

Land and Water Management Division

Flood Discharge Request Record 94-03-0710

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Discharge Information

Watercourse: HICKORY CREEK

Location: 1200 feet downstream of Lemon
Creek Road

Basin Name: 34 - St. Joseph

County: Berrien

Township: Baroda

Quad Name: Baroda

Quad ID: W17NW

Requested By: Roger Clark (DEQ-LWM)

Request Type: Subdivision/condo

File Number: 94-03-0710

Drainage Area: 20.6 mi²

Contributing Area: 20.35 mi²

Tn/Rng/Sec: 06S19W/11

Latitude: 41.96045874

Longitude: -86.49028286

Received Date: 3/17/1994

Issued Date: 4/21/1994

Reference Number: 94-03-0710

Discharge Frequencies:

10%:

2%:

1%: 1550 cfs

0.5%:

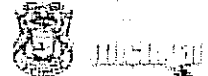
0.2%:

Volume Frequencies:

1%:

0.5%:

Access to the Flood Flow Database is provided as a service to allow you to check the status of your flood flow requests or to view discharges for requests for preliminary design purposes. The discharges values are only valid for the original requestor and for one year after the original request. To obtain discharge information from the Land and Water Management Division's Hydrologic Studies Unit (HSU), a flood flow discharge request form submitted electronically to the HSU. A written or email response to your request will be returned to you and must accompany your permit application.



Land and Water Management Division

Flood Discharge Request Record H-99021

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Discharge Information

Watercourse: HICKORY CREEK

Location: Marrs Road

Basin Name: 34 - St. Joseph

County: Berrien

Township: Baroda

Quad Name: Baroda

Quad ID: W17NW

Requested By: Dan Feldpausch (DEQ-LWM-Floodplains)

Request Type: Floodplain

File Number: H-99021

Drainage Area: 27.5 mi²

Contributing Area: 27.5 mi²

Tn/Rng/Sec: 06S19W/03

Latitude: 41.979167

Longitude: -86.498333

Received Date: 10/20/1998

Issued Date: 12/7/1998

Reference Number:

Discharge Frequencies:

10%:

2%:

1%: 1900 cfs

0.5%:

0.2%:

Volume Frequencies:

1%:

0.5%:

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Land and Water Management Division

Flood Discharge Request Record U20020567

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Discharge Information

Watercourse: HICKORY CREEK

Location: Rocky Weed Road

Basin Name: 34 - St. Joseph

County: Berrien

Township: Lincoln

Quad Name: Bridgman

Quad ID: W16NE

Requested By: In-house

Request Type: FIS

File Number: U20020567

Drainage Area: 29.73 mi²

Contributing Area: 29.42 mi²

Tn/Rng/Sec: 05S19W/33

Latitude: 42.000066

Longitude: -86.519065

Received Date: 9/13/2002

Issued Date: 9/17/2002

Reference Number:

Discharge Frequencies:

10%: 1000 cfs

2%: 1600 cfs

1%: 1800 cfs

0.5%: 2000 cfs

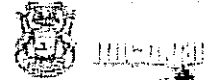
0.2%: 2300 cfs

Volume Frequencies:

1%:

0.5%:

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Land and Water Management Division

Flood Discharge Request Record U20020567-2

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Discharge Information

Watercourse: HICKORY CREEK

Location: 500 feet downstream of Rocky Weed Road

Drainage Area: 34.95 mi²

Basin Name: 34 - St. Joseph

Contributing Area: 34.64 mi²

County: Berrien

Tn/Rng/Sec: 05S19W/28

Township: Lincoln

Latitude: 42.001068

Quad Name: Stevensville

Longitude: -86.519086

Quad ID: V16SE

Requested By: In-house

Received Date: 9/13/2002

Request Type: FIS

Issued Date: 9/17/2002

File Number: U20020567-2

Reference Number:

Discharge Frequencies:

- 10%: 1200 cfs
- 2%: 1875 cfs
- 1%: 2130 cfs
- 0.5%: 2400 cfs
- 0.2%: 2675 cfs

Volume Frequencies:

- 1%:
- 0.5%:

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Land and Water Management Division

Flood Discharge Request Record U20020567-1

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Discharge Information

Watercourse: HICKORY CREEK

Location: John Beers Road

Basin Name: 34 - St. Joseph

County: Berrien

Township: Lincoln

Quad Name: Stevensville

Quad ID: V16SE

Requested By: In-house

Request Type: FIS

File Number: U20020567-1

Drainage Area: 35.83 mi²

Contributing Area: 35.52 mi²

Tn/Rng/Sec: 05S19W/28

Latitude: 42.014468

Longitude: -86.516641

Received Date: 9/13/2002

Issued Date: 9/17/2002

Reference Number:

Discharge Frequencies:

10%: 1200 cfs

2%: 1865 cfs

1%: 2120 cfs

0.5%: 2400 cfs

0.2%: 2665 cfs

Volume Frequencies:

1%:

0.5%:

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Appendix D

Summary of Documented History



Hickory Creek 1959 Sub-File:

Date	History
	Undated map of drainage district.
2/23/57	Chapter 8 Petition.
6/7/57	Listing of property owners in maintenance sub-district.
11/3/57	Order of Necessity for maintenance.
9/3/59	Signed 1 st Order of Determination (otherwise blank).
9/30/59	Signed Final Order of Determination (otherwise blank).
	Assessment Roll for Cleanout.
10/26/59	Contract after letting.
	Undated minutes from "Drain Commissioner" meeting.

1962 Sub-File:

Date	History
11/28/61	Chapter 8 petitions signed by property owners.
7/13/62	Petition of Appointment of BOD.
8/6/62	Order of Necessity.
8/16/62	First Order of Determination.
	R&C description to be found in Book #40, pages 642 & 643.
2/14/63	Final Order of Determination.
	Drainage district boundaries can be found at Books #57 & 58, pages 445 - 798 & pages 1 - 257.

Buchanan Weesaw 1969 Sub-File:

Date	History
8/20/69	Chapter 8 Petition signed by property owners.
1/24/70	Appointment of BOD (Chapter 8).
6/24/70	Order of <u>NO</u> Necessity.
	Maintenance performed (1981!) 1982 assessment documentation in this file!

1973-74 Sub-File:

Date	History
10/1/73	Chapter 8 Petition signed by property owners.
12/20/73	Order of Necessity.
12/21/73	First Order of Determination.
9/17/74	Minutes of Drain Committee meeting approving contract statement says assessment district is for 1975 only.
10/11/74	Final Order of Determination.
2/75	BCDC made memo stating that before any future assessments be made that a comprehensive study of district be performed.

12/16/75	Appeal of Assessments discussion. Refunds based on improper assessment.
1987	Maintenance work by George Palmiter.
12/18/89	Letter to township from S. Bruce stating assessment for cleanouts historically paid at large instead of asking property owners to pay.

Partial 1982 Sub-File:

Date	History
8/5/82	Chapter 8 petition signed by property owners.
7/25/84	Order appointing Merritt Engineering as engineer.
8/15/84	Order of Necessity (Partial).
9/10/84	First Order of Determination (Partial).
	Partial drainage district description.
2/19/85	Partial – Final Order of Determination.
3/25/85	Apportionment of Benefits.
	All A4 large (Order of Necessity only called for a portion of costs to be paid by municipalities).
1897	Release of ROW.

Camelot Relief Branch 1989 Sub-File:

Date	History
9/16/89	Chapter 8 petition signed by property owners for “Hickory Creek” Drain.
9/28/89	Treasurer’s certificate as to taxes paid.
9/28/89	Order appointing engineer.
11/27/89	Order appointing BOD.
	Various notices of BOD meeting.
12/13/89	Order of <u>NO</u> Necessity.

Partial Baroda Township Sub-File 1997-2000:

Date	History
	Misfiled – Original route and course dated 3/18/1896. Final Order of Determination.
3/16/97	Receipt for Funds from LMSWSTA.
7/18/97	Letter from George Palmiter to Spike Bruce re: Inspection of Hickory Creek Drain.
7/25/97	Maintenance invoice.
8/21/97	Letter from Spike Bruce to Lake MI Shoreline Water & Sewage Treatment Authority re: 7/25/97 Invoice.
5/14/98	S. Bruce letter to LMSWSTA re: 7/25/97 Invoice
10/2/98	Letter from L. Merritt to I. DiMaggio re: Review of LMSWSTA plans for Hickory Creek Erosion Protection.
4/16/99	MDEQ permit to LMSWSTA for soil erosion work on Hickory Creek.

4/21/99	Letter from S. Bruce to Lincoln Charter Township re: Soil Erosion Permit.
5/20/99	Receipt from Baroda Township for Hickory Creek maintenance.
5/26/99	Letter from sewer authority attorney to S. Bruce re: Any damage to Hickory Creek from MDEQ permit work.
6/1/99	Letter to sewer authority from S. Bruce withdrawing permit to work in Hickory Creek ROW.
5/22/00	Staff report from MDEQ.
6/28/00	Invoice to S. Bruce from Heyn Development Co. for Hickory Creek excavating work.
7/17/00	Letter to N. Nitz complaining re: Work on Hickory Creek by BCDC.
8/17/00	Invoices from BCDC to Road Commission & Baroda Township for maintenance costs.
9/22/00	Letter from Co. Corp. Counsel to property owner.

Appendix E

Inspection Photographs



DSCF0001



DSCF0004



DSCF0005



DSCF0006



DSCF0007



DSCF0008



DSCF0009



DSCF0010