

SELECTED ENVIRONMENTAL STUDIES (2004 - 1984)

#	Study/Report/Event	Parameters/Events	Authors/Sponsors	Dates
*1	Water Quality	Multiprobe monitoring of D, T, DO, pH, Cond, Redox; N & P species; chlorophyll a; Secchi depth; hardness & alkalinity; major anions and cations; common & trace elements; sediment analyses.	Daniels, Osborn, Murphy et al. (CLWF)	1993-04
*2	Biomonitoring	Benthic macroinvertebrates and stream habitat of Cold Creek	CLWF & GTRLC & MI DEQ	2001-03
*3	Water Quality	Chemical parameters, Cold Creek & Crystal Lake	CLWF & IAA (ML&SA)	2001-02
*4	Water Quality	Multiprobe parameters; zooplankton.	CLWF & USGS (SBDNL NPS)	1997-99
*5	Education	The Crystal Lake "Walkabout" An Educational Primer; A Reference Handbook.	CLWF, GTRLC, GTB, CC, TNC, FBVT, FBB, USCG, BCCS, FES, IAA, ISEA.	1997-04
*6	Exotic Species	Zebra mussel	CLWF & MI Sea Grant	1994-00
*7	Water Quality	Monitoring of D, T, DO; N & P.	CLWF & WQI	1993-04
*8	Water Quality	Monitoring of Secchi depth.	CLWF & ML&SA	1993-04
*9	Water Quality	Monitoring of P species.	CLWF & MDEQ	1993-04
*10	Education	Crystal Lake Walkabout (EcoExplorations)	CLWF et al.	1993-96
*11	Limnology	Bathymetry of Crystal Lake	CLWF & TetraTech-MPS	1999-00
*12	Watershed Management	Geographical Information Systems	CLWF & NWMCOG & Meridian Geographics	2000-04
*13	Watershed Management	Geographic Names Info. System	CLWF & USGS	1999-04
*14	Water Quality	Level monitoring of Crystal Lake	CLWF	2000-04
*15	Water Quality	Monitoring of D, T, DO; N & P; chlorophyll a.	CLWF & MDEQ	1997,99
*16	Sediments	Thermogravimetric analyses (LOS)	CLWF & MMI (Impact Analytical)	1998
*17	Phytoplankton	Phytoplankton	CLWF & USGS	1998
*18	Water Quality	Monitoring of P species	CLWF & GLERL (NOAA)	1996
*19	Global Positioning	Latitude & longitude of sampling locations.	CLWF	1996
*20	Aquatic Plants	Aquatic macrophytes	CLWF & Aquest	1996
*21	Phytoplankton	Algal speciation	CLWF & Phycotech	1995-96
*22	Water Quality	Multiprobe parameters	CLWF (Murphy, MSU)	1994
23	Geology	Landforms of Northern Lower Michigan	Knapp (NRCS)	2004
24	Water Quality	Inland Lakes 303d program	MI DEQ (& USGS)	2003
25	Water Quality	Mayflies indicators of aquatic ecosystem health	USGS	2003
26	Water Quality	Nearshore water quality	CLA & CMU	2003-4
27	Groundwater	Water table depths; piezometric data.	CRS	2001-03
28	Precipitation	Rainfall at local stations	NWS	2001-03
29	Inland Lakes	Sediment chemistry, elemental chronology.	MSU (Long, Yohn, et al.)	2001-03
30	Land Use	Benzie Co. 2020 Comprehensive Plan	BCCAC	2000
31	Vegetation	Natural features inventory circa 1800's.	Corner & Albert	1998
32	Land Use	Sensitive lands and water resources	CAC	1998
33	Septic Systems	Onsite Alternative Treatment	BLDHD	1995-00
34	Fish	Growth and survival of perch.	Granet (CMU)	2000-02

35	Fish/Zooplankton	Perch fishery, zooplankton, chemical analyses.	McNaught et al. (CMU)	1997-03
36	Hydrology	Lake level control & outlet dam regulation	BCRC & BCDC	1970-00
37	Water Quality	Water quality study	Canale et al. (CLA)	1999
38	Water Quality	Water quality study	Fusilier (CLWF, WQI)	1998
39	Water Quality	Monitoring of T, DO, pH, TP of Cold Creek.	BCCS (WaterWatch)	1996-98
40	Water Quality	Multiprobe parameters; N & P; Secchi.	Blecker et al. (CLA)	1997-98
41	History	Images of Benzie County	Bevier	1998
42	Vegetation	Vegetation of Michigan circa 1800	Corner & Albert	1998
43	Land Use	Benzie Co. wet lands	MLUI	1997
44	Fish	PCBs, Hg, Pesticides, DO, T.	MI DNR	1997
45	History	Flatlander in the North, Impressions of Betsie du Rivere	Greenough	1996
46	Atmospheric Deposition	Airborne metals, TSP/TOC, specific organics.	ISWS (US EPA)	1996
47	History	Daylight in the Swamp, A Oral History of Logging in NW Michigan	Overlease & Overlease	1996
48	Swimmers' Itch	Waterborne parasite	Blankenspore (CLA)	1993-95
49	Topography	Elevation of Trapp Farm Nature Preserve.	GTRLC	1993
50	Watershed Management	Managing and Presenting Lake Monitoring Data Effectively	Daniels & Osborn (CLWF)	1994-5
51	Watershed Management	Preservation & protection guidelines.	PEA (CLA)	1993
52	Watershed Management	Land & water resource cooperative study.	BCSWCD	1992
53	History	The Chimney Corners Family Album, A Northern Michigan History	Rogers	1990
54	Geology	Geomorphic features of Crystal Lake	Taylor (Albion)	1990
55	Fish	Species & abundance.	Makowski (MDNR)	1989
56	Septic Systems	Ordinance for premises with sewage disposal systems	BCHD	1989
57	Water Quality	Monitoring of D, T, DO, N & P; chlorophyll a.	Gehring et al. (AHC, CLA, & NSPOA)	1989
58	Aquatic Plants	Submerged & floating vegetation.	Hazlett (UM)	1988
59	Water Quality	N & P species; pH, hardness, & alkalinity; major anions & cations; common & trace elements.	Crystal Lake Clean Water Committee	1987-93
60	Water Quality	Monitoring of D, T, DO, N & P; chlorophyll a.	Gehring et al. (NSPOA & CLA)	1987
61	Watershed Management	Cold Creek development plan	Clark	1987
62	Fish	PCBs, Hg, pesticides.	MDNR	1987
63	History	Crystal Lake – Life or Death	Decker (ad hoc Committee)	1987
64	Terrestrial Plants	Land-based vegetation	Hazlett (UM)	1986
65	History	The Crystal Gazer	Case, LL	1985
66	Watershed Management	Preservation & protection guidelines.	PEA (FCL)	1985
67	Aerial Survey	Photographs of weed beds.	Tanis (SWSA)	1984
68	Fish	Fish survey; D, T.	MDNR	1984