KITIMMEOT HEALTH AND SOCIAL SERVICES BOARD KITIKIMEONI ANEAKTULIKIYIN AYOKHAKTULIKIYILO KATIMAYEN ቴρበና! ιρς ሳራ ቀላም ጋር ምትላቦርር ሳተΓ > ∇ Ծ σ ምን ምት ያ የ μυλικής

January 14, 2000

Toni Peck Administrative Office: Hamiet of Gjoa Haven Gjoa Heven, Munavu:

File # 500-100-15

RE: Larvae in Community Water Supply

The insect specimen that you recently sent to me has been identified by the University of Alberta as a midge fly larva or bloodworm as it is often called. I am enclosing an information sheet on its habits. The adult fly lays eggs during the summer months; the eggs hatch into larvare which remain active in fresh water over the winter, the larvae then pupate and emerge as adult flies in the spring, and the cycle repeats itself. They are of no public health significance although their presence in the drinking water supply is certainly objectionable.

By copy of this letter I am requesting that Kojo Kumi, Municipal Engineer for Community Government and Transportation, provide you with some short-term solutions. As I am not aware of any previous intrusion of this nature, this may prove to be a one-time occurrence. However, if it persists, a more permanent, egineered solution such as filtration may be in order.

Should you have arm questions or comments regarding this matter, please do not hesitate to contact me at (867) 669-6722.

Robert Phillips, CPHI(C) Senior Environmental Health Officer

cc. Kojo Kumi, Community Government and Transportation Nurse-in-Charge, Gjoa Haven Bruce Trotter, Department of health & Social Services Stella van Rensburg, Kitikmeot Health & Social Services

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178g. 142 A militar, Chiromonus plumonas (Lian.), A. 455 mars: R. pupo, lateral view, with the lurval identitiot completely shed; C. adult male. (Courtesy of Branch.)

tarion, and the water in tree holes. Those occurring along the seashore apparently breed in the intertide 2 zone. The feeding habits of the larvae are not well known, but they are probably scavengers.

FAMILY Chironomidae - Midgest These inscena and to be found almost everywhere. They are small (some are very small), delicate, somewhat resonantific in appearance (Fig. 442 C), and the males usually have the antennar very phonosis. They often occur in high swarms, usually is the evening and the humaning of such a swaru: may be audible for a considerable distenes.

The larvae of most midges (Fig. 443 B) are aquation a few occur in decaying matter, under bank, or in moist ground. Most of them are scavengers. Many of the aquatic forms live in mbes or case. The larvae of some species are red in cotor: this to the presence of hacaloglobin in the blood, and are known as bloodworms. Midge larves a view by means of characteristic whipping moversulars of the body, something like the shows the mosquito larvae. Midge larvae ere often very abundant and are an important item of nod for many freshwater fish and other equatic Inimais.

FAMILY Singuilidae Black Flies or Buffalo Gnars: The black flies are small, usually darkcolores: insects with short legs, broad wings, and a hump secked appearance (Fig. 444). The fomales nee blood-sucking. These insects are vicious biters and are senious posts in some sec-

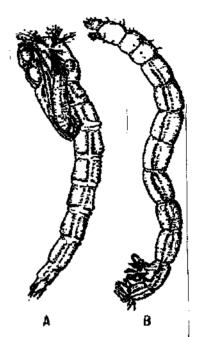


Fig. 443. Pupe (A) and larva (B) of Chironomus tentures Fabricius. (Coursesy of Johannson and the Cornell University Agricultural Experiment Station.)

tions of the country. The bites often cause considerable swelling and sometimes bleeding. Black flies sometimes attack livestock in such numbers and with such ferocity as to cause the death of the livestock, and there are records of human deaths caused by these insected Black

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