

# Sublette County Conservation District Pinedale Anticline Field Data 2000-2009



This report was prepared by  
 Sublette County Conservation District.  
 Telephone: (307)367-2257  
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Site Name	Sample Date	Sample Time	SCCD Staff	Recorder	Dissolved Oxygen and Temperature Meter	pH, Conductivity, Temperature, Total Dissolved Solids Meter	Turbidity Meter	Photos	Weather	Temperature (F)	Temperature (C)	Temperature (C) #2	Conductivity (uS/cm)	pH	Total Dissolved Solids	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Turbidity (NTU)	Notes
NF19	7/25/2000	10:45 AM							warm temperatures		17		0	7.40		8.95	93		air temperature 16.90; no flow taken
NF19	9/13/2000	10:21 AM						10u;12a;11d	partly cloudy, slight breeze		13		0	7.80		11.91	113		no flow taken; air temperature 16. 14.63
NF19	11/9/2000	11:45 AM							overcast skies		0		0	7.52		13.37	92		no flow taken; Ena Olson Ranch - new sampling location
NF19	3/26/2001	6:53 AM						1u;2d;3a	cold, foggy		0		0	7.32		8.53	58		no flow taken due to ice cover
NF19	5/17/2001	12:00 PM						8u;9a;10d	mostly sunny										grab sample, no probes; pictures in different location due to high water
NF19	6/27/2001	11:45 AM							partly cloudy, with sun, very light breeze	69.6			195	8.19					this site was actually labelled NF19A not NF19; water too high for flow
NF19	9/20/2001	1:10 PM								70.1			210	8.38					no flow taken
NF19	10/31/2001	11:30 AM						19u;20a;21d	partly cloudy, very windy, fresh snow on mountains	48.4			255	8.09					no flow taken; heavy rains night before sampling
NF19	4/1/2002	9:00 AM						24u;25a;1d	some clouds, sunny, light breeze	36.8	0		262	7.72		9.45	65		no flow taken, too much ice
NF19	6/4/2002	3:53 PM						20u;21a;22&23d		62			109	7.19		8.67	83		turbidity: not working correctly, no reading; 353NF19 New Fork; no flow taken, water too high
NF19	7/8/2002	6:20 AM						10u;11a;12&13d	cool, slight breeze, clear skies	63			194	7.40		6.86	72		turbidimeter does not work; no flow taken
NF19	10/15/2002	8:15 AM						12&13u;14a;15&16	clear, cool, calm	38.8	4		250	8.06		8.63	66	2.40	temperature (3.51 C), DO (63.7%), DO (8.49 mg/L); no flow taken
NF19	11/13/2002	12:45 PM						23u;24&25a;1&2d	cool, overcast skies, calm	38.9	2		252	7.92		11.08	82		turbidity: not taken, equipment not working; no flows taken

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NF19	3/21/2003	10:45 AM						1u;2a;3d	High scattered clouds, sharp, cold breeze.	39.9	0		258	7.20		11.71	81	5.82	
NF19	5/29/2003	2:30 PM						4u;5a;6d	Warm breeze, mostly scattered clouds, some rain to the north west.		15			7.70		8.54	84	65.71	No flow taken - high runoff. Hydac not working properly - borrowed Hanna pH meter from WY. Game & Fish Dept. Conductivity and temp (F) not recorded because Hydac not working properly.
NF19	7/14/2003	7:30 AM						1u;2a;3&4d	Clear skies, no clouds, smoky along mtns., no breeze	63.2	17		196	7.31		7.37	76	13.65	No flow taken - H2O too high, used tube for turbidimeter, foam on the water. Took nitric sample with sulfuric bottle so had to take sample to office and preserve at office.
NF19	9/8/2003	6:45 PM						24&24u;26a;	Cool breeze, clear to partly cloudy	58.2	15		201	8.72		6.63	66	20.37	No flow taken.
NF19	11/7/2003	3:30 PM						19u; 20a; 21&22 d	Sunny, crisp, clear, cold	38	0		276	7.51		6.76	48	3.2	Turbidity readings: 3.18, 3.39, 3.15, 3.09 ave. = 3.20 No flow taken
NF19	3/16/2004	1:45 PM	Kathy Raper	Charlotte Keyser				4u;5a;6d	Warm, breezy, overcast/sunny	47.1	2		204	7.06		7.31	53	3.46	The sample was collected downstream about 30'. The sample may not be of good quality due to lots of ice on stream and unable to reach running water. No flows taken.
NF19	6/11/2004	6:00 PM	Kathy Raper	Kathleen Petersen				64u;65a;66&67d	Mostly cloudy, breezy	53.1	12		84	7.24		6.15	56		No flows taken. High water, spring runoff. Turbidity - Reading is a condition called "going blind". (See Hach manual pgs. 68 & 69). Could not obtain a turbidity reading.
NF19	7/22/2004	8:45 AM	Kathy Raper	Charlotte Keyser				48u;47a;49&50d	Cool, partly cloudy, breeze	64.4	17		188	7.72		7.15	75	2.50	No flows taken because of high water and gauging station upstream. Julian date: 204
NF19	7/28/2004	1:00 PM	Kathy Raper	Charlotte Keyser				17u;18a;19d											No samples collected. Only pictures taken.
NF19	9/14/2004	8:00 AM	Kathy Raper	Charlotte Keyser				1u;2a;3d	Warm, breezy, a few scattered clouds, evidence of heavy rain night before. Water is very turbid.	47.3	11		222	7.82		5.55	51	9.87	Update the GPS point: 12T 0589555 UTM 4715735 Elev. 6943 No flows taken. Julian date: 258
NF19	11/8/2004	9:30 AM	Kathy Raper	Charlotte Keyser				1u;2a;3&4d	Cold, overcast	34.9	2		208	7.72		8.59	62	2.68	No flows taken.

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NF19	3/10/2005	11:00 AM	Kathy Raper	Heather Schmit				1u;2a; 3&4d	Partly cloudy & sunny, 35 F	45.6	2		759	7.33		6.46	46	42.6	Used a hole dug in the ice about 15' from shore. Ice was 4" thick. Also used an ice pick. No flows taken.
NF19	6/2/2005	6:00 PM	Kathy Raper	Charlotte Keyser				20u;21a;2 2&23d	Cool, windy, overcast/sunny	55.2	11		101	7.32		11.38	103	5.87	Highest water seen this time of year since SCCD started sampling at this site. No flows taken.
NF19	7/27/2005	1:15 PM	Kathy Raper	Charlotte Keyser				10u; 11a; 12,13d	cool breeze, clear	69	19		180	7.88		6.55	71	2.16	no flows taken, riffle totally submerged
NF19	9/30/2005	11:15 AM	Kathy Raper					30u; 31a; 32,32d	clear, warm, slight breeze, blue skies	57.5	10		201	7.80		7.83	69	1.58	no flows taken; BTEX samples collected
NF19	11/9/2005	4:00 PM	Kathy Raper	Charlotte Keyser				75u; 76a; 77,78d	clear, sunny, warm, slight breeze	46.6	7		196	7.88		7.08	59	2.2	no flows taken
NF19	3/14/2006	10:00 AM	Kathy Raper	Delsa Allen					Partly cloudy	35.1	0		177	6.71		7.93	55	2.67	River not open yet (looks like it was open and then re-froze); took BTEX samples; no flows taken
NF19	5/31/2006	4:45 PM	Kathy Raper	Delsa Allen					clear	59.3	13		87	6.26		7.42	70	6.2	no flows taken
NF19	7/21/2006	3:30 PM	Kathy Raper	Delsa Allen					clear	79.8	23		259	8.52		9.78	114	1.68	Water is too high to do flows.
NF19	9/13/2006	12:30 PM	Kathy Raper					1 up; 1 across; 1 down	warm, light breeze, blue skies with a few clouds	64	16					6.84	69	2.54	A hand-held thermometer was used to read F temperature; no flows taken; Oakton meter not working properly, no conductivity reading or pH; BTEX samples collected
NF19	11/8/2006	1:45 AM	Kathy Raper	Delsa Allen					mostly cloudy, windy		8		223	8.44		11.56	97	14	no flows taken; winds has the water's surface very rough - probably making water more turbid; The YSI was used to take one C temperature reading (7.6) and the Oakton was used to take another reading (8.4), the average was entered into the database
NF19	3/19/2007	11:15 AM	Kathy Raper	Sno Ann Engler				1u; 2d; 2a	sunny blue skies		0		256	7.65	128	4.29	29	14.8	Ice still quite overall downstream with chunks breaking up upstream
NF19	5/16/2007	1:00 PM	Delsa Allen	Isabel Rucker					clear, windy		11		51	6.82	25.6	3.7	34	19.1	
NF19	7/30/2007	4:20 PM	Delsa Allen	Isabel Rucker					mostly cloudy		22		184	8.78	92.1	4.24	49	3.30	began doing flows, but too windy, tape got ripped

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NF19	9/27/2007	10:00 AM	Kathy Raper	Delsa Allen					mostly clear, slight chill in air		9		313	8.03	157	5.59	52		took TPH and BTEX samples
NF19	11/6/2007	11:45 AM	Kathy Raper	Delsa Allen					clear		3		284	8.35	142	6.31	47	1.78	Took TPH and BTEX samples
NF19	3/26/2008	12:05 PM	Kathy Raper	Meghann Durbrow				2u, 1a, 3d	very windy, sunny		0		197	6.92	103	8.71	60	17.3	Took sample down stream from site due to ice conditions. Took BTEX. Temp C from Oakton 0.4 degrees. MD recorder
NF19	6/24/2008	7:30 PM	Kathy Raper		YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3	2u, 2a, 3d	Slight breeze, warm, sunny		16	16	91	7.44	41.5	5.78	58	10	
NF19	8/25/2008	1:00 AM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u, 2d, 2a	sunny, warm		19	19.5	196	8.89	97.8	8.37	91	1.07	
NF19	10/1/2008	3:00 PM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3	2u, 1a, 3d	Partly cloudy, warm, slight breeze		15	16.3	199	8.93	99.3	4.78	48	2.17	Took Duplicates @ 3:10 PM BTEX, TPH, GRO, DRO
NF19	11/11/2008	4:15 PM	Kathy Raper		YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u, 2a, 3d	Cold, Windy, Overcast		4	4	139	8.48	69	9.04	69	1.79	Took BTEX, GRO, DRO, and TPH Samples
NF19	4/2/2009	3:30 PM	Kathy Raper		YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u;1a;3d	Slight breeze, overcast, snowing off & on		0.2	0.2	259	8.53	130	10.1	69.5	9.0	Took samples upstream 50'. River is about 75% covered with ice. Took TPH, BTEX, DRO & GRO samples.
NF19	5/29/2009	1:15 PM	Kathy Raper		YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u;1a;3d	Storm moving in, windy, sunny, warm		11.5	11.8	39.8	7.88	20.1	7.14	65.3	13.3	Highest river has been during high water sampling for least 5 plus years. River is bankful and above.
NF19	8/11/2009	5:15 PM	Loren Racich	Kathy Raper	YSI 55 Dissolved Oxygen-#2	Oakton multi-probe-#6	2100 Hach Turbidity-#4	1u, 3d, 1a	Muggy, partly cloudy		20	20	173	8.81	86.8	6.91	75.6	1.74	Took duplicate meter readings Took duplicate samples Took BTEX,TPH,DRO&GRO samples
NF19	10/3/2009	2:00 PM		Kathy Raper	YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3	2u, 3d, 2a	Overcast, cool, slight breeze		8.3	8.3	145	7.99	72	7.47	63.3	4.9	Several ducks flew off water at sampling site when SCCD staff arrived at site.
NF19	11/19/2009	10:45 AM		Kathy Raper		Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 3d, 1a	Blue skies, cold breeze			0.8	403	7.31	199		0	2.41	Took BTEX, TPH, DRO & GRO samples YSI Optical DO temp .3 % 75.1 mg/l 10.89  Ice has formed on both banks, about 3-4' out into channel
NF30	9/20/2001	12:10 PM								65			190	8.45					no flow taken, tape not long enough

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NF30	10/31/2001	10:15 AM						18u;17a;16d	partly cloudy, breezy, slight chill	49.3			235	8.29					no flow; BTEX sampled; heavy rains night before sampling
NF30	4/1/2002	8:20 AM						21u;22a;23d	partly cloudy, slight cool breeze	34.2	0		276	7.43		7.43	52		too much ice, no flow taken; moved downstream about 100 feet to take samples- point where ice could be broken
NF30	7/8/2002	7:20 AM						14u;16a;15d	warmer, slight breeze, clear	62.2	17		146	7.36		8.11	85		turbidimeter does not work; no flow taken
NF30	10/15/2002	9:45 AM						17u;18&19a;20d	clear, cool, clear	39	4		239	8.18		4.42	7	5.44	temperature (3.89 C), DO (8.99 mg/L), DO (68.4%); no flow taken
NF30	11/13/2002	11:45 AM						18u;19a;20d	cool, slight breeze, overcast skies	38.5	2		201	7.89		11.35	84		turbidity: no readings taken - equipment not working; flows taken
NF30	3/21/2003	1:30 PM						4u;5a;6d	Overcast skies, cold with brisk wind.	45.3	5		208	7.46		12	9	5.64	
NF30	7/14/2003	9:45 AM						5u;6a;7d	Sunny, warm, clear	64.3	17		176	8.08		8.38	87	77.01	No flows taked due to equipment problems, used tube for turbidimeter
NF30	9/10/2003	1:45 PM						8u;9a;10d	Cold, blowing wind, overcast & sprinkling	54.4	12		193	8.46		7.05	66	0.96	
NF30	11/7/2003	2:30 PM						16u; 17a; 18d	Cold, clear, slight breeze	35.2	1		249	7.61		7.3	51	1.475	Turbidity readings: 1.55, 1.47, 1.45, 1.43 ave. = 1.475 No flow taken, too much ice
NF30	3/26/2004	12:30 PM	Kathy Raper	Charlotte Keyser				12u;13a;14d	Cold, windy, overcast	41	5		243	7.83		7.71	60	7.83	Tried to sample on 3/16/04. KR dug three 1' holes in the ice. No water so no water samples taken. Returned to site 3/26/04. Early stages of spring runoff. No flows taken. Lost a bottle at this site in river.
NF30	7/22/2004	10:30 AM	Kathy Raper	Charlotte Keyser				51u;52a;53d	Warm, breezy, partly cloudy/sunny	64.3	18		160	8.03		7.72	80	1.83	No flows taken because of high water. Highest water ever seen this time of year since SCCD started sampling at this site. Julian date: 204
NF30	9/14/2004	10:00 AM	Kathy Raper	Charlotte Keyser				4u;5a;6d	Cool, windy, sunny, partly cloudy. Evidence of rain night before - water is very turbid.	50.2	11		175	8.20		6.69	61	7.33	Update GPS point: 12T 0594888 UTM 4721939 No flows taken. Julian date: 258

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NF30	11/8/2004	10:45 AM	Kathy Raper	Charlotte Keyser				5u;6a;7d	Cold, overcast	35.2	2		152	7.94		8.86	64	2.68	No flows taken.
NF30	3/10/2005	12:45 PM	Kathy Raper	Heather Schmit				5u;6a;7d	Clear, sunny & windy	35.3	1		104	7.67		10.02	70		Mostly rotten brown ice with open spots. Evidence of runoff * after resetting range reading on HACH turbidity meter, meter flashed 1000. Unable to take turbidity reading. No flows taken.
NF30	7/27/2005	2:00 PM	Kathy Raper	Charlotte Keyser				14u; 15a; 16d	cool breeze, clear with a few clouds, sunny	71.7	20		169	8.20		6.88	75	2.27	no flows taken
NF30	9/30/2005	1:15 PM	Kathy Raper					34u; 35a; 36d	a few clouds, warm, slight breeze	63.1	13		176	8.11		8.77	82	1.47	no flows taken; BTEX samples collected; replicate samples collected 1:30 PM; 273NF30NewForkKRD
NF30	11/9/2005	5:00 PM	Kathy Raper	Charlotte Keyser				78u; 79a; 80d	cool, clear with a few clouds, calm	45.8	7		191	7.67		7.08	58	2.0	no flows taken
NF30	3/14/2006	11:45 AM	Kathy Raper	Delsa Allen					Partly cloudy	41.7	0		161	6.92		7.72	53	2.72	River not open, completely covered with snow; had to punch through 1 ft of ice; took BTEX samples; no flows taken
NF30	7/21/2006	2:45 PM	Kathy Raper	Delsa Allen					clear, hot	76.1	22		189	8.17		8.4	97	1.79	Took TPH samples as well; no flows taken
NF30	9/13/2006	2:30 PM	Kathy Raper						very warm, slight breeze, blue skies with a few clouds, - breeze turned into strong wind	66	20			8.98		7.66	84	2.24	Four moose crossed upstream about 50' from sampling site: 2 cows, 1 calf, and 1 small bull prior to sampling. BTEX samples collected; hand held thermometer used for F temperature reading; no flows taken. Oakton meter not working properly, no conductivity reading was taken.
NF30	11/9/2006	9:15 AM	Kathy Raper	Delsa Allen					overcast, starting to snow		6		199	8.16		11.01	88	2.41	no flows taken. The YSI was used to take one C temperature reading (5.6) and the Oakton was used to take another reading (6.5), the average was entered into the database
NF30	3/19/2007	9:45 AM	Kathy Raper	Sno Ann Engler				1u; 1d; 1a	Sunny blue skies		0		255	7.41	125	4.5	30	8.34	Moved approximately 100' downstream to pull samples due to ice problems. A few open runs, remainder is blocky, slushy, iced over spots. Took BTEX and TPH
NF30	7/26/2007	3:40 PM	Delsa Allen	Isabel Rucker					cloudy, thundering		21		169	8.63	84.6	4.25	48	3.91	Flows not taken, too windy and about to storm at time of sample.
NF30	9/27/2007	11:00 AM	Kathy Raper	Delsa Allen					mostly clear, slight cool breeze		10		301	7.93	150	5.51	48		took TPH and BTEX samples

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Site Name	Sample Date	Sample Time	SCCD Staff	Recorder	Dissolved Oxygen and Temperature Meter	pH, Conductivity, Temperature, Total Dissolved Solids Meter	Turbidity Meter	Photos	Weather	Temperature (F)	Temperature (C)	Temperature (C) #2	Conductivity (uS/cm)	pH	Total Dissolved Solids	Dissolved Oxygen (mg/L)	Dissolved Oxygen (%)	Turbidity (NTU)	Notes
NF30	11/6/2007	11:00 AM	Kathy Raper	Delsa Allen					clear, slight breeze		3		194	8.35	97	6.97	52	3.17	TPH and BTEX samples taken
NF30	8/5/2008	5:00 PM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	1u, 1a, 1d	Overcast, Warm wind		20	19.7	150	8.80	75.3	6.71	73	2.01	Took BTEX, TPH, DRO, GRO
NF30	10/1/2008	2:30 PM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 1a, 1d	Partly cloudy, windy		15	15.6	169	9.02	84.4	5.33	53	2.25	Took BTEX, TPH, GRO, DRO Samples
NF30	11/12/2008	12:00 PM	Kathy Raper		YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3	1u, 2a, 1d	Overcast, Windy, Cool		5	4.8	176	8.38	88	9.11	71	2.22	Duplicate samples collected at 12:15 PM Took duplicate meter readings Took BTEX, GRO, DRO, TPH samples
NF30	4/2/2009	12:15 PM	Kathy Raper		YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u;1a;1d	Overcast, cool		0.9	0.8	259	8.22	129	9.65	67.5	5.78	River mostly free ro ice. Ice remains along river banks. Took TPH, BTEX, DRO & GRO samples.
NF30	8/11/2009	6:15 PM	Loren Racich	Kathy Raper	YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 1d, 1a	Sunny, cool breeze, some clouds		19.9	20	155.8	8.47	77.9	7.9	86.4	2.31	Took BTEX,TPH,DRO&GRO samples
NF30	11/20/2009	12:15 PM		Kathy Raper		Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 1a, 1d	overcast skies, mild temperature, slight breeze			0.1	306	7.48	147			1.38	Duplicate samples collected @ 12:30pm YSI Optical DO Temp .2 % 76.6 mg/11.14
NF4	5/1/2000	10:17 AM							sunshine, cool temperature	47.35			0	8.01			87		
NF4	7/24/2000	12:45 PM						6u;8a;7d;9s	sunshine		16		0	8.30		9.48	96		Photos - 9s means that Photo 9 was taken at the stake; air temperature 14.70
NF4	9/5/2000	9:20 AM							warm, slight breeze		10		0	7.82		10.37	92		air 62 degrees F; no flow taken
NF4	11/6/2000	12:00 PM						3	partly cloudy, sunny, chilly		0		0	7.63		11.09	76		air temp 19 degrees
NF4	3/27/2001	11:19 AM						19u;20a;21d	sunny, cool, breezy		1		0	7.05		9.65	68		no flow, to high
NF4	5/17/2001	5:30 AM							partialy cloudy to overcast										grab sample, no probe; to dark to take pictures
NF4	6/25/2001	10:15 AM							some clouds, sunny, stronger breeze than other sites	63.9			339	7.96					slightly turbid, rain the day before; when taking flow there was a rock at 21.0

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NF4	9/17/2001	11:45 AM								52.2			401	7.81					flow taken 250-300 feet from regular sampling site due to low flow; when taking flow there was a rock at 15.0 feet
NF4	10/29/2001	9:00 AM						20u;21a;22d	overcast skies, slight breeze	43.8			431	8.16					evidence of beaver downstream, stream backed up to the county bridge; DO meter would not work; no flow taken
NF4	3/28/2002	11:30 AM						9u;10a;11d	partly cloudy, cold wind	39.5	0		5	7.37		9.32	65		beaver dam present downstream from sampling site; water some what turbid; flow not taken - too much ice
NF4	6/4/2002	5:25 AM						24u;25a;1d		62.7			288	8.11		8.03	81		turbidity: not working correctly, no reading; no flow taken, water too high
NF4	7/6/2002	10:30 AM						15u;16&17a;18d	warm day, slight breeze, a few clouds	62.8	16		4	7.99		9.99	102		flow was taken by interval not distance, therefore interval was entered in to the distance field; when taking flow there was a rock at depth at interval 26; EW was 0.5 feet and 38.2
NF4	10/16/2002	10:45 AM						3u;4a;5d	slight overcast, breeze, cool	40.4	4		417	8.03		8.84	68	0.56	temperature (3.45 C), DO (67%), DO (8.9 mg/L), pH (8.21); bank full width greater than 40 feet, bank full depth 2.9; flow was taken by interval not distance, therefore intervals are entered in the distance field; when taking flow there were rocks at 14, 26, 29, and 35; tree at 33
NF4	11/12/2002	11:00 AM						7u;8a;9d	overcast, breezy, slight breezy	35.5	1		274	8.09		10.2	72		no flow taken
NF4	3/20/2003	8:15 AM						21u;22a;23d	Very foggy, cool temps.	38.1	0		316	7.63		10.82	74		Very dark color to water. Snowed last night 1" - 2".
NF4	7/16/2003	5:30 PM						28u;29a;30&31d	Overcast skies, muggy, strong winds	68	18		345	8.44		7.36	79	9.09	No flow taken, equipment not working.
NF4	9/4/2003	10:30 AM						31u;32a;33d	Warm, few clouds, no breeze	58.5	14		418	8.11		7.03	68	18.39	Wetted width 36.5' Bank full width 40'+ Aquatic plants at 10', rock at 29'
NF4	11/12/2003	3:30 PM						12u; 13a; 14d	Clear	41.1	1		363	7.71		10.86	76	2.52	Turbidity readings: 2.50, 2.45, 2.52, 2.60 ave. = 2.52 No flows taken
NF4	3/16/2004	8:15 AM	Kathy Raper	Charlotte Keyser				1u;2a;3d	Cool, overcast, breezy	35.3	0		460	7.59		11.68	81	2.4	Took samples downstream of sampling site about 50' due to too much ice. No flows taken.

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NF4	7/19/2004	7:00 PM	Kathy Raper	Charlotte Keyser				19a;20a;21d	Warm, breezy, sunny	70.3	22		364	8.11		7.03	80	2.62	Highest water ever seen this time of year since SCCD started sampling at this site. Bankfull width 43', wetted width 37.5'. Julian date: 201
NF4	9/17/2004	11:00 AM	Kathy Raper	Charlotte Keyser				24u,25a,26d	Warm, clear, slight breeze	50.6	9		402	8.31		6.45	56	1.16	Update GPS point 12T 0592867 UTM 4743370 Julian date: 261 Bnkfull width 57', wetted width 43', maxium bankfull depth 36' @ 2'9" on the transect, flood prone width 200'+ Rocks located at distances 24 & 32 on transect, large boulders upstream of distances 38 & 40 on transect
NF4	11/3/2004	3:45 PM	Kathy Raper	Charlotte Keyser				14u;15a;16d	Cool, overcast, calm	42.5	5		409	8.12		8.33	65	2.26	No flows taken. Julian date: 308
NF4	3/10/2005	3:00 PM	Kathy Raper	Heather Schmit				8u;9a;10d	Clear & sunny, slight breeze.	35.8	0		333	7.97		11.23	77	3.11	Sampled through a hole in the ice about 40' downstream of bridge. 25' upstream from regular sample location due to ice. Ice is about 5" thick. No flows taken.
NF4	7/27/2005	7:30 AM	Kathy Raper	Charlotte Keyser				1u; 2a; 3d	cool, sunny, breezy	54.4	12		325	7.55		6.03	56	2.19	took flows downstream approx 75' - water not as swift; EW1.4 EW59.2; distance 39 rock
NF4	9/29/2005	11:00 AM	Kathy Raper	Charlotte Keyser				7u; 8a; 9d	warm, slight breeze, sunny and clear	49.4	7		404	7.97		8.52	70	1.14	mid channel bar above sampling site below county bridge; took BTEX water samples; EW2.9 EW37.9; distances, 30 and 37 the presence of a rock effected depth
NF4	11/14/2005	10:30 AM	Kathy Raper					4u; 5a; 6d	very windy, cold, overcast skies, blowing snow	36.2	1		377	7.72		7.35	52	1.5	2" of fresh snow; no flows taken
NF4	3/13/2006	8:00 AM	Kathy Raper	Delsa Allen					Mostly clear; very cold	40.5	0		341	7.12		10.03	68	2.7	No flows taken; took BTEX samples; took samples downstream aprox. 50 ft where an opening in the ice was found
NF4	7/21/2006	7:30 AM	Kathy Raper	Delsa Allen				1 up, 2 across, 2 down	clear	57.7	14		343	7.48		5.9	58	1.33	Took duplicates at 8:00 AM. Rooted macrophytes throughout stream effecting flow readings. Maximum bankfull width is about 1/4 mile. EW1.9 and EW40.1

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NF4	9/15/2006	5:15 PM	Kathy Raper	Delsa Allen					raining very hard, strong wind, cold, overcast	50	10			8.36		7.4	66	1.55	F temperature was taken with hand held thermometer; Conductivity probe on the Oakton meter does not seem to be working properly, C temperature reading doesn't seem right either.; Bankfull width is about 1/2 a mile. EW1.6 and EW40
NF4	11/3/2006	4:45 PM	Kathy Raper						overcast skies, cold, medium breeze		5		398	8.49		11.35	88	1.71	no flows taken; The Hanna was used for pH, Oakton for conductivity, The YSI was used to take one C temperature reading (4.6) and the Oakton was used to take another reading (4.5), the average of the two being used for database
NF4	2/27/2007	1:45 PM	Kathy Raper	Delsa Allen					overcast, was snowing prior to sampling		0		536	7.30	268	9.16	62	2.53	
NF4	8/2/2007	11:00 AM	Kathy Raper	Delsa Allen							14		502	8.06	247	4.2	40	1.51	EW 5.8' EW 39.0'
NF4	9/19/2007	3:00 PM	Kathy Raper	Delsa Allen					clear, breezy		14		499	8.60	249	5.52	54		
NF4	11/1/2007	3:00 PM	Kathy Raper	Delsa Allen					cloudy, breezy				588	8.43	294			1.25	We took samples this day after being contacted by a private citizen who had heard that a land owner upstream of this site approximately 1 to 2 miles had noticed a smell like produced water in the river 4 to 6 days earlier. While sampling, we heard a fish jump just below stream of us.
NF4	11/6/2007	3:15 PM	Kathy Raper	Delsa Allen					clear		6		575	8.09	288	7.01	56	2.03	
NF4	3/3/2008	3:00 PM	Kathy Raper	Meghann Durbrow				1 up, 1 across, 2	partly cloudy, sunny slight breeze		1		400	7.79	200	9.82	69	4.04	River looked turbid at bridge. Used both sets of instruments. No flow taken
NF4	8/6/2008	5:30 PM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3		Cloudy, windy		19	18.6	259	8.69	129	5.98	64	8.71	Water is very turbid Water tank 20 ft off the ground, possibility of Back flow, 4 inch hose, see pictures Western States Tank 1-877-860-4287 Took BTEX, TPH, DRO, GRO Max. Bankfull Depth: 2.5 @ 18ft on tape EW @ 3.0 and 38.4

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NF4	9/26/2008	4:00 PM	Kathy Raper		YSI 55 Dissolved Oxygen-#2	Oakton multi-probe-#5	2100 Hach Turbidity-#3	1u, 1a, 1d	Blue skies, windy, smokey		14	14.3	326	8.69	163	6.44	63	3.81	Water in-take hose and tank just upstream have been removed. TPH, GRO,DRO, BTEX Samples Collected
NF4	11/24/2008	11:30 PM	Kathy Raper		YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3		Mostly sunny, cold, slight breeze		0	0.1	401	8.04	202	8.58	59	2.56	
NF4	4/6/2009	3:00 PM	Kathy Raper		YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u;1a;2d	Warm, clear skies		8.0	8.1	364	8.64	182	8.86	83.6	4.17	Duplicate samples were collected @ 3:15 PM. Took duplicate meter readings. Took TPH, BTEX, DRO & GRO samples.
NF4	4/20/2009	12:00 PM	Kathy Raper		YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u;1a;2d			6.3	6.3	243	8.11	121	8.56	69.5	8.19	Duplicate samples collected @ 12:15 PM. Took BTEX, TPH, DRO & GRO samples. Retook samples due to refrigerator at office shutting off due to power outage and samples were at 50 F. They must be kept @ 4C or below. Contacted Energy Lab & they suggested I recollect the samples.
NF4	8/10/2009	1:45 PM	Loren Racich	Kathy Raper	YSI 55 Dissolved Oxygen-#2	Oakton multi-probe-#6	2100 Hach Turbidity-#4	1u, 2d, 1a	Blue Skies,windy warm, clouds moving in		15.3	15.5	190	8.63	95	75.8	7.57	3.96	took BTEX & TPH samples
NF4	10/7/2009	3:15 PM		Kathy Raper	YSI 55 Dissolved Oxygen-#2	Oakton multi-probe-#6	2100 Hach Turbidity-#4	1u, 2d, 1a			7.9	8	242	8.40	121	7.51	63.1	1.84	Took duplicate samples Took BTEX, TPH, DRO & GRO samples Took duplicate meter readings took duplicate samples @ 3:30pm
NF4	11/20/2009	2:30 PM		Kathy Raper		Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 1a, 1d	overcast skies, cold breeze			0.2	247	8.15	123			1.35	YSI Optical DO Temp .3 %75.4 mg/l 10.96 Took BTEX,GRO, DRO & TPH samples
NF40	7/21/2006	2:00 PM	Kathy Raper	Delsa Allen					clear, hot	76.7	21		123	7.94		7.19	81	1.6	Took TPH samples as well; no flows taken
NF40	7/26/2007	3:00 PM	Delsa Allen	Isabel Rucker					cloudy, windy		20		165	8.53	82.1	46.5	4	2.57	
NF40	9/27/2007	12:00 PM	Kathy Raper	Delsa Allen					some clouds, slight breeze		8		198	8.07	99.2	5.54	47		took TPH and BTEX samples
NF40	11/6/2007	10:00 AM	Kathy Raper	Delsa Allen					clear		1		178	7.28	89.8	7.31	52	1.78	
NF40	8/5/2008	4:00 PM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	1u, 1a, 1d	Cloudy, breezy, warm		20	19.7	155	8.58	77.5	4.17	46	2.44	Took BTEX, TPH, DRO, GRO

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NF40	10/1/2008	1:45 PM	Kathy Raper	Whitney Philpott	YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	Yes			14	17.3	180	8.93	90.3	4.79	47	2.07	
NF40	11/12/2008	1:30 PM	Kathy Raper		YSI 55 Dissolved	Oakton multi-probe-#5	2100 Hach Turbidity-#3	1u, 2a, 2d	Overcast, Cold, VERY Windy		4	4.8	161	8.36	80.4	68.7	9	1.73	Took BTEX, GRO, DRO, AND TPH samples
NF40	4/2/2009	10:00 AM	Kathy Raper	Nancy MacKenzie	YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3	1u;2a;1d	Cool, overcast		1.9	1.9	252	7.76	126	9.19	66.3	2.90	Two Anticline Disposal employees came in field to watch sampling. River mostly free to ice. Ice is still along river banks. Took TPH, BTEX, DRO & GRO samples. Carol Richie was also present.
NF40	8/14/2009	1:30 PM	Loren Racich	Kathy Raper	YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 2d, 1a	Mostly cloudy, warm, storm approaching		17.8	20	155.5	8.26	77.7	7.71	81.4	2.49	BTEX, TPH, GRO & DRO samples collected
NF40	11/20/2009	11:15 AM		Kathy Raper		Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 1a, 1d	hazy, sun peeking out, cool breeze				189	7.44	94.1			1.51	YSI Optical DO Temp .3 % 75.6 mg/l 10.9
NF80	4/20/2009	3:15 PM	Kathy Raper		YSI 55 Dissolved Oxygen-#1	Oakton multi-probe-#5	2100 Hach Turbidity-#3	2u;1a;1d			8.6	8.6	235	8.07	118	8.09	69.3	8.14	Evidence of spring runoff - water is turbid. Took BTEX, TPH, DRO & GRO samples. Retook samples due to refrigerator at office shutting off due to power outage and samples were at 50 F. They must be kept @ 4C or below. Contacted Energy Lab & they suggested I recollect the samples.
NF80	8/14/2009	2:30 PM	Loren Racich	Kathy Raper	YSI 55 Dissolved	Oakton multi-probe-#6	2100 Hach Turbidity-#3		Stormy, slight breeze		16.6	16.7	204	8.49	101	8.15	84.5	3.19	Collected BTEX, TPH, GRO & DRO samples
NF80	10/7/2009	3:45 PM		Kathy Raper	YSI 55 Dissolved	Oakton multi-probe-#6	None				7.9	7.8	242	8.47	121	7.3	61.6		Took BTEX, TPH, DRO & GRO samples
NF80	11/20/2009	3:30 PM		Kathy Raper		Oakton multi-probe-#6	2100 Hach Turbidity-#3	1u, 1a, 1d	overcast, cool			-0.1	249	7.42	124			1.77	YSI Optical DO temp -.1 % 74.3 mg/l 10.90 Took BTEX,TPH,GRO & DRO samples

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