

Table 4.1-1: Fish Species Observed in Waterbodies and Watercourses

Site	Sampling Method	No. of Sampling Events	Month & Year	Sampling Effort	Fish Captured										Total CPUE	Potential Effect from Meliadine Extension	Impact	Size of Impact (m <sup>2</sup> )	Fisheries Act Section 35/36	Area (Ha)	Area (m <sup>2</sup> )
					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total							
Stream A0-1	EF	1	June 1997	532 s	-	2	5	-	-	-	3	47	29	86	9.70 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Stream A0-1	EF	1	June 1997	222 s	-	-	-	-	-	-	2	17	5	24	6.49 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Stream A0-1	EF	2	June 1998	915 s	3	-	-	-	-	-	-	1	7	11	0.72 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Stream A0-1	EF	1	July 1998	412 s	-	3	7	-	-	2	-	-	12	24	3.50 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Stream A0-1	EF	1	August 1998	305 s	-	1	6	-	-	-	-	-	8	15	2.95 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	AL	1	June 1997	0.5 rod-h	-	-	-	-	-	-	-	-	-	0	0 fish/rod-h	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	GN	2	July 1997	0.42 net-units	-	-	-	1	-	-	-	-	-	1	2.40 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	GN	3	August 1997	1.94 net-units	4	4	-	-	1	-	-	-	-	9	4.65 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	FN	1	August 2011	24.0 h	-	-	1	-	-	-	-	7	9	17	0.71 fish/h	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	GN	1	August 2011	0.76 net-units	1	3	-	1	-	-	-	-	-	5	6.58 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	MT	1	August 2011	71.1 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	EF	1	August 2020	1370.8 s	-	-	-	-	-	-	-	35	-	35	2.55 fish/100s	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	GN	7	August 2020	6.5 (dec. h)	2	-	1	-	1	-	-	-	-	4	0.71 (fish/100 m <sup>2</sup> /h)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	AL	1	August 2020	0.3 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	AL	2	August 2020	0.9 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	AL	2	August 2020	0.4 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	AL	2	August 2020	0.4 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	AL	2	August 2020	1.2 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake A1	MT	1	August 2020	1312.60 (dec. h)	-	-	-	-	-	-	-	8	27	35	0.64 (# fish per trap per 24 h)	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Stream A1-2	EF	1	June 1997	324 s	1	1	8	-	-	-	-	33	2	45	8.33 fish/min	Water quantity	Alteration	≤ 90	Section 35	0.009	90
Stream A1-2	EF	1	June 1998	177 s	-	-	2	-	-	-	-	-	-	2	0.68 fish/min	Water quantity	Alteration	≤ 90	Section 35	0.009	90
Pond A2	AL	1	June 1997	0.5 rod-h	-	-	-	-	-	-	-	-	-	0	0 fish/rod-h	Water quantity	Alteration	≤ 23,600	Section 35	2.36	23,600
Pond A2	FN	1	August 2011	26.1 h	-	-	-	-	-	-	-	59	25	84	3.22 fish/h	Water quantity	Alteration	≤ 23,600	Section 35	2.36	23,600
Pond A2	MT	1	August 2011	76.3 trap-h	-	-	-	-	-	-	-	5	5	10	3.15 fish/24h	Water quantity	Alteration	≤ 23,600	Section 35	2.36	23,600
Pond A2	EF	1	August 2020	1643.7 s	-	-	-	-	-	-	-	141	1	142	8.64 fish/100s	Water quantity	Alteration	≤ 23,600	Section 35	2.36	23,600
Pond A2	MT	1	August 2020	652.52 (dec. h)	-	-	-	-	-	-	-	193	39	232	8.65 (# fish per trap per 24 h)	Water quantity	Alteration	≤ 23,600	Section 35	2.36	23,600
Pond A2A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Water quantity	Alteration	≤ 19,500	Section 35	1.95	19,500
Stream A02A-A03	EF	1	June 1997	320 s	-	1	12	-	-	-	-	5	-	18	3.38 fish/min	Water quantity	Alteration	≤ 70	Section 35	0.007	70
Stream A02A-A03	EF	1	June 1998	174 s	-	-	9	-	-	-	-	-	-	9	3.10 fish/min	Water quantity	Alteration	≤ 70	Section 35	0.007	70
Stream A02A-A03	EF	1	July 1998	304 s	1	1	6	-	-	-	1	5	4	18	3.55 fish/min	Water quantity	Alteration	≤ 70	Section 35	0.007	70
Stream A02A-A03	EF	1	August 1998	230 s	-	1	20	-	-	-	-	5	3	29	7.57 fish/min	Water quantity	Alteration	≤ 70	Section 35	0.007	70
Pond A3	MT	1	July 2012	99.4 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Water quantity	Alteration	≤ 4,800	Section 35	0.48	4,800
Pond A3	EF	1	August 2020	325.1 s	-	-	-	-	-	-	-	45	-	45	13.84 fish/100s	Water quantity	Alteration	≤ 4,800	Section 35	0.48	4,800
Pond A3	MT	1	August 2020	227.72 (dec. h)	-	-	-	-	-	-	-	18	-	18	1.91 (# fish per trap per 24 h)	Water quantity	Alteration	≤ 4,800	Section 35	0.48	4,800
Stream A3-4	EF	1	June 1997	135 s	-	-	1	-	-	-	-	2	-	3	1.33 fish/min	Water quantity	Alteration	≤ 20	Section 35	0.002	20
Stream A3-4	EF	1	June 1998	109 s	-	-	1	-	-	-	-	-	-	1	0.55 fish/min	Water quantity	Alteration	≤ 20	Section 35	0.002	20
Pond A4	MT	1	July 2012	52.7 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Water quantity	Alteration	≤ 700	Section 35	0.07	700
Pond A4	EF	1	August 2020	371.5 s	-	-	-	-	-	-	-	5	-	5	1.35 fish/100a	Water quantity	Alteration	≤ 700	Section 35	0.07	700
Pond A4	MT	1	August 2020	93.2 (dec. h)	-	-	-	-	-	-	-	13	-	13	3.35 (# fish per trap per 24 h)	Water quantity	Alteration	≤ 700	Section 35	0.07	700
Stream A4-5	EF	1	June 1997	411 s	-	-	14	-	-	-	-	4	-	18	2.63 fish/min	Water quantity	Alteration	≤ 150	Section 35	0.015	150
Stream A4-5	EF	1	June 1998	320 s	-	-	3	-	-	-	-	-	-	3	0.56 fish/min	Water quantity	Alteration	≤ 150	Section 35	0.015	150
Pond A5	AL	1	June 1997	0.5 rod-h	-	-	-	-	-	-	-	-	-	0	0 fish/rod-h	Overprinted by pit	Loss	≤ 20,000	Section 35	2	20,000
Pond A5	EF	1	July 2009	596 s	-	-	-	-	-	-	-	3	-	3	0.30 fish/min	Overprinted by pit	Loss	≤ 20,000	Section 35	2	20,000
Pond A5	MT	1	July 2009	120.0 trap-h	-	-	-	-	-	-	-	4	-	4	0.80 fish/24h	Overprinted by pit	Loss	≤ 20,000	Section 35	2	20,000
Pond A5	EF	1	August 2020	345.8 s	-	-	-	-	-	-	-	33	-	33	9.54 fish/100s	Overprinted by pit	Loss	≤ 20,000	Section 35	2	20,000
Pond A5	MT	1	August 2020	387.6 (dec. h)	-	-	-	-	-	-	-	34	-	34	2.11 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 20,000	Section 35	2	20,000
Stream A5-6	EF	1	June 1997	800 s	-	-	13	-	-	-	-	80	-	93	6.98 fish/min	Overprinted by pit	Loss	≤ 850	Section 35	0.085	850
Stream A5-6	EF	1	July 1997	461 s	-	8	-	-	-	-	9	29	-	46	5.99 fish/min	Overprinted by pit	Loss	≤ 850	Section 35	0.085	850

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					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total							Total CPUE
Stream A5-6	EF	3	June 1998	2008 s	-	-	23	-	-	-	-	19	-	42	1.25 fish/min	Overprinted by pit	Loss	≤ 850	Section 35	0.085	850
Stream A5-6	EF	1	July 1998	540 s	1	4	11	-	-	-	-	7	-	23	2.56 fish/min	Overprinted by pit	Loss	≤ 850	Section 35	0.085	850
Stream A5-6	EF	1	August 1998	315 s	-	-	16	-	-	-	-	5	1	22	4.19 fish/min	Overprinted by pit	Loss	≤ 850	Section 35	0.085	850
Stream A5-6	EF	1	July 2009	648 s	-	-	10	-	-	-	9	53	2	74	6.85 fish/min	Overprinted by pit	Loss	≤ 850	Section 35	0.085	850
Stream A5-A19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overprinted by pit	Loss	≤ 800	Section 35	0.08	800
Lake A6	FN	2	July 2009	41.3 h	-	-	193	-	-	-	-	4	1	198	4.80 fish/h	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	GN	1	July 1997	0.42 net-units	-	-	8	-	1	-	-	-	-	9	21.60 fish/net-unit	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	GN	1	August 1997	0.46 net-units	-	-	1	-	2	-	-	-	-	3	6.55 fish/net-unit	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	GN	2	July 1998	0.83 net-units	-	-	4	-	1	-	-	-	-	5	6.00 fish/net-unit	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	GN	1	July 2009	0.54 net-units	-	-	5	-	-	-	-	-	-	5	9.23 fish/net-unit	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	MT	3	July 2009	235.8 trap-h	-	-	-	-	-	-	-	1	-	1	0.10 fish/24h	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	EF	1	August 2020	683.5 s	-	-	-	-	-	-	1	43	-	44	6.44 fish/100s	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	MT	1	August 2020	296.7 (dec. h)	-	-	-	-	-	-	-	42	-	42	3.40 (# fish per trap per 24 h)	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	AL	2	August 2020	0.6 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	AL	2	August 2020	0.4 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Lake A6	GN	14	August 2020	14.35 (dec. h)	1	-	5	-	-	-	-	-	-	6	0.58 (fish/100 m <sup>2</sup> /h)	Overprinted by pit; Loss of downstream connectivity	Loss; Alteration	≤ 55,2800	Section 35	55.28	552,800
Stream A6-7	EF	1	June 1997	829 s	-	-	17	-	-	-	6	5	-	28	2.03 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	June 1997	313 s	-	-	-	-	-	-	4	2	-	6	1.15 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	June 1998	624 s	-	-	4	-	-	-	2	1	-	7	0.67 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	June 2000	640 s	-	-	-	-	-	-	1	3	-	4	0.38 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	July 2000	450 s	-	-	-	-	-	-	5	8	-	13	1.73 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	Sept 2000	533 s	-	-	1	-	-	-	1	26	-	28	3.15 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	June 2008	409 s	-	-	1	-	-	-	3	18	-	22	3.23 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	June 1997	829 s	-	-	17	-	-	-	6	5	-	28	2.03 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-7	EF	1	July 1997	313 s	-	-	-	-	-	-	4	2	-	6	1.15 fish/min	Loss of connectivity	Loss; Alteration	≤ 210	Section 35	0.021	210
Stream A6-A31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity; Water quantity	Loss; Alteration	≤ 220	Section 35	0.022	220
Stream A6-A44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity	Alteration	≤ 520	Section 35	0.052	520
Pond A7	MT	1	August 2011	142.7 trap-h	-	-	-	-	-	-	-	257	-	257	43.22 fish/24h	Loss of downstream connectivity; Water quantity	Alteration	≤ 23,800	Section 35	2.38	23,800
Stream A7-8	EF	1	June 1997	345 s	-	-	4	-	-	-	2	10	-	16	2.78 fish/min	Loss of connectivity; Overprinted by pit	Loss; Alteration	≤ 150	Section 35	0.015	150
Stream A7-8	EF	1	July 1997	203 s	-	-	-	-	-	-	-	8	-	8	2.36 fish/min	Loss of connectivity; Overprinted by pit	Loss; Alteration	≤ 150	Section 35	0.015	150
Stream A7-8	EF	2	June 1998	1971 s	-	-	-	-	-	-	1	30	-	31	0.94 fish/min	Loss of connectivity; Overprinted by pit	Loss; Alteration	≤ 150	Section 35	0.015	150
Stream A7-8	EF	1	July 1998	300 s	-	-	1	-	-	-	-	12	-	13	2.60 fish/min	Loss of connectivity; Overprinted by pit	Loss; Alteration	≤ 150	Section 35	0.015	150
Stream A7-8	EF	1	August 1998	125 s	-	-	1	-	-	-	-	7	-	8	3.84 fish/min	Loss of connectivity; Overprinted by pit	Loss; Alteration	≤ 150	Section 35	0.015	150
Lake A8	GN	3	July 1997	1.10 net-units	-	-	14	-	-	-	-	-	-	14	12.68 fish/net-unit	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	GN	1	August 1997	0.58 net-units	-	-	4	-	-	-	-	-	-	4	6.86 fish/net-unit	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	GN	2	July 1998	0.96 net-units	-	-	1	-	-	-	-	-	-	1	1.04 fish/net-unit	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	EF	1	August 2020	1137.4 s	-	-	-	-	-	-	1	44	-	45	3.96 fish/100s	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	MT	1	August 2020	310.55 (dec. h)	-	-	-	-	-	-	-	344	-	344	26.50 (# fish per trap per 24 h)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	GN	11	August 2020	7.47 (dec. h)	-	-	18	-	-	-	-	-	-	18	3.16 (fish/100 m <sup>2</sup> /h)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	AL	2	August 2020	0.4 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	AL	2	August 2020	0.3 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	AL	2	August 2020	0.5 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	AL	2	August 2020	0.4 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Lake A8	AL	2	August 2020	0.5 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit and waste rock storage facility	Loss; Alteration	905,400	Section 35	90.54	905,400
Pond A19	MT	1	July 2012	186.5 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by pit	Loss	≤ 9,800	Section 35	0.98	9,800
Pond A19	EF	1	August 2020	727.1 s	-	-	-	-	-	-	-	16	-	16	2.2 fish/100s	Overprinted by pit	Loss	≤ 9,800	Section 35	0.98	9,800
Pond A19	MT	1	August 2020	212.80 (dec. h)	-	-	-	-	-	-	-	4	-	4	0.45 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 9,800	Section 35	0.98	9,800
Stream A19-A20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overprinted by pit	Loss	≤ 580	Section 35	0.058	580

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					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total							Total CPUE	
Pond A32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of downstream connectivity	Alteration	≤ 800	Section 35	0.08	800
Pond A34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of downstream connectivity	Alteration	≤ 3,100	Section 35	0.31	3,100
Pond A35	EF	1	July 2008	127 s	-	-	-	-	-	-	-	-	-	0	0 fish/min	Overprinted by pit	Loss	≤ 3,600	Section 35	0.36	3,600	
Pond A37	EF	1	July 2008	126 s	-	-	-	-	-	-	-	1	-	1	0.48 fish/min	Overprinted by pit	Loss	≤ 9,200	Section 35	0.92	9,200	
Pond A44	MT	1	August 2011	22.4 trap-h	-	-	-	-	-	-	-	1	-	1	1.07 fish/24h	Loss of downstream connectivity	Alteration	≤ 520	Section 35	0.82	8,200	
Pond A45	MT	1	August 2011	22.7 trap-h	-	-	-	-	-	-	-	23	-	23	24.32 fish/24h	Loss of downstream connectivity	Alteration	≤ 17,000	Section 35	1.7	17,000	
Pond A49	MT	1	August 2011	22.6 trap-h	-	-	-	-	-	-	-	1	-	1	1.06 fish/24h	Loss of downstream connectivity	Alteration	≤ 5,900	Section 35	0.59	5,900	
Pond A50	EF	1	July 2009	120 s	-	-	-	-	-	-	-	-	-	0	0 fish/min	Overprinted by pit	Loss	≤ 800	Section 35	0.08	800	
Pond A50	MT	1	July 2009	20.3 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by pit	Loss	≤ 800	Section 35	0.08	800	
Pond A50	EF	1	August 2020	338.8 s	-	-	-	-	-	-	-	22	-	22	6.49 fish/100s	Overprinted by pit	Loss	≤ 800	Section 35	0.08	800	
Pond A50	MT	1	August 2020	125.9 (dec. h)	-	-	-	-	-	-	-	113	-	113	21.56 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 800	Section 35	0.08	800	
Pond A51	EF	1	July 2009	273 s	-	-	-	-	-	-	-	2	-	2	0.44 fish/min	Overprinted by pit	Loss	≤ 4,400	Section 35	0.44	4,400	
Pond A51	MT	1	July 2009	41.5 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by pit	Loss	≤ 4,400	Section 35	0.44	4,400	
Pond A51	EF	1	August 2020	639.5 s	-	-	-	-	-	-	-	27	-	27	4.22 fish/100s	Overprinted by pit	Loss	≤ 4,400	Section 35	0.44	4,400	
Pond A51	MT	1	August 2020	279.4 (dec. h)	-	-	-	-	-	-	-	84	-	84	7.15 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 4,400	Section 35	0.44	4,400	
Pond A52	FN	2	August 2008	46.3 h	-	-	-	-	-	-	-	556	-	556	12.02 fish/h	Collection pond	Loss	70,700	Section 36	7.07	70,700	
Pond A52	GN	1	August 2008	3.28 net-units	-	-	-	-	-	-	-	-	-	0	0 fish/net-unit	Collection pond	Loss	70,700	Section 36	7.07	70,700	
Pond A52	MT	1	August 2008	144.0 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Collection pond	Loss	70,700	Section 36	7.07	70,700	
Pond A52	EF	1	August 2020	554.8 s	-	-	-	-	-	-	-	33	-	33	5.95 fish/100s	Collection pond	Loss	70,700	Section 36	7.07	70,700	
Pond A52	MT	1	August 2020	586.3 (dec. h)	-	-	-	-	-	-	-	108	-	108	4.48 (# fish per trap per 24 h)	Collection pond	Loss	70,700	Section 36	7.07	70,700	
Pond A53	EF	1	July 2009	133 s	-	-	-	-	-	-	-	11	-	11	4.96 fish/min	Overprinted by pit	Loss	≤ 600	Section 35	0.06	600	
Pond A53	MT	1	July 2009	21.0 trap-h	-	-	-	-	-	-	-	2	-	2	2.29 fish/24h	Overprinted by pit	Loss	≤ 600	Section 35	0.06	600	
Stream B0-1	EF	1	June 1997	974 s	-	3	25	-	3	-	9	7	14	61	3.76 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B0-1	EF	1	July 1997	500 s	1	2	12	-	-	3	11	1	23	53	6.36 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B0-1	EF	1	June 1998	638 s	-	-	-	-	-	1	-	1	-	2	0.19 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B0-1	EF	1	July 1998	450 s	-	-	2	-	1	-	3	2	9	17	2.27 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B0-1	EF	1	August 1998	280 s	-	-	10	-	-	-	1	-	14	25	5.36 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B1-2	EF	1	June 1997	717 s	-	-	9	-	-	-	1	2	-	12	1.00 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B1-2	EF	1	July 1997	419 s	-	10	21	-	-	-	1	1	1	34	4.87 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B1-2	EF	1	August 1997	358 s	17	-	2	-	-	-	2	3	-	24	4.02 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B1-2	EF	2	June 1998	1439 s	-	-	-	-	-	-	5	3	-	8	0.33 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B1-2	EF	1	July 1998	699 s	3	5	2	-	-	1	7	-	-	18	1.55 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B1-2	EF	1	August 1998	451 s	8	3	8	-	-	2	1	-	3	25	3.33 fish/min	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Lake B2	AL	1	June 1997	1.5 rod-h	-	-	4	-	-	-	-	-	-	4	2.67 fish/rod-h	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Lake B2	GN	2	July 1997	0.92 net-units	-	1	-	-	6	-	-	-	-	7	7.64 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Lake B2	GN	3	August 1997	1.63 net-units	-	-	6	-	10	-	-	-	-	16	9.85 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Lake B2	GN	1	July 1998	0.94 net-units	-	1	5	-	4	-	-	-	-	10	10.67 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Lake B2	GN	4	August 1998	3.48 net-units	-	3	2	-	14	-	-	-	-	19	5.46 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A	
Stream B03-B04	EF	1	June 1997	1025 s	-	-	10	-	-	2	1	10	-	23	1.35 fish/min	Loss of connectivity; Water quantity	Alteration	≤ 170	Section 35	0.017	170	
Stream B03-B04	EF	1	July 1997	605 s	1	2	3	-	-	4	15	2	-	27	2.68 fish/min	Loss of connectivity; Water quantity	Alteration	≤ 170	Section 35	0.017	170	
Stream B03-B04	EF	1	August 1997	141 s	-	-	2	-	-	-	-	-	-	2	0.85 fish/min	Loss of connectivity; Water quantity	Alteration	≤ 170	Section 35	0.017	170	
Stream B03-B04	EF	3	June 1998	2500 s	-	-	14	-	-	-	-	12	-	26	0.62 fish/min	Loss of connectivity; Water quantity	Alteration	≤ 170	Section 35	0.017	170	
Stream B03-B04	EF	1	July 1998	693 s	1	1	13	-	-	3	-	1	-	19	1.65 fish/min	Loss of connectivity; Water quantity	Alteration	≤ 170	Section 35	0.017	170	
Stream B03-B04	EF	1	August 1998	280 s	-	-	4	-	-	-	1	3	-	8	1.71 fish/min	Loss of connectivity; Water quantity	Alteration	≤ 170	Section 35	0.017	170	
Lake B4	AL	1	June 1997	0.5 rod-h	-	-	-	-	-	-	-	-	-	0	0 fish/rod-h	Collection pond	Loss	858,200	Section 36	85.82	858,200	
Lake B4	GN	3	July 1997	1.65 net-units	-	-	-	-	-	-	-	-	-	0	0 fish/net-unit	Collection pond	Loss	858,200	Section 36	85.82	858,200	
Lake B4	GN	2	July 1998	1.13 net-units	-	-	-	-	-	-	-	-	-	0	0 fish/net-unit	Collection pond	Loss	858,200	Section 36	85.82	858,200	
Lake B4	FN	1	July 2011	16.3 h	-	-	1	-	-	-	-	19	-	20	1.23 fish/h	Collection pond	Loss	858,200	Section 36	85.82	858,200	

Table 4.1-1: Fish Species Observed in Waterbodies and Watercourses

Site	Sampling Method	No. of Sampling Events	Month & Year	Sampling Effort	Fish Captured											Potential Effect from Meliadine Extension	Impact	Size of Impact (m <sup>2</sup> )	Fisheries Act Section 35/36	Area (Ha)	Area (m <sup>2</sup> )
					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total	Total CPUE						
Lake B4	MT	1	July 2011	50.1 trap-h	-	-	-	-	-	-	-	2	-	2	0.96 fish/24h	Collection pond	Loss	858,200	Section 36	85.82	858,200
Lake B4	EF	1	August 2020	1405.2 s	-	-	1	-	-	-	-	9	-	10	0.71 fish/100s	Collection pond	Loss	858,200	Section 36	85.82	858,200
Lake B4	MT	1	August 2020	844.1 (dec. h)	-	-	-	-	-	-	-	108	-	108	2.86 (# fish per trap per 24 h)	Collection pond	Loss	858,200	Section 36	85.82	858,200
Lake B4	GN	3	August 2020	3.2 (dec. h)	-	-	1	-	-	-	-	-	-	1	0.41(fish/100 m <sup>2</sup> /h)	Collection pond	Loss	858,200	Section 36	85.82	858,200
Lake B4	AL	2	August 2020	0.7 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Collection pond	Loss	858,200	Section 36	85.82	858,200
Lake B4	AL	2	August 2020	0.9 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Collection pond	Loss	858,200	Section 36	85.82	858,200
Stream B4-B5	EF	1	June 1997	310 s	-	-	-	-	-	-	-	19	-	19	3.68 fish/min	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B5	EF	1	July 1997	471 s	-	-	5	-	-	-	5	32	-	42	5.35 fish/min	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B5	EF	1	August 1997	164 s	-	-	1	-	-	-	1	12	-	14	5.12 fish/min	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B5	EF	2	June 1998	852 s	-	-	-	-	-	-	2	16	-	18	1.27 fish/min	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B5	EF	1	July 1998	400 s	-	-	2	-	-	1	1	7	-	11	1.65 fish/min	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B5	EF	1	August 1998	215 s	-	-	7	-	-	-	-	3	-	10	2.79 fish/min	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B5	DN	1	August 2020	0	-	-	-	-	-	-	-	-	-	0	0	Loss of connectivity, Collection Pond, Berm	Loss	130	Section 36	0.013	130
Stream B4-B22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond	Loss	680	Section 36	0.068	680
Stream B4-B36	EF	1	June 1997	296 s	-	-	-	-	-	-	-	343	-	343	69.53 fish/min	Loss of connectivity, Collection Pond and Overprinted by pit	Loss	130	Section 36	0.013	130
Stream B4-B39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond	Loss	330	Section 36	0.033	330
Stream B4-B45	EF	1	June 1997	172 s	-	-	-	-	-	-	-	6	-	6	2.09 fish/min	Loss of connectivity, Collection Pond	Loss	120	Section 36	0.012	120
Stream B4-B44	EF	1	July 2011	634 s	-	-	-	-	-	-	-	3	-	3	0.28 fish/min	Loss of connectivity	Loss	-	Section 35	-	-
Lake B5	AL	2	June 1997	1.0 rod-h	-	-	-	-	-	-	-	-	-	0	0 fish/rod-h	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	AL	1	July 1997	0.5 rod-h	-	-	1	-	-	-	-	-	-	1	2.00 fish/rod-h	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	GN	1	July 1997	0.31 net-units	-	-	9	-	-	-	-	-	-	9	28.80 fish/net-unit	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	GN	1	August 1997	0.63 net-units	-	-	4	-	-	-	-	-	-	4	6.40 fish/net-unit	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	GN	1	July 1998	1.27 net-units	-	-	14	-	-	-	-	-	-	14	11.02 fish/net-unit	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	GN	1	August 1998	7.13 net-units	-	-	11	-	-	1	-	-	-	12	1.68 fish/net-unit	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	FD	1	June 1998	-	-	-	-	-	-	1	-	-	-	1	-	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	EF	1	August 2020	1621.8 s	-	-	1	-	-	-	-	6	-	7	0.43 fish/100s	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	MT	1	August 2020	751.2 (dec. h)	-	-	1	-	-	-	-	99	-	100	3.20 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	GN	5	August 2020	4.2 (dec. h)	-	-	3	-	-	-	-	-	-	3	0.92 (fish/100 m <sup>2</sup> /h)	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	AL	1	August 2020	0.2 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	AL	2	August 2020	0.3 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	AL	2	August 2020	0.8 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Lake B5	AL	2	August 2020	0.6 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by pit	Loss	≤ 567,400	Section 35	56.74	567,400
Stream B5-B6	EF	1	June 1997	276 s	-	-	-	-	-	-	1	34	-	35	7.61 fish/min	Water quality	Alteration	≤ 90	Section 35	0.009	90
Stream B5-B6	EF	1	July 1997	248 s	-	-	19	-	-	-	-	21	-	40	9.68 fish/min	Water quality	Alteration	≤ 90	Section 35	0.009	90
Stream B5-B6	EF	2	June 1998	1103 s	-	-	1	-	-	-	-	24	-	25	1.36 fish/min	Water quality	Alteration	≤ 90	Section 35	0.009	90
Stream B5-B6	EF	1	July 1998	220 s	-	-	11	-	-	-	1	8	-	20	5.45 fish/min	Water quality	Alteration	≤ 90	Section 35	0.009	90
Stream B5-B6	EF	1	August 1998	184 s	-	-	2	-	-	-	-	-	-	2	0.65 fish/min	Water quality	Alteration	≤ 90	Section 35	0.009	90
Stream B5-B31	DN	2	August 2020	-	-	-	-	-	-	-	-	-	-	0	0	Loss of connectivity	Alteration	≤ 210	Section 35	0.021	210
Stream B5-B31	EF	1	July 2011	474 s	-	-	2	-	-	-	1	13	-	16	2.03 fish/min	Loss of connectivity	Alteration	≤ 210	Section 35	0.021	210
Stream B5-B33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity; Overprinted by pit	Loss; Alteration	≤ 1,480	Section 35	0.148	1,480
Stream B5-B34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity due to WRSF	Loss; Alteration	1,350	Section 36	0.135	1,350
Lake B6	AL	1	July 1997	1.0 rod-h	-	-	2	-	-	-	-	-	-	2	2.00 fish/rod-h	Loss of downstream connectivity; Water quantity	Alteration	≤ 118,000	Section 35	11.8	118,000
Lake B6	FN	1	July 2008	22.5 h	-	-	1	-	3	-	-	6	-	10	0.44 fish/h	Loss of downstream connectivity; Water quantity	Alteration	≤ 118,000	Section 35	11.8	118,000
Lake B6	FN	1	July 2008	21.0 h	-	-	-	-	-	-	-	-	-	0	0 fish/h	Loss of downstream connectivity; Water quantity	Alteration	≤ 118,000	Section 35	11.8	118,000
Lake B6	EF	1	August 2020	830.2 s	-	-	-	-	-	-	6	4	-	10	1.2 fish/100s	Loss of downstream connectivity; Water quantity	Alteration	≤ 118,000	Section 35	11.8	118,000
Lake B6	MT	1	August 2020	710.7 (dec. h)	-	-	-	-	-	-	-	38	-	38	1.28 (# fish per trap per 24 h)	Loss of downstream connectivity; Water quantity	Alteration	≤ 118,000	Section 35	11.8	118,000
Stream B6-B7	DN	2	August 2020	47.98 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (no. fish/m <sup>3</sup> of water filtered)	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B7	EF	1	June 1997	543 s	-	-	8	-	-	-	1	4	-	13	1.44 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460

Table 4.1-1: Fish Species Observed in Waterbodies and Watercourses

Site	Sampling Method	No. of Sampling Events	Month & Year	Sampling Effort	Fish Captured										Total CPUE	Potential Effect from Meliadine Extension	Impact	Size of Impact (m <sup>2</sup> )	Fisheries Act Section 35/36	Area (Ha)	Area (m <sup>2</sup> )
					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total							
Stream B6-B7	EF	1	July 1997	162 s	-	-	26	-	-	-	-	4	-	30	11.11 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B7	EF	1	August 1997	115 s	-	-	1	-	-	-	-	3	-	4	2.09 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B7	EF	1	June 1998	971 s	-	-	-	-	-	2	2	13	-	17	1.05 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B7	EF	1	June 1998	466 s	-	-	3	-	-	-	-	1	-	4	0.52 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B7	EF	1	July 1998	438 s	-	-	8	-	-	-	6	6	-	20	2.74 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B7	EF	1	August 1998	304 s	-	-	8	-	-	-	2	-	-	10	1.97 fish/min	Loss of connectivity, Collection Pond, Dike	Loss; Alteration	460	Section 36	0.046	460
Stream B6-B30	DN	2	August 2020	46.75 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (no. fish/m <sup>3</sup> of water filtered)	Loss of connectivity	Alteration	≤ 10	Section 35	0.001	10
Lake B7	AL	1	June 1997	1.0 rod-h	-	-	3	-	-	-	-	-	-	3	3.00 fish/rod-h	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	AL	1	July 1997	0.8 rod-h	-	-	2	-	-	-	-	-	-	2	2.67 fish/rod-h	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	AL	1	August 1998	5.0 rod-h	-	-	-	-	-	-	-	-	-	0	0 fish/rod-h	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	FD	1	July 1998	-	-	-	-	-	-	1	-	-	-	1	-	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	FN	4	July 1998	75.0 h	-	-	215	-	-	1	-	4	-	220	2.93 fish/h	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	FN	3	August 2008	63.5 h	-	-	77	-	6	1	-	-	-	84	1.32 fish/h	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	GN	1	July 1997	0.54 net-units	-	-	3	-	1	-	-	-	-	4	7.38 fish/net-unit	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	GN	1	August 1997	0.63 net-units	-	-	-	-	4	-	-	-	-	4	6.40 fish/net-unit	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	GN	2	July 1998	1.08 net-units	-	-	4	-	2	-	-	-	-	6	5.54 fish/net-unit	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	GN	11	August 1998	7.55 net-units	-	-	3	-	9	-	-	-	-	12	1.59 fish/net-unit	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	GN	5	July 2008	1.48 net-units	-	-	10	-	13	-	-	-	-	23	15.55 fish/net-unit	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	EF	1	August 2020	942.3 s	-	-	-	-	-	1	-	3	-	4	0.42 fish/100s	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	MT	1	August 2020	467.5 (dec. h)	-	-	-	-	-	-	-	284	-	284	14.43 (# fish per trap per 24 h)	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	GN	3	August 2020	1.0 (dec. h)	-	-	10	-	3	-	-	-	-	13	15.31 (fish/100 m <sup>2</sup> /h)	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	AL	2	August 2020	0.2 (dec. h)	-	-	1	-	-	-	-	-	-	1	4.00 (fish/rod/hour)	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Lake B7	AL	1	August 2020	0.2 (dec. h)	-	-	-	-	-	-	-	-	-	0	0.00 (fish/rod/hour)	Saline pond	Loss	5,781,000	Section 36	57.81	5,781,000
Stream B7-B8	EF	1	June 1998	348 s	-	-	-	-	-	-	-	1	-	1	0.17 fish/min	Loss of connectivity, Collection Pond, WRSF	Loss	260	Section 36	0.026	260
Stream B7-B25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond	Loss	1,580	Section 36	0.158	1,580
Stream B7-B28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond	Loss	260	Section 36	0.026	260
Stream B8-B9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond, WRSF	Loss	-	Section 36	-	-
Stream B9-B10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond, WRSF, Pit	Loss	-	Section 36	-	-
Pond B19	OB	1	July 2012	-	-	-	-	-	-	-	-	2	-	2	-	Overprinted by infrastructure; Loss of downstream connectivity	Alteration; Loss	≤ 15,700	Section 35	1.57	15,700
Pond B22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of downstream connectivity	Alteration; Loss	≤ 3500	Section 35	0.35	3,500
Pond B25	EF	1	July 2009	481 s	-	-	-	-	-	-	-	3	-	3	0.37 fish/min	Loss of downstream connectivity; Overprinted by pit	Alteration; Loss	15,800	Section 36	1.58	15,800
Pond B25	MT	1	July 2009	73.5 trap-h	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Loss of downstream connectivity; Overprinted by pit	Alteration; Loss	15,800	Section 36	1.58	15,800
Pond B25	EF	1	August 2020	1587.7 s	-	-	-	-	-	-	-	11	-	11	0.69 fish/100s	Loss of downstream connectivity; Overprinted by pit	Alteration; Loss	15,800	Section 36	1.58	15,800
Pond B25	MT	1	August 2020	438.2 (dec. h)	-	-	-	-	-	-	-	26	-	26	1.43 (# fish per trap per 24 h)	Loss of downstream connectivity; Overprinted by pit	Alteration; Loss	15,800	Section 36	1.58	15,800
Stream B26-B25	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	Loss of connectivity	Alteration	≤ 780	Section 35	0.078	780
Pond B30	EF	1	July 2008	156 s	-	-	-	-	-	-	-	10	-	10	3.85 fish/min	Loss of downstream connectivity	Alteration	≤ 900	Section 35	0.09	900
Pond B30	MT	1	July 2008	44.2 trap-h	-	-	-	-	-	-	-	4	-	4	2.17 fish/24h	Loss of downstream connectivity	Alteration	≤ 900	Section 35	0.09	900
Pond B30	EF	1	July 2011	140 s	-	-	-	-	-	-	-	3	-	3	1.29 fish/min	Loss of downstream connectivity	Alteration	≤ 900	Section 35	0.09	900
Pond B30	MT	1	July 2011	11.8 trap-h	-	-	-	-	-	-	-	20	-	20	40.68 fish/24h	Loss of downstream connectivity	Alteration	≤ 900	Section 35	0.09	900
Pond B30	EF	1	August 2020	366.7 s	-	-	-	-	-	-	-	5	-	5	1.36 fish/100s	Loss of downstream connectivity	Alteration	≤ 900	Section 35	0.09	900
Pond B30	MT	1	August 2020	115.3 (dec. h)	-	-	-	-	-	-	-	-	-	0	0 (# fish per trap per 24 h)	Loss of downstream connectivity	Alteration	≤ 900	Section 35	0.09	900
Stream B30-B31	EF	1	July 2011	460 s	-	-	2	-	-	-	-	2	-	4	0.52 fish/min	Loss of downstream connectivity	Alteration	≤ 160	Section 35	0.016	160
Stream B30-B31	MT	1	July 2011	5.4 trap-h	-	-	-	-	-	-	-	5	-	5	22.22 fish/24h	Loss of downstream connectivity	Alteration	≤ 160	Section 35	0.016	160
Pond B31	EF	1	July 2008	125 s	-	-	-	-	-	-	-	25	-	25	12.00 fish/min	Loss of downstream connectivity	Alteration	≤ 1,300	Section 35	0.13	1,300
Pond B31	MT	1	July 2008	44.2 trap-h	-	-	-	-	-	-	-	2	-	2	1.09 fish/24h	Loss of downstream connectivity	Alteration	≤ 1,300	Section 35	0.13	1,300
Pond B31	EF	1	August 2020	658.2 s	-	-	-	-	-	-	-	14	-	14	2.13 fish/100s	Loss of downstream connectivity	Alteration	≤ 1,300	Section 35	0.13	1,300
Pond B31	MT	1	August 2020	178.6 (dec. h)	-	-	-	-	-	-	-	2	-	2	0.27 (# fish per trap per 24 h)	Loss of downstream connectivity	Alteration	≤ 1,300	Section 35	0.13	1,300
Stream B31-B32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overprinted by waste rock storage facility	Loss	480	Section 36	0.048	480

Table 4.1-1: Fish Species Observed in Waterbodies and Watercourses

Site	Sampling Method	No. of Sampling Events	Month & Year	Sampling Effort	Fish Captured											Potential Effect from Meliadine Extension	Impact	Size of Impact (m <sup>2</sup> )	Fisheries Act Section 35/36	Area (Ha)	Area (m <sup>2</sup> )	
					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total	Total CPUE							
Pond B32	EF	1	July 2011	302 s	-	-	-	-	-	-	-	-	1	-	1	0.20 fish/min	Overprinted by waste rock storage facility	Loss	6,000	Section 36	0.6	6,000
Pond B32	EF	1	July 2008	294 s	-	-	-	-	-	-	-	-	-	-	0	0 fish/min	Overprinted by waste rock storage facility	Loss	6,000	Section 36	0.6	6,000
Pond B32	MT	1	July 2008	43.5 trap-h	-	-	-	-	-	-	-	-	1	-	1	0.55 fish/24h	Overprinted by waste rock storage facility	Loss	6,000	Section 36	0.6	6,000
Pond B32	MT	1	August 2020	325.8 (dec. h)	-	-	-	-	-	-	-	-	10	-	10	0.73 (# fish per trap per 24 h)	Overprinted by waste rock storage facility	Loss	6,000	Section 36	0.6	6,000
Pond B32	EF	1	August 2020	603.7 s	-	-	-	-	-	-	-	-	30	-	30	4.97 fish/100s	Overprinted by waste rock storage facility	Loss	6,000	Section 36	0.6	6,000
Lake B34	FN	1	July 2011	16.4 h	-	-	-	-	-	-	-	-	282	-	282	17.20 fish/h	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Lake B34	GN	1	July 2011	0.13 net-units	-	-	-	-	-	-	-	-	-	-	0	0 fish/net-unit	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Lake B34	MT	1	July 2011	50.1 trap-h	-	-	-	-	-	-	-	-	56	-	56	26.83 fish/24h	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Lake B34	EF	1	August 2020	568.7 s	-	-	-	-	-	-	-	-	28	-	28	4.92 fish/100s	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Lake B34	GN	4	August 2020	4.37 (dec. h)	-	-	-	-	-	-	-	-	-	-	0	0 (fish/100 m <sup>2</sup> /h)	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Lake B34	MT	1	August 2020	378.3 (dec. h)	-	-	-	-	-	-	-	-	47	-	47	2.97 (# fish per trap per 24 h)	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Lake B34	AL	2	August 2020	0.83 (dec. h)	-	-	-	-	-	-	-	-	-	-	0	0 (fish/rod/hour)	Overprinted by waste rock storage facility	Loss	43,700	Section 36	4.37	43,700
Pond B36	EF	1	July 2011	517 s	-	-	-	-	-	-	-	-	5	-	5	0.58 fish/min	Overprinted by pit	Loss	≤ 79,300	Section 35	7.93	79,300
Pond B36	MT	1	July 2011	50.4 trap-h	-	-	-	-	-	-	-	-	138	-	138	65.71 fish/24h	Overprinted by pit	Loss	≤ 79,300	Section 35	7.93	79,300
Pond B36	EF	1	August 2020	879.6 s	-	-	-	-	-	-	-	-	16	-	16	1.82 fish/100s	Overprinted by pit	Loss	≤ 79,300	Section 35	7.93	79,300
Pond B36	MT	1	August 2020	176.7 (dec. h)	-	-	-	-	-	-	-	-	9	-	9	1.22 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 79,300	Section 35	7.93	79,300
Stream B36-B37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	Overprinted by pit	Loss	≤ 260	Section 35	0.026	260
Pond B37	OB	1	August 2011	-	-	-	-	-	-	-	-	-	8	-	8	-	Overprinted by pit	Loss	≤ 8,000	Section 35	0.8	8,000
Pond B37	EF	1	August 2020	1266.7 s	-	-	-	-	-	-	-	-	7	-	7	0.55 fish/100s	Overprinted by pit	Loss	≤ 8,000	Section 35	0.8	8,000
Pond B37	MT	1	August 2020	178.6 (dec. h)	-	-	-	-	-	-	-	-	3	-	3	0.40 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 8,000	Section 35	0.8	8,000
Stream B37-B38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	Overprinted by pit	Loss	≤ 250	Section 35	0.025	250
Pond B38	OB	1	August 2011	--	-	-	-	-	-	-	-	-	20	-	20	--	Overprinted by pit	Loss	≤ 33,000	Section 35	3.3	33,000
Pond B38	EF	1	August 2020	1295.2 s	-	-	-	-	-	-	-	-	8	-	8	0.62 fish/100s	Overprinted by pit	Loss	≤ 33,000	Section 35	3.3	33,000
Pond B38	MT	1	August 2020	180.9 (dec. h)	-	-	-	-	-	-	-	-	5	-	5	0.66 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 33,000	Section 35	3.3	33,000
Pond B39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of downstream connectivity	Alteration	≤ 11,800	Section 35	1.18	11,800
Lake B59	MT	1	July 2012	68.9 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Loss of downstream connectivity	Alteration	≤ 48,900	Section 35	4.89	48,900
Lake B59	OB	1	July 2012	-	-	-	2	-	-	-	-	-	-	-	2	-	Loss of downstream connectivity	Alteration	≤ 48,900	Section 35	4.89	48,900
Stream B59-B60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Collection Pond, Sumps	Loss	200	Section 36	0.02	200
Stream B59-B62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overprinted by sump, Vent raise	Loss	250	Section 36	0.025	250
Lake B60	MT	1	July 2012	103.2 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Collection sump	Loss	9,800	Section 36	0.98	9,800
Lake B60	EF	1	August 2020	1601.6 s	-	-	-	-	-	-	-	-	-	-	0	0 fish/100s	Collection sump	Loss	9,800	Section 36	0.98	9,800
Lake B60	MT	1	August 2020	303.2 (dec. h)	-	-	-	-	-	-	-	-	-	-	0	0 (# fish per trap per 24 h)	Collection sump	Loss	9,800	Section 36	0.98	9,800
Stream B60-B61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Loss of connectivity, Overprinted by sump	Loss	150	Section 36	0.015	150
Pond B61	MT	1	July 2012	121.5 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by salt rock pile	Loss	11,600	Section 36	1.16	11,600
Pond B61	EF	1	August 2020	1561.3 s	-	-	-	-	-	-	-	-	-	-	0	0 fish/100s	Overprinted by salt rock pile	Loss	11,600	Section 36	1.16	11,600
Pond B61	MT	1	August 2020	305.2 (dec. h)	-	-	-	-	-	-	-	-	1	-	1	0.08 (# fish per trap per 24 h)	Overprinted by salt rock pile	Loss	11,600	Section 36	1.16	11,600
Pond B62	MT	1	July 2012	81.1 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by pit	Loss	≤ 17,900	Section 35	1.79	17,900
Pond B62	OB	1	August 2011	-	-	-	-	-	-	-	-	-	15	-	15	-	Overprinted by pit	Loss	≤ 17,900	Section 35	1.79	17,900
Pond B62	OB	1	July 2012	-	-	-	-	-	-	-	-	-	1	-	1	-	Overprinted by pit	Loss	≤ 17,900	Section 35	1.79	17,900
Pond B62	EF	1	August 2020	1693.7 s	-	-	-	-	-	-	-	-	16	-	16	0.94 fish/100s	Overprinted by pit	Loss	≤ 17,900	Section 35	1.79	17,900
Pond B62	MT	1	August 2020	498.1 (dec. h)	-	-	-	-	-	-	-	-	30	-	30	1.44 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 17,900	Section 35	1.79	17,900
Pond B63	EF	1	August 2020	-	-	-	-	-	-	-	-	-	2	-	2	0.65 fish/100s	Loss of downstream connectivity	Loss	≤ 300	Section 35	0.03	300
Pond D31	EF	1	August 2020	1741.9 s	-	-	-	-	-	-	-	-	-	-	0	0 fish/100s	Overprinting by ore stockpile	Loss	9,100	Section 36	0.91	9,100
Pond D31	MT	1	August 2020	569.8 (dec. h)	-	-	-	-	-	-	-	-	1	-	1	0.04 (# fish per trap per 24 h)	Overprinting by ore stockpile	Loss	9,100	Section 36	0.91	9,100
Stream D4-D33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overprinted by infrastructure	Loss	≤ 3,170	Section 35	0.317	3,170
Stream D5-D6	EF	1	June 1997	415 s	-	-	-	-	-	-	-	-	28	-	28	4.05 fish/min	Overprinted by infrastructure	Loss	≤ 4,130	Section 35	0.413	4,130
Stream D5-D6	EF	1	July 1997	296 s	-	-	-	-	-	-	-	-	343	-	343	69.53 fish/min	Overprinted by infrastructure	Loss	≤ 4,130	Section 35	0.413	4,130
Stream H1-H19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Overprinted by infrastructure	Loss	-	Section 35	-	-

Table 4.1-1: Fish Species Observed in Waterbodies and Watercourses

Site	Sampling Method	No. of Sampling Events	Month & Year	Sampling Effort	Fish Captured											Potential Effect from Meliadine Extension	Impact	Size of Impact (m <sup>2</sup> )	Fisheries Act Section 35/36	Area (Ha)	Area (m <sup>2</sup> )	
					ARCH	LKTR	ARGR	RNWH	CISC	BURB	SLSC	NSSB	TSSB	Total	Total CPUE							
Pond H15e	EF	1	July 2009	192 s	-	-	-	-	-	-	-	-	-	-	0	0 fish/min	Loss of downstream connectivity	Alteration	≤ 2,100	Section 35	0.21	2,100
Pond H15e	MT	1	July 2009	60.0 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Loss of downstream connectivity	Alteration	≤ 2,100	Section 35	0.21	2,100
Pond I1	FN	1	July 2012	15.4 h	-	-	-	-	-	-	-	-	-	-	0	0 fish/h	Overprinted by pit	Loss	≤ 76,300	Section 35	7.63	76,300
Lake J1	GN	1	July 2009	6.5 net units	-	-	-	-	-	-	-	-	-	-	0	0 fish/net-unit	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake J1	MT	1	July 2009	195.3 trap-h	-	-	-	-	-	-	-	-	14	-	14	1.72 fish/24 h	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake J1	FN	1	July 2012	16.3 h	-	-	-	-	-	-	-	-	1	-	1	0.06 fish/h	Downstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Pond J2	OB	1	August 2011	--	-	-	-	-	-	-	-	-	20	-	20	--	Overprinted by waste rock storage facility	Loss	18,900	Section 36	1.89	18,900
Pond J2	MT	1	July 2012	28.9 trap-h	-	-	-	-	-	-	-	-	1	-	1	1 fish/24h	Overprinted by waste rock storage facility	Loss	18,900	Section 36	1.89	18,900
Pond J3	MT	1	July 2012	13.7 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by waste rock storage facility	Loss	14,700	Section 36	1.47	14,700
Pond J4	MT	1	July 2012	13.4 trap-h	-	-	-	-	-	-	-	-	1	-	1	2 fish/24h	Loss of downstream connectivity	Alteration	≤ 2,200	Section 35	0.22	2,200
Pond J5	MT	1	July 2012	13.3 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by pit	Loss	≤ 1,800	Section 35	0.18	1,800
Pond J6	MT	1	July 2012	13.3 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Overprinted by pit	Loss	≤ 17,500	Section 35	1.75	17,500
Pond J6	EF	1	September 2021	988.1 s	-	-	-	-	-	-	-	-	-	-	0	0 fish/100s	Overprinted by pit	Loss	≤ 17,500	Section 35	1.75	17,500
Pond J6	MT	1	September 2021	288.0 (dec. h)	-	-	-	-	-	-	-	-	-	-	0	0 (# fish per trap per 24 h)	Overprinted by pit	Loss	≤ 17,500	Section 35	1.75	17,500
Pond J7	MT	1	July 2012	28.0 trap-h	-	-	-	-	-	-	-	-	1	-	1	1 fish/24h	Overprinted by pit	Loss	≤ 35,100	Section 35	3.57	35,100
Pond J8	MT	1	July 2012	29.0 trap-h	-	-	-	-	-	-	-	-	1	-	1	1 fish/24h	Overprinted by waste rock storage facility	Loss	13,500	Section 36	1.35	13,500
Lake CH6	FN	2	August 2008	42.8 h	-	4	10	-	-	1	-	-	-	-	15	0.35 fish/h	Upstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake CH6	GN	3	August 2008	1.92 net-units	-	13	2	-	-	-	-	-	-	-	15	7.83 fish/net-unit	Upstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A
Lake CH6	MT	1	August 2008	94.0 trap-h	-	-	-	-	-	-	-	-	-	-	0	0 fish/24h	Upstream of 2014 NIRB Approved Footprint	N/A	N/A	N/A	N/A	N/A

Notes:

MT- Minnow Trapping, EF- Electrofishing, OB- Observed, FN-Fyke net, GN- Gill net, FD- Found dead.

-' = no fish captured

N/A- Not within NIRB approved footprint

The size of impact is a conservative estimate and impacts will likely be less. Final impacts to be determined through offsetting monitoring.