

**Table 7-8 Summary of Diatom Analyses
WEST CONTRACT**
Brightwater Conveyance System

Boring No.	Sample Top Depth (ft)	Elevation (ft) ^a	Lab Sample Number ^b	Diatom Species Present	Environment	
					Biology	Geology
BRIGHTWATER TUNNEL 4						
E-108	134.0	319.1	KT-567	Contained many fragments and whole valves of marine centric diatoms (Coccinodiscus sp. and Thalassiosira sp.), one fragment of Pleurosigma sp. (common salt marsh species), and several valves of Eunotia and Navicula (freshwater/low brackish taxa most likely).	Salt marsh and freshwater/low brackish species	Estuary or salt marsh
E-108	168.0	285.1	KT-568	Barren - no diatoms		
E-108	188.0	265.1	KT-569	Contained one valve of Paralia sulcata and many fragments of marine centric diatoms (Thalassiosira sp. and Coccinodiscus sp.). Overall, diatoms very very rare in this sample	Marine species	Reworked marine deposits
E-108	286.0	167.1	KT-570	Barren - no diatoms		
E-108	308.0	145.1	KT-555	Contained fragments and whole valves of marine centric diatoms (Thalassiosira sp. and Coccinodiscus sp.), and a few cosmopolitan diatoms (mainly a freshwater/low brackish type of Aulacoseira sp.).	Marine and freshwater/low brackish species	Marine or estuary deposit
E-108	342.0	111.1	KT-571	Contained valves and fragments of Aulacoseira sp., Navicula, Epithemia, Synedra/Fragilaria? (not enough for adequate determination), and several fragments of marine centric diatoms (Thalassiosira type), and possibly several fragments of Isthmia.	Marine and possible nearshore species	Possible reworked marine or nearshore deposits

Note:

a) Vertical datum = Metro. All locations surveyed to +/- 0.1 foot accuracy with the exception of some off alignment borings (noted as scaled on the log) which were estimated.

b) Diatom analysis by Brian Sherrod, U.S. Geological Survey.