



# MIRAMAR HOPE BAY LTD.

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30 September 2002

Mr. Philippe di Pizzo  
Executive Director  
Nunavut Water Board,  
P.O. Box 119  
Gjoa Haven, NU, X0E 1J0

Dear Mr. di Pizzo,

**Re: August & September 2002 Monthly Report for Water License: NWB2HOP0207**

Activities at the Windy Lake camp during the months of August and September focused on advanced exploration activities in the Doris Lake, Patch Lake and other target areas. The camp was operational for the period 01 August till 22 September with the shut down crew occupying the camp till 25<sup>th</sup> September. The camp population during the report period was approximately 75 persons with a peak of 82 persons on August 24-26<sup>th</sup>.

There was one reportable spill for the report period, Spill # 02-451 was reported to the 24 hour spill line on August 1, 2002 and a follow up report was submitted on September 3, 2002 as required by water licence NWSB2HOP0207. In the September 3, 2002 submission we stated that "Although there was "no visible sheen" of oil and grease on any water body, water samples were taken from Windy Lake and from standing water located down-slope from the spill site. Preliminary analytical results have shown that water samples collected to date are at or near the detection limit for Oil and Grease indicating that there are no impacts on Windy Lake. We are currently awaiting the final analytical results from the external lab and they will be submitted to you (Nunavut Water Board) with the September monthly report". The analytical results have now been received and are provided in Table 3 below.

Other water sampling requirements stated in the water licence were obtained from the RBC discharge and in Windy Lake where this discharge potentially enters the lake.

Table 1 provides information for the RBC Sewage Discharge Point and Table 2 provides data on the "Windy Lake – Down-slope from RBC Sewage Discharge".

| <b>Table 1</b>                        | <b>Rotating Biological Contactor (RBC) Sewage Discharge Point</b> |                  |                 |  |  |
|---------------------------------------|-------------------------------------------------------------------|------------------|-----------------|--|--|
| <b>Parameters</b>                     |                                                                   |                  |                 |  |  |
|                                       |                                                                   |                  |                 |  |  |
| <i>Sample Date</i>                    | <i>July 24</i>                                                    | <i>August 20</i> | <i>Sept. 08</i> |  |  |
|                                       |                                                                   |                  |                 |  |  |
| <b>Physical Tests</b>                 |                                                                   |                  |                 |  |  |
| pH                                    | Not done                                                          | Sample lost      | 7.02            |  |  |
| Total Suspended Solids (mg/l)         | 420                                                               | Sample lost      | 320             |  |  |
|                                       |                                                                   |                  |                 |  |  |
| <b>Bacteriological Tests</b>          |                                                                   |                  |                 |  |  |
| Coliform Bacteria – Fecal (Cfu/100ml) | 3500000                                                           | 12800000         | 20000000        |  |  |
|                                       |                                                                   |                  |                 |  |  |
| <b>Extractables</b>                   |                                                                   |                  |                 |  |  |
| Oil and Grease (mg/l)                 | 38.6                                                              | 169.3            | 244             |  |  |
|                                       |                                                                   |                  |                 |  |  |
| <b>Organic Parameters</b>             |                                                                   |                  |                 |  |  |
| BOD-5 (mg/l)                          | 201                                                               | Sample lost      | 444             |  |  |

| <b>Table 2</b>                        | <b>WINDY LAKE -DOWNSLOPE FROM RBC-SEWAGE DISCHARGE</b> |                  |                 |                          |  |
|---------------------------------------|--------------------------------------------------------|------------------|-----------------|--------------------------|--|
| <b>Parameters</b>                     |                                                        |                  |                 |                          |  |
|                                       |                                                        |                  |                 |                          |  |
| <i>Sample Date</i>                    | <i>July 24</i>                                         | <i>August 20</i> | <i>Sept. 08</i> | <i>Sept.08 Duplicate</i> |  |
|                                       |                                                        |                  |                 |                          |  |
| <b>Physical Tests</b>                 |                                                        |                  |                 |                          |  |
| pH                                    | 7.83                                                   | 7.78             | 7.72            | 7.77                     |  |
| Total Suspended Solids (mg/l)         | <3                                                     | 13               | 8               | 6                        |  |
|                                       |                                                        |                  |                 |                          |  |
| <b>Bacteriological Tests</b>          |                                                        |                  |                 |                          |  |
| Coliform Bacteria – Fecal (Cfu/100ml) | Not done                                               | <2               | <1000000*       | <2                       |  |
|                                       |                                                        |                  |                 |                          |  |
| <b>Extractables</b>                   |                                                        |                  |                 |                          |  |
| Oil and Grease (mg/l)                 | <.2                                                    | 0.4              | 1.1             | No sample                |  |
|                                       |                                                        |                  |                 |                          |  |
| <b>Organic Parameters</b>             |                                                        |                  |                 |                          |  |
| BOD-5 (mg/l)                          | Not done                                               | 0.61             | <2              | <2                       |  |

\* Results questionable, duplicate was <2, similar to results in August.

|                            |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|--|
| <b>Table 3</b>             | <b>OIL AND GREASE ANALYSES COLLECTED RELATED TO SPILL</b><br><b>REPORT # 02-451</b><br><b>ALL SAMPLE LOCATIONS WERE AT THE SHORELINE</b><br><b>#1 - WINDY LAKE – CENTRE</b><br><b>#2 - WINDY LAKE – 50 METERS SOUTH</b><br><b>#3 - WINDY LAKE – 50 METERS NORTH</b><br><b>#4 - WINDY LAKE – LAGOON</b> |                      |                      |                      |  |
| <b>Sample location: 1</b>  | Windy Lake-<br>centre                                                                                                                                                                                                                                                                                  | Windy Lake<br>centre | Windy Lake<br>centre | Windy Lake<br>centre |  |
|                            |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
| <b>Sample Date</b>         | <i>August 2</i>                                                                                                                                                                                                                                                                                        | <i>August 3</i>      | <i>August 4</i>      | <i>August 8</i>      |  |
|                            |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
| Oil and Grease (mg/l)      | <0.2                                                                                                                                                                                                                                                                                                   | 1.0                  | <0.2                 | <0.2                 |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                    | 0.2                  | 0.2                  | 0.2                  |  |
| <b>Sample Date</b>         | August 20                                                                                                                                                                                                                                                                                              | Sept. 8              |                      |                      |  |
|                            |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
| Oil and Grease (mg/l)      | 0.6                                                                                                                                                                                                                                                                                                    | <0.2                 |                      |                      |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                    | 0.2                  |                      |                      |  |
|                            |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |
|                            |                                                                                                                                                                                                                                                                                                        |                      |                      |                      |  |

|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|
| <b>Table 3</b>             | <b>OIL AND GREASE ANALYSES COLLECTED RELATED TO SPILL</b><br><b>REPORT # 02-451</b><br><b>ALL SAMPLE LOCATIONS WERE AT THE SHORELINE</b><br><b>#1 - WINDY LAKE – CENTRE</b><br><b>#2 - WINDY LAKE – 50 METERS SOUTH</b><br><b>#3 - WINDY LAKE – 50 METERS NORTH</b><br><b>#4 - WINDY LAKE – LAGOON</b> |                                   |                                   |                                   |  |
| <b>Sample location: 2</b>  | Windy Lake-<br>50 meters<br>South                                                                                                                                                                                                                                                                      | Windy Lake-<br>50 meters<br>South | Windy Lake-<br>50 meters<br>South | Windy Lake-<br>50 meters<br>South |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| <b>Sample Date</b>         | <i>August 2</i>                                                                                                                                                                                                                                                                                        | <i>August 3</i>                   | <i>August 4</i>                   | <i>August 8</i>                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| Oil and Grease (mg/l)      | 0.5                                                                                                                                                                                                                                                                                                    | 1.2                               | 0.2                               | <0.2                              |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                    | 0.2                               | 0.2                               | 0.2                               |  |
| <b>Sample Date</b>         | August 20                                                                                                                                                                                                                                                                                              | Sept. 8                           |                                   |                                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| Oil and Grease (mg/l)      | 0.4                                                                                                                                                                                                                                                                                                    | 0.5                               |                                   |                                   |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                    | 0.2                               |                                   |                                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |

|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--|
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| <b>Sample location: 3</b>  | Windy Lake-<br>50 meters<br>North                                                                                                                                                                                                                                                                      | Windy Lake-<br>50 meters<br>North | Windy Lake-<br>50 meters<br>North | Windy Lake-<br>50 meters<br>North |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| <b>Sample Date</b>         | <i>August 2</i>                                                                                                                                                                                                                                                                                        | <i>August 3</i>                   | <i>August 4</i>                   | <i>August 8</i>                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| Oil and Grease (mg/l)      | <0.2                                                                                                                                                                                                                                                                                                   | 0.8                               | <0.2                              | <0.2                              |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                    | 0.2                               | 0.2                               | 0.2                               |  |
| <b>Sample Date</b>         | August 20                                                                                                                                                                                                                                                                                              | Sept. 8                           |                                   |                                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
| Oil and Grease (mg/l)      | 0.8                                                                                                                                                                                                                                                                                                    | <0.2                              |                                   |                                   |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                    | 0.2                               |                                   |                                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |
|                            |                                                                                                                                                                                                                                                                                                        |                                   |                                   |                                   |  |

|                            |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|--|
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| <b>Sample location: 4</b>  | Windy Lake-<br>Lagoon                                                                                                                                                                                                                                                                                     | Windy Lake-<br>Lagoon | Windy Lake-<br>Lagoon | Windy Lake-<br>Lagoon |  |
|                            |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
| <b>Sample Date</b>         | <i>August 2</i>                                                                                                                                                                                                                                                                                           | <i>August 3</i>       | <i>August 4</i>       | <i>August 8</i>       |  |
|                            |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
| Oil and Grease (mg/l)      | <0.2                                                                                                                                                                                                                                                                                                      | 1.2                   | 0.7                   | 3.0                   |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                       | 0.2                   | 0.2                   | 0.2                   |  |
| <b>Sample Date</b>         | August 20                                                                                                                                                                                                                                                                                                 | Sept. 8               |                       |                       |  |
|                            |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
| <b>Extractables</b>        |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
| Oil and Grease (mg/l)      | Analyst error                                                                                                                                                                                                                                                                                             | 0.5                   |                       |                       |  |
| Laboratory Detection Limit | 0.2                                                                                                                                                                                                                                                                                                       | 0.2                   |                       |                       |  |
|                            |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |
|                            |                                                                                                                                                                                                                                                                                                           |                       |                       |                       |  |

\*\* Note: Historical residues from the incinerator and latrines may be a cause for the slightly elevated results. These results should be used with caution and be compared to similar sampling dates in Windy Lake.

There were no other reportable spills for the report period.

As mentioned above the Windy Lake camp was closed for the season on September 25, 2002. As such, this will be the final monthly report for 2002 and this submission is seen to meet full compliance with the above noted water license.

If you have any questions, please do not hesitate to contact the undersigned at the above numbers, or on e-mail at [hugh\\_r\\_wilson@hotmail.com](mailto:hugh_r_wilson@hotmail.com); or [hwilson@miramarmining.com](mailto:hwilson@miramarmining.com). I can also be reached on cell # 780-975-2550.

Sincerely,  
**Hope Bay Joint Venture**

*Original signed by "H.R.Wilson"*

Hugh R. Wilson,  
Manager, Environmental Affairs

CC: J. Kaniak, KIA Lands Manager (e-mail [jkaniak@polarnet.ca](mailto:jkaniak@polarnet.ca))  
D. Fonseca, MHBL-Library