

LAKE SURVEY

NAME: Cassidy Gravel Pit

DATE: June 14, 1979

LOCATION: NTS # 92G/4 Lat., Long. 49° 04', 123° 52' UTM # 360 350

ACCESS: 50 m off the Island Highway on the east side, behind the Cassidy Hotel

DRAINAGE: No apparent inflow or outflow

PHYSICAL CHARACTERISTICS: Lake substrate is gravel

VEGETATION: Shoreline - scrub willow, alder, some cottonwood, some thimbleberry, blackberry, fireweed, fir and dogwood.
Bottom - extensively covered by pondweed, surface has 20% coverage by small lily pads. Very exposed area has little or no mature trees or shoreline cover.

COMMENTS: Two leaches and some fry observed.

NAME: CASSIDY GRAVEL PIT

DATE: APRIL 20, 1979
 STN NO: 1 (SOUTH END)
 AIR TEMP: 25°C
 WEATHER: SUN
 % CLOUD COVER: 40%
 WAVE HEIGHT: CALM
 SECCHI DEPTH: 3.2 M
 THERM DEPTH: NONE

DATE: APRIL 20, 1979
 STN NO: 2 (NORTH END)
 AIR TEMP: 25°C
 WEATHER: SUN
 % CLOUD COVER: 40%
 WAVE HEIGHT: CALM
 SECCHI DEPTH: 4.1 M
 THERM DEPTH: NONE

DATE: JUNE 14, 1979
 STN NO: 1 (WEST END)
 AIR TEMP:
 WEATHER: PARTIALLY OVERCAST
 % CLOUD COVER: 75%
 WAVE HEIGHT: 0.005 M
 SECCHI DEPTH: 3.0 M
 THERM DEPTH: 2-4 M

DATE: JUNE 14, 1979
 STN NO: 2 (EAST END)
 AIR TEMP:
 WEATHER: PARTIALLY OVERCAST
 % CLOUD COVER: 75%
 WAVE HEIGHT: 0.005 M
 SECCHI DEPTH: 3.0 M
 THERM DEPTH: 2-4 M

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

SURFACE
 11.0 140
 2 10.0 14 12 136 7.2
 4 11.0 880

SURFACE
 13.0 140
 2 10.2 130
 4 9.0 10.5 115 7.2
 5 9.8 260

SURFACE
 20.2
 1 19.5
 2 18.2 11 9.6 190 7.2
 3 16.0 13 14 820 7.3
 4 12.3

SURFACE
 20.5 160
 1 19.1 150
 2 18.6 148
 3 17.6 130
 4 16.8 149

✓

✓

✓

NAME: CASSIDY GRAVEL PIT

DATE: JULY 19, 1979
 STN NO: 2
 AIR TEMP: 27°C
 WEATHER:
 % CLOUD COVER:
 WAVE HEIGHT:
 SECCHI DEPTH: TO BOTTOM
 THERM DEPTH: 0-3M

DATE: JULY 19, 1979
 STN NO: 3 (WEST END)
 AIR TEMP: 27°C
 WEATHER: SUNNY, SOME WIND
 % CLOUD COVER: 0%
 WAVE HEIGHT: 0.005M
 SECCHI DEPTH: 3.5M
 THERM DEPTH:

DATE: AUGUST 22, 1979
 STN NO: 1
 AIR TEMP: 27°C
 WEATHER: SUNNY
 % CLOUD COVER: 20%
 WAVE HEIGHT: CALM
 SECCHI DEPTH: TO BOTTOM
 THERM DEPTH:

DATE:
 STN NO:
 AIR TEMP:
 WEATHER:
 % CLOUD COVER:
 WAVE HEIGHT:
 SECCHI DEPTH:
 THERM DEPTH:

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

DEPTH
 TEMP
 D.O. (mg/l)
 ALK (gr/gal)
 COND (umhos)
 PH

<i>SURFACE</i>	24.1		128		
1	21.5		150		
2	19.0		144		
3	18.1	10	3 138	7.0	
4	17.5		129		
5	16.0	10	3 111	6.9	

<i>SURFACE</i>	24.8		184		*
1	21.0		154		
2	19.1	11	4 200	7.05	
3	18.5		400		
4	16.8		950		
5	12.8	18	10 1100	7.4	

<i>SURFACE</i>	20.5		165		
1					
2		9	4	7.0	
3		9	170		
3.3	18.0				
<i>BOTTOM</i>					

* NOTE - CONDUCTIVITY
 METER POSSIBLY NOT FUNCTIONING
 PROPERLY

