



Pre-Permitting Environmental / Socio-Economic Data Report Series

Report Series H- Macroinvertebrates and Periphyton

Report H-2 Identified Macroinvertebrate Taxa 2004-2007

Submitted to the Alaska Department of Natural Resources April 2009

Preliminary data. Do not cite or quote.

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

Collected for the Pebble Partnership by:



HDR Alaska
2525 C Street, Suite 305
Anchorage, AK 99503



ABR, Inc.
P.O. Box 24068
Anchorage, AK 99524



Northern Ecological Services
3373 Hillside Rd.
Deming, WA 98244

REPORT H-2.1

Macroinvertebrate Taxa Identified in Samples Collected in the Bristol Bay Drainages

Order	Family	Genus	
Ephemeroptera	Ephemeroptera	Unidentified	
	Ameletidae	<i>Ameletus</i>	
	Baetidae		<i>Acentrella</i>
			Unidentified
			<i>Baetis</i>
			<i>Procloeon</i>
	Ephemerellidae		Unidentified
			<i>Drunella</i>
			<i>Ephemerella</i>
			<i>Serratella</i>
	Heptageniidae		Unidentified
			<i>Cinygmula</i>
			<i>Epeorus</i>
			<i>Rithrogena</i>
	Leptophlebiidae	<i>Paraleptophlebia</i>	
	Oligoneuriidae	<i>Lachlania</i>	
Plecoptera	Unidentified	Unidentified	
	Capniidae	Unidentified	
			<i>Alocapnia</i>
			<i>Capnia</i>
			<i>Nemocapnia</i>
			<i>Paracapnia</i>
	Capniidae/Leuctridae	Unidentified	
	Leuctridae	Unidentified	
			<i>Despaxia</i>
			<i>Moselia</i>
			<i>Perlomyia</i>
	Chloroperlidae	Unidentified	
			<i>Alloperla</i>
			<i>Kathroperla</i>
			<i>Neaviperla</i>
			<i>Plumiperla</i>
			<i>Suwallia</i>
			<i>Sweltsa</i>
		Nemouridae	
			<i>Nemoura</i>
	<i>Zapada</i>		



REPORT H-2.1 (continued)
 Macroinvertebrate Taxa Identified in Samples Collected in the Bristol Bay
 Drainages

Order	Family	Genus
Plecoptera (cont.)	Perlodidae	Unidentified
		<i>Arcynopteryx</i>
		<i>Diura</i>
		<i>Isogenoides</i>
	Pteronarcyidae	<i>Isoperla</i>
		<i>Pteronacys</i>
	<i>Pteronarcella</i>	
	Taeniopterygidae	<i>Taenionema</i>
Trichoptera	Unidentified	Unidentified
	Apataniidae	<i>Apatania</i>
	Brachycentridae	Unidentified
		<i>Amiocentrus</i>
		<i>Brachycentrus</i>
		<i>Eobrachycentrus</i>
		<i>Micrasema</i>
	Glossosmatidae	Unidentified
		<i>Glossosoma</i>
	Hydroptilidae	<i>Agraylea</i>
		<i>Ochrotrichia</i>
		<i>Oxyethira</i>
	Hydropsychidae	<i>Arctopsyche</i>
		<i>Hydropsyche</i>
	Lepidostomatidae	<i>Lepidostoma</i>
	Leptoceridae	<i>Ceraclea</i>
		<i>Oecetis</i>
	Limnephilidae	Unidentified
		<i>Chyranda</i>
		<i>Dicosmoecus</i>
<i>Ecclisomyia</i>		
<i>Eocosmoecus</i>		
<i>Grensia</i>		
<i>Halesochila</i>		
<i>Hesperophylax</i>		
<i>Ironoquia</i>		
<i>Limnephilus</i>		
<i>Moselyana</i>		
<i>Nemotaulius</i>		



REPORT H-2.1 (continued)
 Macroinvertebrate Taxa Identified in Samples Collected in the Bristol Bay
 Drainages

Order	Family	Genus
Trichoptera (cont.)	Limnephilidae (cont.)	<i>Onocosmoecus</i>
		<i>Pedomeocus</i>
		<i>Psychoglypha</i>
	Odontoceridae	<i>Namamyia</i>
	Polycentropodidae	<i>Polycentropus</i>
	Rhyacophilidae	<i>Rhyacophila</i>
	Uenoidae	<i>Neophylax</i>
Diptera	Unidentified	Unidentified
	Ceratopogoniidae	Unidentified
		<i>Bezzia</i>
		<i>Ceratopogon</i>
		<i>Probezzia</i>
	Chironomidae	(see Table 15.2-4)
	Dixidae	<i>Dixa</i>
	Dolichopodidae	Unidentified
	Empididae	Unidentified
		<i>Chelifera</i>
		<i>Clinocera</i>
		<i>Hemerodromia</i>
		<i>Oreogeton</i>
		<i>Rhamphomyia</i>
		<i>Wiedemannia</i>
		Unidentified
		Unidentified
		Unidentified
	Unidentified	
	Ephydriidae	Unidentified
Muscidae	Unidentified	
Phoridae	Unidentified	
Psychodidae	Unidentified	
	<i>Pericoma</i>	
	<i>Psychoda</i>	
	Unidentified	
Sciomyzidae	Unidentified	
Simuliidae	<i>Gymnopais</i>	
	<i>Prosimullium</i>	
	<i>Simullium</i>	
Tabanidae	Unidentified	
Tanyderidae	Unidentified	
Tipulidae	Unidentified	
	<i>Dicranota</i>	
	<i>Hesperoconopa</i>	

REPORT H-2.1 (continued)
Macroinvertebrate Taxa Identified in Samples Collected in the Bristol Bay
Drainages

Order	Family	Genus
Diptera (cont.)	Tipulidae (cont.)	<i>Hexatoma</i>
		<i>Leptotarsus</i>
		<i>Molophilus</i>
		<i>Ormosia</i>
		<i>Pedicia</i>
		<i>Tipula</i>
Coleoptera	Coleoptera	Unidentified
	Carabidae	Unidentified
	Curculionidae	Unidentified
	Dytiscidae	Unidentified
		<i>Laccophilus</i>
	Elmidae	Unidentified
	Helophoridae	Unidentified
	Hydrophilidae	Unidentified
	Psephenidae	Unidentified
Salpingidae	Unidentified	
	Staphylinidae	Unidentified
Acuriformes	Hydrozetidae	Unidentified
Turbellaria	Turbellaria	<i>Turbellaria</i>
Nematoda	Nematoda	<i>Nematoda</i>
Oligochaeta	Oligochaeta	<i>Oligochaeta</i>
Gastropoda	Unidentified	Unidentified
	Lymnaeidae	<i>Lymnaea</i>
	Physidae	<i>Physa</i>
	Planorbidae	Unidentified
	Valvatiidae	<i>Valvata</i>
Bivalvia	Sphaeriidae	<i>Sphaeriidae</i>
Arachnoidea	Hydracarina	Unidentified
	Water spider	Unidentified
Crustacea	Amphipoda	Unidentified
	Conchostraca	Unidentified
	Gammaridae	Unidentified
	Ostracoda	Unidentified
Cladocera	Unidentified	Unidentified
Collembola	Unidentified	Unidentified
	Entomobryidae	Unidentified
	Hypogastruidae	Unidentified

REPORT H-2.1 (continued)

Macroinvertebrate Taxa Identified in Samples Collected in the Bristol Bay Drainages

Order	Family	Genus
Collembola (cont.)	Isotomidae	Unidentified
	Onychiuridae	Unidentified
	Sminthuridae	Unidentified
Copepoda	Copepoda	Cyclopidae, unidentified
Hemiptera	Hemiptera	Unidentified
		<i>Corixidae</i>
		<i>Hebridae</i>
	<i>Saldidae</i>	
	Homoptera	Unidentified
		<i>Aphididae</i>
Hirundinea	Hirundinea	Unidentified
Lepidoptera	Unidentified	Unidentified
	Arctiidae	Unidentified
		<i>Estigmene</i>
	Cossidae	<i>Prionoxystus</i>
	Noctuidae	Unidentified
	Pyalidae	<i>Acentria</i>
		<i>Crambus</i>
Planaria	Planaria	Flatworm, unidentified
Rotifer	Rotifer	Unidentified
Psephenidae	Unidentified	Unidentified
Salpingidae	Unidentified	Unidentified
Staphylinidae	Unidentified	Unidentified
Entomobryidae	Unidentified	Unidentified

REPORT H-2.2

Macroinvertebrate Taxa Identified in Samples Collected in the
Cook Inlet Drainages, 2004 and 2005

Order	Family	Genus
Ephemeroptera	Ameletidae	<i>Ameletus</i>
	Baetidae	Unidentified
		<i>Baetis</i>
		<i>Rithrogena</i>
	Heptageniidae	<i>Cinygmula</i>
		<i>Epeorus</i>
		<i>Rithrogena</i>
Plecoptera	Chloroperlidae	<i>Neaviperla</i>
		<i>Plumiperla</i>
		<i>Suwalia</i>
	Perlodidae	<i>Isoperla</i>
	Nemouridae	<i>Zapada</i>
Trichoptera	Brachycentridae	<i>Eobrachycentrus</i>
	Hydroptilidae	<i>Agraylea</i>
	Lepidostomatidae	<i>Lepidostoma</i>
	Limnephilidae	<i>Onocosmoecus</i>
	Rhyacophilidae	<i>Rhyacophila</i>
Diptera	Ceratopogoniidae	<i>Bezzia</i>
	Chironomidae	(see Table 42-2)
	Empididae	<i>Chelifera</i>
	Tipulidae	<i>Dicranota</i>
		<i>Hexatoma</i>
Arachnoidea	Hydracarina	Unidentified
Bivalvia	Sphaeriidae	Unidentified
Coleoptera	Unidentified	Unidentified
Hirudinea	Unidentified	Unidentified
Lepidoptera	Unidentified	Unidentified
Oligochaeta	Unidentified	Unidentified