

South Branch Root River Dye Traces (24 Jul 2009) - 2 Traces

Carbon (Bug) Analysis Results

Trace Inputs:

Dye Input #1: At 17:00, 567.02g **Sulforhodamine B** was poured into the terminal sink downstream of Mystery 1 Cave, in the South Branch of the RootRiver at 23B147 (MN23:B00147, 556,031 E / 4,830,999 N, NAD 83, Zone 15).

Dye Input #2: At 17:48, 563.45g of **Uranine** was poured into the South Branch of the Root River, downstream of the Crayfish/Saxifrage/Seven springs complex, at 23X135 (MN23:X00135, 558,551 E / 4,830,470 N, NAD 83, Zone 15).

KFD Numbers	Field Site	UTMs (NAD 83, Zone 15)		20 Jul - 24 Jul 2009	24 Jul 2009 Dye Input	24 Jul - 28 Jul 2009	28 Jul - 31 Jul 2009	31 Jul - 10 Aug 2009
		Easting	Northing					
MN23:X00139	Vreeman Spring Run (23X139) (previously labeled 23A872)	561,057	4,830,373	nd		<u>Uran</u> (295 σ)	<u>Uran</u> (27 σ)	<u>Uran</u> (12 σ)
MN23:X00140	Vreeman Upstream (23X140)	561,098	4,830,296	Eos * (6 σ)		<u>Uran</u> (313 σ) (diluted)	<u>Uran</u> (18 σ) Eos * (23 σ)	<u>Uran</u> (17 σ) Eos * (30 σ)
MN23:A00038	Cold Spring (23A38)	559,748	4,829,368	nd		<u>Uran</u> (12 σ)	nd	nd
MN23:X00136	Cold Spring Downstream (23X136)	559,821	4,829,601	nd		<u>Uran</u> (407 σ) (diluted)	<u>Uran</u> (13 σ) Eos * (6 σ)	<u>Uran</u> (11 σ) Eos * (9 σ)
MN23:X00300	Cold Spring Upstream Bug Set (upstream of 23A38)	559,704	4,829,380	nd		<u>Uran</u> (398 σ)	nd	nd
MN23:X00137	Maple Springs Campground (23X137)	561,312	4,831,949	nd	SrB (93 σ)	<u>Uran</u> * (4 σ) SrB (4 σ)	SrB (53 σ)	

- Eos * Eosine from some other unknown source
- SrB** indicates Sulforhodamine B dye was detected
- Uran indicates Uranine dye was detected
- Uran * Uranine from some other unknown source
- nd indicates no dye was detected