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March 26, 1990

Algae Identifications

2-89, Oahu, rinsed feces in 10% formalin

<u>Amansia glomerata</u>	80%
<u>Gelidiella acerosa</u>	10
<u>Pterocladia</u> sp.	10
Much highly digested matter	

3-2-89, Tag 3487-88, rinsed feces of green turtle

<u>Codium arabicum</u>	40%
<u>Amansia glomerata</u>	5
<u>Codium edule</u>	45
<u>Gelidiella acerosa</u>	10

4-27-89, Kailua Bay, Oahu, SL-41.0, Kelce

<u>Hypnea musciformis</u>	70%
<u>Hypnea nidifica</u>	20
<u>Codium arabicum</u>	5
<u>Codium edule</u>	5
<u>Halophila ovalis</u>	1
<u>Bryopsis</u> sp.	Trace
<u>Caulerpa taxifolia</u>	Trace
<u>Laurencia nidifica</u>	Trace
<u>Spyridia filamentosa</u>	Trace

5-4-89, Kiholo Pond (turtle forage), Hawaii

Halophila ovalis

This is a very plastic species. It changes from a nearly oval blade to a very long thin narrow blade. In the past this thin variety of Halophila ovalis, which can be found in Kailua Bay off Kailua Beach Park, was placed into another species and into a variety of H. ovalis. I am leaving it as H. ovalis to avoid confusion. I will keep a portion of the sample to study further, but I am reasonably sure this is the indeed the case.

5-16-89, Kaneohe Bay, Oahu, Tag 2538, Green Turtle stomach flush

\* Vanvoorstia spectabilis Harv. 100%

This sample was identified by Dr. Bill Magruder, Bishop Museum. I had not seen this species before and used his help. He was very interested in it since this is only the second time the species has been reported from Hawaii. This very large netted red alga lives in high surge at the edge of the reef. It is related to Martensia, a delicate netted blade that lives in calm bays. Bill would like to know more about where this turtle was captured (exactly) in hope of finding more of this species for the Bishop Museum herbarium collection. I gave him the information as was on the sample jar.

5-16-89, Kaneohe Bay, Oahu, Tag Y170, Green Turtle stomach flush

<u>Halimeda discoidea</u>	30
<u>Jania capillacea</u>	30
<u>Hypnea cervicornis</u>	20
<u>Laurencia nidifica</u>	20
<u>Ceramium</u> sp.	Trace
<u>Gelidium</u> sp.	Trace
Terrestrial grass	Trace
Amphipod	One

#### SUMMARY

##### RHODOPHYTA

Amansia glomerata C. Ag.  
Ceramium sp.  
Gelidiella acerosa (Forsskal) Feldmann and Hamel  
Gelidium sp.  
Hypnea cervicornis J. Ag.  
Hypnea musciformis (Wulfen) C. Ag.  
Hypnea nidifica J. Ag.  
Jania capillacea Harvey  
Laurencia nidifica J. Ag.  
Pterocladia sp.  
Spyridia filamentosa (Wulfen) Harvey  
\* Vanvoorstia spectabilis Harv.

##### CHLOROPHYTA

Bryopsis sp.  
Caulerpa taxifolia (Vahl) C. Ag.  
Codium arabicum Kützing  
Codium edule Silva  
Halimeda discoidea Decaisne

##### SEAGRASS

Halophila ovalis (R. Br.) Hook

\* New for our master list.

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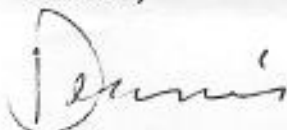
March 26, 1990

Dear George,

You now have 57 samples to your credit. These last few samples were not taken from the 57 as I explained in the last letter. I will package these samples and send them separately from this letter as usual.

Please notice that you found an additional species for your sea turtle menu, Vanvoorstia spectabilis Harv. Bill Magruder, Bishop Museum, identified it for me, since I had never seen it before and thought he would be interested. It is not a new species record for the islands, but is only the second time it has been collected. Bill said he would contact you to find out more so he could possibly go out and collect some fresh material for the museum. Also, see the note on Kiholo Pond. I have collected Halophila ovalis like this in Kailua Bay (very thin long blades) and it is also in the 4-27-89 sample of yours from Kailua Bay, but I will retain a small subsample for further study, to be sure.

Aloha,



Dennis J. Russell