

THE REGIONAL DISTRICT OF EAST KOOTENAY
MOSQUITO CONTROL PROGRAM
WASA/TA TA CREEK/SKOOKUMCHUCK MOSQUITO CONTROL EXTENDED SERVICE
AREA

SEASON END REPORT
DECEMBER 2010

PROGRAM STAFF:

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CONTAINING:

Summary of 2010 Season Activities

Morrow BioScience Ltd.

SUMMARY OF ACTIVITIES

The mosquito control season started with cool weather during the months of April and May, resulting in a slow snowmelt and gradually rising river levels. No treatments were necessary until mid-June when several of the mosquito producing sites began to accumulate standing water. Due to the lack of large scale flooding, all sites were able to be treated with larvicide from the ground by backpack blower.

Treatments were initiated on June 17th in the Skookumchuck Bench area following a peak in Kootenay river levels in late May. Following this date, other sites became active from seepage due to hydraulic pressure from the elevated river level. These sites were monitored and treated, as required, over the following weeks. The river again became elevated in mid to late June resulting in further seepage and treatments. It was a slightly shorter than normal season with the last day of treatment on July 7th due to below average snowpack in the mountains. The balance of July and August were spent monitoring the Wasa/Skookumchuck areas to ensure no additional breeding sites became active. The TaTa Creek area did not need to be treated this season because there was no flooding on the TaTa Creek side of the Kootenay River.

There are numerous culverts in the Wasa area which serve to hold back flood waters, via flap-gate valves, and allow trapped water to drain once the river level recedes sufficiently. This season, several of these culverts were obstructed due to beaver activity. This resulted in some new areas accumulating and holding water, and thereby requiring treatment.

Larvicide Applications

DATE	LOCATION	PRODUCT	QUANTITY APPLIED (kg)	AREA (ha)	APPLICATION MODE
Jun 17	1st Pond on Highway	Aquabac	109.2	18.200	Blower
Jun 17	Skookumchuck Breakaways	Aquabac	36.4	6.067	Blower
Jun 17	Budda Field	Aquabac	72.8	12.133	Blower
Jun 22	Sawdust Pile	Aquabac	13.65	2.275	Blower
Jun 22	Wasa Lake Pond	Aquabac	4.55	0.758	Blower
Jun 22	Rokosh Pond	Aquabac	9.1	1.517	Blower
Jun 22	Family Beach Edge	Aquabac	4.55	0.758	Blower
Jun 22	Burton Burg's Edge	Aquabac	9.1	1.517	Blower
Jun 22	Tower Pond	Aquabac	4.55	0.758	Blower
Jun 22	Tower Crossing	Aquabac	9.1	1.517	Blower
Jun 22	Hansen's Channel	Aquabac	4.55	0.758	Blower
Jun 22	Moan's Railway Pond	Aquabac	9.1	1.517	Blower
Jun 22	1st Pond on Highway	Aquabac	4.55	0.758	Blower
Jun 23	Sweet Tooth	Aquabac	100.1	16.683	Blower
Jun 23	2nd Pond on Highway	Aquabac	9.1	1.517	Blower
Jun 23	Prairie Road	Aquabac	72.8	12.133	Blower
Jun 23	Thunderhoof Ranch	Aquabac	36.4	6.067	Blower
Jun 23	Bearclaw Ranch	Aquabac	109.2	18.200	Blower
Jun 25	Lazy Lake Channel	Aquabac	18.2	3.033	Blower

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Jun 25	Main Beach Pond	Aquabac	4.55	0.758	Blower
Jun 25	Rokosh Pond	Aquabac	4.55	0.758	Blower
Jun 28	Budda Field	Aquabac	54.6	9.100	Blower
Jun 28	Sweet Tooth	Aquabac	91	15.167	Blower
Jun 29	Thunderhoof Highway Pond	Aquabac	18.2	3.033	Blower
Jun 29	Prairie Road Pond on Highway	Aquabac	18.2	3.033	Blower
Jun 29	Tower Crossing	Aquabac	45.5	7.583	Blower
Jun 29	Tower Pond	Aquabac	9.1	1.517	Blower
Jun 29	Muskrat Ranch	Aquabac	36.4	6.067	Blower
Jun 29	Sweet Tooth	Aquabac	236.6	39.433	Blower
Jun 30	Sweet Tooth	Aquabac	27.3	4.550	Blower
Jun 30	Hansen's Channel	Aquabac	9.1	1.517	Blower
Jun 30	1st Pond on Highway	Aquabac	36.4	6.067	Blower
Jun 30	Thunderhoof Ranch	Aquabac	27.3	4.550	Blower
Jun 30	Thunderhoof Pond on Highway	Aquabac	9.1	1.517	Blower
Jun Total			1264.9	210.817	
Jul 1	Prairie Road	Aquabac	45.5	7.583	Blower
Jul 1	Sweet Tooth	Aquabac	72.8	12.133	Blower
Jul 1	Whites Channel	Aquabac	9.1	1.517	Blower
Jul 6	Channel between Prairie Rd & Dump Rd	Aquabac	18.2	3.033	Blower
Jul 6	Muskrat Ranch	Aquabac	109.2	18.200	Blower
Jul 7	Hansen Channel	Aquabac	4.55	0.758	Blower
Jul 7	Rokosh	Aquabac	4.55	0.758	Blower
Jul 7	Main Beach Pond	Aquabac	9.1	1.517	Blower
Jul 8	Sweet Tooth	Aquabac	36.4	6.067	Blower
Jul 8	Prairie Road	Aquabac	36.4	6.067	Blower
Jul 9	Burton Burg Channel	Aquabac	18.2	3.033	Blower
Jul 9	Whites Channel	Aquabac	18.2	3.033	Blower
Jul Total			382.2	63.700	
Grand Total			1647.1	274.517	

SEASON TOTALS

	QUANTITY APPLIED (kg)	AREA (ha)	APPLICATION MODE
	0.0	0.0	aerial
	1647.1	274.52	blower
	0.00	0.00	hand
Grand Total	1,647.1	274.52	

DISCUSSION

In an effort to assist all areas in broadcasting a uniform message regarding mosquito control and WNV, Morrow BioScience Ltd. operates a comprehensive website. This site can be found at www.morrowbioscience.com. MBL would encourage people to utilize this resource to help answer any questions they may have. MBL would also encourage the RDEK to provide a link to this website from their municipal site for easy access to local residents.

A summary of costs for this season is as follows:

Base Contract (less pesticides):	\$49,500.00
Larvicide (80 bags):	8,008.00
Treatment over 900ha:	0.00
HST:	2,970.00
PST:	560.56
GST:	<u>1,637.90</u>
	\$62,676.46

A total of 1647.1kg of larvicide or approximately 90.5 bags (18.2kg/bag) were applied to 274.52ha during the season. The season was started with 218 bags carried over from last season, there was a purchase of 80 bags, and therefore there are 207.5 bags in stock for next year.

Plans for Mosquito Control Program Improvements – Future Seasons

- Continue to liaise with the farmers who have control over opening Lewis Creek and coordinate the flow with the Kootenay River level.
- Explore solutions to the beaver issues associated with drainage culverts in the Wasa area.
- Muskrat Ranch should have a control burn to eliminate the numerous reeds and tall grass that prevent the larvicide from being most effective.
- It is proposed that Hansen's Channel have some trails cut in to enable easier ground access.
- Clean-up trails within the Prairie Road vicinity as overgrowth is making this area difficult to access and treat.
- The highway culverts require regular maintenance.
- Drainage on the Collins property would benefit from installation of a culvert.

If you have any questions regarding this summary report, please do not hesitate to give me a call at 604-986-1168.



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