

Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | Total (%) | |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|-----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | | 18+ m/s |
| ENE | - | 0.98 | - | - | - | - | - | - | 0.98 |
| NE | - | - | - | - | - | - | - | - | - |
| NNE | - | - | - | - | - | - | - | - | - |
| N | - | 0.98 | - | - | - | - | - | - | 0.98 |
| NNW | - | 0.98 | - | - | - | - | - | - | 0.98 |
| NW | - | - | 0.98 | - | - | - | - | - | 0.98 |
| WNW | - | - | - | 0.98 | 3.92 | - | - | - | 4.90 |
| W | - | - | - | 0.98 | 2.94 | - | - | - | 3.92 |
| WSW | - | - | 0.98 | 0.98 | - | - | - | - | 1.96 |
| SW | - | 0.98 | 6.86 | - | - | - | - | - | 7.84 |
| SSW | - | 4.90 | 4.90 | - | - | - | - | - | 9.80 |
| S | - | 3.92 | - | - | - | - | - | - | 3.92 |
| SSE | - | 5.88 | - | - | - | - | - | - | 5.88 |
| SE | - | 7.84 | 1.96 | - | - | - | - | - | 9.80 |
| ESE | - | 1.96 | 9.80 | - | - | - | - | - | 11.77 |
| E | - | - | 1.96 | 6.86 | 1.96 | - | - | - | 10.78 |
| Calm | 25.49 | - | - | - | - | - | - | - | 25.49 |
| Total (%) | 25.49 | 28.43 | 27.45 | 9.80 | 8.82 | - | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

Record length: 3 days

Start Date: Jan. 29, 2006

End Date: Jan. 31, 2006

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:

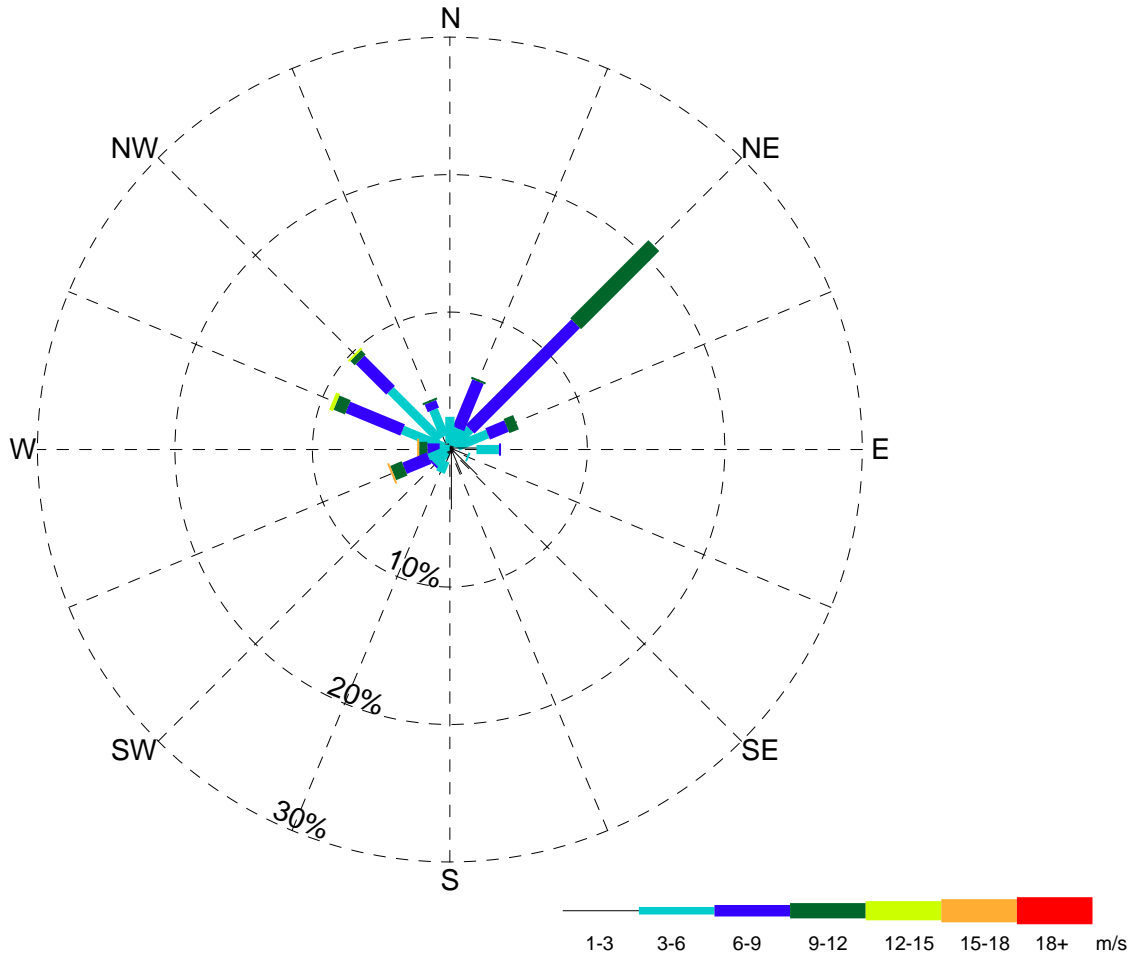

ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, January 2006

FIGURE NUMBER: **G-2.01** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|--------------|--------------|-------------|-------------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 0.60 | 2.38 | 1.49 | 0.74 | - | - | - | 5.21 |
| NE | - | 0.45 | 1.64 | 10.86 | 8.04 | - | - | - | 20.98 |
| NNE | - | 0.30 | 1.34 | 3.72 | 0.15 | - | - | - | 5.51 |
| N | - | 0.45 | 1.93 | - | - | - | - | - | 2.38 |
| NNW | - | 1.04 | 2.08 | 0.60 | 0.15 | - | - | - | 3.87 |
| NW | - | 1.04 | 5.06 | 3.12 | 0.45 | 0.15 | - | - | 9.82 |
| WNW | - | 0.45 | 3.27 | 4.32 | 0.89 | 0.30 | - | - | 9.23 |
| W | - | - | 0.74 | 0.89 | 0.60 | - | 0.15 | - | 2.38 |
| WSW | - | 0.45 | 1.19 | 1.93 | 0.89 | - | 0.15 | - | 4.61 |
| SW | - | 0.30 | 1.19 | 0.15 | - | - | - | - | 1.64 |
| SSW | - | 0.89 | 0.89 | - | - | - | - | - | 1.79 |
| S | - | 4.32 | - | - | - | - | - | - | 4.32 |
| SSE | - | 1.93 | - | - | - | - | - | - | 1.93 |
| SE | - | 2.68 | - | - | - | - | - | - | 2.68 |
| ESE | - | 1.34 | 0.15 | - | - | - | - | - | 1.49 |
| E | - | 1.93 | 1.64 | 0.15 | - | - | - | - | 3.72 |
| Calm | 18.45 | - | - | - | - | - | - | - | 18.45 |
| Total (%) | 18.45 | 18.16 | 23.51 | 27.23 | 11.90 | 0.45 | 0.30 | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 28 days
 Start Date: Feb. 1, 2006
 End Date: Feb. 28, 2006
 Comment:

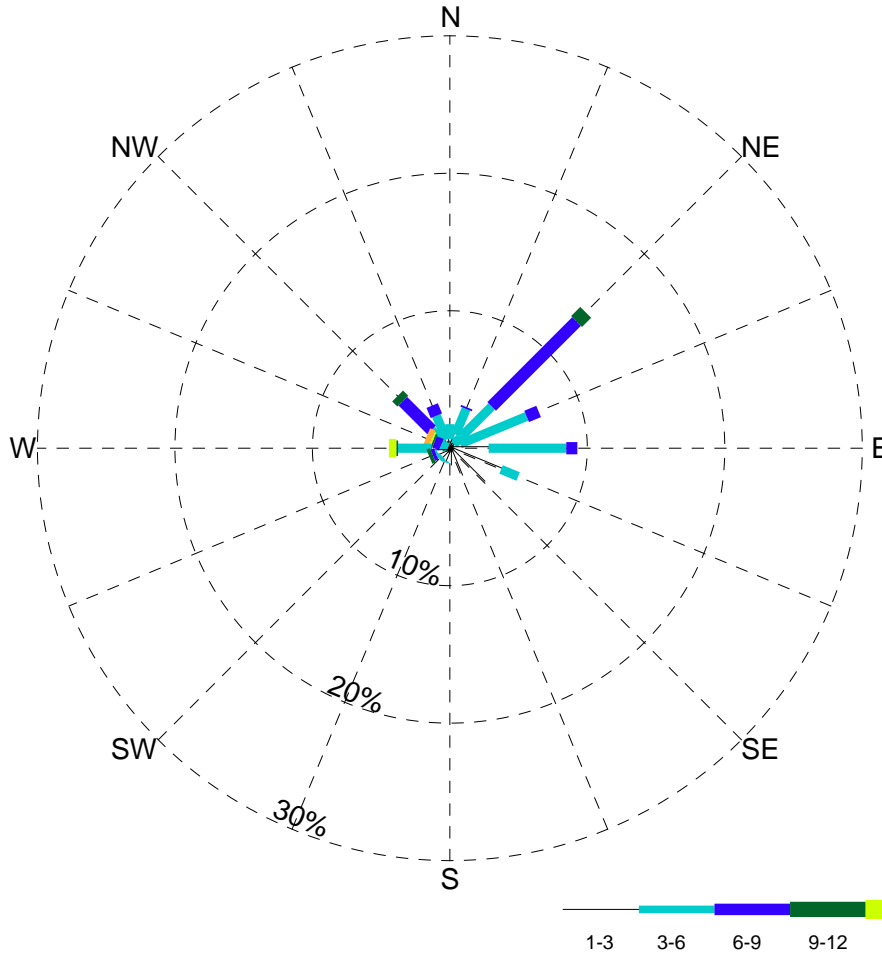
CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, February 2006

FIGURE NUMBER: **G-2.02**
 DATE: 20090727
 SCALE:
 AUTHOR: TM
 APPROVED BY: JAS
 PROJECTION:
 DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|--------------|-------------|-------------|-------------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 0.81 | 5.24 | 0.94 | - | - | - | - | 6.99 |
| NE | - | 0.40 | 3.90 | 8.74 | 0.94 | - | - | - | 13.98 |
| NNE | - | 1.08 | 2.02 | 0.13 | - | - | - | - | 3.23 |
| N | - | 0.67 | 1.08 | - | - | - | - | - | 1.75 |
| NNW | - | 0.67 | 1.88 | 0.81 | - | - | - | - | 3.36 |
| NW | - | 0.67 | 1.21 | 2.96 | 0.54 | - | - | - | 5.38 |
| WNW | - | 0.13 | 0.54 | 0.54 | 0.13 | 0.13 | 0.40 | - | 1.88 |
| W | - | 1.34 | 2.42 | - | 0.13 | 0.54 | - | - | 4.43 |
| WSW | - | 0.94 | 0.13 | 0.27 | 0.27 | - | - | - | 1.61 |
| SW | - | 0.81 | 0.27 | - | - | - | - | - | 1.08 |
| SSW | - | 0.94 | 0.13 | - | - | - | - | - | 1.08 |
| S | - | 1.21 | - | - | - | - | - | - | 1.21 |
| SSE | - | 2.15 | - | - | - | - | - | - | 2.15 |
| SE | - | 3.49 | - | - | - | - | - | - | 3.49 |
| ESE | - | 4.03 | 1.34 | - | - | - | - | - | 5.38 |
| E | - | 2.82 | 5.64 | 0.81 | - | - | - | - | 9.27 |
| Calm | 33.74 | - | - | - | - | - | - | - | 33.74 |
| Total (%) | 33.74 | 22.18 | 25.81 | 15.19 | 2.02 | 0.67 | 0.40 | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

Record length: 31 days

Start Date: Mar. 1, 2006

End Date: Mar. 31, 2006

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:

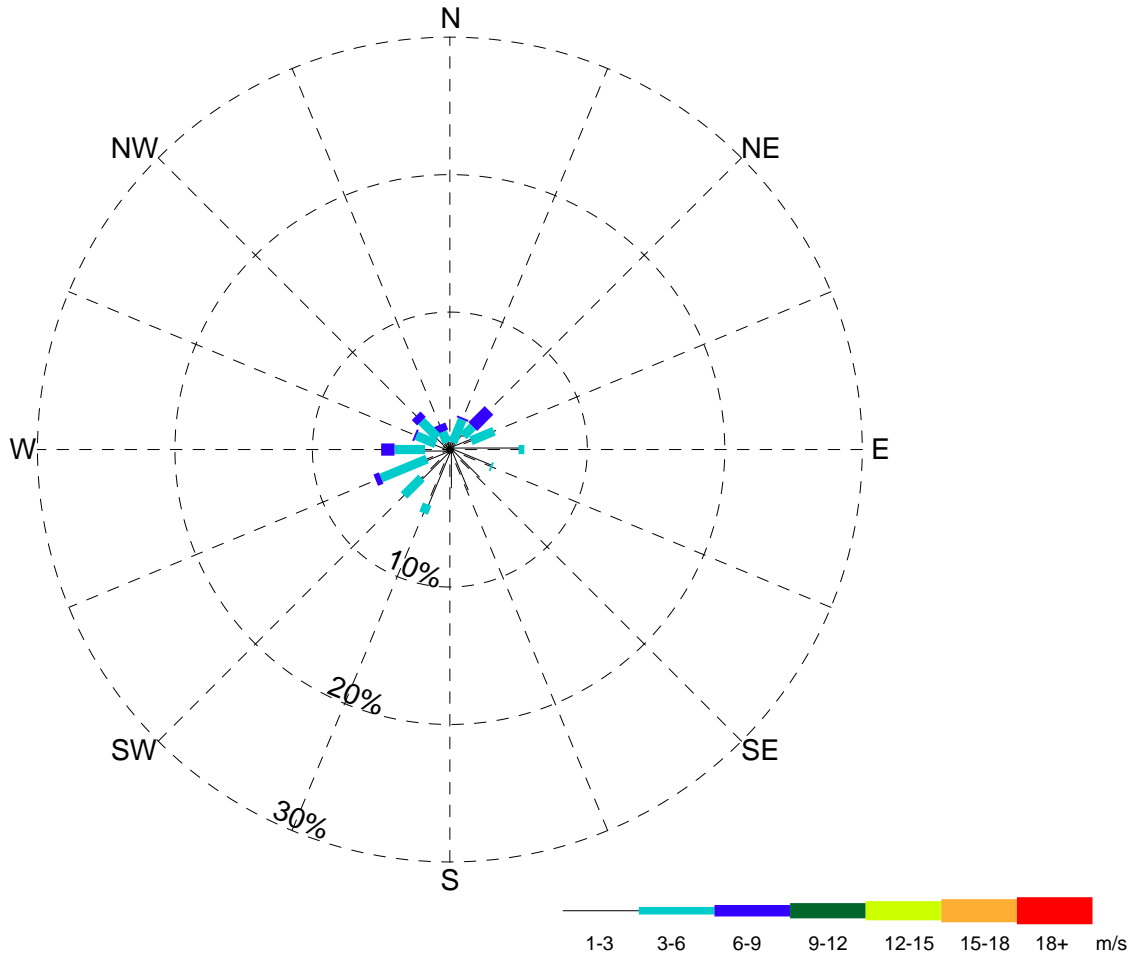

ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, March 2006

FIGURE NUMBER: **G-2.03** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|----------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 1.67 | 1.81 | - | - | - | - | - | 3.47 |
| NE | - | 1.39 | 0.97 | 1.67 | - | - | - | - | 4.03 |
| NNE | - | 0.56 | 1.81 | 0.14 | - | - | - | - | 2.50 |
| N | - | 0.69 | 0.28 | - | - | - | - | - | 0.97 |
| NNW | - | 0.56 | 0.83 | 0.56 | - | - | - | - | 1.94 |
| NW | - | 1.25 | 1.67 | 0.56 | - | - | - | - | 3.47 |
| WNW | - | 1.11 | 1.53 | 0.14 | - | - | - | - | 2.78 |
| W | - | 1.81 | 2.22 | 0.97 | - | - | - | - | 5.00 |
| WSW | - | 1.81 | 3.61 | 0.42 | - | - | - | - | 5.83 |
| SW | - | 2.92 | 1.81 | - | - | - | - | - | 4.72 |
| SSW | - | 4.31 | 0.69 | - | - | - | - | - | 5.00 |
| S | - | 2.78 | - | - | - | - | - | - | 2.78 |
| SSE | - | 3.19 | - | - | - | - | - | - | 3.19 |
| SE | - | 2.92 | - | - | - | - | - | - | 2.92 |
| ESE | - | 3.19 | 0.14 | - | - | - | - | - | 3.33 |
| E | - | 5.00 | 0.42 | - | - | - | - | - | 5.42 |
| Calm | 42.64 | - | - | - | - | - | - | - | 42.64 |
| Total (%) | 42.64 | 35.14 | 17.78 | 4.44 | - | - | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 30 days
 Start Date: Apr. 1, 2006
 End Date: Apr. 30, 2006
 Comment:

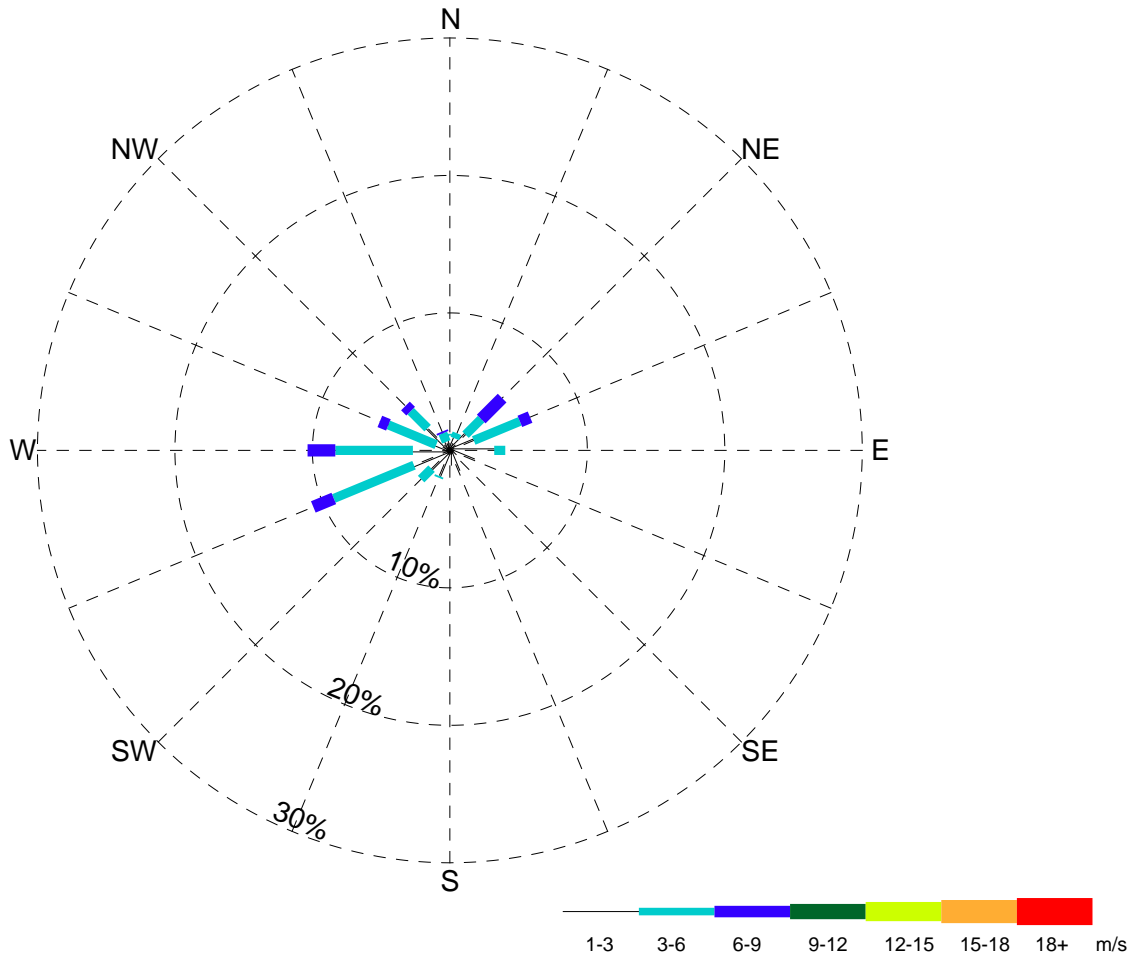
CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, April 2006

FIGURE NUMBER: **G-2.04**
 DATE: 20090727
 SCALE:
 AUTHOR: TM
 APPROVED BY: JAS
 PROJECTION:
 DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|----------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 1.88 | 3.63 | 0.81 | - | - | - | - | 6.32 |
| NE | - | 1.61 | 1.61 | 2.15 | - | - | - | - | 5.38 |
| NNE | - | 0.94 | 0.40 | - | - | - | - | - | 1.34 |
| N | - | 1.08 | 0.13 | - | - | - | - | - | 1.21 |
| NNW | - | 0.67 | 0.67 | 0.13 | - | - | - | - | 1.48 |
| NW | - | 2.29 | 1.75 | 0.54 | - | - | - | - | 4.57 |
| WNW | - | 1.08 | 3.76 | 0.67 | - | - | - | - | 5.51 |
| W | - | 2.69 | 5.64 | 2.02 | - | - | - | - | 10.35 |
| WSW | - | 2.82 | 6.32 | 1.61 | - | - | - | - | 10.75 |
| SW | - | 1.88 | 1.08 | - | - | - | - | - | 2.96 |
| SSW | - | 2.02 | 0.13 | - | - | - | - | - | 2.15 |
| S | - | 1.08 | - | - | - | - | - | - | 1.08 |
| SSE | - | 1.61 | - | - | - | - | - | - | 1.61 |
| SE | - | 0.54 | - | - | - | - | - | - | 0.54 |
| ESE | - | 1.88 | - | - | - | - | - | - | 1.88 |
| E | - | 3.23 | 0.81 | - | - | - | - | - | 4.03 |
| Calm | 38.84 | - | - | - | - | - | - | - | 38.84 |
| Total (%) | 38.84 | 27.28 | 25.94 | 7.93 | - | - | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 31 days
 Start Date: May 1, 2006
 End Date: May 31, 2006
 Comment:

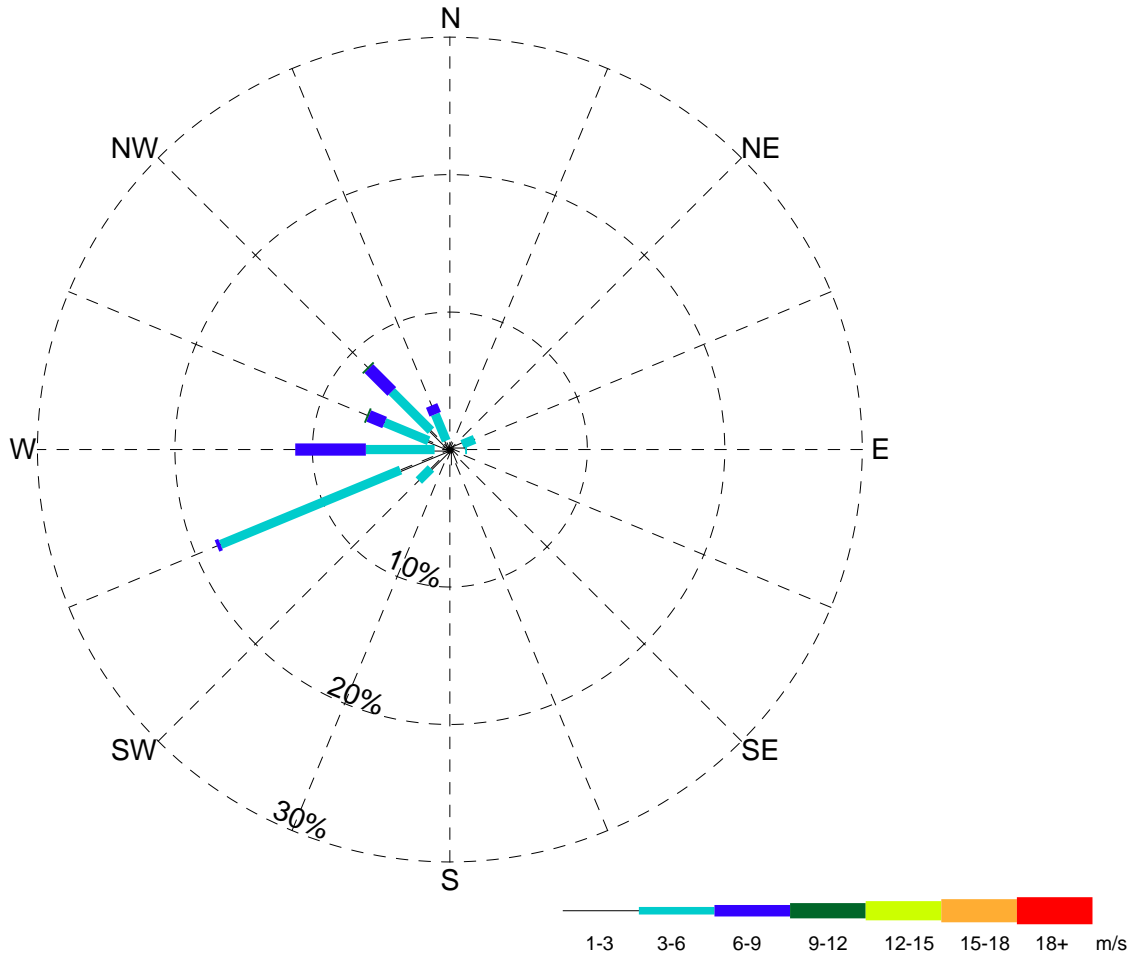
CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, May 2006

FIGURE NUMBER: **G-2.05** DATE: 20090727
 SCALE: AUTHOR: TM APPROVED BY: JAS
 PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|---------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 0.97 | 0.97 | - | - | - | - | - | 1.94 |
| NE | - | - | - | - | - | - | - | - | - |
| NNE | - | 0.56 | - | - | - | - | - | - | 0.56 |
| N | - | 0.14 | - | - | - | - | - | - | 0.14 |
| NNW | - | 0.69 | 2.08 | 0.69 | - | - | - | - | 3.47 |
| NW | - | 1.94 | 4.03 | 2.36 | 0.14 | - | - | - | 8.47 |
| WNW | - | 1.67 | 3.47 | 1.25 | 0.14 | - | - | - | 6.53 |
| W | - | 1.11 | 5.00 | 5.14 | - | - | - | - | 11.25 |
| WSW | - | 3.89 | 14.17 | 0.28 | - | - | - | - | 18.33 |
| SW | - | 1.94 | 1.25 | - | - | - | - | - | 3.19 |
| SSW | - | 0.69 | - | - | - | - | - | - | 0.69 |
| S | - | 1.11 | - | - | - | - | - | - | 1.11 |
| SSE | - | 1.11 | - | - | - | - | - | - | 1.11 |
| SE | - | 0.69 | - | - | - | - | - | - | 0.69 |
| ESE | - | 0.69 | - | - | - | - | - | - | 0.69 |
| E | - | 1.11 | 0.14 | - | - | - | - | - | 1.25 |
| Calm | 40.56 | - | - | - | - | - | - | - | 40.56 |
| Total (%) | 40.56 | 18.33 | 31.11 | 9.72 | 0.28 | - | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 30 days
 Start Date: Jun. 1, 2006
 End Date: Jun. 30, 2006
 Comment:

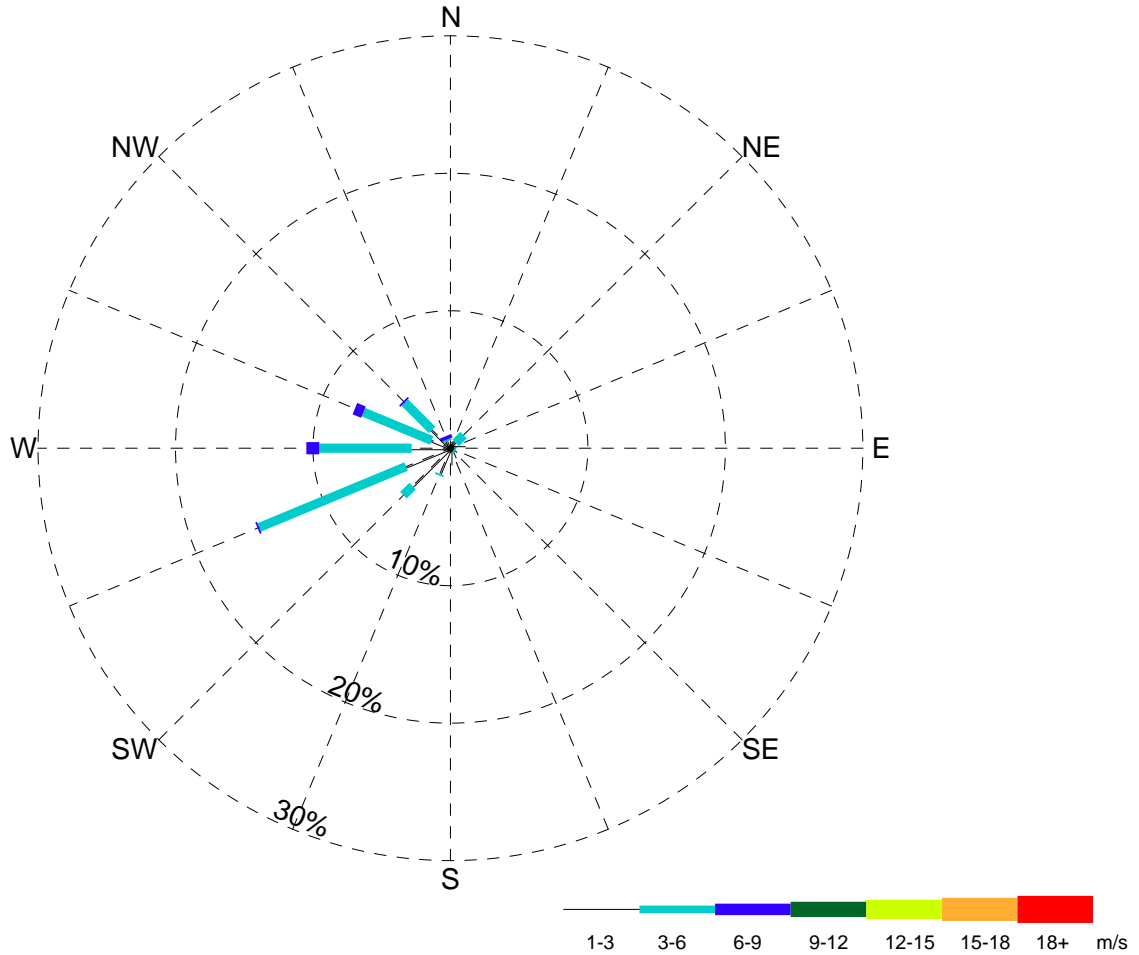
CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, June 2006

FIGURE NUMBER: **G-2.06** DATE: 20090727
 SCALE: AUTHOR: TM APPROVED BY: JAS
 PROJECT: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | Total (%) | |
|------------------|------------------------|--------------|--------------|-------------|----------|-----------|-----------|-----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | | 18+ m/s |
| ENE | - | 0.40 | - | - | - | - | - | - | 0.40 |
| NE | - | 0.54 | 0.81 | - | - | - | - | - | 1.34 |
| NNE | - | 0.40 | - | - | - | - | - | - | 0.40 |
| N | - | 0.13 | - | - | - | - | - | - | 0.13 |
| NNW | - | 0.54 | 0.13 | 0.27 | - | - | - | - | 0.94 |
| NW | - | 1.88 | 2.82 | 0.13 | - | - | - | - | 4.84 |
| WNW | - | 1.48 | 5.38 | 0.67 | - | - | - | - | 7.53 |
| W | - | 2.82 | 6.72 | 0.94 | - | - | - | - | 10.48 |
| WSW | - | 3.49 | 11.56 | 0.13 | - | - | - | - | 15.19 |
| SW | - | 3.90 | 0.94 | - | - | - | - | - | 4.84 |
| SSW | - | 2.02 | 0.13 | - | - | - | - | - | 2.15 |
| S | - | 1.21 | - | - | - | - | - | - | 1.21 |
| SSE | - | 0.81 | - | - | - | - | - | - | 0.81 |
| SE | - | 0.54 | - | - | - | - | - | - | 0.54 |
| ESE | - | 0.27 | 0.13 | - | - | - | - | - | 0.40 |
| E | - | 1.08 | - | - | - | - | - | - | 1.08 |
| Calm | 47.72 | - | - | - | - | - | - | - | 47.72 |
| Total (%) | 47.72 | 21.50 | 28.63 | 2.15 | - | - | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

Record length: 31 days

Start Date: Jul. 1, 2006

End Date: Jul. 31, 2006

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, July 2006

FIGURE NUMBER: **G-2.07**

SCALE:

PROJECTION:

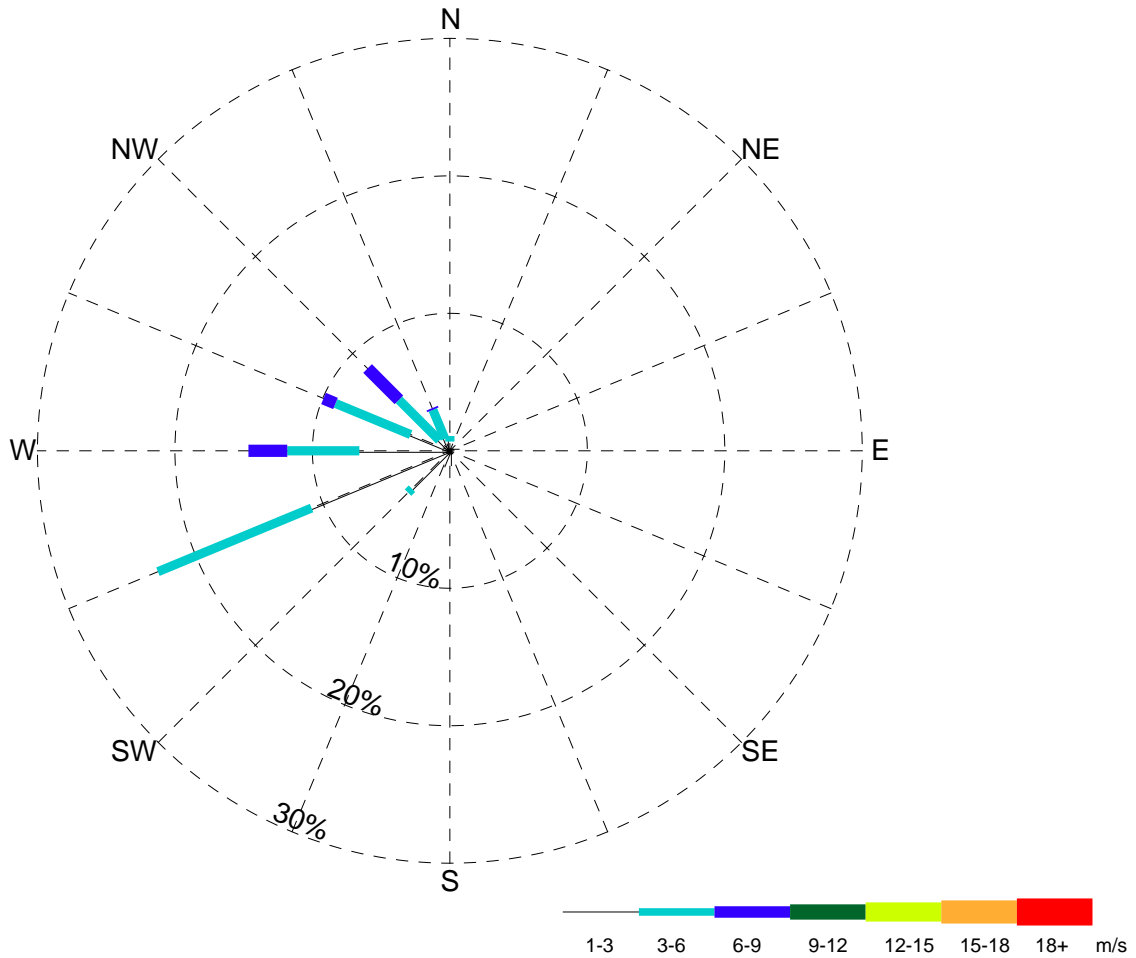
DATE: 20090727

AUTHOR: TM

APPROVED BY: JAS

DATUM:

C:\Vancouver\Drawing\Engineering\1320\13201126\13201126-1.dwg PRINTED: Jul 28, 2009



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|----------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 0.13 | - | - | - | - | - | - | 0.13 |
| NE | - | - | - | - | - | - | - | - | - |
| NNE | - | - | - | - | - | - | - | - | - |
| N | - | 0.67 | 0.40 | - | - | - | - | - | 1.08 |
| NNW | - | 0.94 | 2.29 | 0.13 | - | - | - | - | 3.36 |
| NW | - | 1.08 | 4.17 | 3.23 | - | - | - | - | 8.47 |
| WNW | - | 3.09 | 5.91 | 0.94 | - | - | - | - | 9.95 |
| W | - | 6.59 | 5.24 | 2.82 | - | - | - | - | 14.65 |
| WSW | - | 10.89 | 12.10 | - | - | - | - | - | 22.98 |
| SW | - | 3.90 | 0.40 | - | - | - | - | - | 4.30 |
| SSW | - | 1.21 | - | - | - | - | - | - | 1.21 |
| S | - | 1.08 | - | - | - | - | - | - | 1.08 |
| SSE | - | 0.27 | - | - | - | - | - | - | 0.27 |
| SE | - | - | - | - | - | - | - | - | - |
| ESE | - | - | - | - | - | - | - | - | - |
| E | - | 0.67 | - | - | - | - | - | - | 0.67 |
| Calm | 31.85 | - | - | - | - | - | - | - | 31.85 |
| Total (%) | 31.85 | 30.51 | 30.51 | 7.12 | - | - | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 31 days
 Start Date: Aug. 1, 2006
 End Date: Aug. 31, 2006
 Comment:

CONTRACTOR:
 HAY & COMPANY CONSULTANTS

PREPARED BY:

PREPARED FOR:

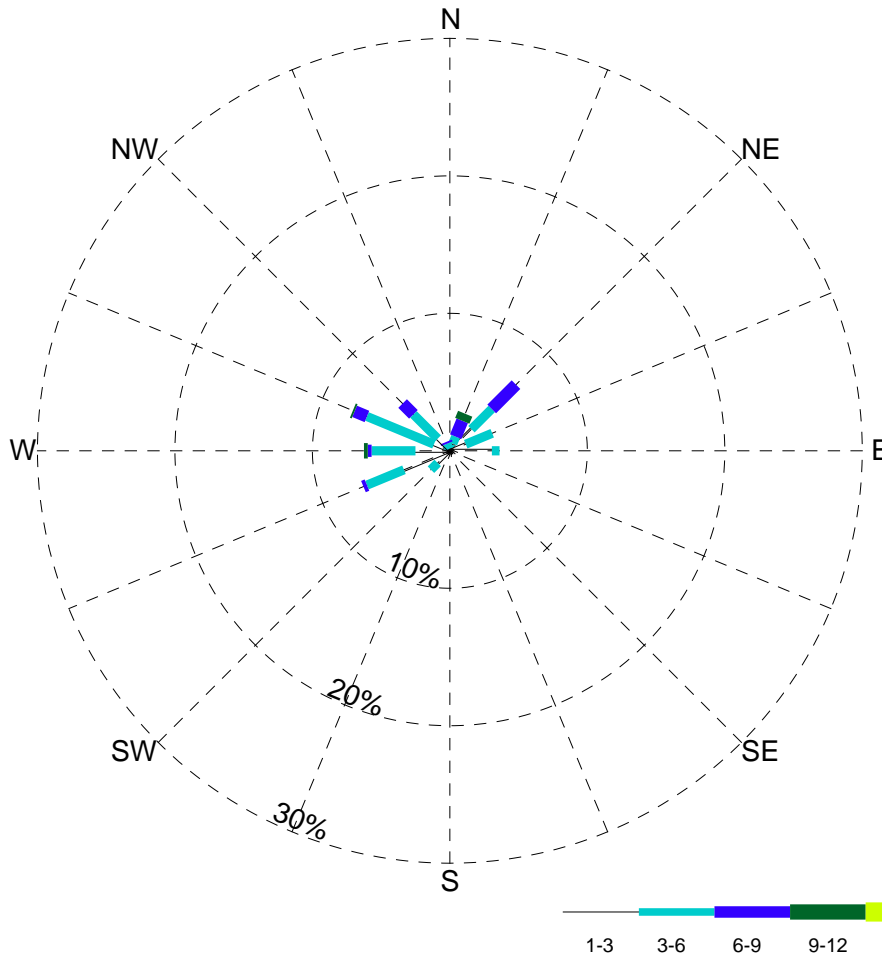
ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, August 2006

FIGURE NUMBER: **G-2.08** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 1.25 | 2.08 | - | - | - | - | - | 3.33 |
| NE | - | 2.22 | 2.08 | 2.50 | - | - | - | - | 6.81 |
| NNE | - | 0.56 | 0.56 | 1.25 | 0.56 | - | - | - | 2.92 |
| N | - | 0.28 | 0.14 | - | - | - | - | - | 0.42 |
| NNW | - | 0.14 | 0.42 | 0.14 | - | - | - | - | 0.69 |
| NW | - | 1.25 | 2.50 | 1.11 | - | - | - | - | 4.86 |
| WNW | - | 1.25 | 5.28 | 0.97 | 0.14 | - | - | - | 7.64 |
| W | - | 2.50 | 3.19 | 0.28 | 0.28 | - | - | - | 6.25 |
| WSW | - | 3.61 | 2.92 | 0.28 | - | - | - | - | 6.81 |
| SW | - | 1.25 | 0.69 | - | - | - | - | - | 1.94 |
| SSW | - | 0.56 | - | - | - | - | - | - | 0.56 |
| S | - | 0.42 | - | - | - | - | - | - | 0.42 |
| SSE | - | 0.28 | - | - | - | - | - | - | 0.28 |
| SE | - | 0.42 | - | - | - | - | - | - | 0.42 |
| ESE | - | 0.56 | - | - | - | - | - | - | 0.56 |
| E | - | 3.06 | 0.56 | - | - | - | - | - | 3.61 |
| Calm | 52.50 | - | - | - | - | - | - | - | 52.50 |
| Total (%) | 52.50 | 19.58 | 20.42 | 6.53 | 0.97 | - | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

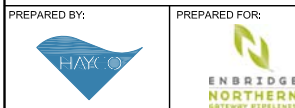
Record length: 30 days

Start Date: Sep. 1, 2006

End Date: Sep. 30, 2006

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS



ENBRIDGE NORTHERN GATEWAY PROJECT

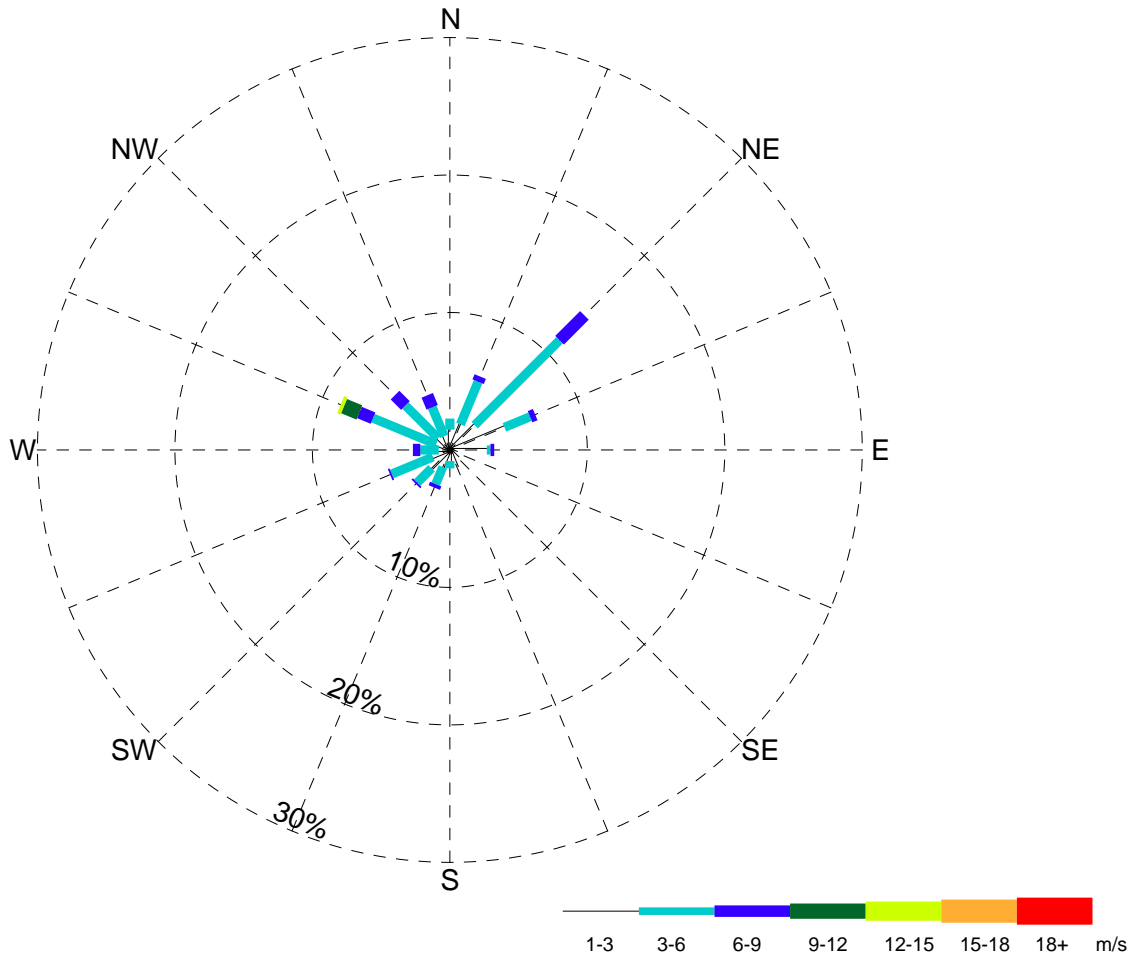
Wall Island Wind Rose, September 2006

FIGURE NUMBER:
G-2.09

DATE:
20090727

SCALE: AUTHOR: APPROVED BY:
TM JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|-------------|-------------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 4.30 | 2.02 | 0.40 | - | - | - | - | 6.72 |
| NE | - | 2.55 | 8.74 | 2.55 | - | - | - | - | 13.84 |
| NNE | - | 2.02 | 3.36 | 0.40 | - | - | - | - | 5.78 |
| N | - | 1.48 | 0.81 | - | - | - | - | - | 2.29 |
| NNW | - | 1.08 | 2.29 | 0.94 | - | - | - | - | 4.30 |
| NW | - | 1.21 | 3.36 | 1.08 | - | - | - | - | 5.64 |
| WNW | - | 1.08 | 4.97 | 1.08 | 1.21 | 0.27 | - | - | 8.60 |
| W | - | 0.81 | 1.34 | 0.54 | - | - | - | - | 2.69 |
| WSW | - | 1.34 | 3.23 | 0.13 | - | - | - | - | 4.70 |
| SW | - | 1.88 | 1.48 | 0.13 | - | - | - | - | 3.49 |
| SSW | - | 1.34 | 1.34 | 0.27 | - | - | - | - | 2.96 |
| S | - | 0.81 | 0.54 | - | - | - | - | - | 1.34 |
| SSE | - | 1.34 | - | - | - | - | - | - | 1.34 |
| SE | - | 0.81 | - | - | - | - | - | - | 0.81 |
| ESE | - | 0.54 | - | - | - | - | - | - | 0.54 |
| E | - | 2.69 | 0.27 | 0.27 | - | - | - | - | 3.23 |
| Calm | 31.72 | - | - | - | - | - | - | - | 31.72 |
| Total (%) | 31.72 | 25.27 | 33.74 | 7.80 | 1.21 | 0.27 | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

Record length: 31 days

Start Date: Oct. 1, 2006

End Date: Oct. 31, 2006

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:

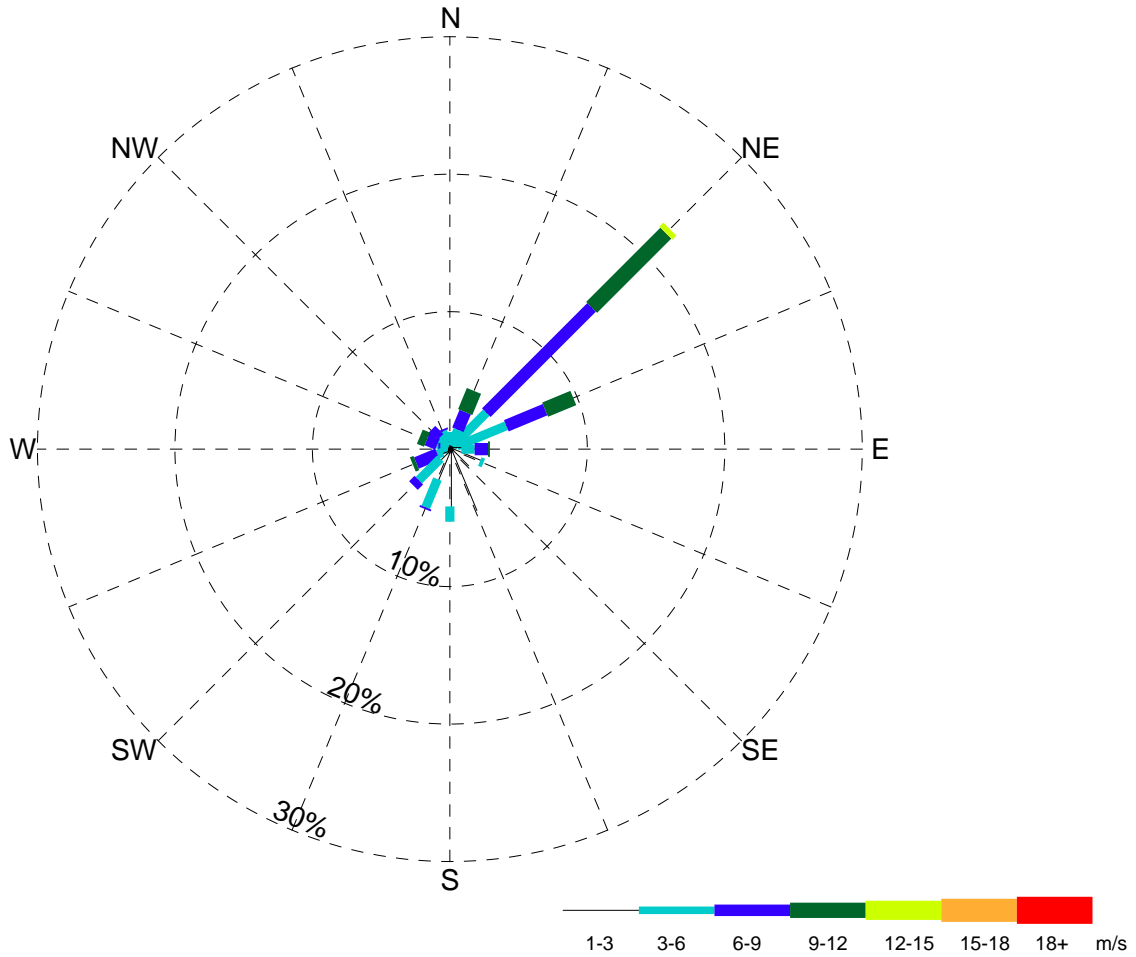

ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, October 2006

FIGURE NUMBER: **G-2.10** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|--------------|--------------|-------------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 0.56 | 3.89 | 3.06 | 2.22 | - | - | - | 9.72 |
| NE | - | 0.28 | 3.47 | 10.83 | 7.64 | 0.42 | - | - | 22.64 |
| NNE | - | 0.28 | 1.25 | 1.39 | 1.67 | - | - | - | 4.58 |
| N | - | 0.83 | 0.42 | - | - | - | - | - | 1.25 |
| NNW | - | 0.56 | 0.83 | 0.14 | - | - | - | - | 1.53 |
| NW | - | 0.28 | 0.83 | 0.83 | - | - | - | - | 1.94 |
| WNW | - | 0.14 | 0.83 | 0.83 | 0.56 | - | - | - | 2.36 |
| W | - | 0.14 | 0.56 | 0.14 | - | - | - | - | 0.83 |
| WSW | - | 0.56 | 0.42 | 1.67 | 0.28 | - | - | - | 2.92 |
| SW | - | 0.97 | 2.22 | 0.56 | - | - | - | - | 3.75 |
| SSW | - | 2.36 | 2.22 | 0.14 | - | - | - | - | 4.72 |
| S | - | 4.17 | 1.11 | - | - | - | - | - | 5.28 |
| SSE | - | 4.86 | - | - | - | - | - | - | 4.86 |
| SE | - | 1.81 | - | - | - | - | - | - | 1.81 |
| ESE | - | 2.36 | 0.28 | - | - | - | - | - | 2.64 |
| E | - | 0.83 | 0.97 | 0.97 | 0.14 | - | - | - | 2.92 |
| Calm | 26.25 | - | - | - | - | - | - | - | 26.25 |
| Total (%) | 26.25 | 20.97 | 19.31 | 20.56 | 12.50 | 0.42 | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 30 days
 Start Date: Nov. 1, 2006
 End Date: Nov. 30, 2006
 Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:

PREPARED FOR:

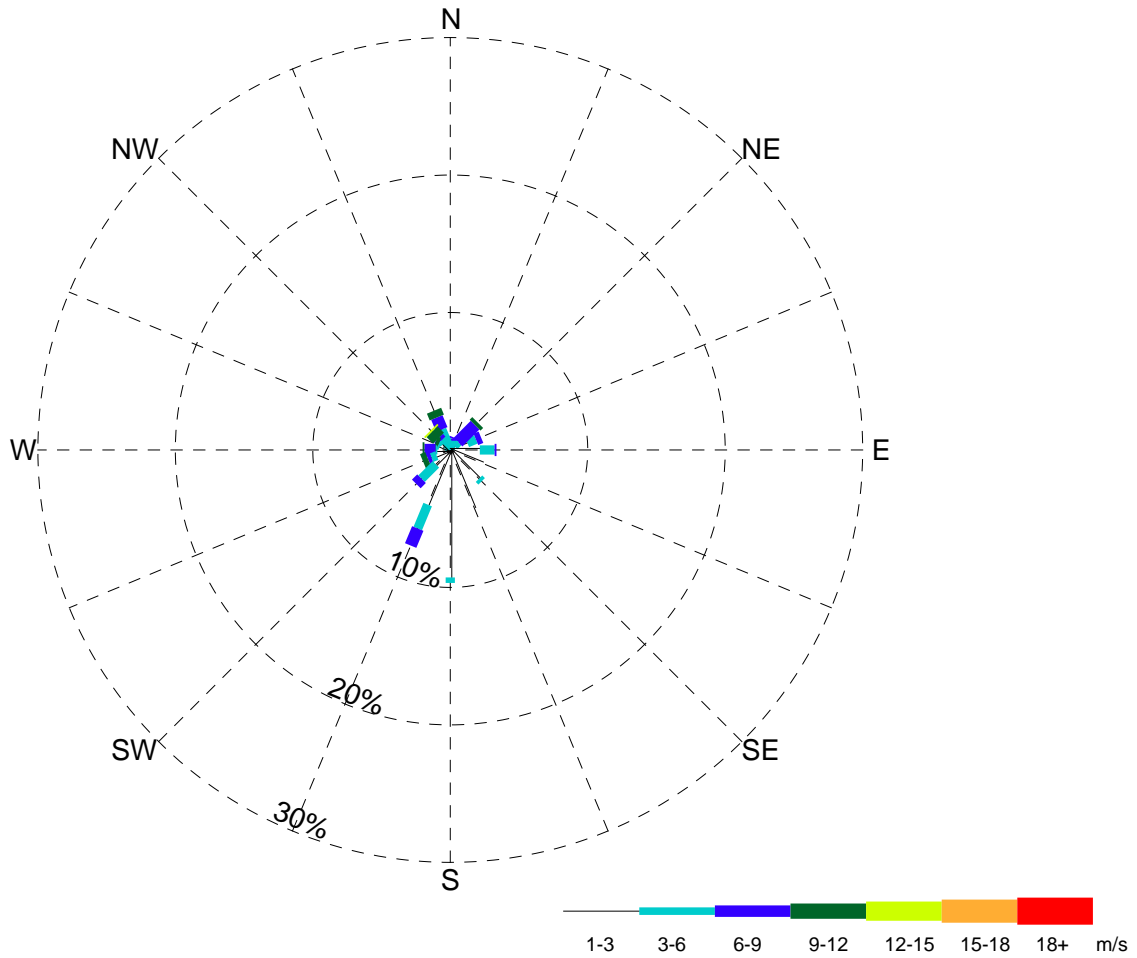
ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, November 2006

FIGURE NUMBER: **G-2.11** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|-------------|-------------|-------------|-------------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 1.34 | 0.67 | 0.40 | - | - | - | - | 2.42 |
| NE | - | 0.40 | 0.40 | 1.75 | 0.27 | - | - | - | 2.82 |
| NNE | - | 0.54 | 0.27 | 0.13 | - | - | - | - | 0.94 |
| N | - | - | 0.67 | 0.13 | - | - | - | - | 0.81 |
| NNW | - | - | 1.61 | 0.94 | 0.54 | - | - | - | 3.09 |
| NW | - | 0.67 | 0.27 | 0.27 | 0.67 | 0.13 | - | - | 2.02 |
| WNW | - | 0.81 | 0.13 | - | 0.27 | - | - | - | 1.21 |
| W | - | 0.94 | 0.13 | 0.81 | 0.13 | - | - | - | 2.02 |
| WSW | - | 1.08 | 0.40 | 0.27 | 0.40 | - | - | - | 2.15 |
| SW | - | 1.48 | 1.48 | 0.54 | - | - | - | - | 3.49 |
| SSW | - | 4.30 | 1.88 | 1.34 | - | - | - | - | 7.53 |
| S | - | 9.27 | 0.40 | - | - | - | - | - | 9.68 |
| SSE | - | 4.57 | - | - | - | - | - | - | 4.57 |
| SE | - | 2.96 | 0.27 | - | - | - | - | - | 3.23 |
| ESE | - | 2.55 | - | - | - | - | - | - | 2.55 |
| E | - | 2.15 | 1.08 | 0.13 | - | - | - | - | 3.36 |
| Calm | 48.12 | - | - | - | - | - | - | - | 48.12 |
| Total (%) | 48.12 | 33.06 | 9.68 | 6.72 | 2.29 | 0.13 | - | - | 100.00 |

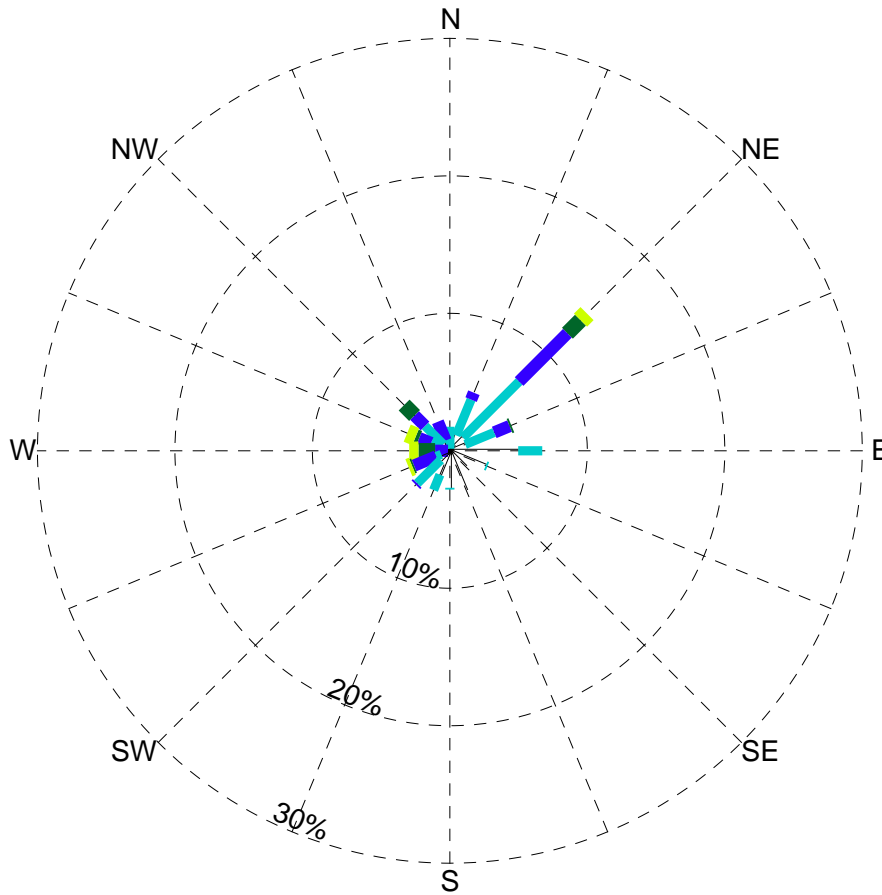
Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 31 days
 Start Date: Dec. 1, 2006
 End Date: Dec. 31, 2006
 Comment:

CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT
 Wall Island Wind Rose, December 2006

FIGURE NUMBER: **G-2.12** DATE: 20090727
 SCALE: AUTHOR: TM APPROVED BY: JAS
 PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|--------------|-------------|-------------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 1.21 | 2.29 | 1.21 | 0.13 | - | - | - | 4.84 |
| NE | - | 1.34 | 5.78 | 4.97 | 1.34 | 0.67 | - | - | 14.11 |
| NNE | - | 1.21 | 2.82 | 0.54 | - | - | - | - | 4.57 |
| N | - | 0.13 | 1.61 | - | - | - | - | - | 1.75 |
| NNW | - | 0.67 | 0.13 | 1.48 | - | - | - | - | 2.29 |
| NW | - | 0.67 | 1.88 | 1.08 | 1.08 | - | - | - | 4.70 |
| WNW | - | 0.67 | 0.81 | 0.94 | 0.27 | 0.67 | - | - | 3.36 |
| W | - | 0.13 | - | 0.94 | 1.21 | 0.67 | - | - | 2.96 |
| WSW | - | 0.67 | 0.40 | 1.75 | 0.13 | 0.27 | - | - | 3.23 |
| SW | - | 0.94 | 2.42 | 0.13 | - | - | - | - | 3.49 |
| SSW | - | 1.88 | 1.21 | - | - | - | - | - | 3.09 |
| S | - | 2.69 | 0.13 | - | - | - | - | - | 2.82 |
| SSE | - | 3.09 | - | - | - | - | - | - | 3.09 |
| SE | - | 1.61 | - | - | - | - | - | - | 1.61 |
| ESE | - | 2.82 | 0.13 | - | - | - | - | - | 2.96 |
| E | - | 4.97 | 1.75 | - | - | - | - | - | 6.72 |
| Calm | 34.41 | - | - | - | - | - | - | - | 34.41 |
| Total (%) | 34.41 | 24.73 | 21.37 | 13.04 | 4.17 | 2.29 | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

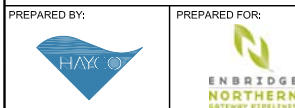
Record length: 31 days

Start Date: Jan. 1, 2007

End Date: Jan. 31, 2007

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS



ENBRIDGE NORTHERN GATEWAY PROJECT

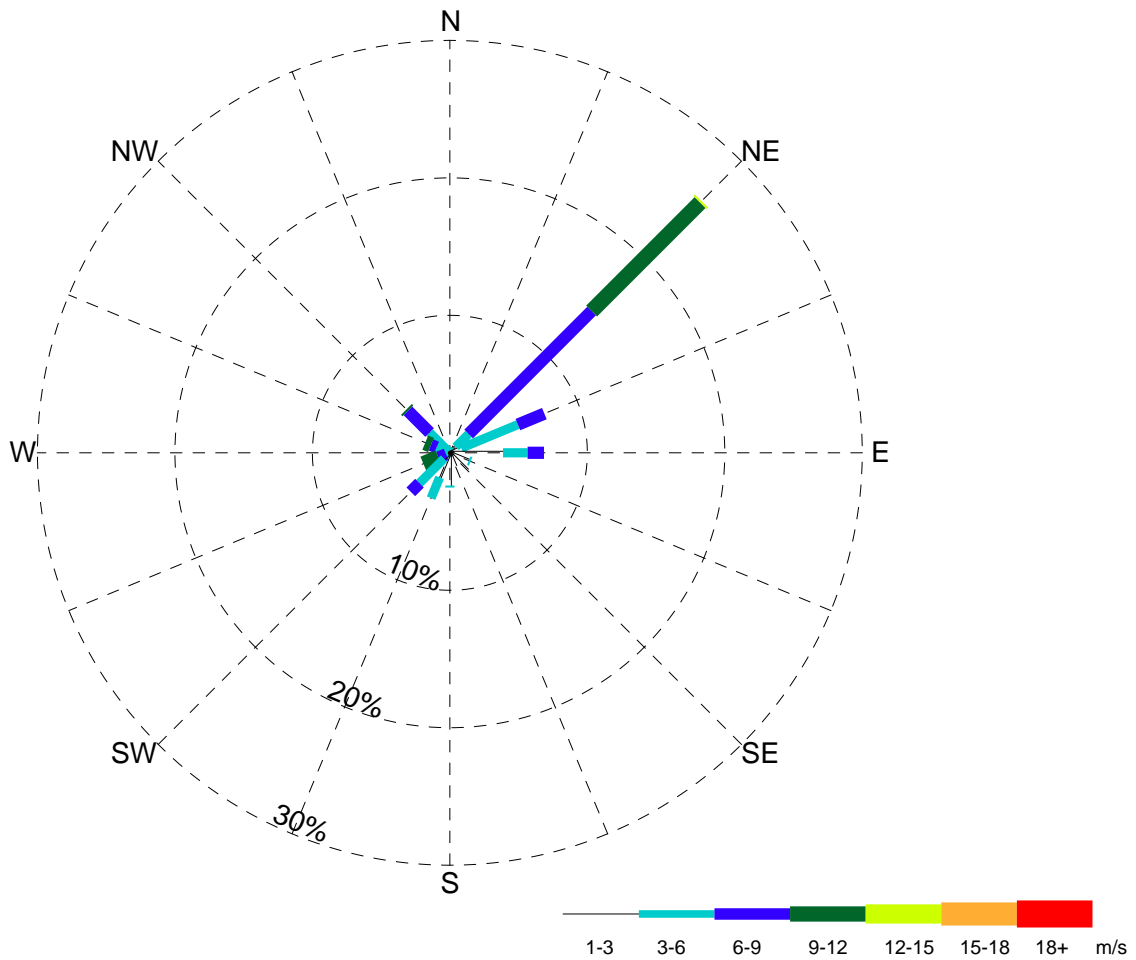
Wall Island Wind Rose, January 2007

FIGURE NUMBER:
G-2.13

DATE:
20090727

SCALE: AUTHOR: APPROVED BY:
TM JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|--------------|--------------|-------------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 0.89 | 4.46 | 2.08 | - | - | - | - | 7.44 |
| NE | - | 0.60 | 1.34 | 12.65 | 11.16 | 0.15 | - | - | 25.89 |
| NNE | - | 0.15 | - | - | - | - | - | - | 0.15 |
| N | - | - | - | - | - | - | - | - | - |
| NNW | - | 0.15 | 0.15 | - | - | - | - | - | 0.30 |
| NW | - | 0.15 | 1.93 | 2.23 | 0.15 | - | - | - | 4.46 |
| WNW | - | 0.30 | 0.74 | 0.45 | 0.45 | - | - | - | 1.93 |
| W | - | 0.15 | 0.74 | - | - | - | - | - | 0.89 |
| WSW | - | 0.15 | 0.15 | 0.60 | 1.19 | - | - | - | 2.08 |
| SW | - | 0.60 | 2.53 | 0.89 | - | - | - | - | 4.02 |
| SSW | - | 1.93 | 1.64 | - | - | - | - | - | 3.57 |
| S | - | 2.38 | 0.15 | - | - | - | - | - | 2.53 |
| SSE | - | 1.04 | - | - | - | - | - | - | 1.04 |
| SE | - | 1.79 | - | - | - | - | - | - | 1.79 |
| ESE | - | 1.49 | 0.15 | - | - | - | - | - | 1.64 |
| E | - | 3.87 | 1.79 | 1.19 | - | - | - | - | 6.84 |
| Calm | 35.42 | - | - | - | - | - | - | - | 35.42 |
| Total (%) | 35.42 | 15.62 | 15.77 | 20.09 | 12.95 | 0.15 | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower
 Record length: 28 days
 Start Date: Feb. 1, 2007
 End Date: Feb. 28, 2007
 Comment:

CONTRACTOR:
 HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:

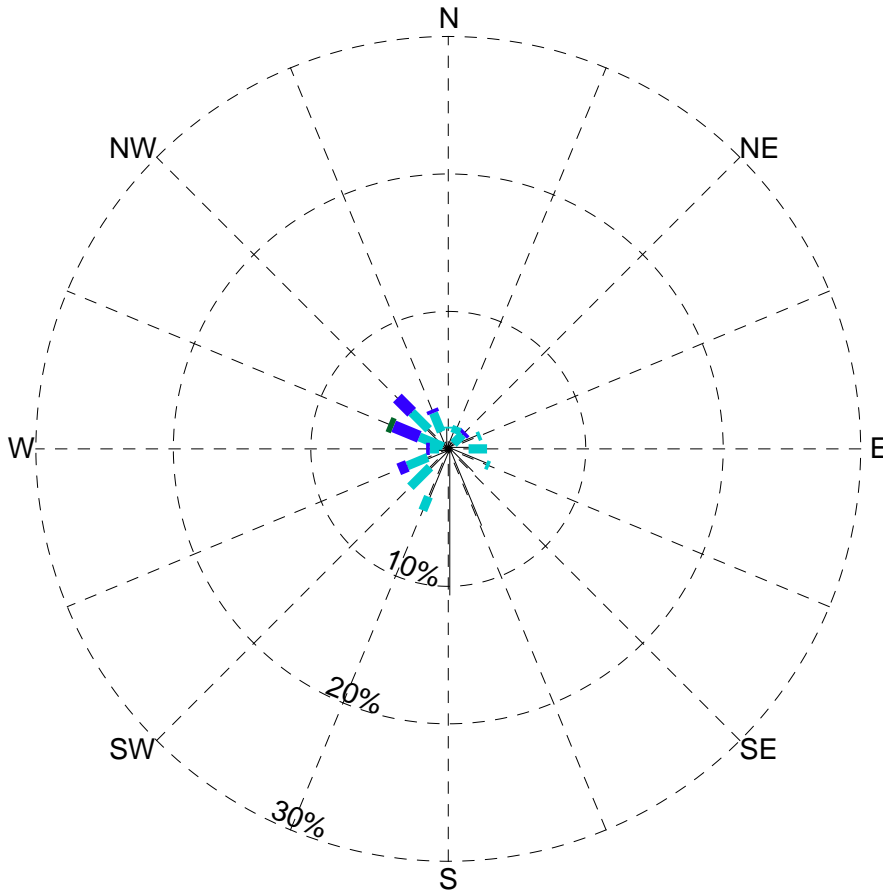

ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, February 2007

FIGURE NUMBER: **G-2.14** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 2.29 | 0.27 | - | - | - | - | - | 2.55 |
| NE | - | 0.54 | 0.94 | 0.27 | - | - | - | - | 1.75 |
| NNE | - | 1.21 | 0.54 | - | - | - | - | - | 1.75 |
| N | - | 1.48 | 0.13 | - | - | - | - | - | 1.61 |
| NNW | - | 1.34 | 1.48 | 0.27 | - | - | - | - | 3.09 |
| NW | - | 2.02 | 1.75 | 1.48 | - | - | - | - | 5.24 |
| WNW | - | 0.40 | 1.88 | 2.02 | 0.40 | - | - | - | 4.70 |
| W | - | 0.67 | 0.67 | 0.27 | - | - | - | - | 1.61 |
| WSW | - | 1.61 | 1.61 | 0.67 | - | - | - | - | 3.90 |
| SW | - | 1.88 | 2.02 | - | - | - | - | - | 3.90 |
| SSW | - | 3.76 | 1.08 | - | - | - | - | - | 4.84 |
| S | - | 10.62 | - | - | - | - | - | - | 10.62 |
| SSE | - | 6.05 | - | - | - | - | - | - | 6.05 |
| SE | - | 2.42 | - | - | - | - | - | - | 2.42 |
| ESE | - | 2.96 | 0.27 | - | - | - | - | - | 3.23 |
| E | - | 1.48 | 1.34 | - | - | - | - | - | 2.82 |
| Calm | 39.92 | - | - | - | - | - | - | - | 39.92 |
| Total (%) | 39.92 | 40.73 | 13.98 | 4.97 | 0.40 | - | - | - | 100.00 |

Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 31 days
 Start Date: Mar. 1, 2007
 End Date: Mar. 31, 2007
 Comment:

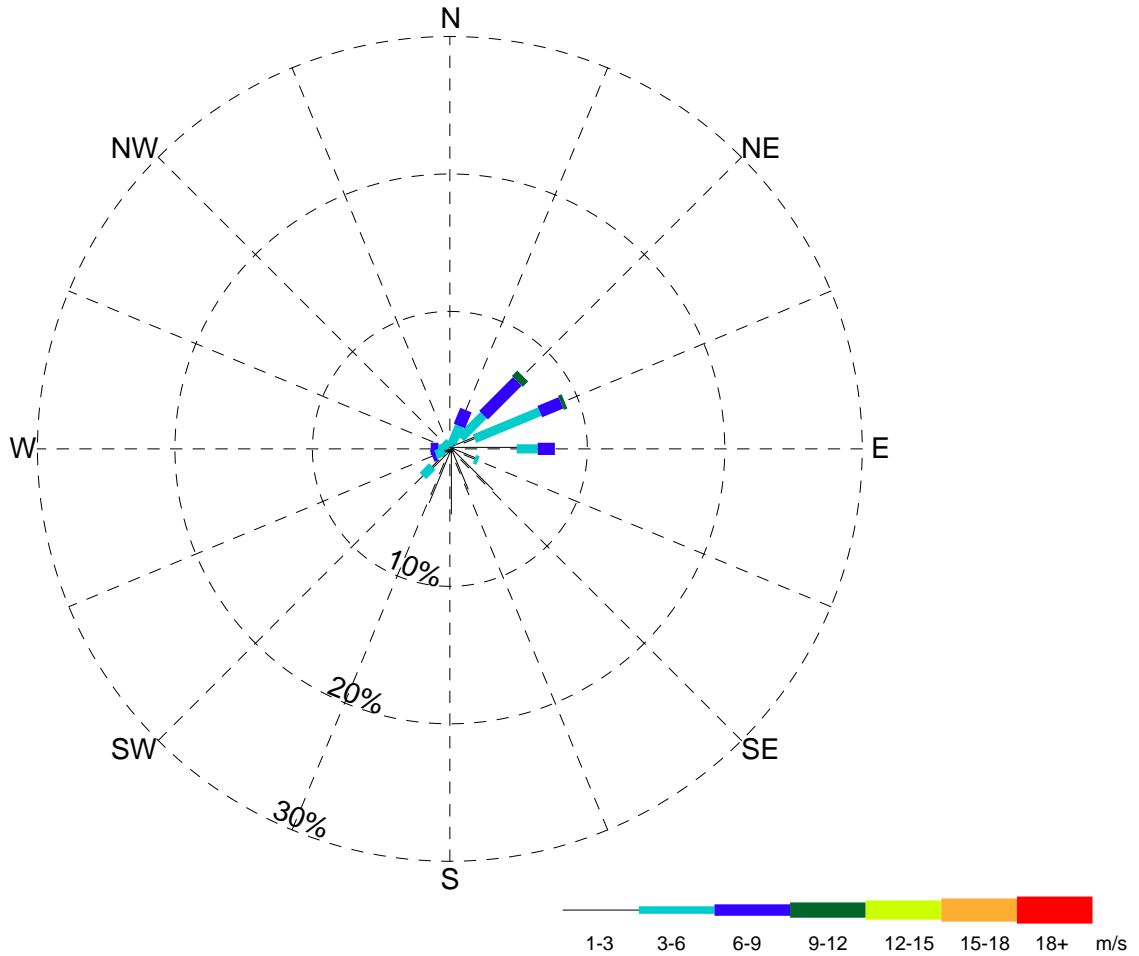
CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:

 PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, March 2007

FIGURE NUMBER: **G-2.15** DATE: 20090727
 SCALE: AUTHOR: TM APPROVED BY: JAS
 PROJECT: DATUM:



Station Name: Wall Islands
 NAD 27 Location:
 N52° 51' 37.7" W129° 20' 44.8"
 Elev. above SL: 10 m
 Tower height: 10 m
 Record length: 30 days
 Start Date: Apr. 1, 2007
 End Date: Apr. 30, 2007
 Comment:

Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | Total (%) | |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|-----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | | 18+ m/s |
| ENE | - | 1.94 | 5.14 | 1.67 | 0.28 | - | - | - | 9.03 |
| NE | - | 1.11 | 2.36 | 3.47 | 0.56 | - | - | - | 7.50 |
| NNE | - | 0.42 | 1.39 | 1.25 | - | - | - | - | 3.06 |
| N | - | - | 0.14 | - | - | - | - | - | 0.14 |
| NNW | - | - | 0.42 | - | - | - | - | - | 0.42 |
| NW | - | 0.14 | 0.56 | - | - | - | - | - | 0.69 |
| WNW | - | 0.14 | 0.14 | - | - | - | - | - | 0.28 |
| W | - | 0.56 | 0.28 | 0.56 | - | - | - | - | 1.39 |
| WSW | - | 0.42 | 0.69 | 0.28 | - | - | - | - | 1.39 |
| SW | - | 1.81 | 0.97 | - | - | - | - | - | 2.78 |
| SSW | - | 4.17 | - | - | - | - | - | - | 4.17 |
| S | - | 4.72 | - | - | - | - | - | - | 4.72 |
| SSE | - | 3.19 | - | - | - | - | - | - | 3.19 |
| SE | - | 4.31 | - | - | - | - | - | - | 4.31 |
| ESE | - | 1.94 | 0.28 | - | - | - | - | - | 2.22 |
| E | - | 4.86 | 1.53 | 1.25 | - | - | - | - | 7.64 |
| Calm | 47.08 | - | - | - | - | - | - | - | 47.08 |
| Total (%) | 47.08 | 29.72 | 13.89 | 8.47 | 0.83 | - | - | - | 100.00 |

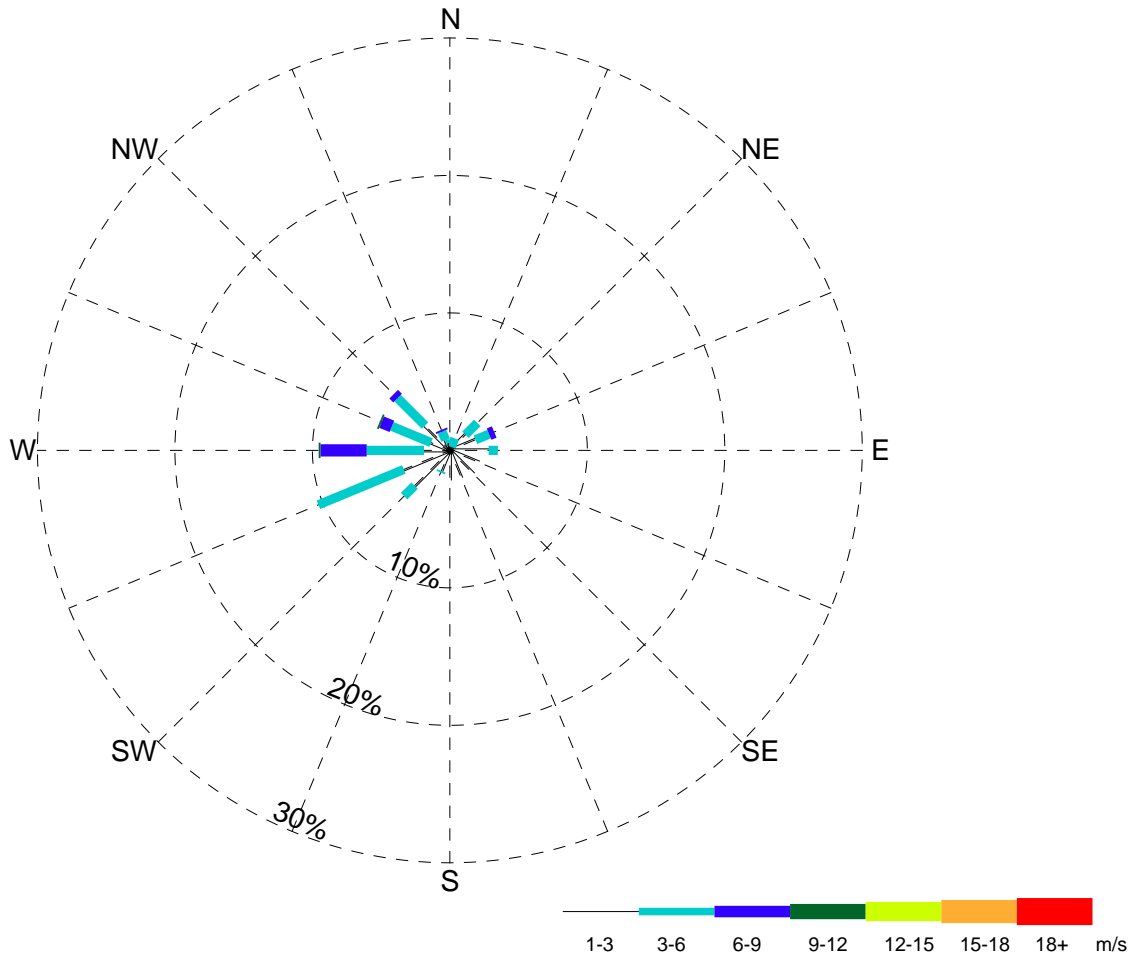
CONTRACTOR:
 HAY & COMPANY CONSULTANTS
 PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, April 2007

FIGURE NUMBER: **G-2.16**
 DATE: 20090727
 SCALE:
 AUTHOR: TM
 APPROVED BY: JAS
 PROJECTION:
 DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 2.02 | 1.08 | 0.40 | - | - | - | - | 3.49 |
| NE | - | 1.61 | 1.21 | - | - | - | - | - | 2.82 |
| NNE | - | 0.27 | 0.67 | - | - | - | - | - | 0.94 |
| N | - | 0.54 | 0.27 | - | - | - | - | - | 0.81 |
| NNW | - | 0.81 | 0.67 | 0.13 | - | - | - | - | 1.61 |
| NW | - | 2.55 | 2.82 | 0.40 | - | - | - | - | 5.78 |
| WNW | - | 1.48 | 3.09 | 0.81 | 0.13 | - | - | - | 5.51 |
| W | - | 1.88 | 4.17 | 3.36 | 0.13 | - | - | - | 9.54 |
| WSW | - | 3.63 | 6.72 | - | - | - | - | - | 10.35 |
| SW | - | 3.63 | 1.08 | - | - | - | - | - | 4.70 |
| SSW | - | 1.61 | 0.13 | - | - | - | - | - | 1.75 |
| S | - | 2.15 | - | - | - | - | - | - | 2.15 |
| SSE | - | 2.15 | - | - | - | - | - | - | 2.15 |
| SE | - | 2.42 | - | - | - | - | - | - | 2.42 |
| ESE | - | 2.29 | - | - | - | - | - | - | 2.29 |
| E | - | 2.82 | 0.67 | - | - | - | - | - | 3.49 |
| Calm | 40.19 | - | - | - | - | - | - | - | 40.19 |
| Total (%) | 40.19 | 31.85 | 22.58 | 5.11 | 0.27 | - | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

Record length: 31 days

Start Date: May 1, 2007

End Date: May 31, 2007

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:

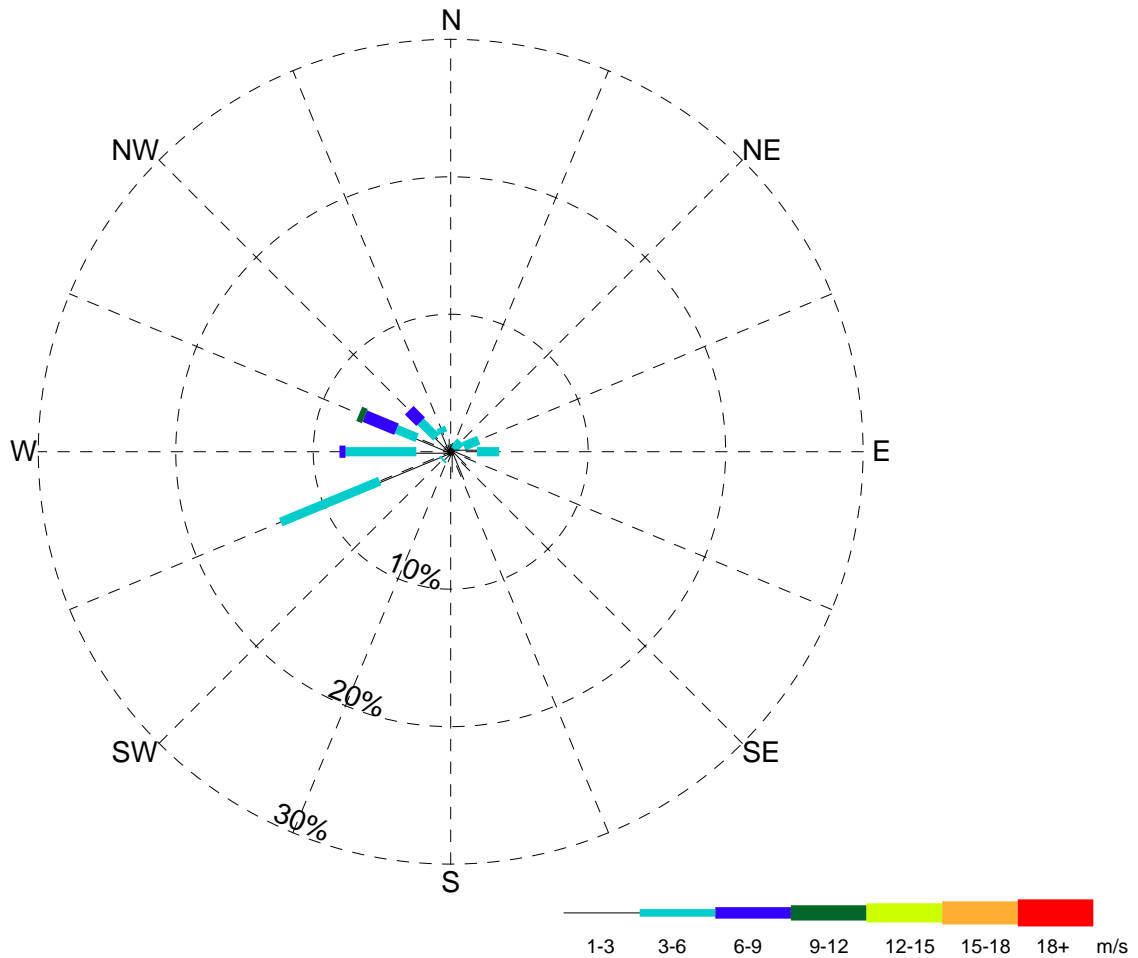

ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, May 2007

FIGURE NUMBER: **G-2.17** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM:



Wind Speed & Direction Frequency Distribution Table

| Direction | Percent Occurrence (%) | | | | | | | | Total (%) |
|------------------|------------------------|--------------|--------------|-------------|-------------|-----------|-----------|----------|---------------|
| | 0-1 m/s | 1-3 m/s | 3-6 m/s | 6-9 m/s | 9-12 m/s | 12-15 m/s | 15-18 m/s | 18+ m/s | |
| ENE | - | 1.03 | 1.18 | - | - | - | - | - | 2.21 |
| NE | - | 0.29 | 0.74 | - | - | - | - | - | 1.03 |
| NNE | - | 0.59 | - | - | - | - | - | - | 0.59 |
| N | - | 0.88 | - | - | - | - | - | - | 0.88 |
| NNW | - | 1.47 | 0.44 | - | - | - | - | - | 1.91 |
| NW | - | 1.47 | 1.62 | 1.18 | - | - | - | - | 4.26 |
| WNW | - | 2.65 | 1.62 | 2.50 | 0.44 | - | - | - | 7.21 |
| W | - | 2.50 | 5.15 | 0.44 | - | - | - | - | 8.09 |
| WSW | - | 5.59 | 7.79 | - | - | - | - | - | 13.38 |
| SW | - | 0.74 | 0.15 | - | - | - | - | - | 0.88 |
| SSW | - | 0.74 | - | - | - | - | - | - | 0.74 |
| S | - | 1.47 | - | - | - | - | - | - | 1.47 |
| SSE | - | 2.21 | - | - | - | - | - | - | 2.21 |
| SE | - | 1.47 | - | - | - | - | - | - | 1.47 |
| ESE | - | 1.47 | - | - | - | - | - | - | 1.47 |
| E | - | 1.91 | 1.62 | - | - | - | - | - | 3.53 |
| Calm | 48.68 | - | - | - | - | - | - | - | 48.68 |
| Total (%) | 48.68 | 26.47 | 20.29 | 4.12 | 0.44 | - | - | - | 100.00 |

Station Name: Wall Islands

NAD 27 Location:

N52° 51' 37.7" W129° 20' 44.8"

Elev. above SL: 10 m

Tower height: 10 m

Record length: 29 days

Start Date: Jun. 1, 2007

End Date: Jun. 29, 2007

Comment:

CONTRACTOR:
HAY & COMPANY CONSULTANTS

PREPARED BY:


PREPARED FOR:


ENBRIDGE NORTHERN GATEWAY PROJECT

Wall Island Wind Rose, June 2007

FIGURE NUMBER: **G-2.18** DATE: 20090727

SCALE: AUTHOR: TM APPROVED BY: JAS

PROJECTION: DATUM: