



LEGEND

	BATHYMETRIC CONTOURS AND SPOT SOUNDINGS (IN METERS, CHART DATUM)
	INTERPRETED MAXIMUM VISIBLE THICKNESS (IN METERS) OF UNCONSOLIDATED SEDIMENTS (WHERE SHOWN), DASHED WHERE LESSER CONFIDENCE
	INTERPRETED GASSY/ORGANIC-RICH SEDIMENTS (MAXIMUM SEDIMENT THICKNESS NOT VISIBLE)
	APPROXIMATE PROPOSED GVHA LEASE BOUNDARY EXTENSION

- NOTES**
- ON 24 NOVEMBER 2017, TERRA REMOTE SENSING INC (TRSI) CONDUCTED BATHYMETRIC AND SUB-BOTTOM PROFILING SURVEY AT THE GVHA PIER B, IN VICTORIA BRITISH COLUMBIA, SURVEYED BY THE CLIENT. THE EXTENT OF THE YELLOW BACKGROUND AREA (ABOVE HIGH WATER) WAS SURVEYED BY TRSI. AREAS OF DISAGREEMENT BETWEEN THE TWO SHOULD BE RESOLVED WITH A SITE VISIT.
 - POSITION, HEADING AND ATTITUDE DATA FOR THE MULTIBEAM SURVEY WERE RECORDED BY HYDRACK 2016A AND APPLANIX POSVIEW SOFTWARE. GPS DATA FOR THE SUB-BOTTOM SURVEY WERE RECORDED AT ONE SECOND INTERVALS TO TRSI'S PROPRIETARY NAVIGATION AND DATA LOGGING SOFTWARE ATC.
 - SOUNDINGS WERE COLLECTED USING A RESON 7125 MULTIBEAM ECHO SOUNDER. ALL BATHYMETRIC DATA WERE REDUCED TO CHART DATUM USING PROCESSED GPS DATA.
 - SEISMIC DATA WERE COLLECTED USING AN APPLIED ACOUSTICS CIP-O ENERGY SOURCE AND A CATAMARAN MOUNTED ACOUSTIC 301 BOOMER PLATE OPERATED ON A 2500 ACUSTIC OUTPUT LEVEL AT A 200MS REPETITION RATE. LOGGED DATA WERE BAND-PASS FILTERED FROM 600HZ-10KHZ. THE 3 METRE, ELEMENT SINGLE CHANNEL, HYDROPHONE TOWED BEHIND THE CATAMARAN DETECTED THE REFLECTED SIGNALS FOR ON-BOARD SIGNAL PROCESSING AND FOR THE LOGGING SYSTEM. DATA WERE LOGGED AND PROCESSED USING CHESAPEAKE SONAR WIZ SOFTWARE. DATA WERE COLLECTED AT 2 TO 3 KNOTS.
 - SHORELINE, LAND FEATURES, AND PIER PLACEMENT SHOWN ON THE DRAWINGS WERE SUPPLIED BY THE CLIENT. THE EXTENT OF THE YELLOW BACKGROUND AREA (ABOVE HIGH WATER) WAS SURVEYED BY TRSI. AREAS OF DISAGREEMENT BETWEEN THE TWO SHOULD BE RESOLVED WITH A SITE VISIT.
 - PROPOSED DOLPHIN PLACEMENT SHOWN WAS SUPPLIED BY BERGERABAM.
 - NO GEOTECHNICAL INFORMATION WAS AVAILABLE FOR VERIFICATION OF THIS SUB-BOTTOM INTERPRETATION. THICKNESS IS COMPUTED USING AN ASSUMED SEDIMENT VELOCITY OF 1600m/sec. ANTICIPATED ACCURACY IS APPROXIMATELY ±1m.

REVISIONS

NO	REVISIONS	DATE	DESIGNED	DRAWN	CHECKED	INSP	REV	ACPT
1	PLANNED MOORING AND BREASTING DOLPHINS ADDED	09 APR 2019	EXISTING CONDITIONS	DJ	MR	KK		
0	ISSUED AS FINAL	03 JAN 2018	EXISTING CONDITIONS	DJ	MR	KK		
B	ISSUED AS DRAFT	18 DEC 2017	EXISTING CONDITIONS	DJ	MR	KK		

- GENERAL NOTES**
- Equipment
Survey vessel: Doppler
Surface Positioning: POS MV, DGPS
Navigation/Acquisition Software: Hydrack 2016
Bathymetry: Reson 7125 Multibeam
Drawing Parameters
Projection: UTM
Zone: 10
Datum: NAD83
Scale Factor: 0.9996
False Easting: 500000
False Northing: 0
Vertical Datum: LLWLT (Chart Datum)



Scale 1:1000
Scale in metres

CLIENT GREATER VICTORIA HARBOUR AUTHORITY 180 DALLAS ROAD VICTORIA, BC, CANADA V8V 1A1 Tel: 250-363-0200 Fax: 250-363-8522 E-mail: GVHA@VICTORIAHARBOR.ORG	PROJECT Ogden Point Pier B Mooring Dolphin Project TITLE CONTOURED BATHYMETRY
TERA REMOTE SENSING INC. 1000 West Road, Sidney, BC, Canada V8L 5Y3 Tel: 250-858-8931 Fax: 250-858-8932 www.terarremote.com Terra Remote Sensing Inc. is a subsidiary of the Terra Group of Companies. The Terra Group of Companies is a leading provider of geospatial data and services. The Terra Group of Companies is a leading provider of geospatial data and services.	REVISIONS 1 2 of 4