



Surveillance Network Program

Part A - Reporting Requirements

1. The Licensee shall within 30 days following the month being reported, submit to the Board all data and information in an electronic and printed format acceptable to the Board required by the "Surveillance Network Program" including the results of the approved QA/QC plan.
2. During the weekly inspections required by Part H, Item 2(d) of DDMI's Water Licence, if DDMI detects seepage, the following information should be reported in the subsequent monthly SNP report: date seepage identified, location, rate of flow each day, number of days until seepage was contained, and the results of the analysis of the seepage for the parameters outlined in Part D, Item 8 of the Surveillance Network Program.

Part B - Flow and Volume Measurement Requirements

Unless otherwise noted, all flow and volume measurements shall be recorded monthly and recorded in cubic metres.

1. The daily volume of water obtained from Lac de Gras for all purposes.
2. The daily volume of water dewatered from the A21 Pits.
3. The volume of water obtained from all sources for use in the process plant.
4. The volume of effluent recycled from the Processed Kimberlite Containment Facility.
5. The volumes of the solids in tonnes and liquid fractions cubic metres of each waste pumped to the Processed Kimberlite Containment Facility.
6. The Volume of effluent discharged from the Processed Kimberlite Containment Facility.
7. The volume of effluent discharged from the North Inlet Facility to the Treatment Facilities.
8. The daily volume of effluent discharged into Lac de Gras at SNP Station Number 1645-18.
9. The volume of dredged sediments deposited into the Dredged Sediment Containment Facility or the North Inlet Facility.
10. The daily volume of minewater and seepage pumped from A154, A418 and A21 open pits to the North Inlet Facility and/or Lac de Gras.
11. The daily volume of treated Sewage effluent discharged from the Sewage Disposal Facilities.
12. The volume of Sewage solids removed from the Sewage Disposal Facilities.

13. The volume of water pumped from the run-off ponds to the Processed Kimberlite Containment Facility.
14. The volume of ice or frozen sediments removed from the Pit(s) areas.
15. The daily volume of water dewatered from the inland lakes.

Part C - Sampling and Analysis Requirements

1. The field pH, sample temperature, and ambient wind and weather conditions shall be recorded at all locations at the time of sampling.
2. The Licensee shall increase sampling if exceedances of the Effluent Quality Requirements occur or as directed by an Inspector.
3. All sampling, sample preservation and analyses shall be conducted in accordance with methods prescribed in the current edition of "Standards Methods for the Examination of Water and Wastewater", or by such other methods approved by an Analyst.
4. All analyses shall be performed in a laboratory accredited by the Canadian Association for Laboratory Accreditation (CALA) for the specific analyses to be performed or as approved by an Analyst.
5. The Licensee shall implement the Quality Assurance/Quality Control QA/QC Plan that includes field and laboratory procedures and requirements as approved by an Analyst under Licence N7L2-1645.
6. The Licensee shall annually review the approved the quality assurance/quality control (QA/QC) plan and modify the Plan as necessary. Proposed revisions shall be submitted to an Analyst for approval.
7. The QA/QC plan referred to in Part B, Items 26 and 27 and shall be implemented as approved by an Analyst.

NOTES:

¹ICP-MS Metal Scan shall include at a minimum, the following regulated parameters:
Aluminum, Cadmium, Chromium, Copper, Lead, Nickel, Zinc

Once Annually the ICP shall also include the following monitored parameters:
Manganese, Molybdenum, Selenium, Strontium, Uranium

Total metals shall be analyzed unfiltered and dissolved using a 0.45 micron filter

²Major ions include the following parameters:

Calcium, Chloride, Sulphate, Magnesium, Fluoride, Potassium, Alkalinity, Hardness, Total Dissolved Solids

³Field parameters include the following measurements:
pH, Conductivity, Temperature

⁴pH analyzed in the laboratory

⁵Nutrients include the following parameters:
Total Ammonia, Nitrite-Nitrogen, Nitrate-Nitrogen, Total Kjeldal Nitrogen, Total Phosphorus, Total Dissolved Phosphorus, Ortho Phosphorus.

⁶Organics include the following parameters:
BTEX (Benzene, toluene, ethylene, and xylene), total oil and grease, total extractable hydrocarbons, total volatile hydrocarbons F1 – F4 (without BTEX).

Commented [S1]: Added to address Intervener concerns.

Part D - Other Monitoring Requirements

1. The Licensee shall measure and record the following data:
 - a) Precipitation, measured and recorded in hourly and daily totals;
 - b) Evaporation, which is calculated from the parameters list below with hourly and daily averages:
 - i. Wind speed at approximately 2.0 meters above the water surface including daily minima and maxima;
 - ii. Wind direction on an hourly basis;
 - iii. Air temperature at approximately 0.75 and 2.0 metres above the water surface including daily minima and maxima;
 - iv. Relative humidity at approximately 0.75 and 2.0 metres above the water surface;
 - v. Water temperature at two levels approximately 1 and 2 metre depths;
 - vi. Net solar radiation over the water surface; and
 - vii. Water level; and
 - c) The weather data for evaporation calculations shall be measured and recorded at a site located at or near the PKC Facility as approved by an Inspector.
2. The Licensee shall implement the location, methods, and frequency for measuring and recording the meteorological data identified in Part D, Item 1 as approved under Licence N7L2-1645.
3. The methods and frequency referred to in Part D, Item 1, shall be implemented as and when approved by the Board.
4. The quantity of ore processed shall be measured in tonnes and recorded monthly.
5. The quantity of waste rock, course tailings, and till shall be measured in tonnes and recorded monthly and their disposal locations recorded monthly.

6. The Licensee shall install and monitor a minimum of one (1) SNP station for monitoring the Lac de Gras background references for the regulation of the dredging and Dike construction activities. This station shall not be located near developmental activities or the inlets of any rivers or streams and shall be sampled in accordance with SNP Part B, Item 3.
7. In the event that a second dredge is required during the construction of the Water Retention Dikes, the Licensee shall establish additional SNP Stations for the second dredge in the same manner as those identified (SNP Stations 1645-66, 1645-67, and 1645-68) for the monitoring of a single dredge. These stations shall be numbered in sequence and monitored in accordance with SNP Station 1645-48.
8. During the weekly inspections required by Part H, Item 2(d) of DDMI's Water Licence, DDMI shall assess whether there is any seepage. If seepage is present, DDMI must notify the Inspector immediately and provide any information requested by the Inspector. The seepage must be sampled daily until contained and the daily samples analyzed for the following parameters: Total Metals, pH, Total Ammonia, NO₃, Cl, and SO₄.

Part E – Site Descriptions and Sampling Requirements

Location of sampling sites and specific monitoring requirements are as follows:

NOTE: The description of the SNP Stations is approximate and subject to the approval of an Inspector.

SNP Site Quick Reference Table

| SNP Site # | Description | Status |
|------------|--|----------|
| 1645-1 | Mine water discharge | INACTIVE |
| 1645-2 | Outflow decant from F1 | INACTIVE |
| 1645-3 | Lac de Gras inflow from F1 Wetlands | INACTIVE |
| 1645-4 | Discharge from Sewage Disposal Facility | INACTIVE |
| 1645-5 | Outflow from disposal pond | INACTIVE |
| 1645-6 | Prior to entering Lac de Gras at the stream outflow from the sewage disposal | INACTIVE |
| 1645-7 | Upstream of the confluence between the ice scrapings disposal area runoff and the stream from the sewage outflow | INACTIVE |
| 1645-8 | Down slope of the semi-permeable Dike in D1 drainage way | INACTIVE |
| 1645-9 | Treated mine water pumped directly to Lac de Gras | INACTIVE |
| 1645-10 | Station applying to treated Effluent Discharge to monitor sewage discharge from North Construction Camp | INACTIVE |
| 1645-11 | Sewage discharge | ACTIVE |
| 1645-12 | West Cell – North Inlet Facility | INACTIVE |
| 1645-13 | North Inlet – Influent prior to treatment | ACTIVE |
| 1645-14 | North Inlet Treatment Plant treated effluent prior to mixing with PKC treated effluent | INACTIVE |

| | | |
|-------------|--|----------|
| 1645-15 | Process Plan slurry discharge to PKC facility | INACTIVE |
| 1645-16 | PKC pond water within the PKC | ACTIVE |
| 1645-17 | PKC Treatment Plant Effluent prior to mixing with North Inlet Treatment Plant treated effluent | INACTIVE |
| 1645-18/18B | Main effluent discharge to Lac de Gras from NIWTP (point of compliance) | ACTIVE |
| 1645-19 | Effluent mixing zone in Lac de Gras | ACTIVE |
| 1645-20 | Northwest of clarification pond | INACTIVE |
| 1645-21 | West of Clarification pond (drainage course) between Pond 2 and Pond 3. | INACTIVE |
| 1645-22 | North of Quarry and till areas (drainage course) on the South side of North Inlet Facility | INACTIVE |
| 1645-23 | North perimeter road (drainage course) between road and North Inlet Facility. | INACTIVE |
| 1645-24 | East of perimeter road (drainage course) | INACTIVE |
| 1645-25 | East PKC Dike area (drainage course) | INACTIVE |
| 1645-26 | West PKC Dike area (drainage course) | INACTIVE |
| 1645-27 | Airstrip Drainage Course | INACTIVE |
| 1645-28 | Groundwater GW1 between the North Rock Pile and North Inlet | INACTIVE |
| 1645-29 | Groundwater GW2 | INACTIVE |
| 1645-30 | Groundwater GW3 Northwest of Till Disposal Area | INACTIVE |
| 1645-31 | Groundwater GW4 West of the PKC | INACTIVE |
| 1645-32 | Groundwater – South of PKC, between the Ammonium Nitrate Storage and Pond 7 | INACTIVE |
| 1645-33 | Groundwater nearest to Bulk Fuel Storage | ACTIVE |
| 1645-34 | Near intake structure for De-watering of Lake E1 | INACTIVE |
| 1645-35 | Near intake structure of De-watering of Lake E6 | INACTIVE |
| 1645-36 | Near intake structure for De-watering of Lake E7 | INACTIVE |
| 1645-37 | Near intake structure for De-watering of Lake E8 | INACTIVE |
| 1645-38 | Near intake structure for De-watering of Lake E10 | INACTIVE |
| 1645-39 | Near intake structure for De-watering within the Dike enclosure of A154 | INACTIVE |
| 1645-40 | Near intake structure for dike pool watering – A418 | INACTIVE |
| 1645-41 | A21 SNP Station: Near intake structure for dike pool watering | ACTIVE |
| 1645-42 | Collection Pond | ACTIVE |
| 1645-43 | A21 SNP Station: Collection Pond | INACTIVE |
| 1645-44 | Collection Pond | ACTIVE |
| 1645-45 | Collection Pond | ACTIVE |
| 1645-46 | Collection Pond | ACTIVE |
| 1645-47 | Collection Pond | ACTIVE |
| 1645-48 | Clarification pond (Pond 3) | INACTIVE |
| 1645-49 | Mine water removed from A154 Pit | INACTIVE |
| 1645-50 | Mine water removed from A418 Pit | INACTIVE |
| 1645-51 | Sump A21 SNP Station | ACTIVE |
| 1645-52 | Seepage collected from inside toe of the A154 Dike | INACTIVE |
| 1645-53 | Seepage collected from inside toe of the A418 Dike | INACTIVE |
| 1645-54 | A21 SNP Station. Seepage collection from inside toe of A21 Dike. | ACTIVE |

| | | |
|----------|---|------------------------------|
| 1645-55 | A21 SNP reference station in Lac de Gras | NOT YET ACTIVE |
| 1645-56 | Station applying to dredging and dike construction | INACTIVE |
| 1645-57 | Station applying to dredging and dike construction | INACTIVE |
| 1645-58 | Station applying to dredging and dike construction | INACTIVE |
| 1645-59 | Station applying to dredging and dike construction | INACTIVE |
| 1645-60 | Station applying to dredging and dike construction | INACTIVE |
| 1645-61 | Station applying to dredging and dike construction | INACTIVE |
| 1645-62 | Station applying to dredging and dike construction | INACTIVE |
| 1645-63 | Station applying to dredging and dike construction | INACTIVE |
| 1645-64 | Station applying to dredging and dike construction | INACTIVE |
| 1645-65 | Station applying to dredging and dike construction | INACTIVE |
| 1645-66 | Near intake structure for De-watering of North Inlet. | INACTIVE |
| 1645-67 | Collection Pond | ACTIVE |
| 1645-68 | Collection Pond | ACTIVE |
| 1645-69 | Collection Pond | ACTIVE |
| 1645-70 | Station applying to dredging and dike construction | INACTIVE |
| 1645-71 | Station applying to dredging and dike construction | INACTIVE |
| 1645-72 | Station applying to dredging and dike construction | INACTIVE |
| 1645-73 | Station applying to dredging and dike construction | INACTIVE |
| 1645-74 | Collection Pond as described in DDMI's request for additional SNP sites (December 7, 2006). | ACTIVE |
| 1645-75 | A154/A418 underground water (9290 Pump Station and dewatering sumps) | ACTIVE |
| 1645-75b | A154/A418 underground water (9105 Pump Station) | ACTIVE |
| 1645-76 | Collection Pond | ACTIVE |
| 1645-77 | PKC Seepage | ACTIVE |
| 1645-78 | PKC Seepage | ACTIVE |
| 1645-79 | PKC Seepage | ACTIVE |
| 1645-80 | PKC Seepage | ACTIVE |
| 1645-81 | Surface Runoff during Freshet | ACTIVE |
| 1645-82 | A21 SNP reference station in Lac de Gras referred to as A21-A in the CEMP | ACTIVE |
| 1645-83 | A21 SNP reference station in Lac de Gras referred to as A21-B in the CEMP | ACTIVE |
| 1645-84 | A21 SNP reference station in Lac de Gras referred to as A21-C in the CEMP | ACTIVE |
| 1645-85a | Sludge Sampling from the North Inlet Water Treatment Plant | ACTIVE |
| 1645-85b | Sludge Sampling from the North Inlet Water Treatment Plant | ACTIVE |
| 1645-86a | Sludge Sampling from the North Inlet Water Treatment Plant | ACTIVE |
| 1645-86b | Sludge Sampling from the North Inlet Water Treatment Plant | ACTIVE |

STATIONS APPLYING TO TREATED EFFLUENT DISCHARGE

Surveillance Network Program (SNP) Station 1645-11 (Active)

| | |
|------------------------|---|
| Description: | Sewage discharge |
| Location: | South Sewage Treatment Plant |
| Sampling Frequency: | Annually |
| Sampling Parameters: | BOD ₅ , pH ⁴ , Faecal Coliforms, Nutrients ⁵ , Oil and Grease, Temperature, Total Suspended Solids |
| Rationale for Station: | To verify that sewage treatment planting is operating effectively |

Surveillance Network Program (SNP) Station 1645-13 (Active)

| | |
|------------------------|--|
| Description: | North Inlet – Influent prior to treatment |
| Location: | North Inlet Water Treatment Plant |
| Sampling Frequency: | Every six (6) days |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity, Organics⁶ |
| Rationale for Station: | To monitor influent water quality prior to North Inlet Water Treatment Plant. Helps to determine treatment plant efficiency, and, in the event of poor effluent quality, can help determine the source of the problem. Also provides information regarding water quality in the north inlet, which can inform closure planning. |

Commented [S2]: Added to address reviewer concerns.

Surveillance Network Program (SNP) Station 1645-16 (Active)

| | |
|------------------------|--|
| Description: | PKC pond water within the PKC |
| Location: | PKC Reclaim Barge |
| Sampling Frequency: | Sampled Monthly |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity, Organics⁶ |
| Rationale for Station: | Monitor water quality within PKC pond |

Commented [S3]: Added to address reviewer concerns.

Surveillance Network Program (SNP) Station 1645-18/18B (Active)

| | |
|--------------|---|
| Description: | Main effluent discharge to Lac de Gras from NIWTP (point of compliance) |
|--------------|---|

| | | | |
|------------------------|--|--|--|
| Location: | North Inlet Water Treatment Plant Splitter box location | | |
| Sampling Frequency: | Every six (6) days | | Quarterly or monthly |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity, Organics⁶ | Additionally, If effluent from Sewage Treatment Facilities are directed to Lac de Gras... Faecal Coliforms, BOD ₅ , Oil and Grease | 1. In accordance with Part H, Item 7(a) and (b) ^a 2. Chronic toxicity ^b |
| Rationale for Station: | This information is required to confirm compliance with EQC, and can also provide information about effectiveness of treatment plant. | | |

Commented [S4]: Added to address reviewer concerns.

^a Samples of effluent shall be provided to an accredited bioassay laboratory for the purpose of performing the following acute toxicity tests at the specified frequencies:

- i. Tests required under Part H, Item 7 (a) and (b) of the Water Licence shall be performed quarterly unless and until a result of >50% mortality in 100% effluent is obtained for a test organism; at that time the frequency of the acute toxicity test will increase to monthly. If the monthly acute toxicity tests show less than or equal to 50% mortality in 100% effluent for 12 consecutive tests, the frequency of testing can again be reduced to quarterly. Note that acute toxicity for these tests is defined using the LC50 value; the Board may alter this definition for acute toxicity if deemed necessary (e.g., based on results of round whitefish testing). If a result of >50% mortality in 100% effluent is obtained, the licensee must report both the LC50 and the LC20 values in the SNP reports required under SNP Part E, Item 1.
- ii. The Licensee shall submit a revised round whitefish toxicity testing protocol, based on a directive to be provided by the Board. The purpose of the testing is to evaluate the relative sensitivity of round whitefish to ammonia compared to rainbow trout. The Board will provide further instructions regarding toxicity testing with round whitefish following submission of these results to the WLWB; and,
- iii. Toxicity test with the amphipod, *Hyalella azteca* according to the testing protocol approved by the Board under Part H, Item 8 of the Licence shall be performed monthly until further notice.

^b Bioassay samples shall be provided to an accredited bioassay laboratory for the following analyses:

- i. Chronic toxicity to the early life stages of salmonid fish (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/28); and
- ii. Chronic toxicity to the crustacean, *Ceriodaphnia dubia* (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/21); and

- iii. Chronic toxicity to the alga, *Raphidocelis subcapitata* (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/25).

Surveillance Network Program (SNP) Station 1645-19 (Active)

| | | |
|------------------------|--|---|
| Description: | Effluent mixing zone in Lac de Gras | |
| Location: | 60 meters from the effluent discharge | |
| Sampling Frequency: | Water Sampled Monthly at three (3) stations located at a sixty (60) metre radius from the diffuser. Samples shall be collected at surface and at five (5) metre intervals to depth at each station and analyzed ^c | Sediments sampled annually at each of the three (3) sites |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity, Organics⁶ | Total Metals (strong acid Digestion), Total Organic Carbon, Simultaneous Extracted Metals ^d , Acid Volatile Sulphide, Total Ammonia, PAH's, Hydrogen Sulfide |
| Rationale for Station: | To assess whether water quality objectives are being met at the edge of the initial dilution zone. | |

Commented [S5]: Added to address reviewer concerns.

^c Additionally, monthly water samples must be provided to an accredited bioassay laboratory for the purpose of performing a chronic toxicity test with the amphipod, *Hyalella azteca*, according to the testing protocol approved by the Board under H, Item 9.

^d Methods for analysis for Simultaneous Extracted Metals and Acid Volatile Sulphide shall be approved by the Analyst.

STATIONS APPLYING TO SURFACE RUNOFF AND GROUNDWATER

Surveillance Network Program (SNP) Station 1645-33 (Active)

| | |
|------------------------|---|
| Description: | Groundwater nearest to Bulk Fuel Storage |
| Location: | South of Main Tank Farm |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly. |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | To monitor water down gradient of Bulk Fuel Storage |

Surveillance Network Program (SNP) Station 1645-81 (Active)

| | |
|------------------------|---|
| Description: | Surface Runoff during Freshet |
| Location: | Emulsion Plant and Ammonia Nitrate Storage Building |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly. Last data collected pre 2008. |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | To monitor surface runoff water quality and identify the presence of any contaminants from the Emulsion Plant and the Ammonia Nitrate Storage building in the receiving environment |

STATIONS APPLYING TO DEWATERING

Surveillance Network Program (SNP) Station 1645-42 (Active)

| | | | |
|------------------------|---|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 4 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | To monitor water quality of Pond 4 | | |

Surveillance Network Program (SNP) Station 1645-44 (Active)

| | | | |
|------------------------|--|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 7 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | Pond 7, commissioned in fall 2009, collects surface runoff from a portion of the road to the ammonium nitrate storage and provides secondary containment for part of the PKC South Cell. Monthly monitoring can be used to identify the source of any effluent quality problems. | | |

Surveillance Network Program (SNP) Station 1645-45 (Active)

| | | | |
|------------------------|--|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 10 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | This pond receives runoff from the plant site area. Monthly monitoring provides information about the chemistry of the runoff and can be used to identify the source of any effluent quality problems. | | |

Surveillance Network Program (SNP) Station 1645-46 (Active)

| | | | |
|---------------------|-----------------------------|-------------------|--------------|
| Description: | Collection Pond | | |
| Location: | Pond 11 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the | Daily during |

| | | | |
|------------------------|--|--|----------------------------------|
| | | commencement of discharge to Lac de Gras | discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | This pond receives runoff from the plant site area. Monthly monitoring provides information about the chemistry of the runoff and can be used to identify the source of any effluent quality problems. | | |

Surveillance Network Program (SNP) Station 1645-47 (Active)

| | | | |
|------------------------|--|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 12 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | This pond receives runoff from the plant site area. Monthly monitoring provides information about the chemistry of the runoff and can be used to identify the source of any effluent quality problems. | | |

Surveillance Network Program (SNP) Station 1645-67 (Active)

| | | | |
|----------------------|---|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 1 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |

| | | | |
|------------------------|--|--|--|
| | Phosphorus, Total Suspended Solids, Turbidity | | |
| Rationale for Station: | To monitor water quality of Pond 1. Since this pond collects water from the waste rock pile drainage area, the information can be used to identify any issues with waste rock pile drainage. | | |

Surveillance Network Program (SNP) Station 1645-68 (Active)

| | | | |
|------------------------|---|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 2 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | To monitor water quality of Pond 2. Since this pond collects water from the waste rock pile drainage area, the information can be used to identify any issues with waste rock pile drainage. | | |

Surveillance Network Program (SNP) Station 1645-69 (Active)

| | | | |
|------------------------|---|--|---------------------------------------|
| Description: | Collection Pond | | |
| Location: | Pond 5 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | To monitor water quality of Pond 5 | | |

Surveillance Network Program (SNP) Station 1645-76 (Active)

| | | | |
|------------------------|--|---|--|
| Description: | Collection Pond | | |
| Location: | Pond 3 | | |
| Sampling Frequency: | Once prior to the commencement of the discharge at a minimum of three (3) stations evenly spaced along a longitudinal transect at the centerline of the clarification pond collected at surface, and at two (2) metre intervals to depth | Daily during periods of discharge | Every two (2) weeks during periods of discharge and once on the final day of discharge |
| Sampling Parameters: | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Ammonia, Nitrite, Oil and Grease, Total Phosphorus, Nitrate, Total Suspended Solids, Turbidity | Total Suspended Solids, Total Phosphorus, Turbidity | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Ammonia, Nitrite, Oil and Grease, Total Phosphorus, Nitrate, Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor water quality of Pond 3, replacing SNP station 1645-48. Since this pond collects water from the waste rock pile drainage area, the information can be used to identify any issues with waste rock pile drainage. | | |

STATIONS APPLYING TO DREDGING AND DIKE CONSTRUCTION

Surveillance Network Program (SNP) Station 1645-74 (Active)

| | | | |
|------------------------|---|--|---------------------------------------|
| Description: | Collection Pond as described in DDMI's request for additional SNP sites (December 7, 2006). | | |
| Location: | Pond 13 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ , Major Ions ² , Nitrate, Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |
| Rationale for Station: | To continuously monitor water quality in Pond 13 | | |

Surveillance Network Program (SNP) Station 1645-75 (Active)

| | |
|------------------------|---|
| Description: | A154/A418 underground water (9290 Pump Station and dewatering sumps) |
| Location: | North Inlet Water Treatment Plant |
| Sampling Frequency: | Every two (2) weeks |
| Sampling Parameters: | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , pH ⁴ , Total Suspended Solids, Turbidity, Oil and Grease, & Petroleum Hydrocarbons (PHCs) F1-F4 |
| Rationale for Station: | This information helps understand how mine water affects the quality of Water entering the treatment plant, provides information on the changes in mine water quality over time and may inform closure planning. |

Surveillance Network Program (SNP) Station 1645-75b (Active)

| | |
|------------------------|--|
| Description: | A154/A418 underground water (9105 Pump Station) |
| Location: | Fresh Air Raise / Return Air Riser |
| Sampling Frequency: | Every two (2) weeks |
| Sampling Parameters: | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , pH ⁴ , Total Suspended Solids, Turbidity, Oil and Grease |
| Rationale for Station: | This information helps understand how mine water affects the quality of Water entering the treatment plant, provides information on the changes in mine water quality over time and may inform closure planning. |

STATIONS APPLYING TO THE PROCESSED KIMBERLITE CONTAINMENT FACILITY

Surveillance Network Program (SNP) Station 1645-77 (Active)

| | |
|------------------------|--|
| Description: | PKC Seepage |
| Location: | East PKC Dam |
| Sampling Frequency: | Checked weekly, sampled monthly |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor PKC Seepage chemistry |

Surveillance Network Program (SNP) Station 1645-78 (Active)

| | |
|------------------------|--|
| Description: | PKC Seepage |
| Location: | East PKC Dam |
| Sampling Frequency: | Checked weekly, sampled monthly |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor PKC Seepage chemistry |

Surveillance Network Program (SNP) Station 1645-79 (Active)

| | |
|------------------------|--|
| Description: | PKC Seepage |
| Location: | South PKC Dam |
| Sampling Frequency: | Checked weekly, sampled monthly. |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor PKC Seepage chemistry |

Surveillance Network Program (SNP) Station 1645-80 (Active)

| | |
|------------------------|--|
| Description: | PKC Seepage |
| Location: | West PKC Dam |
| Sampling Frequency: | Checked weekly, sampled monthly. |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor PKC Seepage chemistry |

STATIONS APPLYING TO THE SLUDGE SAMPLING PROGRAM

Surveillance Network Program (SNP) Station 1645-85a (Active)

| | |
|----------------------|--|
| Description: | Sludge Sampling from the North Inlet Water Treatment Plant |
| Location: | Clarifier 1, North Inlet Water Treatment Plant |
| Sampling Frequency: | Every two (2) weeks |
| Sampling Parameters: | Petroleum Hydrocarbon F1-F4 |

| | |
|------------------------|---|
| Rationale for Station: | To monitor hydrocarbon levels in North Inlet Water Treatment Plant Sludge to ensure sediment and water quality is suitable for aquatic life |
|------------------------|---|

Surveillance Network Program (SNP) Station 1645-85b (Active)

| | |
|------------------------|---|
| Description: | Sludge Sampling from the North Inlet Water Treatment Plant |
| Location: | Clarifier 2, North Inlet Water Treatment Plant |
| Sampling Frequency: | Every two (2) weeks |
| Sampling Parameters: | Petroleum Hydrocarbon F1-F4 |
| Rationale for Station: | To monitor hydrocarbon levels in North Inlet Water Treatment Plant Sludge to ensure sediment and water quality is suitable for aquatic life |

Surveillance Network Program (SNP) Station 1645-86a (Active)

| | |
|------------------------|---|
| Description: | Sludge Sampling from the North Inlet Water Treatment Plant |
| Location: | Clarifier 3, North Inlet Water Treatment Plant |
| Sampling Frequency: | Every two (2) weeks |
| Sampling Parameters: | Petroleum Hydrocarbon F1-F4 |
| Rationale for Station: | To monitor hydrocarbon levels in North Inlet Water Treatment Plant Sludge to ensure sediment and water quality is suitable for aquatic life |

Surveillance Network Program (SNP) Station 1645-86b (Active)

| | |
|------------------------|---|
| Description: | Sludge Sampling from the North Inlet Water Treatment Plant |
| Location: | Clarifier 4, North Inlet Water Treatment Plant |
| Sampling Frequency: | Every two (2) weeks |
| Sampling Parameters: | Petroleum Hydrocarbon F1-F4 |
| Rationale for Station: | To monitor hydrocarbon levels in North Inlet Water Treatment Plant Sludge to ensure sediment and water quality is suitable for aquatic life |

STATIONS APPLYING TO THE A21 DEVELOPMENT

Surveillance Network Program (SNP) Station 1645-41 (Active)

| | | | | |
|---------------------|---|-------------------------|--------------------|--------------------------|
| Description: | A21 SNP Station: Near intake structure for dike pool watering | | | |
| Location: | A21 | | | |
| Sampling Frequency: | Once prior to commencement of | Daily during dewatering | Every six (6) days | Once on the final day of |

| | | | | |
|------------------------|---|---|---|---|
| | discharge at a minimum of five (5) stations evenly spaced along a longitudinal transect as approved by an inspector. At each station, samples must be collected at surface and at two (2) metre intervals | | during dewatering | dewatering at each of the five (5) sites |
| Sampling Parameters: | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Suspended Solids, Turbidity, Nutrients ⁵ | pH ⁴ , Total Suspended Solids, Turbidity, Total Phosphorus | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , Oil and Grease | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Suspended Solids, Turbidity, Nutrients ⁵ |
| | Note: Additional sampling may be required at the request of an Inspector | | | |
| Rationale for Station: | To monitor water quality during A21 development | | | |

Surveillance Network Program (SNP) Station 1645-51 (Active)

| | |
|------------------------|--|
| Description: | Sump A21 SNP Station |
| Location: | A21 Open Pit |
| Sampling Frequency: | Every two (2) weeks Note: Will only apply at the time A21 Pit is developed |
| Sampling Parameters: | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , pH ⁴ , Total Suspended Solids, Turbidity, Oil and Grease |
| Rationale for Station: | To monitor water quality during A21 development |

Surveillance Network Program (SNP) Station 1645-54 (Active)

| | | |
|---------------------|--|-------------------------|
| Description: | A21 SNP Station. Seepage collection from inside toe of A21 Dike. | |
| Location: | To be determined | |
| Sampling Frequency: | Once prior to discharge Note: Will only apply when A21 pit is developed | Daily during discharge: |

| | | |
|------------------------|---|--|
| Sampling Parameters: | Total Ammonia, pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ² (Total), Major Ions ² , Nutrients ⁵ , Turbidity, Total Suspended Solids, Total Dissolved Solids, Oil and Grease | Field Parameters ³ , Total Suspended Solids, Total Phosphorus, Turbidity, Total Ammonia |
| Rationale for Station: | To monitor water quality during A21 development | |

Surveillance Network Program (SNP) Station 16545-55 (Not Yet Active)

| | | |
|------------------------|---|--|
| Description: | A21 SNP reference station in Lac de Gras | |
| Location: | Northing: 7151091, Easting: 537393 | |
| Sampling Frequency: | Sample daily using approved depth integrated sampler (provided safe boating conditions) | |
| Sampling Parameters: | Total Suspended Solids, Turbidity | |
| Rationale for Station: | Reference station for regulation of dredging and Dike construction activities during A21 development | |

Surveillance Network Program (SNP) Station 1645-82 (Active)

| | | |
|------------------------|--|--|
| Description: | A 21 SNP reference station in Lac de Gras referred to as A21-A in the CEMP | |
| Location: | Northing: 7148721, Easting: 534190 200 m from the dike center line | |
| Sampling Frequency: | Sample daily using approved depth integrated sampler (provided safe boating conditions) Once prior to discharge Note: Will only apply when A21 pit is developed Daily during discharge | |
| Sampling Parameters: | Total Suspended Solids, Turbidity Total Ammonia, pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ² (Total), Major Ions ² , Nutrients ⁵ , Turbidity, Total Suspended Solids, Total Dissolved Solids, Oil and Grease Field Parameters ³ , Total Suspended Solids, Total Phosphorus, Turbidity, Total Ammonia | |
| Rationale for Station: | Reference Station during A21 development | |

Surveillance Network Program (SNP) Station 1645-83 (Active)

| | | |
|---------------------|---|--|
| Description: | A 21 SNP reference station in Lac de Gras referred to as A21-B in the CEMP | |
| Location: | 200 m from the dike center lineNorthing: 7148982, Easting: 534523 | |
| Sampling Frequency: | Sample daily using approved depth integrated sampler (provided safe boating conditions)Once prior to discharge Note: Will only apply when A21 pit is developed | |

| | |
|------------------------|--|
| | Daily during discharge |
| Sampling Parameters: | Total Suspended Solids, Turbidity, Total Ammonia, pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ² (Total), Major Ions ² , Nutrients ⁵ , Turbidity, Total Suspended Solids, Total Dissolved Solids, Oil and Grease Field Parameters ³ , Total Suspended Solids, Total Phosphorus, Turbidity, Total Ammonia |
| Rationale for Station: | Reference Station during A21 development |

Surveillance Network Program (SNP) Station 1645-84 (Active)

| | |
|------------------------|--|
| Description: | A21 SNP reference station in Lac de Gras referred to as A21-C in the CEMP |
| Location: | <u>200 m from the dike center line</u> Northing: 7149480, Easting: 534584 |
| Sampling Frequency: | Once prior to discharge Note: Will only apply when A21 pit is developed <u>Daily during discharge. Sample daily using approved depth integrated sampler (provided safe boating conditions)</u> |
| Sampling Parameters: | Total Suspended Solids, Turbidity, Total Ammonia, pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ² (Total), Major Ions ² , Nutrients ⁵ , Turbidity, Total Suspended Solids, Total Dissolved Solids, Oil and Grease Field Parameters ³ , Total Suspended Solids, Total Phosphorus, Turbidity, Total Ammonia |
| Rationale for Station: | Reference Station during A21 development |

INACTIVE STATIONS

Surveillance Network Program (SNP) Station 1645-1 (Inactive)

| | |
|-----------------------|------------------------------------|
| Description: | Mine water discharge |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-2 (Inactive)

| | |
|-----------------------|------------------------------------|
| Description: | Outflow decant from F1 |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-3 (Inactive)

| | |
|-----------------------|-------------------------------------|
| Description: | Lac de Gras inflow from F1 Wetlands |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-4 (Inactive)

| | |
|-----------------------|---|
| Description: | Discharge from Sewage Disposal Facility |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-5 (Inactive)

| | |
|-----------------------|------------------------------------|
| Description: | Outflow from disposal pond |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-6 (Inactive)

| | |
|-----------------------|--|
| Description: | Prior to entering Lac de Gras at the stream outflow from the sewage disposal |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-7 (Inactive)

| | |
|-----------------------|--|
| Description: | Upstream of the confluence between the ice scrapings disposal area runoff and the stream from the sewage outflow |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-8 (Inactive)

| | |
|-----------------------|--|
| Description: | Down slope of the semi-permeable Dike in D1 drainage way |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-9 (Inactive)

| | |
|-----------------------|---|
| Description: | Treated mine water pumped directly to Lac de Gras |
| Rationale for Status: | Class "B" Licence no longer active |

Surveillance Network Program (SNP) Station 1645-10 (Inactive)

| | |
|-----------------------|---|
| Description: | Station applying to treated Effluent Discharge to monitor sewage discharge from North Construction Camp |
| Rationale for Status: | Class "B" Licence no longer active. |

Surveillance Network Program (SNP) Station 1645-12 (Inactive)

| | |
|--------------|----------------------------------|
| Description: | West Cell – North Inlet Facility |
|--------------|----------------------------------|

| | |
|------------------------|---|
| Location: | N/A |
| Sampling Frequency: | Monthly |
| Sampling Parameters: | Total Ammonia, Turbidity, Field Parameters ³ , Nitrate, Total Suspended Solids, Nitrate, Total Phosphorus, ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ |
| Rationale for Station: | Station applying to treated Effluent Discharge to monitor water in the West Cell of the North Inlet Facility |
| Rationale for Status: | West dike never constructed, intermediate SNP station deemed unnecessary. |

Surveillance Network Program (SNP) Station 1645-14 (Inactive)

| | |
|------------------------|--|
| Description: | North Inlet Treatment Plant treated effluent prior to mixing with PKC treated effluent |
| Location: | N/A |
| Sampling Frequency: | Every (6) days during periods of discharge to Lac de Gras |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity |
| Rationale for Station: | Station applying to treated Effluent Discharge to monitor water quality of treated effluent. |
| Rationale for Status: | Station was never established |

Surveillance Network Program (SNP) Station 1645-15 (Inactive)

| | |
|------------------------|--|
| Description: | Process Plan slurry discharge to PKC facility |
| Location: | Process Plant |
| Sampling Frequency: | Sampled monthly during periods of discharge |
| Sampling Parameters: | Volume Percent Solids |
| Rationale for Station: | Station applying to treated Effluent Discharge to monitor slurry discharge. |
| Rationale for Status: | Diavik proposes to move SNP Station 1645-15 to Section C, Flow and Volume Measurement Requirements as it would support other measurements of the Surveillance Network Program. |

Surveillance Network Program (SNP) Station 1645-17 (Inactive)

| | | |
|------------------------|--|---|
| Description: | PKC Treatment Plant Effluent prior to mixing with North Inlet Treatment Plant treated effluent | |
| Location: | N/A | |
| Sampling Frequency: | Every six (6) days | Quarterly |
| Sampling Parameters: | Total Arsenic, Dissolved Organic Carbon, Dissolved Oxygen, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total and Dissolved), Major Ions ² , pH ⁴ , Nutrients ⁵ , Total Mercury, Total Organic Carbon, Total Suspended Solids, Turbidity | BOD ₅ , Faecal Coliforms, Oil and Grease |
| Rationale for Station: | To monitor PKC Effluent water quality | |
| Rationale for Status: | The PKC Effluent is discharged into North Inlet and the two treated effluent streams do not mix | |

Surveillance Network Program (SNP) Station 1645-20 (Inactive)

| | | |
|------------------------|---|--|
| Description: | Northwest of clarification pond | |
| Location: | NW of Pond 2 | |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected in August 2009. | |
| Sampling Parameters: | N/A | |
| Rationale for Station: | To monitor groundwater down gradient of Water Retention Structures. | |
| Rationale for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. | |

Surveillance Network Program (SNP) Station 1645-21 (Inactive)

| | | |
|------------------------|---|--|
| Description: | West of Clarification pond (drainage course) between Pond 2 and Pond 3. | |
| Location: | West of Ponds 2 and 3 | |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected in August 2009 | |
| Sampling Parameters: | N/A | |
| Rationale for Station: | To monitor groundwater down gradient of Water Retention Structures | |
| Rationale for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. | |

Surveillance Network Program (SNP) Station 1645-22 (Inactive)

| | | |
|--------------|--|--|
| Description: | North of Quarry and till areas (drainage course) on the South side of North Inlet Facility | |
|--------------|--|--|

| | |
|------------------------|--|
| Location: | North of Till Stockpile |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected in October 2008 |
| Sampling Parameters: | N/A |
| Rationale for Station: | To monitor potential surface ARD |
| Rationale for Status: | To date, there has not been any observed seepage from the NCRP. Any seepage event will be reported in the Annual Seepage Report. |

Surveillance Network Program (SNP) Station 1645-23 (Inactive)

| | |
|------------------------|--|
| Description: | North perimeter road (drainage course) between road and North Inlet Facility. |
| Location: | North of Waste Rock Pile |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected in October 2011. |
| Sampling Parameters: | N/A |
| Rationale for Station: | To monitor potential surface ARD |
| Rationale for Status: | To date, there has not been any observed seepage from the NCRP. Any seepage event will be reported in the Annual Seepage Report. |

Surveillance Network Program (SNP) Station 1645-24 (Inactive)

| | |
|------------------------|---|
| Description: | East of perimeter road (drainage course) |
| Location: | South of Pond 1 |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected pre 2008. |
| Sampling Parameters: | N/A |
| Rationale for Station: | To monitor surface runoff and seepage down gradient of Water Retention structures. |
| Rationale for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. |

Surveillance Network Program (SNP) Station 1645-25 (Inactive)

| | |
|----------------------|---|
| Description: | East PKC Dike area (drainage course) |
| Location: | East of Pond 5 towards the bay |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected in September 2008. |
| Sampling Parameters: | N/A |

| | |
|------------------------|---|
| Rationale for Station: | To monitor surface runoff and seepage down gradient of Water Retention Structures |
| Rational for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. |

Surveillance Network Program (SNP) Station 1645-26 (Inactive)

| | |
|------------------------|---|
| Description: | West PKC Dike area (drainage course) |
| Location: | West side of Pond 4 |
| Sampling Frequency: | Checked weekly, sampled monthly. Last data collected in September 2008 |
| Sampling Parameters: | N/A |
| Rationale for Station: | To monitor surface runoff and seepage down gradient of Water Retention Structures |
| Rationale for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. |

Surveillance Network Program (SNP) Station 1645-27 (Inactive)

| | |
|------------------------|--|
| Description: | Airstrip Drainage Course |
| Location: | North of Airstrip |
| Sampling Frequency: | N/A |
| Sampling Parameters: | N/A |
| Rationale for Station: | Station applying to surface runoff and groundwater to monitor water quality of drainage course |
| Rationale for Status: | Drainage course dried up following construction of airstrip |

Surveillance Network Program (SNP) Station 1645-28 (Inactive)

| | |
|------------------------|---|
| Description: | Groundwater GW1 between the North Rock Pile and North Inlet |
| Location: | North of Waste Rock Pile |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly. Last data collected Pre 2008. |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | To monitor potential groundwater ARD |
| Rationale for Status: | To date, there has not been any observed seepage from the NCRP. Any |

| | |
|--|--|
| | seepage event will be reported in the Annual Seepage Report. |
|--|--|

Surveillance Network Program (SNP) Station 1645-29 (Inactive)

| | |
|------------------------|---|
| Description: | Groundwater GW2 |
| Location: | North of Pond 2 |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly. Last data collected pre 2008 |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | To monitor groundwater down gradient of Water Retention Structures |
| Rationale for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. |

Surveillance Network Program (SNP) Station 1645-30 (Inactive)

| | |
|------------------------|---|
| Description: | Groundwater GW3 Northwest of Till Disposal Area |
| Location: | N/A |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly. |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | Station applying to surface runoff and groundwater to monitor groundwater quality |
| Rationale for Status: | Area covered by Till Pile |

Surveillance Network Program (SNP) Station 1645-31 (Inactive)

| | |
|------------------------|---|
| Description: | Groundwater GW4 West of the PKC |
| Location: | South of Pond 4 |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly.. Last data collected pre 2008. |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | To monitor groundwater down gradient of Water Retention Structures |
| Rationale for Status: | Lack of data from current Station. SNP station will be replaced by monitoring requirements in SNP Part D, Item 8. |

Surveillance Network Program (SNP) Station 1645-32 (Inactive)

| | |
|------------------------|---|
| Description: | Groundwater – South of PKC, between the Ammonium Nitrate Storage and Pond 7 |
| Location: | South of Pond 7 and Emulsion Plant |
| Sampling Frequency: | Checked weekly for groundwater flow and sampled monthly. Last data collected pre 2008. |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Petroleum Hydrocarbons |
| Rationale for Station: | To monitor water down gradient of Water Retention Structure and Emulsion Plant |
| Rationale for Status: | Diavik will create a runoff monitoring and collection program to area surrounding Emulsion Plant and Ammonium Nitrate Storage Building during freshet. New monitoring station is referenced as 1645-81. |

Surveillance Network Program (SNP) Station 1645-34 (Inactive)

| | | | |
|------------------------|--|---|--|
| Description: | Near intake structure for De-watering of Lake E1 | | |
| Location: | N/A | | |
| Sampling Frequency: | Once prior to commencement of de-watering | Daily during de-watering | Once on the final day of de-watering |
| Sampling Parameters: | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Phosphorus, Nitrate, Nitrite, Turbidity | Total Suspended Solids, pH ⁴ , Turbidity | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Phosphorus, Nitrate, Nitrite, Turbidity |
| Rationale for Station: | To monitor water quality during de-watering | | |
| Rationale for Status: | Work is completed, Station no longer applicable. | | |

Surveillance Network Program (SNP) Station 1645-35 (Inactive)

| | | | |
|----------------------|---|---|---|
| Description: | Near intake structure of De-watering of Lake E6 | | |
| Location: | N/A | | |
| Sampling Frequency: | Once prior to commencement of de-watering | Daily during de-watering | Once on the final day of de-watering |
| Sampling Parameters: | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS | Total Suspended Solids, pH ⁴ , | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal |

| | | | |
|------------------------|--|-----------|--|
| | Metal Scan ¹ (Total), Major Ions ² , Total Phosphorus, Nitrate, Nitrite, Turbidity | Turbidity | Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Phosphorus, Nitrate, Nitrite, Turbidity |
| Rationale for Station: | To monitor water quality during de-watering | | |
| Rationale for Status: | Work is completed, Station no longer applicable. | | |

Surveillance Network Program (SNP) Station 1645-36 (Inactive)

| | | | |
|------------------------|--|---|--|
| Description: | Near intake structure for De-watering of Lake E7 | | |
| Location: | N/A | | |
| Sampling Frequency: | Once prior to commencement of de-watering | Daily during de-watering | Once on the final day of de-watering |
| Sampling Parameters: | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Phosphorus, Nitrate, Nitrite, Turbidity | Total Suspended Solids, pH ⁴ , Turbidity | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Phosphorus, Nitrate, Nitrite, Turbidity |
| Rationale for Station: | To monitor water quality during de-watering | | |
| Rationale for Status: | Work is completed, Station no longer applicable. | | |

Surveillance Network Program (SNP) Station 1645-37 (Inactive)

| | | | |
|------------------------|--|---|--|
| Description: | Near intake structure for De-watering of Lake E8 | | |
| Location: | N/A | | |
| Sampling Frequency: | Once prior to commencement of de-watering | Daily during de-watering | Once on the final day of de-watering |
| Sampling Parameters: | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Phosphorus, Nitrate, Nitrite, Turbidity | Total Suspended Solids, pH ⁴ , Turbidity | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Phosphorus, Nitrate, Nitrite, Turbidity |
| Rationale for Station: | To monitor water quality during de-watering | | |
| Rationale for Status: | Work is completed, Station no longer applicable. | | |

Surveillance Network Program (SNP) Station 1645-38 (Inactive)

| | | | |
|------------------------|--|---|--|
| Description: | Near intake structure for De-watering of Lake E10 | | |
| Location: | N/A | | |
| Sampling Frequency: | Once prior to commencement of de-watering | Daily during de-watering | Once on the final day of de-watering |
| Sampling Parameters: | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Phosphorus, Nitrate, Nitrite, Turbidity | Total Suspended Solids, pH ⁴ , Turbidity | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Phosphorus, Nitrate, Nitrite, Turbidity |
| Rationale for Station: | To monitor water quality during de-watering | | |
| Rationale for Status: | Work is completed, Station no longer applicable. | | |

Surveillance Network Program (SNP) Station 1645-39 (Inactive)

| | | | | |
|------------------------|---|---|---|---|
| Description: | Near intake structure for De-watering within the Dike enclosure of A154 | | | |
| Location: | N/A | | | |
| Sampling Frequency: | Once prior to commencement of discharge at a minimum of five (5) stations evenly spaced along a longitudinal transect as approved by an inspector. At each station, samples must be collected at surface and at two (2) metre intervals | Daily during dewatering | Every six (6) days during dewatering | Once on the final day of dewatering at each of the five (5) sites |
| Sampling Parameters: | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Suspended Solids, Turbidity, Nutrients ⁵ | pH ⁴ , Total Suspended Solids, Turbidity, Total Phosphorus | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , Oil and Grease | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Suspended Solids, Turbidity, Nutrients ⁵ |
| | Note: Additional sampling may be required at the request of an Inspector | | | |
| Rationale for Station: | To monitor water quality during de-watering | | | |

| | |
|-----------------------|--|
| Rationale for Status: | Work is completed, Station no longer applicable. |
|-----------------------|--|

Surveillance Network Program (SNP) Station 1645-40 (Inactive)

| | | | | |
|------------------------|---|---|---|---|
| Description: | Near intake structure for dike pool watering – A418 | | | |
| Location: | N/A | | | |
| Sampling Frequency: | Once prior to commencement of discharge at a minimum of five (5) stations evenly spaced along a longitudinal transect as approved by an inspector. At each station, samples must be collected at surface and at two (2) metre intervals | Daily during dewatering | Every six (6) days during dewatering | Once on the final day of dewatering at each of the five (5) sites |
| Sampling Parameters: | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Suspended Solids, Turbidity, Nutrients ⁵ | pH ⁴ , Total Suspended Solids, Turbidity, Total Phosphorus | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , Oil and Grease | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Suspended Solids, Turbidity, Nutrients ⁵ |
| | Note: Additional sampling may be required at the request of an Inspector | | | |
| Rationale for Station: | To monitor water quality during de-watering | | | |
| Rationale for Status: | Work is completed, Station no longer applicable. | | | |

Surveillance Network Program (SNP) Station 1645-43 (Inactive)

| | | | |
|----------------------|---|--|---------------------------------------|
| Description: | A 21 SNP Station: Collection Pond | | |
| Location: | Pond 6 | | |
| Sampling Frequency: | Monthly if water is present | Once prior to the commencement of discharge to Lac de Gras | Daily during discharge to Lac de Gras |
| Sampling Parameters: | Total Ammonia, Field Parameters ³ , ICP-MS Metal | Total Petroleum Hydrocarbons (TPH) | TSS, pH ⁴ , Turbidity |

| | | | |
|------------------------|--|--|--|
| | Scan ¹ , Major Ions ² , Nitrate-Nitrite, pH ⁴ , Total Phosphorus, Total Suspended Solids, Turbidity | | |
| Rationale for Station: | To monitor water quality during A21 development | | |
| Rationale for Status: | The approved Construction Environmental Management Plan, Version 2.0, indicates that Pond 6 is no longer necessary. | | |

Surveillance Network Program (SNP) Station 1645-48 (Inactive)

| | | | |
|------------------------|--|---|--|
| Description: | Clarification pond (Pond 3) | | |
| Location: | West side of the North Rock Pile | | |
| Sampling Frequency: | Once prior to the commencement of the discharge at a minimum of three (3) stations evenly spaced along a longitudinal transect at the centerline of the clarification pond collected at surface, and at two (2) metre intervals to depth | Daily during periods of discharge | Every two (2) weeks during periods of discharge and once on the final day of discharge |
| Sampling Parameters: | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Ammonia, Nitrite, Oil and Grease, Total Phosphorus, Nitrate, Total Suspended Solids, Turbidity | Total Suspended Solids, Total Phosphorus, Turbidity | pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Ammonia, Nitrite, Oil and Grease, Total Phosphorus, Nitrate, Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor water quality of Pond 3. | | |
| Rationale for Status: | Pond is no longer large enough for three (3) stations along centre-line transect. It is now covered by SNP Station 1645-76. | | |

Surveillance Network Program (SNP) Station 1645-49 (Inactive)

| | | | |
|------------------------|--|--|--|
| Description: | Mine water removed from A154 Pit | | |
| Location: | N/A | | |
| Sampling Frequency: | Every two (2) weeks | | |
| Sampling Parameters: | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , pH ⁴ , Total Suspended Solids, Turbidity, Oil and Grease | | |
| Rationale for Station: | Station applying to dewatering to monitor water quality from A154 Pit | | |

| | |
|-----------------------|---|
| Rationale for Status: | Inactive after the closure of the A154 Open Pit |
|-----------------------|---|

Surveillance Network Program (SNP) Station 1645-50 (Inactive)

| | |
|------------------------|--|
| Description: | Mine water removed from A418 Pit |
| Location: | A418 Open Pit |
| Sampling Frequency: | Not currently Monitored. Last data collected in June 2012 every two (2) weeks. Note: Will only apply at the time A418 Pit is developed. |
| Sampling Parameters: | Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , pH ⁴ , Total Suspended Solids, Turbidity, Oil and Grease |
| Rationale for Station: | Monitor quality of Pit water |
| Rationale for Status: | With the closure of A418 Open Pit, there is no need for this station. Any water |

Surveillance Network Program (SNP) Station 1645-52 (Inactive)

| | | |
|------------------------|---|--|
| Description: | Seepage collected from inside toe of the A154 Dike | |
| Location: | A154 Dike | |
| Sampling Frequency: | Not Currently monitored. Last data collected in 2008. Sample once prior to discharge: | Daily during discharge: |
| Sampling Parameters: | Total Ammonia, pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Nutrients ⁵ , Turbidity, Total Suspended Solids, Total Dissolved Solids, Oil and Grease | Field Parameters ³ , Total Suspended Solids, Total Phosphorus, Turbidity, Total Ammonia |
| Rationale for Station: | Monitor Lake water seepage through open Pit Dikes prior to discharge to Lac de Gras | |
| Rationale for Status: | Seepage through Open Pit Dikes is considered intermediate and inconsistent and is discharged to North Inlet, not to Lac de Gras. | |

Surveillance Network Program (SNP) Station 1645-53 (Inactive)

| | | |
|----------------------|--|---|
| Description: | Seepage collected from inside toe of the A418 Dike | |
| Location: | A418 Dike | |
| Sampling Frequency: | Not Currently monitored. Data collection was never established. Sample once prior to discharge: | Daily during discharge: |
| Sampling Parameters: | Total Ammonia, pH ⁴ , Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , | Field Parameters ³ , Total Suspended Solids, Total |

| | | |
|------------------------|--|--------------------------------------|
| | Nutrients ⁵ , Turbidity, Total Suspended Solids, Total Dissolved Solids, Oil and Grease | Phosphorus, Turbidity, Total Ammonia |
| Rationale for station: | Monitor Lake water seepage through open Pit Dikes prior to discharge to Lac de Gras | |
| Rationale for Status: | Seepage through Open Pit Dikes is considered intermediate and inconsistent and is discharged to North Inlet, not to Lac de Gras. | |

Surveillance Network Program (SNP) Station 1645-56 (Inactive)

| | |
|-----------------------|--|
| Description: | Station applying to dredging and dike construction |
| Rationale for Status: | Fixed Dredging/Diking Station located 200 meters east from the centerline of the North Inlet East Dike |

Surveillance Network Program (SNP) Station 1645-57 (Inactive)

| | |
|-----------------------|---|
| Description: | Station applying to dredging and dike construction |
| Rationale for Status: | Removed as per approved Dredging TSS Management and In Lake Construction Plan |

Surveillance Network Program (SNP) Station 1645-58 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.152.057, E 537.073 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-59 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.152.210, E 537.342 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-60 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.152.587, E 537.575 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-61 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.153.263, E 537.666 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-62 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.153.562, E 537.079 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-63 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.153.744, E 536.463 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |

| | |
|-----------------------|--|
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |
|-----------------------|--|

Surveillance Network Program (SNP) Station 1645-64 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.153.768, E 536.173 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-65 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.153.740, E 535.756 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | N/A |
| Rationale for Status: | Station as referenced in Figure 8.1 of the approved Dredging TSS Management and In Lake Construction Plan. |

Surveillance Network Program (SNP) Station 1645-66 (Inactive)

| | | | |
|------------------------|--|---|--|
| Description: | Near intake structure for De-watering of North Inlet. | | |
| Location: | N/A | | |
| Sampling Frequency: | Once prior to commencement of de-watering | Daily during de-watering | Once on the final day of de-watering |
| Sampling Parameters: | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , Total Phosphorus, Nitrate, Nitrite, Turbidity | Total Suspended Solids, pH ⁴ , Turbidity | Total Ammonia, Total Suspended Solids, Field Parameters ³ , ICP-MS Metal Scan ¹ (Total), Major Ions ² , pH ⁴ , Total Phosphorus, Nitrate, Nitrite, Turbidity |
| Rationale for Station: | Station applying to dewatering to monitor water quality before, during, and at the end of De-watering North Inlet. | | |

| | |
|-----------------------|--|
| Rationale for Status: | |
|-----------------------|--|

Surveillance Network Program (SNP) Station 1645-70 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.151.848, E 537.057 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor suspended solids and turbidity caused by dredging and dike construction. |
| Rationale for Status: | Station referenced as 1645-A in Figure 1 of the April 12, 2005 DDMI request for additional SNP Stations. |

Surveillance Network Program (SNP) Station 1645-71 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.151.369, E 536.765 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor suspended solids and turbidity caused by dredging and dike construction. |
| Rationale for Status: | Station referenced as 1645-B in Figure 1 of the April 12, 2005 DDMI request for additional SNP Stations. |

Surveillance Network Program (SNP) Station 1645-72 (Inactive)

| | |
|------------------------|--|
| Description: | Station applying to dredging and dike construction |
| Location: | N 7.151.319, E 536.414 |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | To monitor suspended solids and turbidity caused by dredging and dike construction. |
| Rationale for Status: | Station referenced as 1645-C in Figure 1 of the April 12, 2005 DDMI request for additional SNP Stations. |

Surveillance Network Program (SNP) Station 1645-73 (Inactive)

| | |
|--------------|--|
| Description: | Station applying to dredging and dike construction |
|--------------|--|

| | |
|------------------------|--|
| Location: | N/A |
| Sampling Frequency: | Sample daily using approved depth integrated sampler |
| Sampling Parameters: | Total Suspended Solids, Turbidity |
| Rationale for Station: | Background reference station for the regulation of dredging and dike construction association with A418 Pit |
| Rationale for Status: | Station referenced as 1645-55B in Figure 1 of the April 12, 2005 DDMI request for additional SNP Stations - Relocated background reference Station (N 7.152.720 E 538.765) |