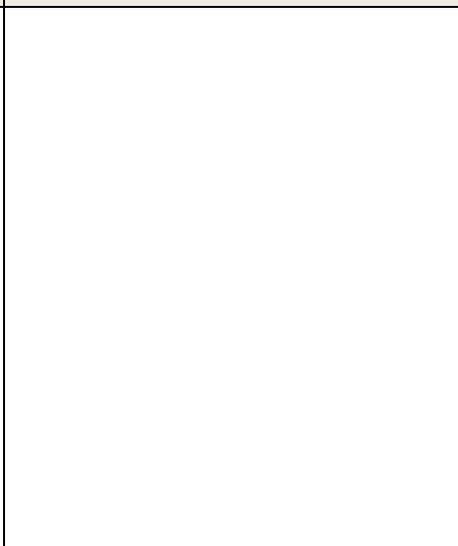
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2-3-16



2-10-16



Location S1 (Fassbind pond)

12-8-15



Input from storm water culvert. Water flowing from the west, traveling under Kersey Way SE, and then discharging into Fassbind pond.



Dry Bowman Creek channel discharging to Fassbind pond. No water from Bowman creek contributing to the pond level.

12-22-15



Input from storm water culvert.



Dry Bowman Creek channel discharging to Fassbind pond.

1-6-16



Fassbind pond.

Input from storm water culvert.
Water flowing from the west,
traveling under Kersey Way SE, and
then discharging into Fassbind pond.

1-13-16



Fassbind pond.

Input from storm water culvert.
Water flowing from the west,
traveling under Kersey Way SE, and
then discharging into Fassbind pond.

1-20-16



Fassbind pond.

Input from storm water culvert.
Water flowing from the west,
traveling under Kersey Way SE, and
then discharging into Fassbind pond.

1-27-16



Fassbind pond.

Input from storm water culvert.
Water flowing from the west,
traveling under Kersey Way SE, and
then discharging into Fassbind pond.

2-3-16



Fassbind pond.

Input from storm water culvert.
Water flowing from the west,
traveling under Kersey Way SE, and
then discharging into Fassbind pond.

2-10-16



Fassbind pond.

Input from storm water culvert.
Water flowing from the west,
traveling under Kersey Way SE, and
then discharging into Fassbind pond.

Location S2 (Irene Ave SE)

1-6-16

Dry Bowman Creek channel



1-13-16

Dry Bowman Creek channel



1-20-16

Flow stops around here



Dry Bowman Creek channel



1-27-16

Some puddles of standing water in Bowman Creek channel.



Flow stops around here



2-3-16

Dry Bowman Creek channel



2-10-16

Dry Bowman Creek channel

