



Global Quarry Products

Received 14 May 03

RID#95

May 14, 2003

Fisheries and Oceans,
Habitat Management Division,
P.O. Box 1006,
Dartmouth, N.S.
B2Y 4A2

Attention: Mr. Phil Zamora
Re: White's Point Project

Dear Mr. Zamora,

Please find attached a completed Schedule VI – Application for Authorization for Works or Undertakings Affecting Fish Habitat – as requested.

Please advise if you require further details.

Yours truly,

Paul G. Buxton P. Eng.
Project Manager

Tel: 902-245-2567
Fax: 902-245-5614
Mailing Address:
General Interest:
P.O. Box 2113
Digby, NS
BOV 1AO

Billing :
Suite 282,450 LaHave Street, Unit 17
Bridgewater, NS
B4V 4A3

SCHEDULE VI/ANNEXE VI
(Subsection 58(1)/paragraphe 58(1))



Fisheries and Oceans
Pêche et Océans

Application No./N° de la demande

APPLICATION FOR AUTHORIZATION FOR WORKS OR UNDERTAKINGS AFFECTING FISH HABITAT
DEMANDE D'AUTORISATION POUR DES OUVRAGES OU ENTREPRISES MODIFIANT L'HABITAT DU POISSON

I, the undersigned, hereby request authorization to carry out the works or undertakings described on this application form. I understand that the approval of this application, if granted, is from the Minister of Fisheries and Oceans standpoint only and does not release me from my obligation to obtain permission from other concerned regulatory agencies.

Je soussigné, demande par les présentes l'autorisation d'exploiter les ouvrages ou entreprises décrits dans la formule. Je comprends que l'approbation de cette demande, le cas échéant, porte sur ce qui relève du ministre des Pêches et des Océans et ne me dispense pas d'obtenir la permission d'autres organismes réglementaires concernés.

If an authorization is granted as a result of this application, I hereby agree to carry out all activities relating to the project within the designated time frames and conditions specified in the authorization.

Si la demande est approuvée, je consens par les présentes à exécuter tous les travaux relatifs à ce projet selon les modalités et dans le laps de temps prescrits dans l'autorisation.


Applicant's Name (Please Print) GLOBAL QUARRY PRODUCTS Nom du requérant (lettres moulées)

Applicant's Business Address P.O. Box 2113,
DIGBY N.S.
Box 1A0 Adresse d'affaires du requérant

Applicant's Telephone No./N° de téléphone du requérant 902 245 2567 Date May 14th / 2003

I solemnly declare that the information provided and facts set out in this application are true, complete and correct, and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath. This declaration applies to all material submitted as part of this application.

Je déclare solennellement que les renseignements fournis et les faits énoncés dans cette demande sont véridiques, complets et exacts, et je fais cette déclaration solennelle, la croyant consciencieusement vraie et sachant qu'elle a la même force et le même effet que si elle était faite sous serment. Cette déclaration s'applique à tout document qui est présenté dans le cadre de cette demande.


Applicant's Signature (and corporate seal)

Signature du requérant (et sceau de la société)

Name of watercourse or waterbody (give coordinates)
Cours d'eau ou plan d'eau (donner les coordonnées) BAY OF FUNDY 44° 27' 55" N
66° 08' 45" W

This watercourse is a tributary of (where applicable)
Cours d'eau tributaire de (le cas échéant)

Nearest Community Localité la plus proche LITTLE RIVER
County Comté DIGBY
Province Province NOVA SCOTIA

SCHEDULE VI---Continued/ANNEXE V1 (suite)
(Subsection 58(1)/paragraphe 58(1))



Fisheries and Oceans
Pêche et Océans

demande

Application No./N° de la

APPLICATION FOR AUTHORIZATION FOR WORKS OR UNDERTAKINGS AFFECTING FISH HABITAT
DEMANDE D'AUTORISATION POUR DES OUVRAGES OU ENTREPRISES MODIFIANT L'HABITAT DU POISSON

Type of Activity/Genre d'activité

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> Bridge
Traverse
Pont
d'eau | <input type="checkbox"/> Stream Realignment
Alignement de cours d'eau | <input type="checkbox"/> Gravel Removal
Enlèvement du gravier | <input type="checkbox"/> Stream
Traversée de cours |
| <input type="checkbox"/> Culvert
Ponceau | <input type="checkbox"/> Channelization
Canalisation | <input type="checkbox"/> Obstruction Removal - Bypass
Enlèvement ou contournement
d'obstacle | <input type="checkbox"/> Seismic Survey
Levé sismique |
| <input type="checkbox"/> Dam
Barrage | <input type="checkbox"/> Wharf - Break water
Quai - Brise-lames | <input type="checkbox"/> Stream Utilization - Recreation
Utilisation récréative du cours d'eau | <input type="checkbox"/> Agriculture |
| <input type="checkbox"/> Stream Diversion
Dérivation de cours d'eau | <input type="checkbox"/> Dewatering
Assèchement | <input type="checkbox"/> Erosion Control
Lutte contre l'érosion | <input checked="" type="checkbox"/> Other (Specify)
Autres (préciser)
<i>MARINE TERMINAL
AND QUARRY</i> |
| <input type="checkbox"/> Mining
Activité minière | <input type="checkbox"/> Aquaculture | <input type="checkbox"/> Flood Protection
Protection contre les inondations | |

List of Agencies (Federal, Provincial or Municipal) contacted or notified, or who have initiated contact with the applicant.
Liste des organismes (fédéraux, provinciaux ou municipaux) contactés ou qui ont pris contact avec le requérant.

DEPARTMENT OF FISHERIES AND OCEANS
CANADIAN ENVIRONMENTAL ASSESSMENT AGENCY
NSVA SCOTIA DEPARTMENT OF ENVIRONMENT AND LABOUR

PROVIDE DETAILS OF PROPOSED ACTIVITY INCLUDING REASONS FOR THE PROJECT AND TYPES OF EQUIPMENT TO BE USED
DONNER DES PRÉCISIONS SUR LES TRAVAUX PROJETÉS, Y COMPRIS LA JUSTIFICATION DU PROJET ET LE TYPE D'ÉQUIPEMENT À UTILISER

SEE ATTACHED

SCHEDULE VI---Continued /ANNEXE V1 (suite)
(Subsection 58(1)/paragraphe 58(1))



Fisheries and Oceans
Pêche et Océans

_____ demande

Application No./N° de la

**APPLICATION FOR AUTHORIZATION FOR WORKS OR UNDERTAKINGS AFFECTING FISH HABITAT
DEMANDE D'AUTORISATION POUR DES OUVRAGES OU ENTREPRISES MODIFIANT L'HABITAT DU POISSON**

SCHEDULE/CALENDRIER

	D/J	M/M	Y/A
Proposed Starting Date Date prévue du début des travaux	<u>01</u>	<u>06</u>	<u>2003</u>
Proposed Completion Date Date prévue de l'achèvement des travaux	<u>01</u>	<u>06</u>	<u>2003</u>

Approximate Timing of Work in shoreline, foreshore, tidal zone, or underwater areas.
Période approximative des travaux sur le rivage et les estrans ainsi que dans les zones à marées et les zones sous-marines.

	D/J	M/M	Y/A	To/À	D/J	M/M	Y/A
From/De	<u>01</u>	<u>03</u>	<u>04</u>		<u>01</u>	<u>08</u>	<u>04</u>

The following documents will assist in assessing your application and help expedite its approval. Please check which documents you have attached.

Les documents suivants faciliteront l'évaluation de votre demande et permettront d'accélérer son approbation. Veuillez cocher les documents vous avez joints à votre demande.

- Map indicating location of project Carte indiquant l'emplacement du projet
- Engineering Specifications Spécifications techniques
- Scale Drawings Dessins à l'échelle
- Dimensional Drawings Plans cotés
- Assessment of Existing Fish Habitat Characteristics Évaluation des caractéristiques existantes de l'habitat du poisson
- Assessment of Potential Effects of Project on Fish Habitat Évaluation des répercussions possibles sur l'habitat du poisson
- Measures Proposed to Offset Potential Damage to Fish Habitat Mesures proposées pour compenser les éventuels dommages à l'habitat du poisson
- Other Autres

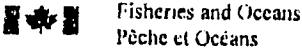
**ENVIRONMENTAL ASSESSMENT AND REVIEW PROCESS
CONSIDERATIONS**

**CONSIDÉRATIONS CONCERNANT LE PROCESSUS
D'ÉVALUATION ET D'EXAMEN EN MATIÈRE D'ENVIRONNEMENT**

NOTE: All applications pursuant to section 35 of the Fisheries Act will be assessed in accordance with applicable federal environmental assessment requirements.

REMARQUE: Toute demande en vertu l'article 35 de la Loi sur les pêches sera soumise aux exigences fédérales applicables à l'évaluation environnementale.

SCHEDULE VI---Concluded/ANNEXE VI (fin)
(Subsection 58(1)/paragraphe 58(1))



Application No./N° de la demande

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COMPLETE ONLY IF USE OF EXPLOSIVES IS INTENDED
À REMPLIR SEULEMENT EN CAS D'UTILISATION D'EXPLOSIFS

EXPLOSIVES CONTRACTOR (IF DIFFERENT FROM APPLICANT)/RESPONSABLE DES EXPLOSIFS (SI AUTRE QUE LE REQUÉRANT)

Name/Nom: DYNO NOBEL LTD.
Address/Adresse: 6300 AUTEULL, SUITE 410
BROSSARD, QUEBEC J4Z 3P2
Telephone No./N° de téléphone: 902-865-8522

Anticipated Starting Date	D/J	M/M	Y/A	Completion Date	D/J	M/M	Y/A
Date prévue du début des travaux	<u>01</u>	<u>06</u>	<u>2003</u>	Date d'achèvement	<u>01</u>	<u>06</u>	<u>2003</u>

DETAILS OF EXPLOSIVES/PRÉCISIONS SUR LES EXPLOSIFS

Type (including trade name)
Genre (y compris la marque) Bulk Emulsion - Dyno Gold Lite 70/30

Weight and configuration (where applicable)
Poids et forme (le cas échéant) Weight of explosive, and hole configuration, and hole depth will vary depending on location in the quarry.

Weight of individual shots and shot pattern where multiple charges are used
Poids des coups individuels et déploiement des coups, en cas de charges multiples
Weight of explosive per shot and shot pattern of multiple charges will vary depending on location in the quarry.

Detonation depth (In the rock; note also the depth of water, if applicable)
Profondeur de détonation (dans le roc; indiquer aussi la profondeur de l'eau, s'il ya lieu)
Detonation depth will vary depending on location in the quarry. No blasting is proposed in surface or marine waters.

Method of detonation
Méthode de détonation Detonation would be initiated using snapelets 25/500 ms and delayed with snapple 42 ms. This could also vary depending on site location and required setback guidelines.

May 10, 2003

Whites Point Quarry Marine Terminal

Project Location.

The location of the proposed Whites Point Marine Terminal is shown on Maps 1 and 2 attached. The location of the marine terminal is 44 degrees 27' 55" N and 66 degrees 08' 45" W.

Project Description.

The overall dimensions of the marine terminal are shown on Preliminary Concept Drawings 1 and 2 attached. The duration of construction for the marine terminal is expected to be one year depending on weather conditions. Construction materials will consist of steel pipe piles, drilled and anchored to the basalt bedrock, and concrete pile caps for the berthing dolphins. The ship loader will be constructed of steel with similar pipe pile and concrete foundation systems. The conveyor system from shore will also be supported in a similar manner. Floating construction platforms are proposed to avoid disturbance to the nearshore and intertidal habitats. No dredging, filling or blasting is anticipated in marine waters during the construction process. Further, all on land blasting will be conducted in accordance with "Guidelines for the Use of Explosives In or Near Canadian Fisheries waters".

Assessment of Existing Fish Habitat Characteristics.

Assessment of the existing fresh water course on the land area of the proposed quarry (Map 3 attached) by the Department of Fisheries and Oceans Habitat Management Division (DFO-HMD) in September 2002 concluded that this watercourse cannot be categorized as "Fish Habitat".

Assessment of the nearshore fish habitat in the area of the proposed marine terminal indicates exposed basalt bedrock in the bottom area below chart datum. This habitat is known to support such species as lobster, starfish, sea urchins, sea cucumbers, and various fish including herring. The bottom habitat above chart datum in the lower and mid tidal zone is also basalt bedrock with a thick mat of rockweed. This habitat is known to support such species as periwinkles, blue mussels, hermit crabs, dog welks, and green crabs. The upper tidal zone and landward is primarily exposed basalt bedrock. Water depths in the area of the proposed marine terminal below chart datum, average high water mark and highest high tide water mark are shown on Drawings 1 and 2 attached.

Assessment of Potential Effects of Project on Fish Habitat.

The design of the conveyor support systems proposed within the intertidal zone will have minimal effect on the bottom habitat. Approximately nine pipe piles with a diameter of three feet each will be anchored within the intertidal zone. This would result in a permanent displacement of seven square feet of bottom area per three foot diameter pile. This would result in approximately sixty-three square feet of intertidal bottom habitat being permanently displaced.

Again, assuming three – three foot diameter pipe piles per support structure (conveyor, shiploader, and berthing dolphins) in nearshore waters, one hundred twenty-six square feet of bottom habitat would be effected. The total marine bottom habitat effected (intertidal and nearshore) is projected to be approximately one hundred ninety square feet.

Water quality in the intertidal and nearshore areas during construction will experience negligible alteration since no appreciable bottom sediments are present in the marine terminal construction area. Socket drilling for the pipe piles will be in the bedrock and within the pipe casing. This drilling process will produce basalt aggregate size material with little or no fines. Anchor drilling for the pipe piles will be done within the pile casing also and any fines resulting will be confined within the casing and removed with no discharge into the marine environment.

The proposed pipe pile construction technique within the water column will produce negligible effects on the existing tidal and nearshore water currents.

Measures Proposed to Offset Potential Damage to Fish Habitat.

The design and construction methods proposed for the marine terminal constitute the primary mitigation factors to offset potential damage to fish habitat. The proposed pipe pile support system for marine structures will result in negligible effects on bottom habitat when compared to other construction methods such as rock fill or other types of infill construction. As well, floating or jack-up construction platforms are proposed for the marine construction with an approximate one year construction period. This will minimize disturbance to the nearshore and intertidal bottom and water column habitats in space and time.

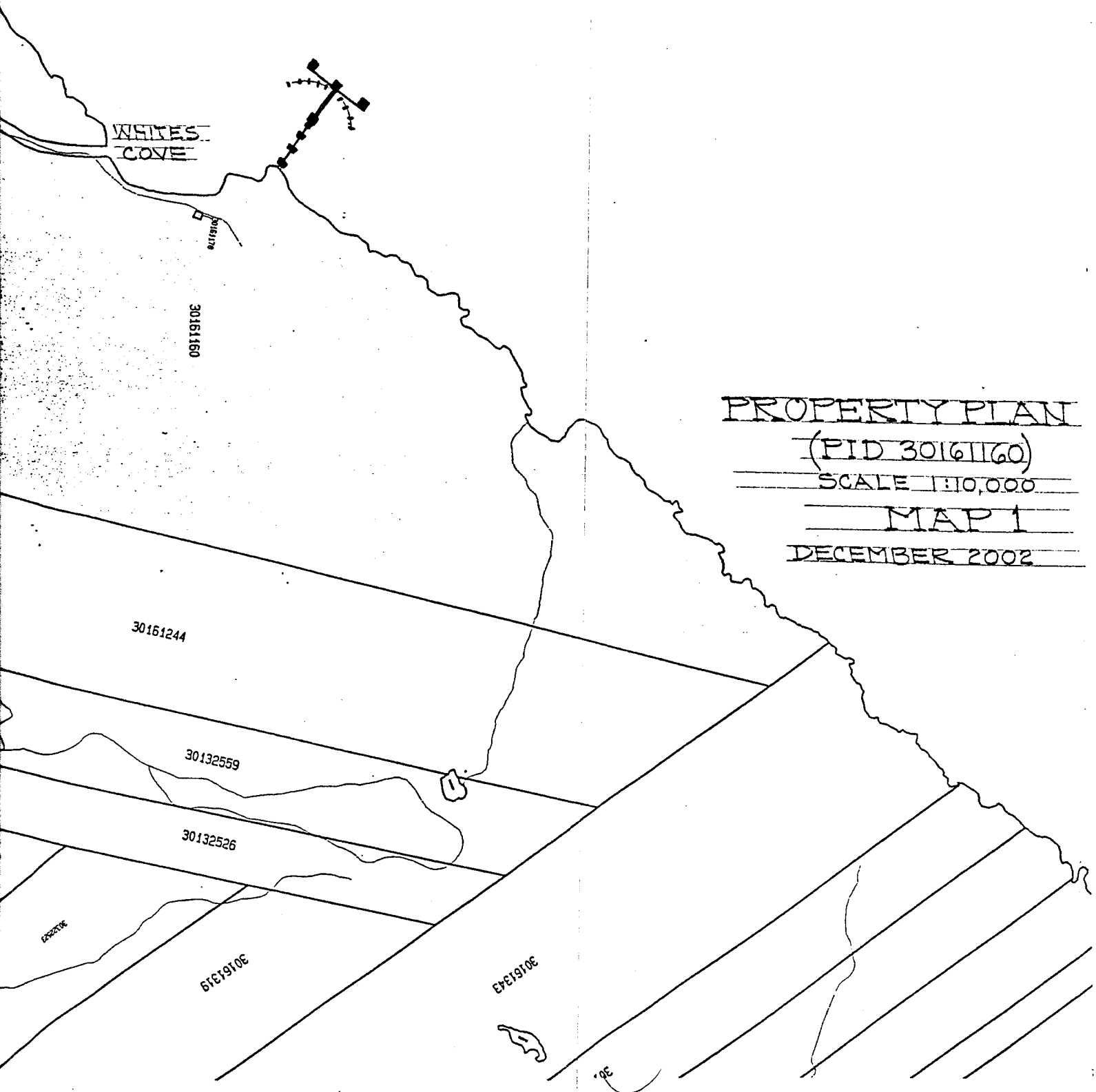
Although approximately one hundred ninety square feet of bottom habitat will be displaced, vertical surface habitat area in the water column would be created. The total vertical surface area available for potential marine growth would be much greater than the bottom habitat directly displaced. Nearshore and intertidal current flows would be virtually unimpeded. As a result of the above factors, no net loss of habitat and potentially a net increase and diversification of total habitat area could be realized.

Other.

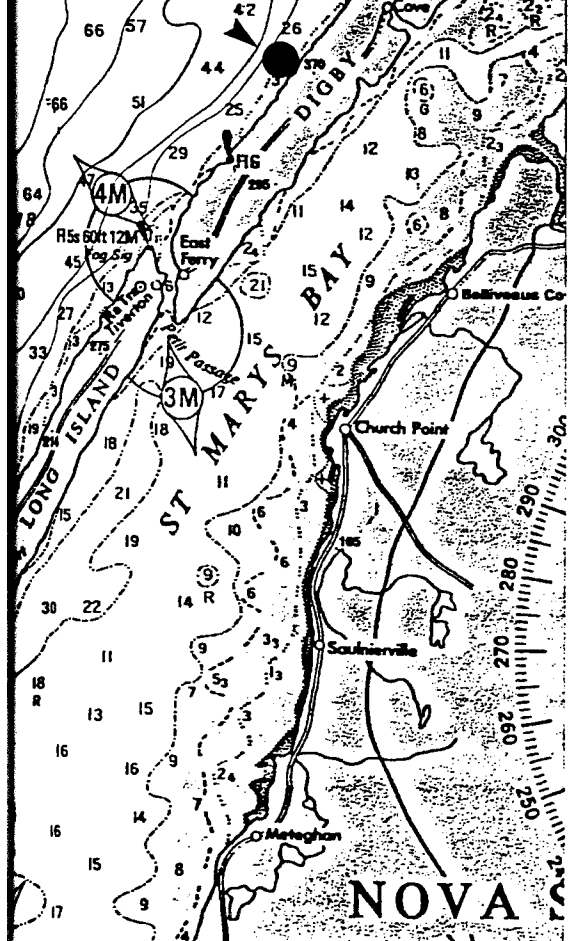
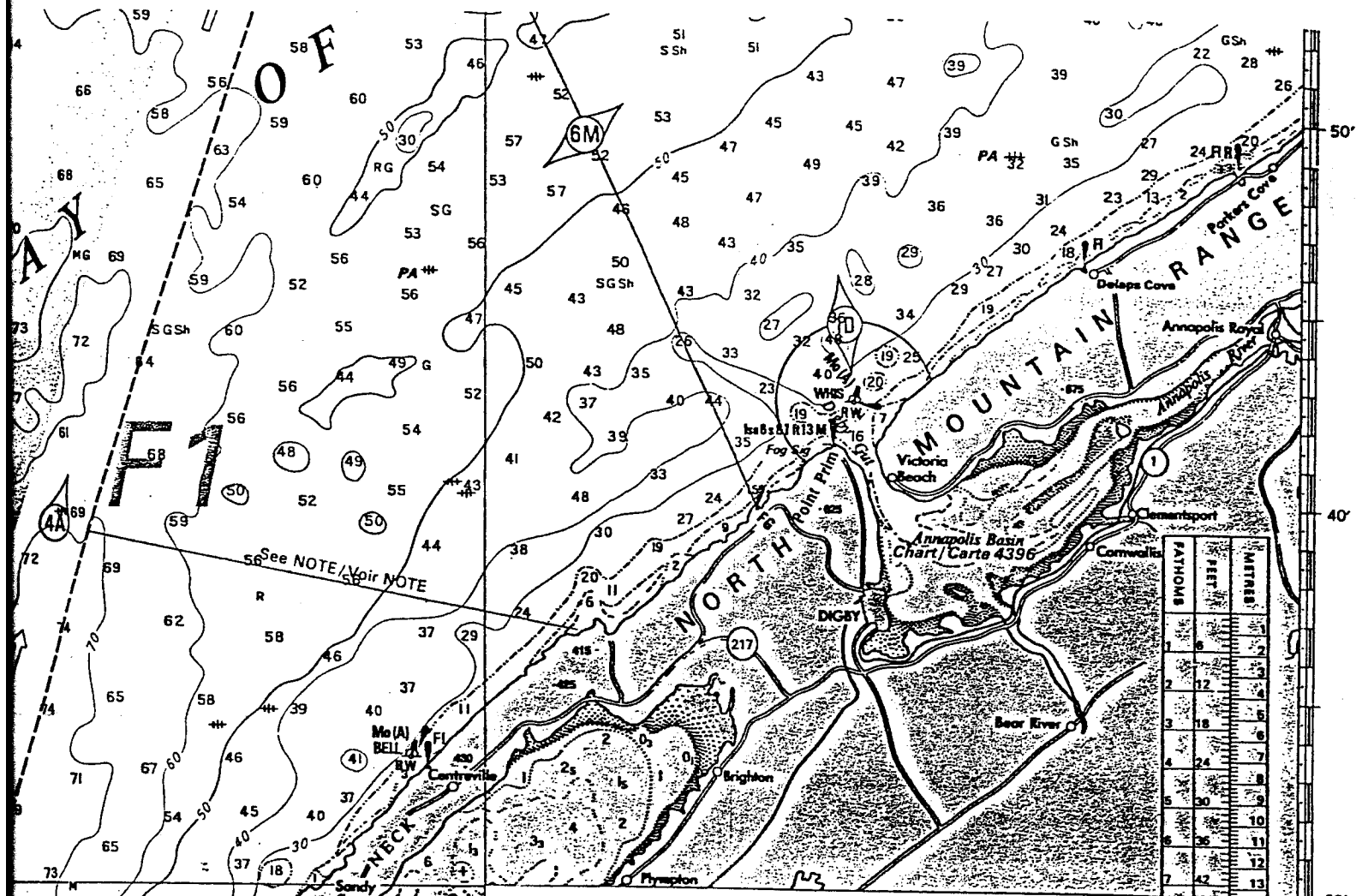
Surface water runoff from land based operations will be channeled into a sediment retention pond/ponds. Discharges at the sediment retention pond overflow will be monitored on a weekly basis for pH and Total Suspended Solids and on a monthly basis for general chemistry. Discharges will be maintained in accordance with the Nova Scotia Department of Environment and Labour criteria with monthly summary reports furnished to the Department. The quantity and quality of site surface water being discharged into the receiving waters of the Bay of Fundy is expected to remain the same as presently occurring.

OF FUNDY 2

PROPOSED MARINE TERMINAL
WHITES POINT QUARRY
DIGBY NECK, NS



PROPERTY PLAN
(PID 30161160)
SCALE 1:10,000
MAP 1
DECEMBER 2002



PROPOSED MARINE TERMINAL
WHITES POINT QUARRY
DIGBY NECK, NS



PROJECT LOCATION

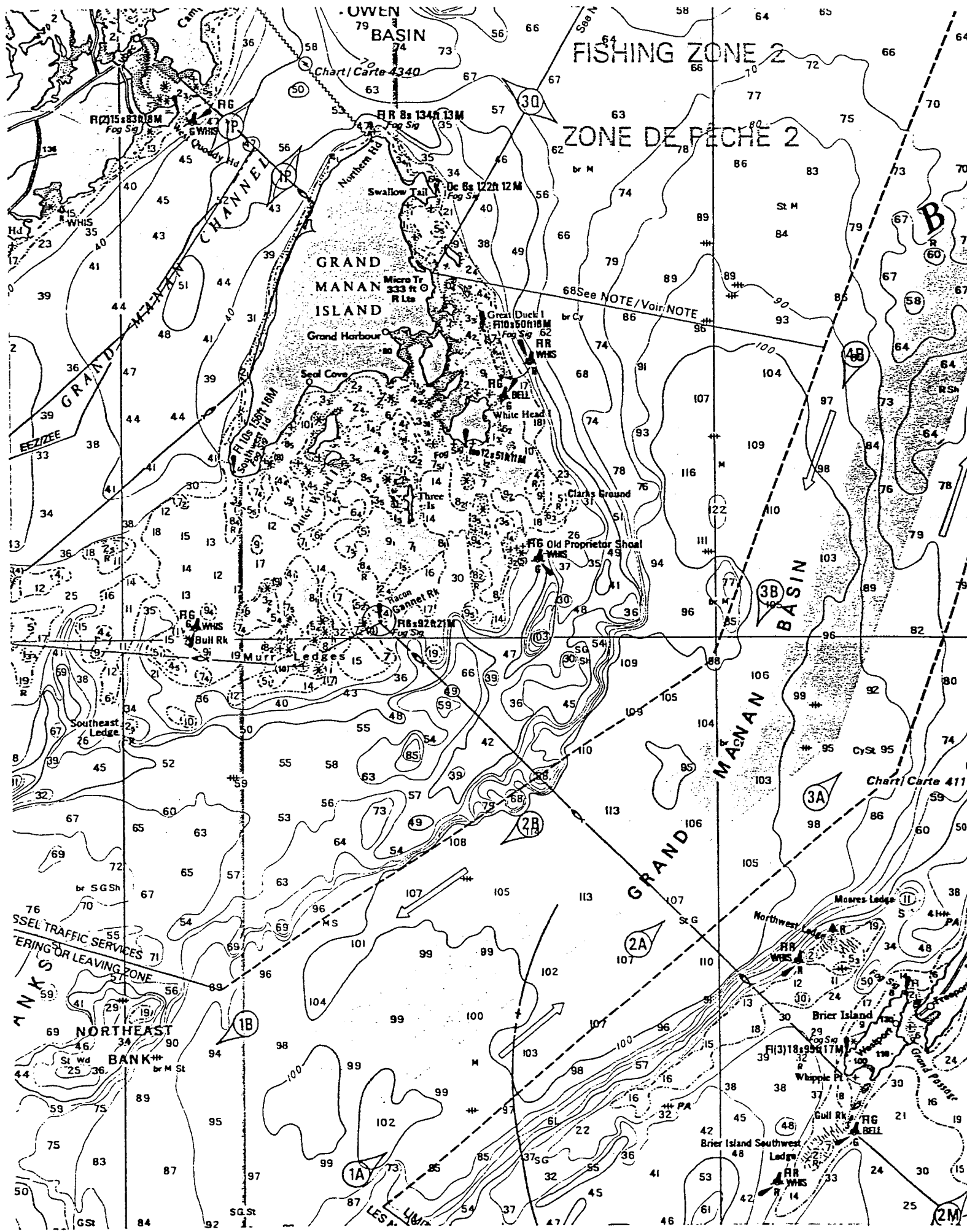
SCALE 1:300,000



DEC. 2002

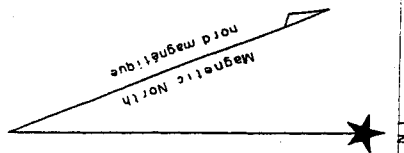
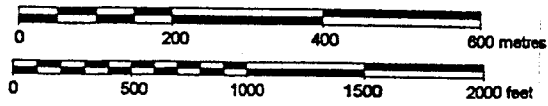
MAP 2

NOVA



4 927 000m

Scale 1 : 10000



5 369 000m

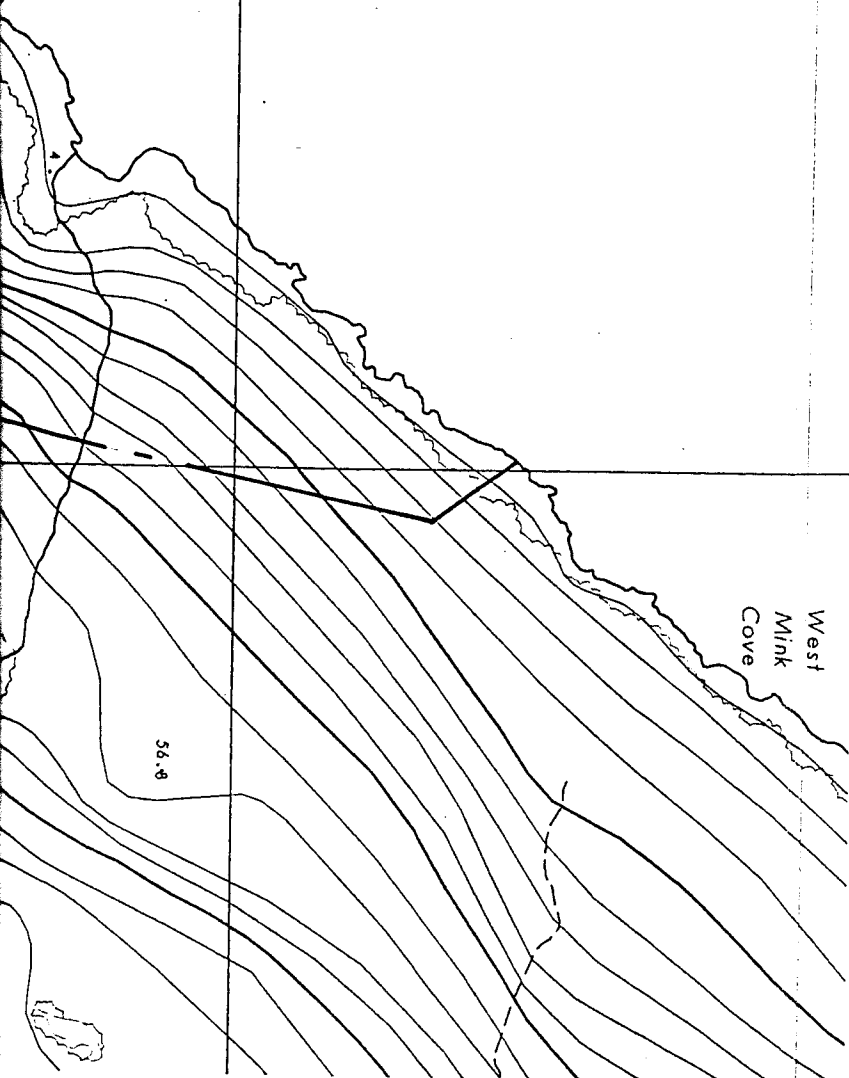
PROPOSED MARINE TERMINAL
 WHITES POINT QUARRY
 DIGBY NECK, NS

5 370 000m

PLOT PLAN

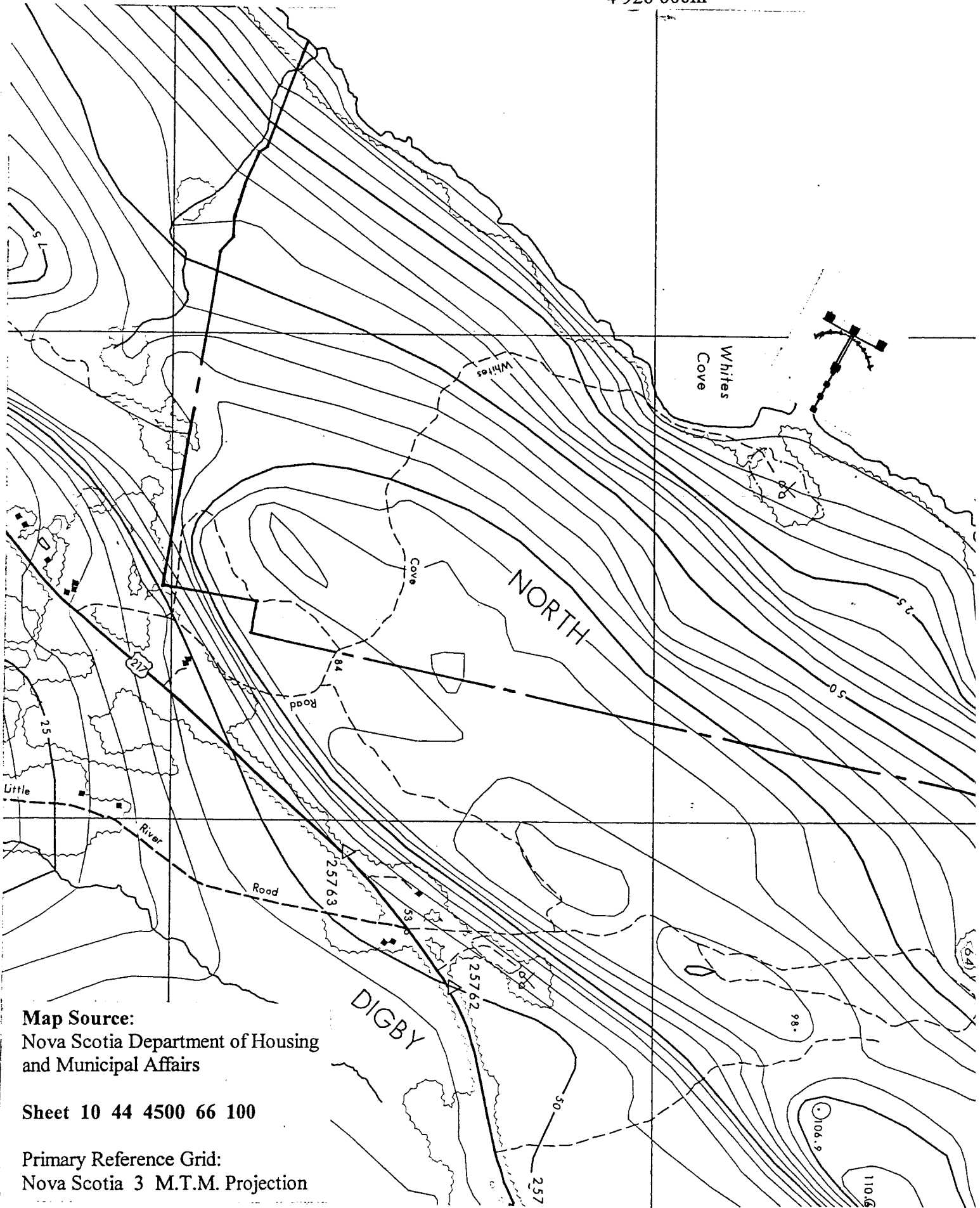
DEC. 2002

MAP 3



4 925 000m

4 926 000m



Map Source:
Nova Scotia Department of Housing
and Municipal Affairs

Sheet 10 44 4500 66 100

Primary Reference Grid:
Nova Scotia 3 M.T.M. Projection

LEGEND

△ BENCHMARK #1, ELEV. 9.5
44°27.85' N 66°08.66' W

D#1, D#2, D#3 - BERTHING DOLPHIN:

44°28'00" N

28
26

28

26

66°08'45"

140000

61000

BERTHING DOLPHIN (3) = 6000 X 15000

24
22
20
18

D#3

80000

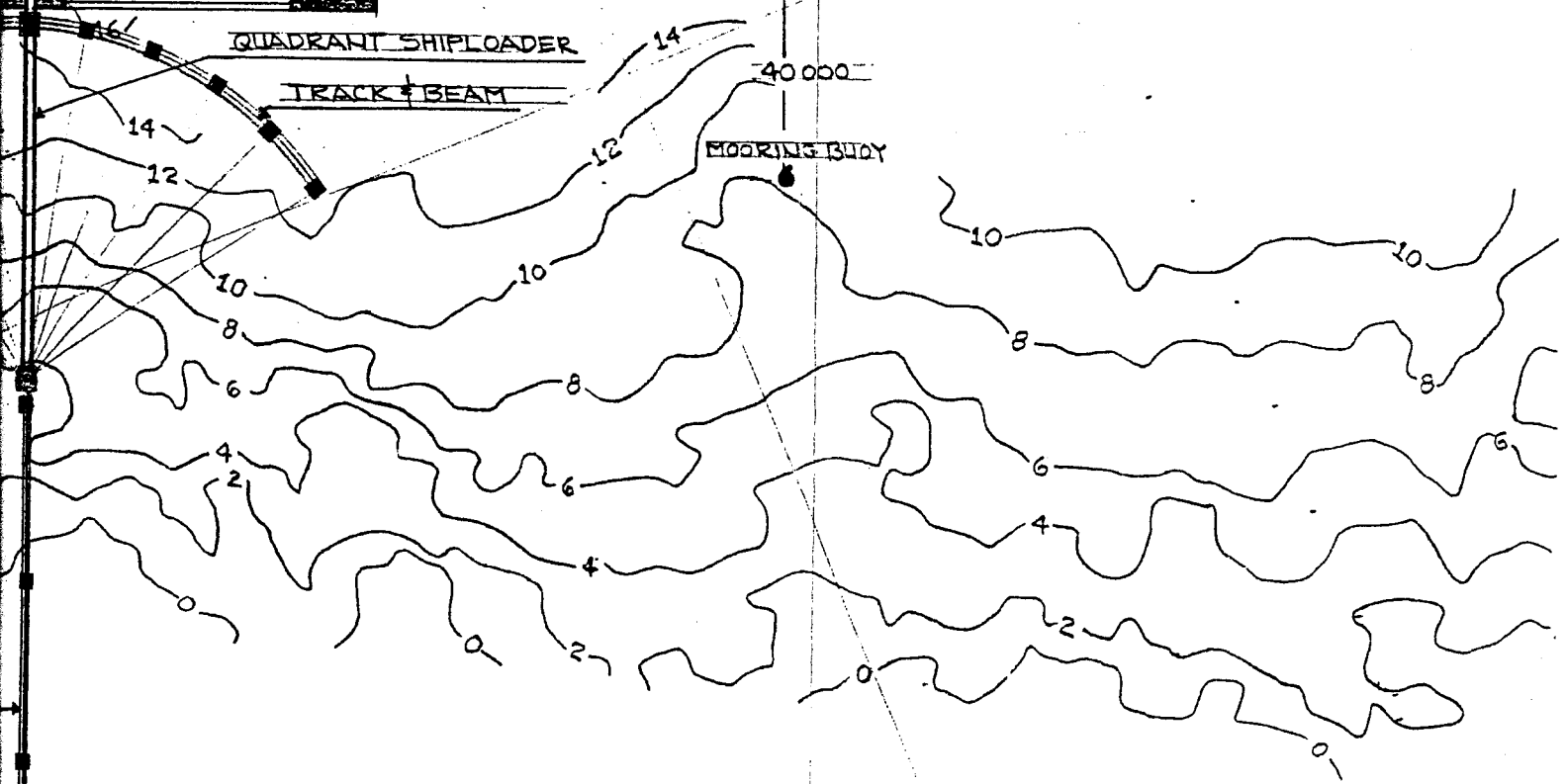
16

QUADRANT SHIPLOADER

TRACK & BEAM

40000

MOORING BUOY



CONVEYOR SUPPORT

NOTE:
BOTTOM CONTOURS - METERS - BELOW CHART DATUM
ALL ELEVATIONS REFERENCED TO CHART DATUM (0 METERS)

POINT

44°28'00" N

66°08'30"

PLAN
WHITES POINT QUARRY
MARINE TERMINAL



Preliminary Concept

SCALE: 1:1500 DEC. 2002 REV. JAN. 28, 2003

DRAWING 1

2. BAY OF FUNDY 2

44°21'50" N

66° 08' 55" W

22-

20-

20-

18-

18-

16-

MOORING BUOY

14

12

10

14

12

20

12

10

10

2

4

0

6

0

10

8

6

4

2

±200000

40000

80000

60000

±15000

61000

20-

18-

D#1

D#2

CONVEYOR

66° 08' 45" W

2. WHITES COVE 2

B.M. #1



ORDINARY HIGH WATER LINE ±7.5m

WHITES

84000

44°21'50" N