

Oil and Gas Commission

6534 Airport Road, Fort St. John, B.C.  
V1J 4M6

**PERMIT**  
**PE-108469**

*Under the Provisions of the Environmental Management Act*

**LNG Canada Development Inc.**  
**400 4<sup>th</sup> Avenue SW**  
**Calgary, A.B.**  
**T2P 0J4**

is authorized to discharge effluent to the environment from a proposed natural gas liquefaction facility and marine terminal site located near Kitimat, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

**1. DEFINITIONS**

For the purpose of this permit, the following definitions apply:

- 1.1. *Act* means the *Environmental Management Act*;
- 1.2. *Discharge* means the total mass of a solid, liquid or gaseous material introduced into the environment;
- 1.3. *Manager* means an OGC employee authorized to exercise the powers of the OGC under Section 14 of the *Environmental Management Act*;
- 1.4. *OGC* means the B.C. Oil and Gas Commission;
- 1.5. *Permittee* means LNG Canada Development Inc.
- 1.6. *Dredge Season* means September 1 to February 15 of the following year.

1.7. **Initial Dilution Zone (IDZ)** means a cylinder with a maximum 100m radius around the discharge point, extending from the sediment to the water surface (MOE 1987) for Marine point discharges. IDZ associated with Leachate means groundwater discharge zones determined based on groundwater modeling, extending from the sediment to the water surface. IDZ during dredging operations shall be as above or as approved in writing by the Manager.

**2. AUTHORIZED DISCHARGES**

2.1. This subsection applies to the discharge effluent from **A MATERIAL OFFLOADING FACILITY, LNG BERTH AND EARLY CONSTRUCTION WORKS**. The site reference number for this discharge is E307646

2.1.1. The combined authorized discharge rates are:  
 Runoff: maximum est. 11,640 m<sup>3</sup>/day and Typical average of 615 m<sup>3</sup>/day.  
 Groundwater discharged to surface (dewatering): Maximum est. 38,000 m<sup>3</sup>/day and typical average of 24,000 m<sup>3</sup>/day. Increased groundwater discharge to surface (dewatering) is authorized until August 31<sup>st</sup>, 2021, after such time the authorized average rate of discharge will revert to 85 m<sup>3</sup>/day.

2.1.2. The effluent quality shall meet the following criteria at the point(s) of discharge:

Parameters	Maximum Values
Total Suspended Solids	75 mg/L
pH range	5.5 – 8.5
Other Contaminants	None in concentrations that may have an adverse effect on the receiving environment.

2.1.3. The authorized works are all structures associated with the Material Offloading Facility (MOF), LNG Berth and/or early construction works of the Dredgeate Disposal Site (DDS) including settlement basins, flocculant systems, & sand filters, which will be used to discharge water of acceptable quality as defined in Section 2.1.2 into the Kitimat Harbour. Water discharge will be made in accordance with those measures outlined within *Attachment A Dewatering and Water Treatment Plan* submitted as part of the amendment application.



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 Supervisor, Environmental Stewardship

- 2.1.4. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Plan 12731 (PID 016334558) and an easement of District Lot 5469 (PID 004332041) and the receiving environment is described as Coastal Range 5 Land District, Plan 12731 (PID 016334558) and RTA leased Crown water lot DL 7940 (Feature Code AR20050000).
- 2.1.5. Record the daily discharge volume.
- 2.1.6. Retain for a period of 5 years, all records specified in 2.1.5 and make those records available to the OGC for inspection upon request.

**2.2.** This subsection applies to the discharge of effluent from an **IL+ MANAGEMENT AREA**. The site reference number for this discharge is E307647.

- 2.2.1. The maximum authorized discharge rates are:  
 Runoff: Maximum est. 865m<sup>3</sup>/day and Typical average of 80m<sup>3</sup>/day.  
 IL+ Dredge Water: Typical average of 430m<sup>3</sup>/day.  
 Runoff from IL+ Temporary Storage (Maximum 3 years): Maximum est. 865m<sup>3</sup>/day and Typical average of 80m<sup>3</sup>/day.

2.2.2. The effluent quality shall meet the following criteria at the point(s) of discharge:

Parameters		Maximum Values	
Total Suspended Solids		75 mg/L	
pH range		5.5 - 8.5	
Metals	Copper	18.00 ug/L	
Polycyclic	Fluoranthene	2.77 Ug/L	
Aromatic	Pyrene	2.10 ug/L	
Hydrocarbons (PAHs)	Benz(a)anthracene	0.92 ug/L	
	Chrysene	2.00 ug/L	
	Benzo(a)pyrene	0.66 ug/L	
Other Contaminants	None in concentrations that may have an adverse effect on the receiving environment		

2.2.3. The authorized works are all structures and appurtenances required for IL+ Management such as material segregation, mechanical dewatering/stabilization, temporary storage and loading of IL+ material for transport to an off-site disposal facility. Impacted soils from site remediation may also be stored in the IL+ Management Area.



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- 2.2.4. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Plan 12731 (PID 016334558) and the point of discharge is described as Coastal Range 5 Land District, RTA leased Crown water lot DL 981 (PID 009834290).
- 2.2.5. The management of IL+ material shall be limited to a period of 3 dredge seasons. This may be extended with the written consent of the Manager.
- 2.2.6. Temporary storage of IL+ material at the site is authorized until December 31, 2021, unless an extension is obtained from and confirmed in writing by the Manager.
- 2.2.7. Record the daily discharge volumes.
- 2.2.8. Retain for a period of 5 years, all records specified in 2.2.7 and make those records available to the OGC for inspection upon request.

**2.3. This subsection applies to the discharge of effluent from a MARINE/LAND TRANSITION AREA. The site reference number for this discharge is E307664.**

- 2.3.1. The maximum authorized discharge rates are:  
 Runoff: Maximum est. 780m<sup>3</sup>/day and Typical average of 75m<sup>3</sup>/day.  
 Dredge Water: Maximum est. 550m<sup>3</sup>/day and Typical average of 345m<sup>3</sup>/day.

- 2.3.2. The effluent quality shall meet the following criteria at the point(s) of discharge:

Parameters		Maximum Values	
		IL+ Dredge Water /Runoff	IL- Dredge Water /Runoff
Total Suspended Solids		75 mg/L	75 mg/L
pH range		5.5 - 8.5	5.5 - 8.5
Metals	Copper	18.00 ug/L	18.00 ug/L
Polycyclic Aromatic Hydrocarbons (PAHs)	Fluoranthene	2.77 Ug/L	2.77 Ug/L
	Pyrene	2.10 ug/L	2.10 ug/L
	Benz(a)anthracene	0.92 ug/L	0.92 ug/L
	Chrysene	2.00 ug/L	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L	0.66 ug/L
Other Contaminants		None in concentrations that may have an adverse effect on the receiving environment.	



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- 2.3.3. The authorized works are all structures and appurtenances required for initial dewatering of dredged sediment and the transfer of dredged sediment from barges to onshore facilities.
- 2.3.4. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Crown water lot DL 981 (PID 009834290) and the receiving environment is described as Coastal Range 5 Land District, RTA leased Crown water lot DL 981 (PID 009834290) and DL 7940 (Feature Code AR20050000).
- 2.3.5. The management of IL+ material and associated effluent discharges shall be limited to a period of 3 dredge seasons. This may be extended with the written consent of the Manager.
- 2.3.6. Discharge of dredge water associated with IL- material from the Marine Land Transition Area is authorized only if the permit holder opts to use mechanical rather than hydraulic means to place sediment in the Dredgeate Disposal Site.
- 2.3.7. Record the daily discharge volume.
- 2.3.8. Retain for a period of 5 years, all records specified in 2.3.7 and make those records available to the OGC for inspection upon request.
- 2.4. This subsection applies to the discharge of effluent from a **DREDGEATE DISPOSAL SITE (DDS)**. The site reference number for this discharge is E307648.**
- 2.4.1. The maximum authorized discharge rates are:  
Phase B (filling) Dredge Water/Runoff: Maximum est.16530m<sup>3</sup>/day and Typical average of 4500m<sup>3</sup>/day.  
Leachate Foundation Seepage: No specified limit (est. 540m<sup>3</sup>/day)  
Phase C (dewatering) Runoff: Maximum est.5500m<sup>3</sup>/day and Typical average of 130m<sup>3</sup>/day.  
Leachate: No specified limit (est. 85m<sup>3</sup>/day)  
Phase D (closure) Runoff: Maximum est.5510m<sup>3</sup>/day and Typical average of 115m<sup>3</sup>/day.  
Leachate: No specified limit (est. 140m<sup>3</sup>/day)
- 2.4.2. The effluent quality for dredge water and runoff shall meet the following criteria at the point(s) of discharge:



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Parameters		Maximum Values	
		During Dredging Operations/ active material placement:	Pre/Post Dredging Operations:
Total Suspended Solids		75 mg/L	50 mg/L
pH range		5.5 - 8.5	5.5 - 8.5
Metals	Copper	18.0 ug/L	18.0 ug/L
Polycyclic Aromatic Hydrocarbons (PAHs)	Fluoranthene	2.77 Ug/L	2.77 Ug/L
	Pyrene	2.10 ug/L	2.10 ug/L
	Chrysene	2.00 ug/L	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L	0.66 ug/L
Other Contaminants		None in concentrations that may have an adverse effect on the receiving environment.	

2.4.3. The effluent quality for groundwater shall meet the following criteria at the point(s) of compliance:

Parameters		Maximum Values
pH range		5.5 - 8.5
Metals	Copper	18.00 ug/L
Polycyclic Aromatic Hydrocarbons (PAHs)	Fluoranthene	2.77 ug/L
	Pyrene	2.10 ug/L
	Chrysene	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L
Other Contaminants	None in concentrations that may have an adverse effect on the receiving environment.	

2.4.4. The authorized works are all structures and appurtenances associated with the DDS including cell(s), containment berms, access roads, perimeter ditching and other drainage works, piping and pumps and a settling pond.

2.4.5. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Plan 12731 (PID 016334558) and an easement of District Lot 5469 (PID 004332041). The location of the point source discharge is described as Coastal Range 5 Land District, Plan 12731 (PID 016334558) and RTA leased Crown water lot DL 7940 (Feature Code



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Date Issued: February 3, 2017  
Date Amended: May 26<sup>th</sup>, 2020

AR20050000). The location of groundwater discharge areas are described as Coastal Range 5 Land District, RTA leased Crown water lot DL 7940 (Feature Code AR20050000) and District Lot 5469.

- 2.4.6. Record the daily discharge volume.
- 2.4.7. Retain for a period of 5 years, all records specified in 2.4.6 and make those records available to the OGC for inspection upon request.

### **3. GENERAL REQUIREMENTS**

#### **3.1. Maintenance of Works and Emergency Procedures**

The Permittee shall inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Permittee, which prevents continuing operation of the authorized works, the Permittee shall immediately take appropriate remedial action and notify the Manager by phone or email within 72 hours. Any spill that is reportable under the Spill Reporting Regulation shall be immediately reported to EMBC by calling 1-800-663-3456.

#### **3.2. Bypasses**

The discharge of contaminants, which have bypassed the authorized works, is prohibited unless the consent of the Manager is obtained and confirmed in writing.

#### **3.3. Process Modifications**

The Permittee shall notify the Manager prior to implementing changes to any process that may affect the quality and/or quantity of the discharge.

#### **3.4. Permittee Name Change or Transfer of the Facility**

Any change to the name of the Permittee, such as the sale of the facility or a corporate name change shall be reported to the Manager in writing within 30 days of the transaction.

### **4. MONITORING AND REPORTING REQUIREMENTS**

The Manager may alter the monitoring and reporting program as needed. The need for changes to the program will be based upon the results submitted as well as any other information obtained by the OGC in connection with the discharges. Should Kitimat Harbour Water Quality Objectives or the Kitimat Arm Water Quality Objectives not be



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met at the edge of the Initial Dilution Zone (IDZ), lowering of effluent discharge quality criteria or authorized effluent volumes may be required.

#### 4.1 General Monitoring Requirements

The Permittee shall maintain information, analytical data and flow measurements as described in Section 2 for inspection by OGC.

#### 4.2 Discharge Monitoring Plan

Discharge monitoring shall be in accordance with the Marine Monitoring Plan, Revision 2, issue date August 29<sup>th</sup>, 2019.

#### 4.3 Groundwater Monitoring Plan

Groundwater monitoring shall be in accordance with the approved Groundwater Monitoring Plan revision date June 21, 2018.

#### 4.4 Reporting

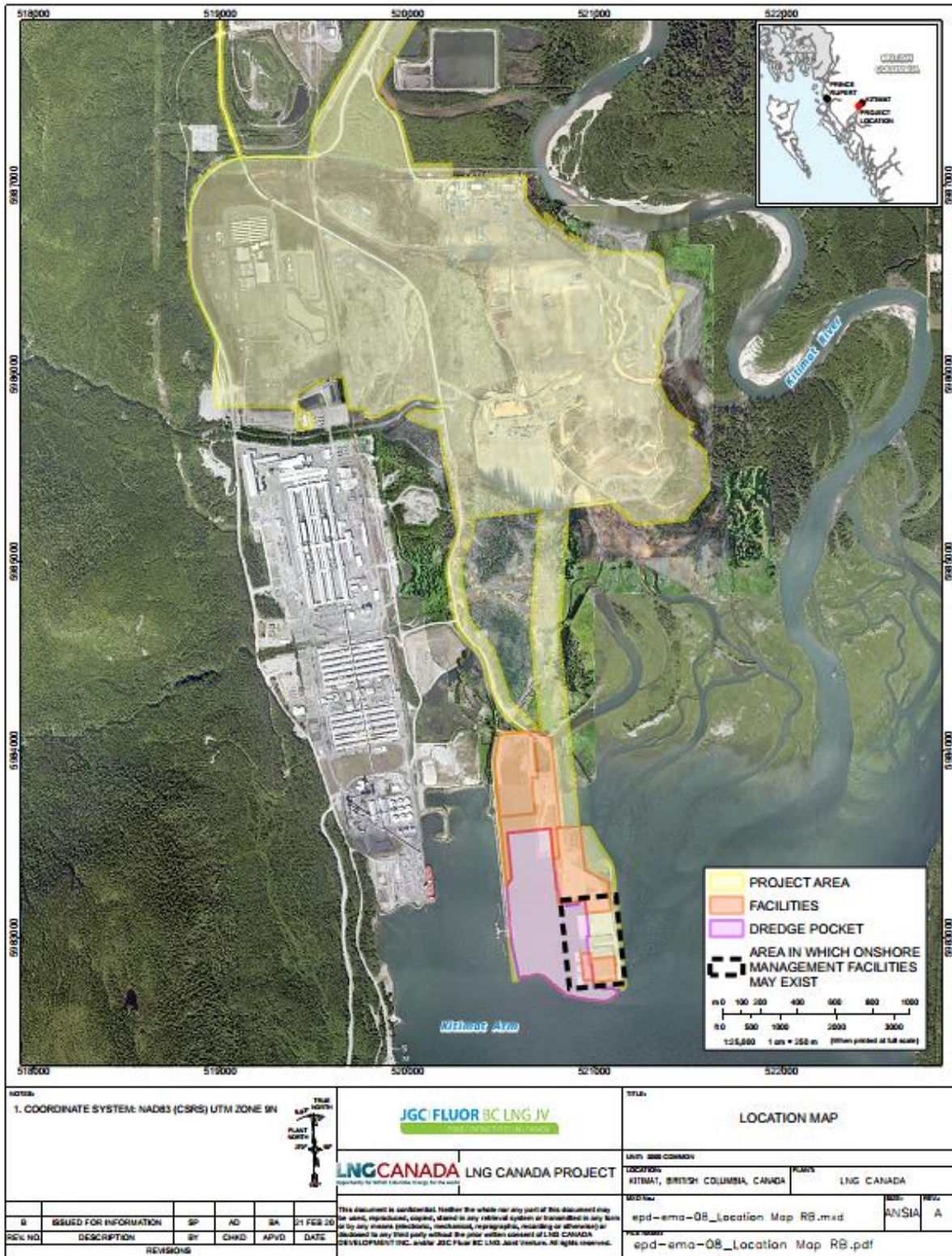
4.4.1 During the period of active discharge from the Site, the Permittee shall provide the Manager and the Haisla Nation with weekly updates of the monitoring results from the Discharge Monitoring Plan.

4.4.2 During each year of dredging operations, the Permittee shall submit to the Manager, an annual report of all discharge monitoring required under Section 4.2. The report shall cover a calendar year beginning September 1<sup>st</sup> ending August 31<sup>st</sup> of the following year and be submitted by October 15<sup>th</sup>. The report must include:


- Effluent discharge volumes
- Tabulated data from monitoring activities
- IL+ and IL- Dredge volumes

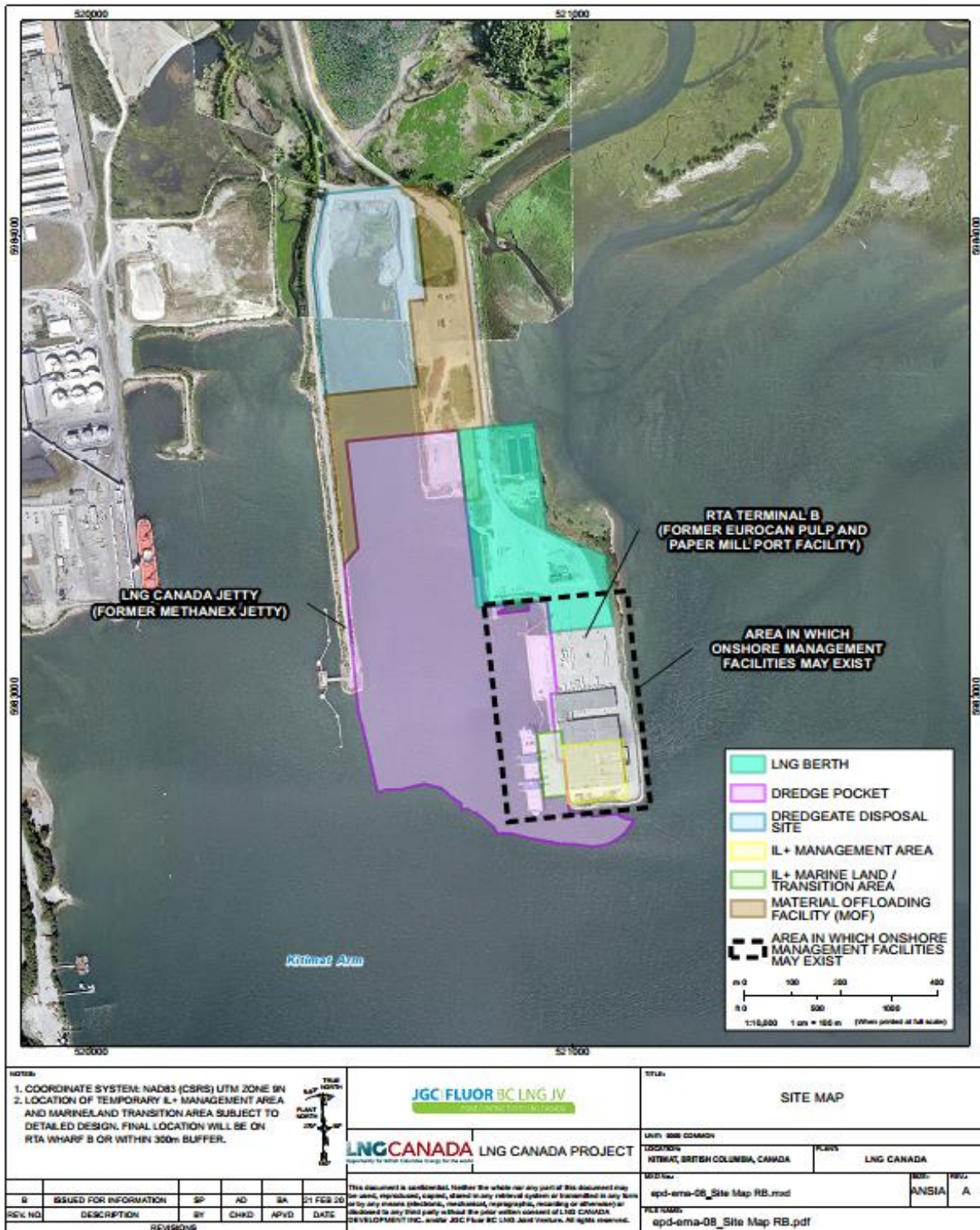
4.4.3 By March 1<sup>st</sup> each year, the Permittee must submit to the Manager, an annual report of groundwater monitoring activities required under section 4.3. The report shall cover a calendar year beginning January 1<sup>st</sup> and ending December 31<sup>st</sup> when ground water monitoring is completed.





Date Issued: February 3, 2017  
 Date Amended: May 26<sup>th</sup>, 2020

  
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**PE-108469**

*Under the Provisions of the Environmental Management Act*

**LNG Canada Development Inc.**  
**400 4<sup>th</sup> Avenue SW**  
**Calgary, A.B.**  
**T2P 0J4**


is authorized to discharge effluent to the environment from a proposed natural gas liquefaction facility and marine terminal site located near Kitimat, British Columbia, subject to the conditions listed below. Contravention of any of these conditions is a violation of the *Environmental Management Act* and may result in prosecution.

**1. DEFINITIONS**

For the purpose of this permit, the following definitions apply:

- 1.1. *Act* means the *Environmental Management Act*;
- 1.2. *Discharge* means the total mass of a solid, liquid or gaseous material introduced into the environment;
- 1.3. *Manager* means an OGC employee authorized to exercise the powers of the OGC under Section 14 of the *Environmental Management Act*;
- 1.4. *OGC* means the B.C. Oil and Gas Commission;
- 1.5. *Permittee* means LNG Canada Development Inc.

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- 1.6. *Dredge Season* means September 1 to February 15 of the following year.
- 1.7. *Initial Dilution Zone (IDZ)* means a cylinder with a maximum 100m radius around the discharge point, extending from the sediment to the water surface (MOE 1987) for Marine point discharges. IDZ associated with Leachate means groundwater discharge zones determined based on groundwater modeling, extending from the sediment to the water surface. IDZ during dredging operations shall be as above or as approved in writing by the Manager.

**2. AUTHORIZED DISCHARGES**

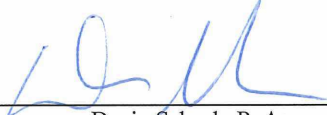
2.1. This subsection applies to the discharge effluent from **A MATERIAL OFFLOADING FACILITY AND EARLY CONSTRUCTION WORKS**. The site reference number for this discharge is E307646

- 2.1.1. The combined authorized discharge rates are:  
 Runoff: Maximum est. 11640m<sup>3</sup>/day and Typical average of 615m<sup>3</sup>/day.  
 Groundwater discharged to surface: Typical average of 85m<sup>3</sup>/day.
- 2.1.2. The effluent quality shall meet the following criteria at the point(s) of discharge:

Parameters	Maximum Values
Total Suspended Solids	75 mg/L
pH range	5.5 – 8.5
Other Contaminants	None in concentrations that may have an adverse effect on the receiving environment.

- 2.1.3. The authorized works are all structures associated with the Material Offloading Facility (MOF) and/or early construction works of the Dredgeate Disposal Site (DDS) including a settlement basin from which water of acceptable quality as defined in Section 2.1.2 will be discharged into the Kitimat Harbour.
- 2.1.4. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Plan 12731 (PID 016334558) and an easement of District Lot 5469 (PID 004332041) and the receiving environment is described as Coastal Range 5 Land District, Plan 12731 (PID 016334558) and RTA leased Crown water lot DL 7940 (Feature Code AR20050000).

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- 2.1.5. Record the daily discharge volume.
- 2.1.6. Retain for a period of 5 years, all records specified in 2.1.5 and make those records available to the OGC for inspection upon request.

2.2. This subsection applies to the discharge of effluent from an **IL+ MANAGEMENT AREA**. The site reference number for this discharge is E307647.

- 2.2.1. The maximum authorized discharge rates are:  
 Runoff: Maximum est. 865m<sup>3</sup>/day and Typical average of 80m<sup>3</sup>/day.  
 IL+ Dredge Water: Typical average of 430m<sup>3</sup>/day.  
 Runoff from IL+ Temporary Storage (Maximum 2 years): Maximum est. 865m<sup>3</sup>/day and Typical average of 80m<sup>3</sup>/day.

2.2.2. The effluent quality shall meet the following criteria at the point(s) of discharge:

Parameters		Maximum Values
Total Suspended Solids		75 mg/L
pH range		5.5 - 8.5
Metals	Copper	18.00 ug/L
Polycyclic	Fluoranthene	2.77 Ug/L
Aromatic	Pyrene	2.10 ug/L
Hydrocarbons	Benz(a)anthracene	0.92 ug/L
(PAHs)	Chrysene	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L

- 2.2.3. The authorized works are all structures and appurtenances required for IL+ Management such as material segregation, mechanical dewatering/stabilization, temporary storage and loading of IL+ material for transport to an off-site disposal facility.
- 2.2.4. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Plan 12731 (PID 016334558) and the point of discharge is described as Coastal Range 5 Land District, RTA leased Crown water lot DL 981 (PID 009834290).
- 2.2.5. The management of IL+ material shall be limited to a period of 2 dredge seasons. This may be extended with the written consent of the Manager.



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Supervisor, Environmental Management and Reclamation

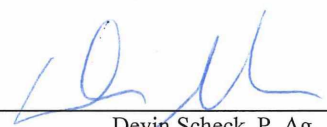
- 2.2.6. Temporary storage of IL+ material at the site is authorized for a maximum of 24 months unless an extension is obtained from and confirmed in writing by the Manager.
  - 2.2.7. Record the daily discharge volumes.
  - 2.2.8. Retain for a period of 5 years, all records specified in 2.2.7 and make those records available to the OGC for inspection upon request.
- 2.3. This subsection applies to the discharge of effluent from a **MARINE/LAND TRANSITION AREA**. The site reference number for this discharge is E307664.

- 2.3.1. The maximum authorized discharge rates are:  
Runoff: Maximum est. 780m<sup>3</sup>/day and Typical average of 75m<sup>3</sup>/day.  
Dredge Water: Maximum est. 550m<sup>3</sup>/day and Typical average of 345m<sup>3</sup>/day.
- 2.3.2. The effluent quality shall meet the following criteria at the point(s) of discharge:

Parameters		Maximum Values	
		IL+ Dredge Water /Runoff	IL- Dredge Water /Runoff
Total Suspended Solids		75 mg/L	75 mg/L
pH range		5.5 - 8.5	5.5 - 8.5
Metals	Copper	18.00 ug/L	18.00 ug/L
Polycyclic Aromatic Hydrocarbons (PAHs)	Fluoranthene	2.77 Ug/L	2.77 Ug/L
	Pyrene	2.10 ug/L	2.10 ug/L
	Benz(a)anthracene	0.92 ug/L	0.92 ug/L
	Chrysene	2.00 ug/L	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L	0.66 ug/L

- 2.3.3. The authorized works are all structures and appurtenances required for initial dewatering of dredged sediment and the transfer of dredged sediment from barges to onshore facilities.
- 2.3.4. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Crown water lot DL 981 (PID 009834290) and the receiving environment is described as Coastal Range 5 Land District, RTA

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leased Crown water lot DL 981 (PID 009834290) and DL 7940 (Feature Code AR20050000).

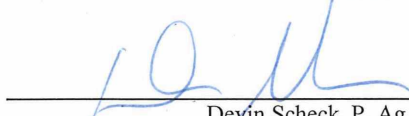
- 2.3.5. The management of IL+ material and associated effluent discharges shall be limited to a period of 2 dredge seasons. This may be extended with the written consent of the Manager.
  - 2.3.6. Discharge of dredge water associated with IL- material from the Marine Land Transition Area is authorized only if the permit holder opts to use mechanical rather than hydraulic means to place sediment in the DDS.
  - 2.3.7. Record the daily discharge volume.
  - 2.3.8. Retain for a period of 5 years, all records specified in 2.3.7 and make those records available to the OGC for inspection upon request.
- 2.4. This subsection applies to the discharge of effluent from a **DREDGEATE DISPOSAL SITE (DDS)**. The site reference number for this discharge is E307648.

- 2.4.1. The maximum authorized discharge rates are:  
 Phase B (filling) Dredge Water/Runoff: Maximum est.16530m<sup>3</sup>/day and Typical average of 4500m<sup>3</sup>/day.  
 Leachate Foundation Seepage: No specified limit (est. 540m<sup>3</sup>/day)  
 Phase C (dewatering) Runoff: Maximum est.5500m<sup>3</sup>/day and Typical average of 130m<sup>3</sup>/day.  
 Leachate: No specified limit (est. 85m<sup>3</sup>/day)  
 Phase D (closure) Runoff: Maximum est.5510m<sup>3</sup>/day and Typical average of 115m<sup>3</sup>/day.  
 Leachate: No specified limit (est. 140m<sup>3</sup>/day)

- 2.4.2. The effluent quality for dredge water and runoff shall meet the following criteria at the point(s) of discharge:

Parameters	Maximum Values	
	During Dredging Operations/ active material placement:	Pre/Post Dredging Operations:
Total Suspended Solids	75 mg/L	50 mg/L
pH range	5.5 - 8.5	5.5 - 8.5

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Metals	Copper	18.0 ug/L	18.0 ug/L
Polycyclic Aromatic Hydrocarbons (PAHs)	Fluoranthene	2.77 Ug/L	2.77 Ug/L
	Pyrene	2.10 ug/L	2.10 ug/L
	Chrysene	2.00 ug/L	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L	0.66 ug/L

2.4.3. The effluent quality for groundwater shall meet the following criteria at the point(s) of compliance:


Parameters		Maximum Values
pH range		5.5 - 8.5
Metals	Copper	18.00 ug/L
Polycyclic Aromatic Hydrocarbons (PAHs)	Fluoranthene	2.77 ug/L
	Pyrene	2.10 ug/L
	Chrysene	2.00 ug/L
	Benzo(a)pyrene	0.66 ug/L

2.4.4. The authorized works are all structures and appurtenances associated with the DDS including cell(s), containment berms, access roads, perimeter ditching and other drainage works, piping and pumps and a settling pond.

2.4.5. The location of the facilities from which the discharge originates is Coastal Range 5 Land District, Plan 12731 (PID 016334558) and an easement of District Lot 5469 (PID 004332041). The location of the point source discharge is described as Coastal Range 5 Land District, Plan 12731 (PID 016334558) and RTA leased Crown water lot DL 7940 (Feature Code AR20050000). The location of groundwater discharge areas are described as Coastal Range 5 Land District, RTA leased Crown water lot DL 7940 (Feature Code AR20050000) and District Lot 5469.

2.4.6. Record the daily discharge volume.

2.4.7. Retain for a period of 5 years, all records specified in 2.4.6 and make those records available to the OGC for inspection upon request.

  
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### 3.0 GENERAL REQUIREMENTS

#### 3.1 Maintenance of Works and Emergency Procedures

The Permittee shall inspect the authorized works regularly and maintain them in good working order. In the event of an emergency or condition beyond the control of the Permittee, which prevents continuing operation of the authorized works, the Permittee shall immediately take appropriate remedial action and notify the Manager by phone or email within 72 hours. Any spill that is reportable under the Spill Reporting Regulation shall be immediately reported to EMBC by telephoning 1-800-663-3456.

#### 3.2 Bypasses

The discharge of contaminants, which have bypassed the authorized works, is prohibited unless the consent of the Manager is obtained and confirmed in writing.

#### 3.3 Process Modifications

The Permittee shall notify the Manager prior to implementing changes to any process that may affect the quality and/or quantity of the discharge.

#### 3.4 Permittee Name Change or Transfer of the Facility

Any change to the name of the Permittee, such as the sale of the facility or a corporate name change shall be reported to the Manager in writing within 30 days of the transaction.

### 4 MONITORING AND REPORTING REQUIREMENTS

The Manager may alter the monitoring and reporting program as needed. The need for changes to the program will be based upon the results submitted as well as any other information obtained by the OGC in connection with the discharges. Should Kitimat Harbour Water Quality Objectives or the Kitimat Arm Water Quality Objectives not be met at the edge of the Initial Dilution Zone (IDZ), lowering of effluent discharge quality criteria or authorized effluent volumes may be required.

#### 4.1 General Monitoring Requirements

4.1.1 The Permittee shall maintain information, analytical data and flow measurements as described in Section 2 for inspection by OGC.

## 4.2 Discharge Monitoring Plan

The Permittee shall develop a comprehensive Discharge Monitoring Plan (DMP) prior to the start of dredging operations. The DMP shall be approved by the Manager prior to any permitted effluent discharges. The DMP shall specify monitoring locations, sampling frequency, field and analytical parameters, quality assurance/quality control measures, data management and reporting requirements to verify the quality and magnitude of effluent discharges associated with the works. The DMP may be a stand-alone document or may form part of the Marine Water Management and Monitoring Plan required under Condition 6 of Environmental Assessment Certificate #E15-01.

## 4.3 Groundwater Monitoring Plan

The Permittee shall develop a Groundwater Monitoring Plan for the purpose of monitoring groundwater quality proximate to the DDS. The Groundwater Monitoring Plan shall be approved by the Manager prior to any discharge of effluent under this permit. The Groundwater Monitoring Plan may be a stand-alone document or may form part of a management plan.

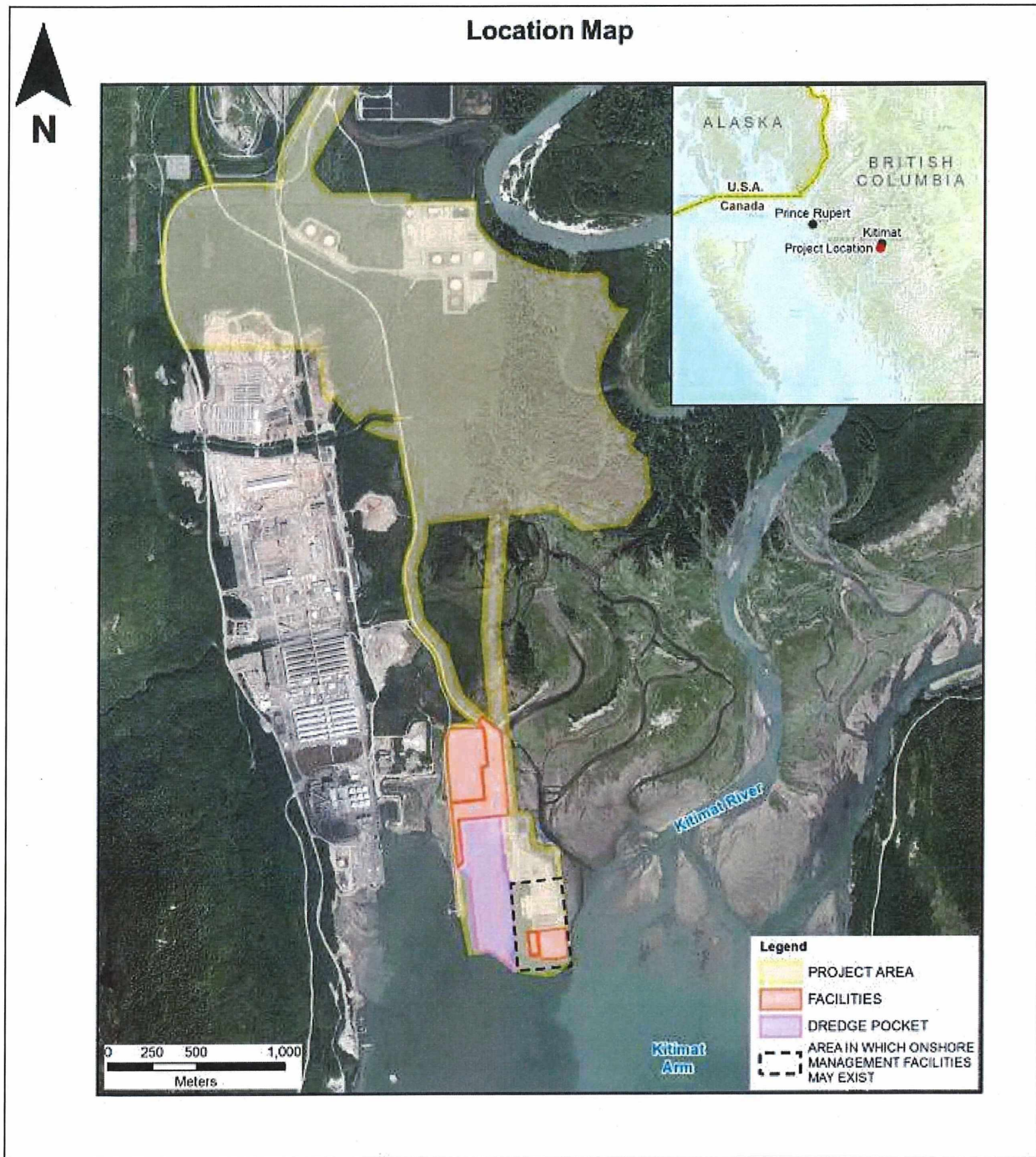
## 4.4 Reporting

4.4.1 During the period of active discharge from the Site, the Permittee shall provide the Manager and the Haisla Nation with weekly updates of the monitoring results from the Discharge Monitoring Plan.


4.4.2 During each year of dredging operations, the Permittee shall submit to the Manager, an annual report of all discharge monitoring required under Section 4.2. The report shall cover a calendar year beginning September 1<sup>st</sup> ending August 31<sup>st</sup> of the following year and be submitted by October 15<sup>th</sup>. The report must include:

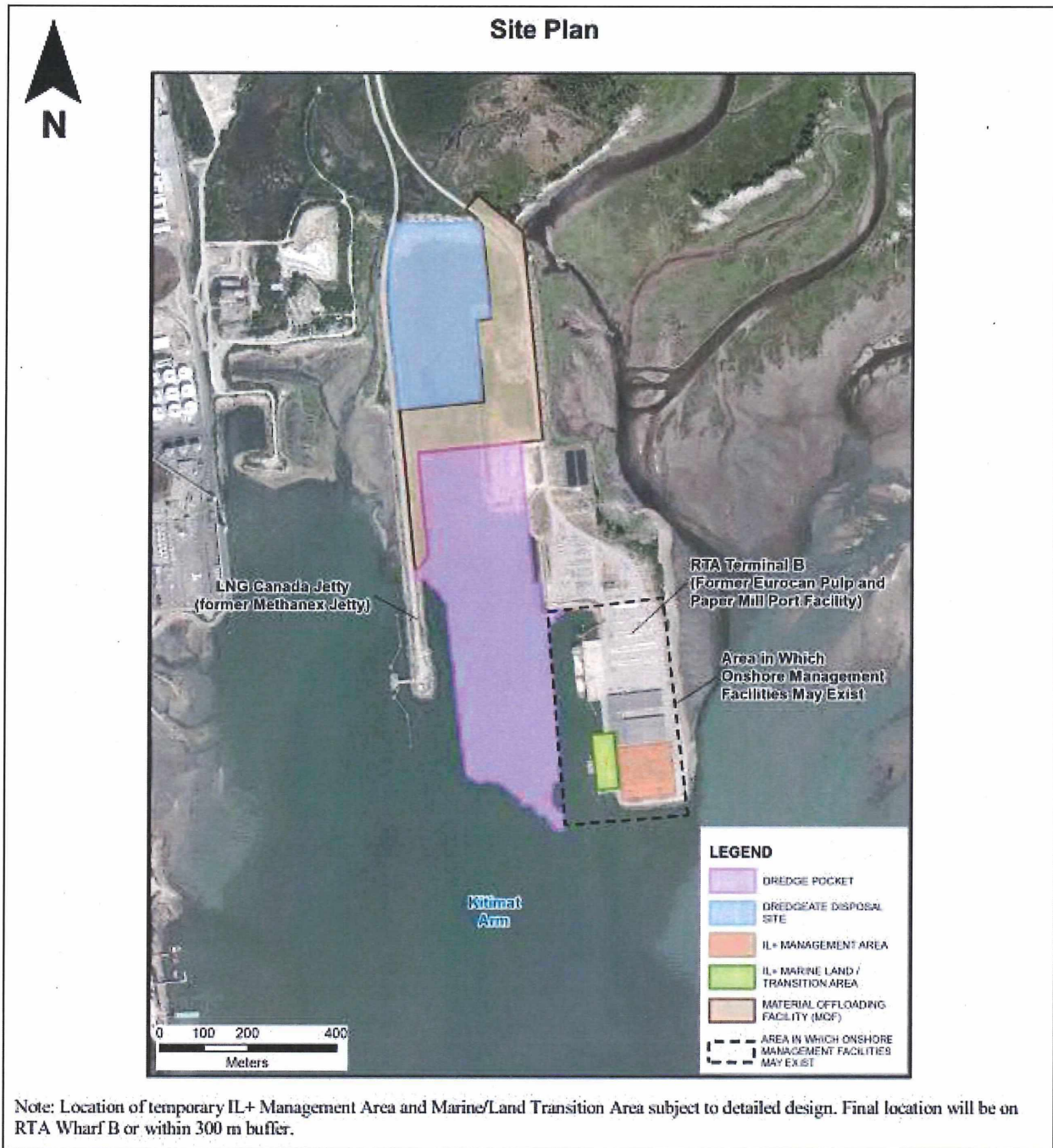
- Effluent discharge volumes
- Tabulated data from monitoring activities
- IL+ and IL- Dredge volumes

4.4.3 By March 1<sup>st</sup> each year, the Permittee must submit to the Manager, an annual report of groundwater monitoring activities required under section 4.3. The report shall cover a calendar year beginning January 1<sup>st</sup> and ending December 31<sup>st</sup> when ground water monitoring is completed.




Date Issued: February 3, 2017

  
Devin Scheck, P. Ag.  
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Reclamation



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