

NJDEP Quarry Discharge Update
August 19, 2019

Weldon Quarry Results						Macroinvertebrate Results				
Station	Waterbody	Location	Municipality	County	SampleDate	Macroinvertebrate Index Score	Macroinvertebrate Impairment Rating	Index Name	HabitatScore	HabitatRating
AN0062A	Weldon Brook	Shawnee Trail	Jefferson Twp	Morris	7/25/19	64.96	Excellent	HGMI	178	Optimal
AN0062B	Jayness Brook	Northwood Road	Jefferson Twp	Morris	7/25/19	60.99	Good	HGMI	181	Optimal
AN0062C	UNT to Weldon Brook	"Flag 6" Adjacent to Weldon Quarry	Jefferson Twp	Morris	7/25/19	39.69	Fair	HGMI	160	Optimal
AN0062D	UNT to Weldon Brook	"Flag 8" Prospect Point Road	Jefferson Twp	Morris	7/25/19	25.37	Fair	HGMI	169	Optimal

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Weldon Quarry Results				Field Measurements				
Station	Waterbody	Location	Municipality	DO	WaterTemp	pH	Cond	Turbidity
AN0062A	Weldon Brook	Shawnee Trail	Jefferson Twp	8.2	20.6	7.8	7.31	3.06
AN0062B	Jayness Brook	Northwood Road	Jefferson Twp	7.7	17.7	7.4	102	2.83
AN0062C	UNT to Weldon Brook	"Flag 6" Adjacent to Weldon Quarry	Jefferson Twp	8.5	20.3	8.2	427	22.7
AN0062D	UNT to Weldon Brook	"Flag 8" Prospect Point Road	Jefferson Twp	8.5	19.1	8	471	18.4

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Weldon Quarry Results				Nutrients mg/l					
Station	Waterbody	Location	Municipality	TKN	TKN Dissolved	TP	TP Dissolved	Ammonia Dissolved	Nitrate-Nitrite Dissolved
AN0062A	Weldon Brook	Shawnee Trail	Jefferson Twp	0.22	0.143	0.0336	0.0264	0.0345	0.0371
AN0062B	Jayness Brook	Northwood Road	Jefferson Twp	0.22	0.17	0.0779	0.0583	0.0319	0.139
AN0062C	UNT to Weldon Brook	"Flag 6" Adjacent to Weldon Quarry	Jefferson Twp	0.101	< Reporting Level	0.0492	0.0171	< Reporting Level	2.56
AN0062D	UNT to Weldon Brook	"Flag 8" Prospect Point Road	Jefferson Twp	< Reporting Level	0.108	0.0434	0.0166	< Reporting Level	2.39

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				General Chem mg/l										
Station	Waterbody	Location	Municipality	TSS	TDS	TOC	DOC	Alkalinity	Hardness	Sulfate	Calcium	Magnesium	Potassium	Sodium
AN0062A	Weldon Brook	Shawnee Trail	Jefferson Twp	ND	75	5.09	pending	pending	19	7.3	5.07	1.58	< Reporting Level	7.96
AN0062B	Jayness Brook	Northwood Road	Jefferson Twp	4	100	4.47	pending	pending	33.2	10.9	8.81	2.68	0.689	7.04
AN0062C	UNT to Weldon Brook	"Flag 6" Adjacent to Weldon Quarry	Jefferson Twp	19	328	2.26	pending	pending	166	103	52.7	8.04	3.12	24.5
AN0062D	UNT to Weldon Brook	"Flag 8" Prospect Point Road	Jefferson Twp	12	324	2.16	pending	pending	170	107	53.8	8.49	3.15	30.1