

INTERNATIONAL BIOLOGICAL PROGRAMME

SECTION CT: CONSERVATION OF TERRESTRIAL BIOLOGICAL COMMUNITIES

CHECK SHEET (Mark VII) FOR SURVEY OF IBP AREAS*

To be completed with reference to the GUIDE TO THE CHECK SHEET

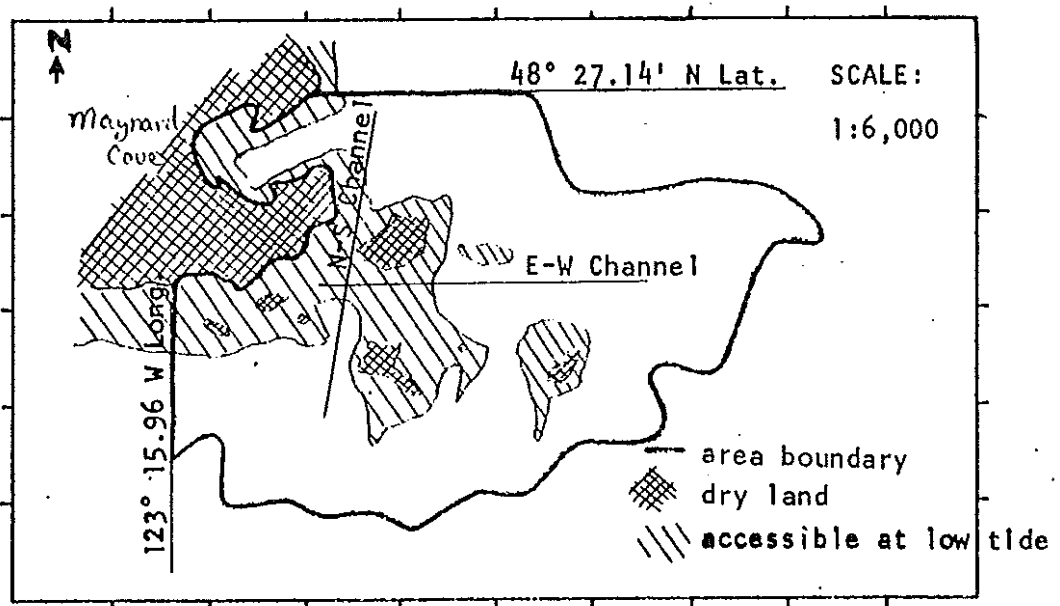
Serial Number

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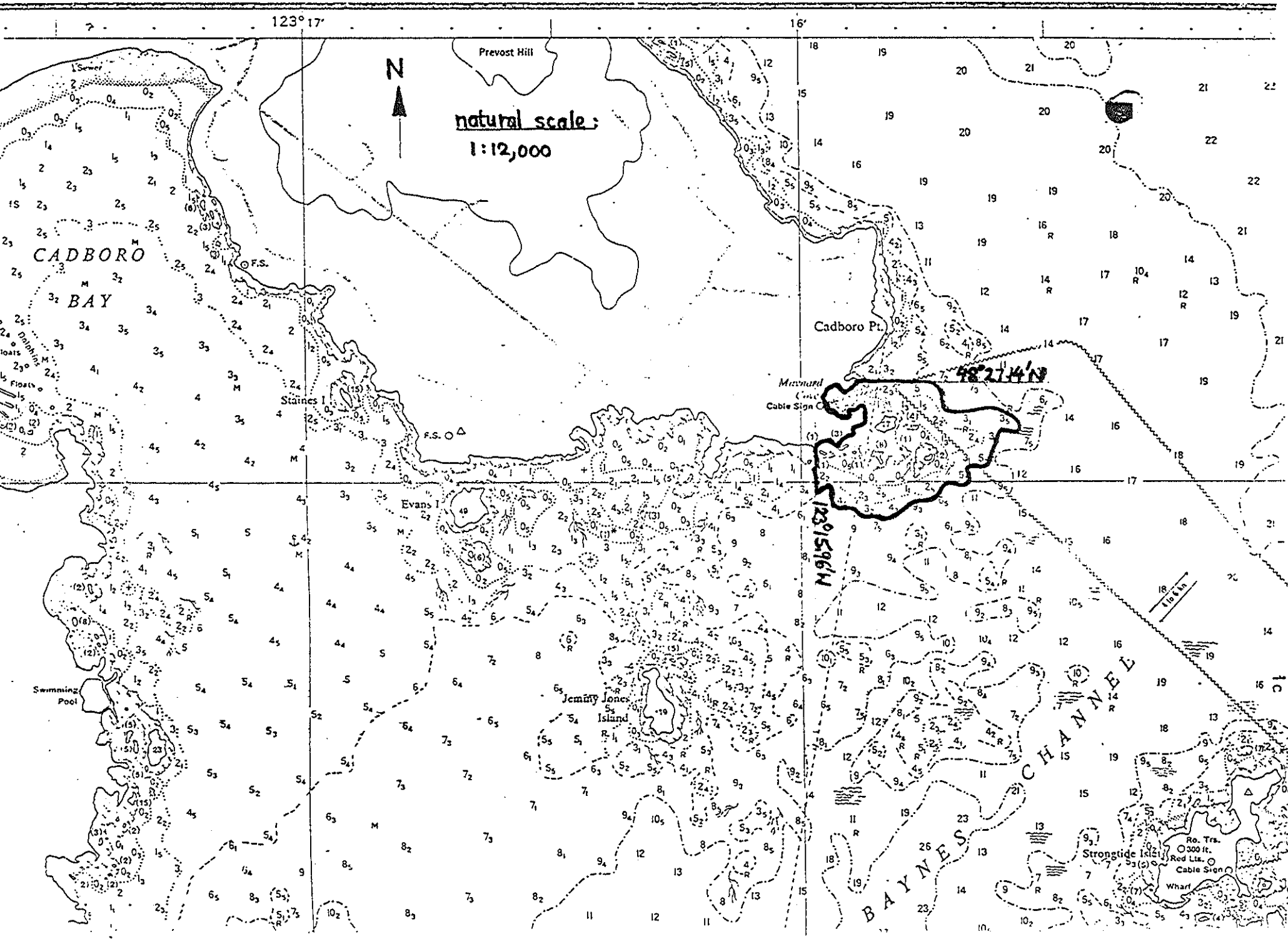
For Data Centre Use only

1. Name of surveyor D.V. Ellis and D.J. Steele.....
2. Address of surveyor Department of Biology
.....University of Victoria.....
.....Victoria, B.C.....
3. Check Sheet completed (a) on site ...X..... (b) from recordsX.....
4. Date Check Sheet completed July 23, 1974.....

2. Name of IBP Area Ten Mile Point.....
2. Name of IBP Subdivision (or serial letter)
3. Map of IBP Area* showing boundaries attached? Yes ..X.... No
4. Sketch map of IBP Area*. Please mark direction of north, the scale and grid numbers where applicable.



* For "IBP Area", read IBP Area and/or IBP Subdivision.



123° 17'

16'

Prevost Hill



natural scale:
1:12,000

CADBORO
BAY

Cadboro Pt.

Maynard
Cable Sign

48° 21' 4" N

123° 15' 9" W

Staines I.

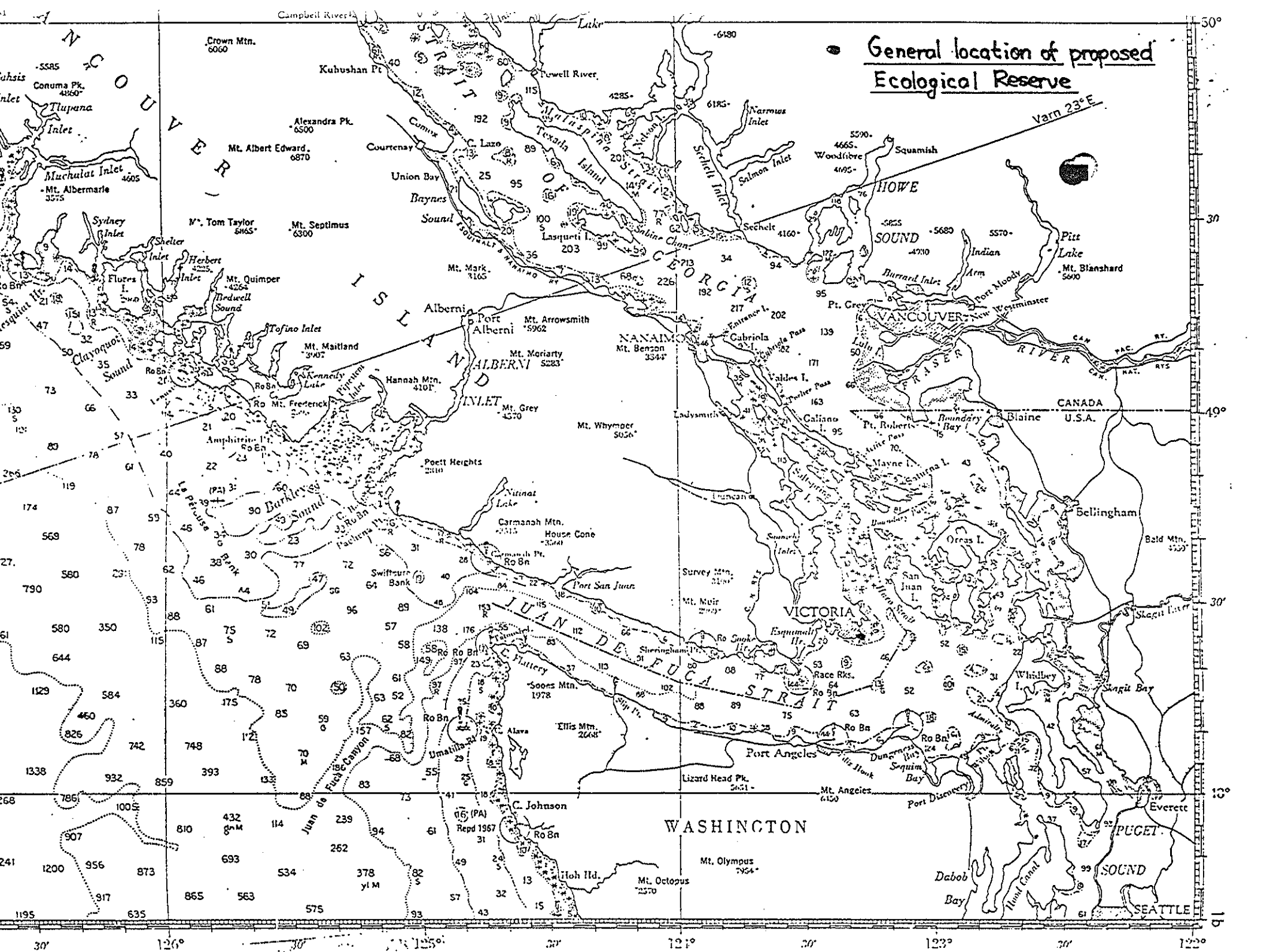
Evans I.

Jemmy Jones
Island

BAYNES
CHANNEL

Strongtide Isl.
Ro. Trs. 300 ft.
Red Ltg.
Cable Sign
Wharf

General location of proposed Ecological Reserve



3. **Location of IBP Area***
 1. Latitude..... 48°26.93' to 48°27.14'N Longitude..... 123°15.55' to 123°15.96'W
 2. Country Canada
 State or Province British Columbia County: Saanich
 (State or Province County)

4. **Administration**
 National 1. Official category Crown Land
 Dept. of Lands, Forests and Water Resources
 2. Address of administration
 Parliament Buildings
 Victoria, B.C.

International Class

3.

Included in U.N. List	Rejected from U.N. List	Area with formal conservation status	No formal cons. status
(A)	(B)	(C)	(D) X

5. **Characteristics of IBP Area***
 1. Surface area above mean low water - .010 Square Miles
 below mean low water - .032 Square Miles
 2. Altitude (above chart datum)
 Maximum 17 feet
 Depth (below mean low water) Maximum 36 feet

6. **Climate**
 Nearest climatological station :
 1. Name Victoria - Willows Park
 2. Climatological station on IBP Area*? Yes No X
 3. If (2) not, distance from edge of IBP Area* (state units) 1.9 miles
 4. Direction from IBP Area* SW (240')
 5. Additional data sheet attached? Yes X No (See Attachment II)

Attachment II - Climate Data from Victoria-Willows Park

1973-1974

	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	Year
Snowfall						2.4	0.9	3.5		0.7			7.5
Rainfall	0.66	0.14	0.41	0.47	3.23	4.81	4.48	7.31	3.69	2.68	1.46	1.08	30.42
Precipitation	0.66	0.14	0.41	0.47	3.23	5.05	4.57	7.66	3.69	2.75	1.46	1.08	31.17
Days Measureable	9	3	5	8	17	24	23	20	14	18	14	11	166

7. Vegetation and Soil

Vegetation

Community Reference Number	Vegetation Code					(give usual name using full Latin names of a species where applicable)	Area (state units)
	Primary Structural Group	Class	Group	Formation	Sub-Formation		
1						Vegetation types vary with the amount of exposure, currents, prevailing winds, and substrate type. The dominant algal species found at several different habitats are located in Attachment I.	
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Attachment I -- Significant Marine Species

A. Algae

(1. a) Sheltered Bayhead Beach
(Maynard Cove)

substrate of
(sandy mud, cobble, rock fragments)

- | | |
|-----------------------------|-------------------------------|
| - <i>Ulva</i> | (Low to Sub Tidal) |
| <i>Monostroma</i> | - <i>Ceramium</i> |
| <i>Costaria costata</i> | - <i>Polysiphonia hendryi</i> |
| <i>Desmarestia aculeata</i> | - <i>Porphyra miniata</i> |
| <i>Rhodomenia palmata</i> | - Marine sea grasses |
| <i>Rhodomenia pertusa</i> | |
| Diatoms (abundant) | |

(1. b) Sheltered Headlands (solid rock substrate)
(typical Victoria shore flora)

- | | |
|---------------------|-------------------------------|
| - <i>Porphyra</i> | - <i>Ceramium</i> |
| - <i>Endocladia</i> | - <i>Polysiphonia herdryi</i> |
| - <i>Ulva</i> | |
| - <i>Monostroma</i> | |
| - <i>Fucus</i> | |
| - <i>Corallines</i> | |

2. Rip Current Channels (substrate of sandy mud and large boulders)

A. North-South Channel

- | | |
|-----------------------------|--------------------|
| - <i>Rhodomenia palmata</i> | - <i>Porphyra</i> |
| - <i>Halosaccion</i> | - <i>Frionitis</i> |
| - young <i>Nereocystis</i> | |
| - <i>Fucus</i> | |

B. East-West Channel

- | | |
|--------------------------------|-------------------------------|
| - <i>Nereocystis leuktaena</i> | - <i>Lithothamnium</i> |
| - <i>Laminaria saccharina</i> | - <i>Petrocelis</i> |
| - <i>Cymathere triplicata</i> | - <i>Gigartina papillata</i> |
| - <i>Costaria costata</i> | - <i>Fucus</i> |
| - <i>Hedophyllum sessile</i> | - <i>Ulva</i> |
| - <i>Spongomorpha coalita</i> | - <i>Monostroma</i> |
| - <i>Iridaea</i> | - <i>Microcladia borealis</i> |
| - <i>Gigartina exasperata</i> | - <i>Endocladia</i> |
| - <i>Corallina</i> | - <i>Gloiopeltis furcata</i> |
| - <i>Bossiella</i> | - <i>Gloiopeltis muricata</i> |
| | - <i>Bangia</i> |
| | - <i>Porphyra</i> |

3. Tidepools (substrate of solid rock and fragments)

- A. Lower - *Lithothamnium*
 - *Bossiella*
 - *Corallina*
 - *Ulva*
 - *Iridaea*

- B. Upper - *Prionitis*
 - *Hildenbrandia*

B. Invertebrata

Echinoderms

A. Asteroids

Pisaster ochraceus
Leptasterias hexactis
Henricia leviuscula

B. Echinoids

Strongylocentrotus drobachiensis
Strongylocentrotus franciscanus
Strongylocentrotus purpuratus

C. Ophiuroids

Ophiopholis aculeata
Axiognathus (Amphipholis) squamata
Axiognathus (Amphipholis) pugetana
Amphiodia occidentalis

D. Holothurians

Psolus chitonoides
Cucumaria miniata
Eupentacta quinquesemita
Parastichopus californicus
Psolidium bulletum

)

7.
(cont.)

2

SUBSTRATE

Community Reference Number	Substrate	Other notes (See Attachment 1)
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9. Landscape

1. General Landscape (give brief description)
.....
.....

2. Relief Type	Flat	Undulating (0)-200 m.	Hilly 200-1000 m.	Mountainous > 1000 m.	%
Sharply dissected					
Gently dissected					
Incised					
Skeletonised					
%					100%

3. Special landscape features (list)
.....
.....

10. Coastline of IBP Area*

1. Protected bays and/or inlets Many One None

2. Substratum. % of coast

Rock	Cobble Beach	Shingle Beach	Sand Beach	Shell Beach	Mud	Coral	Ice
85	15						

3. Physiography. % of coast

Cliffed	Sloping	Flat
	85	15

4. Special Coastal Features (list) Cobble beach, Rocky headlands, Islands
(accessible at low tides), Ripcurrent Channels, tidepools.....
.....

5. Tide. Maximum range (state units of measurement) 10.8 feet.....

6. Total length of coastline :
Less than 1 km. 1-10 km. Above 10 km.

11. Freshwater within IBP Area* none



	Permanent	Intermittent
General		
Standing		
Running		

2. Standing Water

	Permanent	Intermittent	Unproductive	Productive
Swamps				
Ponds				
Lakes				

3. Running Water

	Permanent	Intermittent
Springs, cold		
Springs, hot		
Streams		
Rivers		

4. Special freshwater features

.....

12. Salt and Brackish Water within IBP Area*

Salt Lakes	<input type="checkbox"/>	Lagoon	<input type="checkbox"/>Ocean.....	<input checked="" type="checkbox"/>
Estuaries	<input type="checkbox"/>	Salt pools	<input type="checkbox"/>	<input type="checkbox"/>

13. Adjacent Water Bodies (not within IBP Area*)

1. Fresh Lake River Stream

2. Salt and Brackish

Estuary	Salt lake	Salt pool	Lagoon	Ocean		
				X		

14. Outstanding Floral and Faunal Features

None

2. Fauna

	Species diversity	Abundance of individuals	Superabundance of individuals	Rare species	Threatened/Relict species	Spp. of biogeographical interest	Exceptional Associations	Breeding or Nesting Populations	Migrating Populations	Wintering Populations
Mammalia										
Aves										
Reptilia										
Amphibia										
Pisces										
Insecta										
Marine Invertebrata	X	X								

3. Names of main threatened, endemic, relict and rare species

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4. Flora

	Species diversity	Abundance of particular species	Rare species	Threatened/relict species	Spp. of biogeographical interest	Exceptional associations	Outstanding specimens						
Angiospermae :													
trees													
shrubs													
herbs													
grass													
Gymnospermae													
Pteridophyta													
Bryophyta													
lichens and Algae	X	X											

5. Names of main threatened, endemic, relict and rare species

Bangia fuscopurpurea - the amounts found at Ten Mile Point are rarely accessible elsewhere in the Victoria region.

15. Exceptional Interest of IBP Area*

Ten Mile Point has a large intertidal zone, with a rich fauna and flora, typical of the Victoria shoreline.

16. Significant Human Impact

General : None in entire IBP Area*
 None in part of IBP Area*
 Impact on entire IBP Area* X

2. Particular

	Past impact	Present impact	Trend			
			Increasing	Decreasing	No change	No information
Cultivation						
Drainage		X			X	
Other soil disturbance						
Grazing						
Selective flora disturbance		X	X			
Logging						
Plantation						
Hunting						
Removal of predators		X	X			
Pesticides						
Introductions — plants						
Introductions — animals						
Fire						
Permanent habitation		(On Gadsden Point-west border of area)				
Recreation and tourism		X	X			
Research		X	X			

3. Additional details on each type of Impact attached?

Yes No ...X.....

17.

Conservation Status

	Protection			Utilisation			Conservation Management			Permitted Research		
	none	partial	total	none	controlled	uncontrolled	none	to alter status	to maintain status	experimental	observational	prohibited
Flora	X					X	X			X		
Fauna	X					X	X			X		
Non-living												

18.

References

1. List major biological/geographical references for the IBP Area.

Sheet attached? Yes No ..X.....

2. List main maps available for the IBP Area. Canadian Hydrographic Series

List attached? Yes No ...X.....

3. Aerial photographs for the IBP Area available?

For whole areaX..... For part of area None

19.

Other Relevant Information

Signed D.V. Ellis, D.J. Steele
(Surveyor)