

9800192

Date: 14 Dec. 1998

To : Doug Hamilton

From: Sid Stillwaugh

Subj: Sinclair Inlet Water Quality Data

Doug:

Enclosed, find copies of a sample data set (1977 only) as obtained from Dr. Don Seavy, professor - science dept., Olympic College, Bremerton, WA. During the period beginning January 1977 through October 1984, Dr. Seavy taught an undergraduate oceanography course at Olympic College. As part of the course, students made monthly (or sometimes, more frequent) field sampling stations in Sinclair Inlet, near Bremerton. Sinclair Inlet empties into and receives Puget Sound waters. Students, as weather permitted, made 3 permanent stations in a small boat. Basic water quality and some weather were recorded on field sheets, in fact, data for all years are only available as paper copy. However, these data are unique in that they are about the only records for the area, and of fairly long term (about 8 years). The only other data I am aware of for the immediate area is one station (mid channel) made on an irregular basis by the Wa. State Dept. of Ecology.

This 1977 data set is interesting in that it represents a couple of changes in sampling techniques throughout the first year. The earliest data, Jan. - Feb. 1977, salinities and oxygens were taken as bottle samples, and analyzed by titration. Secchi depth was taken beginning in 1977 (.5 m disk) and was a part of each station, all years. Beginning in Feb. 1977, salinities were taken as bottle samples, then analyzed by inductive (bench) salinometer. In May 1977, Olympic College purchased a Hydrolab CTD type instrument and from that point on (through 1984), all data were recorded electronically "on station" using the Hydrolab. After May 1977 Hydrolab data included temperature, salinity, oxygen and ph at discreet depths.

You'll notice that the sample data set I've sent from May 1977 on only includes one station (Judy). This was all that was provided in the sample from Dr. Seavy. The other two sites data are available. Also, the May 1977 on data I've sent were translated by me to an MS Excel spreadsheet from as the sample data from Dr. Seavy between May and mid November were on handwritten sheets. I wanted to make these data as readable as possible. The late Nov. data on are on a typed field sheet, I believe the later data sets are also on a more organized form.

My plan, if local trave is approved for early next year, would be to borrow the complete data set from Dr. Seavy (he's agreed to this), make office copies and return the originals. I feel that this is a nice, long term data set (although student collected), data are consistent. The problem I see if I don't do this is that it will disappear when Dr. Seavy retires (a common problem as you know). I'll keep a copy on the shelf here at the office for local scientists to use and also send you a copy for digitization if you decide we should do this.

After you look this over, let me know what you think. I'll prepare some more basic documentation for use here as well as transmittal to your attention.

Here's some basic info for now.

PI/Source : Dr. Don Seavy, Olympic College, 1600 Chester Ave,
Bremerton, WA. 98337-1699 ph.(360)475-7732.

Data Type : basic water quality, station type data;
(depth, temps., salinity, oxygen, ph, Secchi
depth), some weather

Location : 3 stations in Sinclair Inlet (Puget Sound, see data sheets)

Time Period : Jan. 1977 through Oct. 1984

Sampling Methods : (earliest data) titration, inductive salinometer, then by
electronic CTD (Hydrolab)

How Available : paper copy only

Project/Program : data were taken on roughly a monthly basis as part of an
undergraduate oceanography curriculum