THE pebble PARTNERSHIP

Pre-Permitting Environmental/ Socio-Economic Data Report Series

Report Series A-Meteorology

Report A-7
First Annual Data Report – Pebble Port Station

August 2005 – July 2006
Submitted to the Alaska Department of Environmental Conservation March 2008

Preliminary data. Do not cite or quote.

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.

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Pebble Port Station
First Annual Data Report
August 2005 - July 2006

for the

Pebble Project
Meteorological Monitoring Program

Iliamna, Alaska

Pebble Project
NORTHERN DYNASTY MINES INC.

prepared for

Northern Dynasty Mines Inc.

December 2006

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Executive Summary

On behalf of Northern Dynasty Mines Inc. (NDM), Hoefler Consulting Group (HCG) is collecting meteorological data to support baseline environmental studies, mine design objectives, and air quality permitting needs for the Pebble Project.

Prevention of Significant Deterioration- (PSD)-quality meteorological monitoring for the Pebble Project began on August 1, 2005 and will continue at least through July 31, 2007. This report provides details of the first full year of meteorological measurements collected from August 1, 2005 through July 31, 2006 at the proposed port location.

Table E-1 and E-2 provide monthly and annual valid data capture hours and the percent data capture, respectively, for the Pebble Port meteorological monitoring station.

Table E-3 provides items and procedures that differ from the Pebble Project Quality Assurance Project Plan (QAPP).

Table E-1. Meteorological Data Capture – Valid Hours per Month

Period	Meteorological Parameters											
	2-m Temp	10-m Temp	Δ T	WS (CLM)[1]	WD (CLM)	Sigma (CLM)	WS (RMY)[2]	WD (RMY)	Sigma (RMY)	RH	Solar	BP
August 2005	656	740	656	744	744	744	744	744	744	739	744	744
September 2005	720	720	720	720	720	720	720	720	720	682	720	720
October 2005	744	744	744	744	744	744	744	744	744	744	744	744
November 2005	720	720	720	720	720	720	720	720	720	720	716	720
December 2005	744	744	744	744	744	744	744	744	744	744	740	744
January 2006	740	740	740	740	739[3]	739	740	740	740	744	744	744
February 2006	649	649	649	670	670[3]	670	670	670	670	672	672	672
March 2006	744	744	744	740	659	659	744	744	744	744	744	744
April 2006	720	720	720	716	720	720	720	720	720	720	720	720
May 2006	744	744	744	744	744	744	744	744	744	744	744	744
June 2006	720	720	720	720	720	720	720	720	720	720	720	720
July 2006	744	744	744	744	744	744	744	744	744	744	744	744
Monitoring Year	8,645	8,729	8,645	8,746	8,668	8,668	8,754	8,754	8,754	8,717	8,752	8,760

[1]CLM = Climatronics wind speed and wind direction sensor.
[2]RMY = R.M. Young wind speed and wind direction sensor.
[3] Data capture value includes data corrected and flagged according to the recommendations in *Meteorological Monitoring Guidance for Regulatory Modeling Applications*, Section 8-6 and Table 8-3 (EPA-454/R-99-005).

Table E-2. Meteorological Data Capture – Percent Data Capture

Period	Meteorological Parameters											
	2-m Temp	10-m Temp	Δ T	WS (CLM)[1]	WD (CLM)	Sigma (CLIM)	WS (RMY)[2]	WD (RMY)	Sigma (RMY)	RH	Solar	BP
August 2005	88.2%	99.5%	88.2%	100%	100%	100%	100%	100%	100%	99.3%	100%	100%
September 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	94.7%	100%	100%
October 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Quarter A	**96.0%**	**99.8%**	**96.0%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**98.1%**	**100%**	**100%**
November 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99.4%	100%
December 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99.5%	100%
January 2006	99.5%	99.5%	99.5%	99.5%	99.3%[3]	99.3%	99.5%	99.5%	99.5%	100%	100%	100%
Quarter B	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%[3]**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**100%**	**99.6%**	**100%**
February 2006	96.6%	96.6%	96.6%	99.7%	99.7%[3]	99.7%	99.7%	99.7%	99.7%	100%	100%	100%
March 2006	100%	100%	100%	99.5%	88.6%	88.6%	100%	100%	100%	100%	100%	100%
April 2006	100%	100%	100%	99.4%	100%	100%	100%	100%	100%	100%	100%	100%
Quarter C	**98.9%**	**98.9%**	**98.9%**	**99.5%**	**95.9%**	**95.9%**	**99.9%**	**99.9%**	**99.9%**	**100%**	**100%**	**100%**
May 2006	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
June 2006	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
July 2006	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Quarter D	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Monitoring Year	**98.7%**	**99.6%**	**98.7%**	**99.8%**	**98.9%**	**98.9%**	**99.9%**	**99.9%**	**99.9%**	**99.5%**	**99.9%**	**100%**

[1]CLM = Climatronics wind speed and wind direction sensor.
[2]RMY = R.M. Young wind speed and wind direction sensor.
[3] Data capture value includes data corrected and flagged according to the recommendations in *Meteorological Monitoring Guidance for Regulatory Modeling Applications*, Section 8-6 and Table 8-3 (EPA-454/R-99-005).

Table E-3. Pebble Project QAPP Variation Table

Item/Procedure	Variation	Reason for Variation
An accuracy performance evaluation will be conducted within 30 days of site startup.	The performance evaluation was conducted within 35 days of site startup.	A faulty sensor delayed startup by 30 days. The delay had no effect on collected data as all sensors passed performance audits conducted during and after the monitoring year.

1.0 Introduction

1.1 Project Summary

On behalf of Northern Dynasty Mines Inc. (NDM), Hoefler Consulting Group (HCG) is collecting meteorological data to support baseline environmental studies, mine design objectives, and future air quality permitting needs for the Pebble Project. This meteorological monitoring program currently consists of three PSD-quality meteorological monitoring stations located at the proposed mill site (Pebble 1), the tailings storage facility (Pebble 4), and port site (Pebble Port). An additional, non-PSD meteorological monitoring station (Pebble 3) is located near the tailings storage facility and is collecting data for engineering and mine design purposes. Of the three PSD-quality meteorological monitoring stations, continuous measurements were made at the Pebble 1 and Pebble Port stations from August 1, 2005 through July 31, 2006, which concluded the first monitoring year of the meteorological monitoring program. Pebble 4 became operational on August 1, 2006, at the start of the second monitoring year.

Separate annual data reports have been prepared for both of the Pebble 1 and Pebble Port stations. This data report exclusively addresses the first year of measurements made at the Pebble Port station.

Figure 1-1 is a map of the Pebble Project meteorological monitoring sites in southwest Alaska. Figures 1-2 and 1-3 provide a higher resolution map and photograph, respectively, of the Pebble Port station.

The Pebble Port station collects data for the following meteorological parameters:

- Air temperature, two meters above ground level (degrees Celsius [°C])
- Air temperature, ten meters above ground level (degrees Celsius [°C])
- Temperature difference (ΔT, “Delta T” (degrees Celsius [°C]))
- Wind speed (meters per second [m/s])
- Wind direction (degrees [°])
- Wind direction standard deviation (wind sigma [σ_θ])
- Relative humidity (percent [%])
- Solar radiation (Watts per square meter [W/m^2])
- Barometric Pressure (millibar [mb]).

Measurements of these parameters will provide at least two years of representative surface observations for use in air dispersion modeling and for future air quality permitting.

1.2 Measurements Method Table

Table 1-1 lists each parameter measured at the Pebble Port station and includes the sensor manufacturer and model number, measurement range, accuracy, sampling frequency, and sample averaging period. All instruments meet or exceed the U.S. Environmental Protection Agency (EPA) PSD requirements for range accuracies, thresholds, response times, resolutions, damping ratios, and other measures of instrument performance. For this project, wind speed and wind direction measurements are collected using two different types of PSD-quality sensors collocated at 10-meters above ground level. The Climatronics F460 (CLM) features a three-cup anemometer and separate wind vane while the RM Young 05305-AQ (RMY) is a propeller-vane anemometer, which is a single unit consisting of a four-blade propeller fitted to the front end of a wind vane. Deploying two separate wind sensors at the Pebble Port PSD station serves primarily to prevent the loss of valid data in the event that one of the sensors is damaged or subjected to inclement weather conditions, such as icing. Because the manufacturers' stated wind speed accuracy, wind direction accuracy, and wind speed threshold values of the CLM sensor are better than those of the RMY sensor, the CLM sensor has been designated as the "primary" wind instrument for the Pebble Port station.

1.3 Variations from the Quality Assurance Project Plan

During the first monitoring year, there was one variation from the Pebble Project Meteorological Monitoring Quality Assurance Project Plan (QAPP).

The initial performance audit for the Pebble Port station was conducted on June 25, 2005 which is slightly more than thirty days prior to the monitoring period. At the time of this audit it was envisioned that monitoring period would start on July 1, 2005. However, due to a temperature sensor problem that was corrected on August 4, 2005, it was later decided to start the monitoring period on August 1, 2005 (rather than July 1, 2005). This later start to the monitoring year has no effect on collected data, as all performance audits (before, during, and after the monitoring year) passed. For a discussion of audits performed on the Pebble Port station, see Section 2.5.2 and Appendix C of this data report.

Table 1-1. Meteorological Measurement Methods

Parameter	Sensor Manufacturer/ Model Number	Measurement Method	Range	Accuracy	Sampling Frequency	Averaging Period
Ambient Temperature	Met One, Inc. Model 062 MP	Solid state thermistor	+50°C to -50°C	± 0.05°C	1 second	1 hour
Wind Speed[1]	Climatronics, Inc. F460 (P/N 100075)	Three-cup anemometer, LED photo chopper	0 to 65 m/s	± 0.15 m/s or 1%	1 second	1 hour
Wind Direction[1]	Climatronics, Inc. F460 (P/N 100076)	Light-weight vane, Low torque potentiometer	0 to 360°	± 2°	1 second	1 hour
Wind Speed[1]	RM Young Co. 05305-AQ	Propeller, magnetically induced AC sine wave	0 to 40 m/s	± 0.2 m/s or 1%	1 second	1 hour
Wind Direction[1]	RM Young Co. 05305-AQ	Light-weight vane, Low torque potentiometer	0 to 360°	± 3°	1 second	1 hour
Relative Humidity	Vaisala, Inc. HMP 45C	Capacitive polymer chip	0.8 to 100%	± 2%	1 second	1 hour
Solar Radiation	LI-COR, Inc. LI-200	Silicon photovoltaic detector	0 to 3,000 W/m^2 (400 to 1,100 nm)	± 5%	1 second	1 hour
Barometric Pressure	Vaisala, Inc. PTB 101B	Silicon capacitive sensor	600 to 1060 mb	± 0.5 mb	1 hour[2]	N/A[2]

[1]Wind speed and wind direction measurements are collected using two different types of PSD-quality sensors.

[2]Instantaneous barometric pressure measurements are collected for 1 second during every hour.

Figure 1-1. Map of the Pebble Project Area

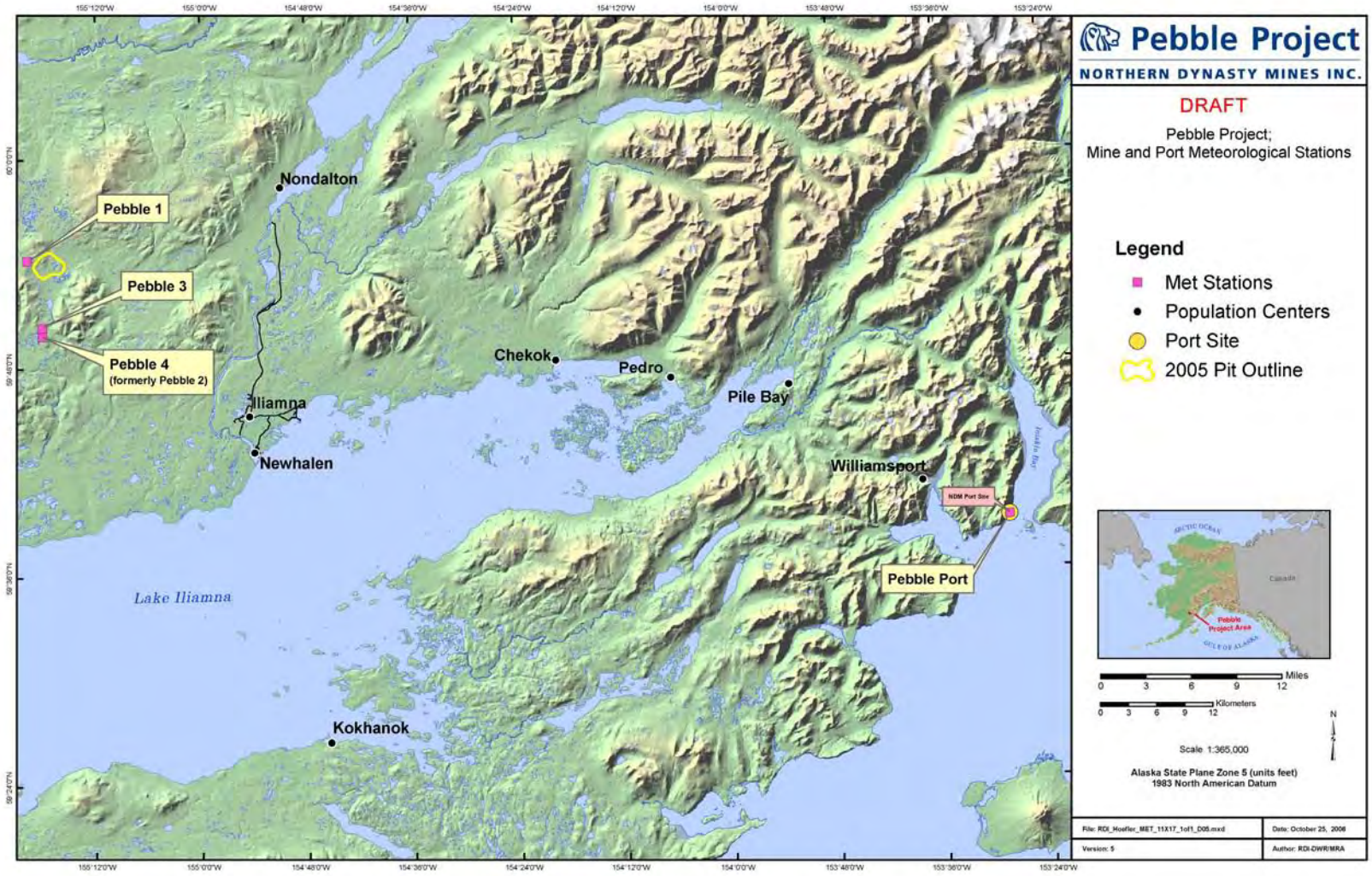


Figure 1-2. Map of the Pebble Port Station

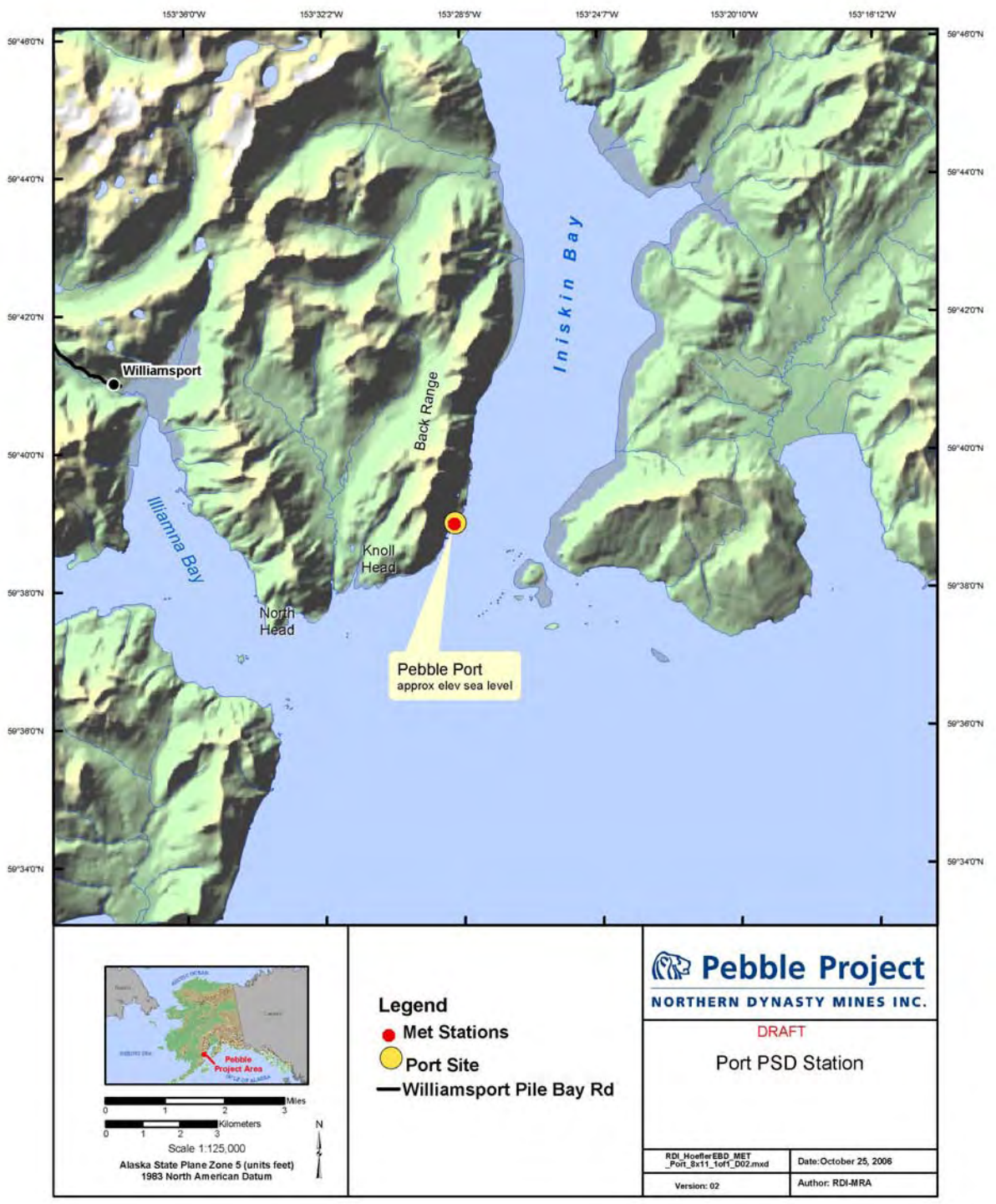


Figure 1-3. Pebble Port Meteorological Monitoring Station

2.0 Station Performance Summary

2.1 Significant Project Events

Table 2-1 summarizes the significant events that occurred at the Pebble Port station relevant to the first year of meteorological monitoring.

Table 2-1. Chronology of Events

Date	Event
June 21-25, 2005	Initial site installation and setup.
June 25, 2005	Initial systems performance audit and calibration.
July 19, 2005	Systems audit.
August 1, 2005	Start of the first meteorological monitoring year.
August 4, 2005	Maintenance and temporary rewiring of the 2-m and 10-m temperature sensors.
August 21, 2005	Permanent rewiring and calibration of the 2-m and 10-m temperature sensors.
September 24 - 25, 2005	Water damage to RH sensor. Maintenance and calibration successfully performed to repair sensor.
January 16, 2006	Semi-annual performance audit.
January 22, 2006	Storm up-ends station shelter and alters the alignment of the Climatronics wind direction sensor.
January 29, 2006	First visual confirmation that station shelter had been up-ended during storm on January 22, 2006.
February 8, 2006	Port shelter righted and visually inspected for damages.
February 10, 2006	Calibration and audit of wind sensors. Climatronics wind direction sensor was found to be out of alignment from the January 22, 2006 storm, was recalibrated, and passed a second audit.
July 31, 2006	Completion of the first meteorological monitoring year.
August 21, 2006	Second annual systems performance audit and calibration.

2.2 Missing, Invalid, and Adjusted Data

The data collected at the Pebble Port station were carefully reviewed during the quality assurance process. Some data were removed as a result of planned site activities, including data collected during station system and performance audits and calibrations. All data were validated only after being screened by the criteria listed in Table 8-4 of *Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA-454/R-99-005). Table 2-2 lists the quantities of data that were flagged according to EPA criteria, yet not removed from the refined data set. All flagged data were carefully examined, but generally remained in the refined data set unless dictated by certain circumstances, including values outside the normal range of variation, consecutive repetitive values recorded for an unidentified reason, maintenance activity at the site, and impairing damage to sensors.

A thorough documentation of an error clearly defined may result in the correction of data, which will permanently be flagged (*Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA-454/R-99-005)). A clearly defined error was identified in the Pebble Port data from January 22 to February 10, 2006, due to a storm altering the alignment of the Climatronics (CLM) wind direction sensor. Throughout this period, comparisons between the RM Young (RMY) and CLM wind direction data indicated a consistent difference of approximately 16 degrees. According to an audit of the wind sensors conducted on February 10, 2006, the accuracy and linearity of the CLM wind vane met EPA criteria, yet was out of alignment by a mean absolute error of +15.9 degrees. Because only the alignment of the CLM sensor had been affected and was consistently offset from the RMY instrument during the time span between the storm and audit, the CLM wind direction data throughout this period were corrected by subtracting the measured mean absolute error (+15.9 degrees). While these data have been retained in the refined Pebble Port database, the data have been permanently flagged as “corrected” as outlined in *Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA-454/R-99-005).

Table 2-2. Percentage of Final Data Flagged

Parameter	Flagging Criteria[1]	Percent Flagged
Wind Speed (Climatronics)	Value is < 0 m/s, > 25 m/s	0.00%
	< 0.1 m/s variation for 3 consecutive hours	1.05%
	<0.5 m/s variation for 12 consecutive hours	0.00%
Wind Direction (Climatronics)	Value is < 0°, > 360°	0.00%
	<1° variation over 3 consecutive hours	1.34%
	< 10° variation over 18 consecutive hours	1.19%
Wind Speed (RM Young)	Value is < 0 m/s, > 25 m/s	0.00%
	< 0.1 m/s variation for 3 consecutive hours	0.96%
	<0.5 m/s variation for 12 consecutive hours	0.00%
Wind Direction (RM Young)	Value is < 0°, > 360°	0.00%
	<1° variation over 3 consecutive hours	1.36%
	< 10° variation over 18 consecutive hours	1.15%
Temperature (2 meters)	> 5°C variation from previous hour	0.03%
	< 0.5°C variation for 12 consecutive hours	0.83%
	Value is > record high, < record low	0.00%
Temperature (10 meters)	> 5°C variation from previous hour	0.03%
	< 0.5°C variation for 12 consecutive hours	0.95%
	Value is > record high, < record low	0.00%
Temperature Difference, ΔT	Value is > 0.8°C during the daytime	1.23%
	Value is < -0.8°C during the night	0.00%
	Value is > 5°C, < -3°C	0.00%
Relative Humidity (Dew Point Temperature)[2]	Value is > ambient temperature	0.00%
	> 5°C variation from previous hour	0.08%
	< 0.5°C variation for 12 consecutive hours	1.20%
	Equals ambient temperature for 12 consecutive hours	0.00%
Solar Radiation	> 0 W/m^2 at night	0.00%
	Greater than the maximum possible value for date and latitude	0.00%
Barometric Pressure	> 1060 mb (sea level)	0.00%
	< 940 mb (sea level)	0.00%
	> 6 mb variation for 3 consecutive hours	0.00%

[1]Based upon Table 8-4: Suggested Data Screening Criteria in *Meteorological Monitoring Guidance for Regulatory Modeling Applications* (EPA-454/R-99-005).
[2]Guidance document provides criteria relative to dew point temperature.

2.3 Network Data Completeness

Data completeness is a measure of the amount of data actually collected compared to the amount of data that could have been collected. Data completeness was calculated by dividing the number of valid hours of data by the total number of hours during the monitoring period. The data quality objective (DQO) for data completeness for the Pebble Project Meteorological Monitoring Program is 90 percent data capture per quarter for each parameter listed in Section 1.1. Table 2-3 provides a summary of data completeness, in terms of a percentage, for the first monitoring year at the Pebble Port station.

Table 2-3. Pebble Port Station Percent Data Capture

Period	Meteorological Parameters											
	2-m Temp	10-m Temp	Δ T	WS (CLM)[1]	WD (CLM)	Sigma (CLIM)	WS (RMY)[2]	WD (RMY)	Sigma (RMY)	RH	Solar	BP
August 2005	88.2%	99.5%	88.2%	100%	100%	100%	100%	100%	100%	99.3%	100%	100%
September 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	94.7%	100%	100%
October 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Quarter A	**96.0%**	**99.8%**	**96.0%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**98.1%**	**100%**	**100%**
November 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99.4%	100%
December 2005	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	99.5%	100%
January 2006	99.5%	99.5%	99.5%	99.5%	99.3%[3]	99.3%	99.5%	99.5%	99.5%	100%	100%	100%
Quarter B	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%[3]**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**100%**	**99.6%**	**100%**
February 2006	96.6%	96.6%	96.6%	99.7%	99.7%[3]	99.7%	99.7%	99.7%	99.7%	100%	100%	100%
March 2006	100%	100%	100%	99.5%	88.6%	88.6%	100%	100%	100%	100%	100%	100%
April 2006	100%	100%	100%	99.4%	100%	100%	100%	100%	100%	100%	100%	100%
Quarter C	**98.9%**	**98.9%**	**98.9%**	**99.5%**	**95.9%**	**95.9%**	**99.9%**	**99.9%**	**99.9%**	**100%**	**100%**	**100%**
May 2006	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
June 2006	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
July 2006	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Quarter D	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**
Monitoring Year	**98.7%**	**99.6%**	**98.7%**	**99.8%**	**98.9%**	**98.9%**	**99.9%**	**99.9%**	**99.9%**	**99.5%**	**99.9%**	**100%**

[1]CLM = Climatronics wind speed and wind direction sensor.
[2]RMY = R.M. Young wind speed and wind direction sensor.
[3] Data capture value includes data corrected following the guidelines put forth in Meteorological Monitoring Guidance for Regulatory Modeling Applications, Section 8-6 and Table 8-3 (EPA-454/R-99-005).

2.4 Precision Statistics

2.4.1 Monitoring Network Precision Statistics

Not applicable.

2.4.2 Analytical Laboratory Precision Statistics

Not applicable.

2.4.3 Analytical Laboratory Precision Statistics for Lead Analysis of Particulate Samples

Not applicable.

2.5 Accuracy Statistics

2.5.1 Instrument Calibration Statistics

Not applicable.

2.5.2 Independent Quality Assurance Audits

A technical systems audit was performed at the Pebble Port station on June 25, 2005. The power supply, data acquisition system (DAS), communications system, and sensors all worked properly. The systems audit indicated that the station is well-planned, equipped with PSD-quality equipment, and properly sited according to criteria recommended by EPA. The operator provided adequate manuals for system maintenance and proper documentation to report operation and quality control activities. The operator was knowledgeable and competent with all meteorological equipment, communications equipment, and the power supply system. Appendix C contains the complete technical systems audit report.

An initial performance audit of the station was conducted on June 25, 2005. The performance audit involves reading the DAS output for each meteorological sensor and comparing the value with the input from an appropriate piece of audit equipment or from calibrated instruments collocated with the sensor. For each reading, the difference between the station value and the predicted value is compared with established PSD limits to assess the accuracy of the sensor. The results of the initial performance audit

are presented in Table 2-4. The complete performance audit report is available in Appendix C.

Table 2-4. Initial Performance Audit Summary (June 25, 2005)

Parameter	EPA Limit	Units	Maximum Absolute Error	Pass/Fail
Datalogger Time (AST)	≤ ±5:00	Min:Sec	00:02	Pass
Temperature Accuracy (2-m)	≤ ±0.5	°C	0.35	Pass
Temperature Accuracy (10-m)	≤ ±0.5	°C	0.30	Pass
Temperature Difference (ΔT)	≤ ±0.1	°C	0.05	Pass
Wind Speed[1] Accuracy	≤ ±0.2 + 5%	m/s	0.0	Pass
Wind Speed[1] Torque	≤ ±0.005	oz-in	< 0.003	Pass
Wind Direction[1] Alignment	≤ ±3	°	1.1	Pass
Wind Direction[1] Linearity	≤ ±3	°	0.9	Pass
Wind Direction[1] Torque	≤ 0.104	oz-in	0.060	Pass
Wind Speed[2] Accuracy	≤ ±0.2 + 5%	m/s	0.0	Pass
Wind Speed[2] Torque	≤ ±0.014	oz-in	0.006	Pass
Wind Direction[2] Alignment	≤ ±3	°	0.7	Pass
Wind Direction[2] Linearity	≤ ±3	°	2.5	Pass
Wind Direction[2] Torque	≤ 0.153	oz-in	0.069	Pass
Relative Humidity (Dew Point Temperature)	≤ ±1.5	°C	0.4	Pass
Barometric Pressure	≤ ±3	mb	1.9	Pass
Solar Radiation	≤ (±5 + 10 W/m^2)	% obs	NC[3]	N/A

[1]Parameters audited for Climatronics wind sensor.
[2]Parameters audited for RM Young wind sensor.
[3]NC = Not completed.

Subsequently, a performance audit was conducted on January 16, 2006 and a performance and systems audit was conducted on August 21, 2006. Each sensor was challenged with certified audit equipment and tested for compliance with PSD performance accuracy requirements. A summary of the results of these audits are

presented in Tables 2-5 and 2-6. The complete performance audit reports are available in Appendix C.

Table 2-5. Semi-Annual Performance Audit Summary (January 16, 2006)

Parameter	EPA Limit	Units	Maximum Absolute Error	Pass/Fail
Datalogger Time (AST)	≤ ±5:00	Min:Sec	00:20	Pass
Temperature Accuracy (2-m)	≤ ±0.5	°C	0.14	Pass
Temperature Accuracy (10-m)	≤ ±0.5	°C	0.14	Pass
Temperature Difference (ΔT)	≤ ±0.1	°C	0.00	Pass
Wind Speed[1] Accuracy	≤ ±0.2 + 5%	m/s	0.0	Pass
Wind Speed[1] Torque	≤ ±0.005	oz-in	< 0.003	Pass
Wind Direction[1] Alignment	≤ ±3	°	1.9	Pass
Wind Direction[1] Linearity	≤ ±3	°	0.5	Pass
Wind Direction[1] Torque	≤ 0.104	oz-in	0.070	Pass
Wind Speed[2] Accuracy	≤ ±0.2 + 5%	m/s	0.0	Pass
Wind Speed[2] Torque	≤ ±0.014	oz-in	0.007	Pass
Wind Direction[2] Alignment	≤ ±3	°	2.1	Pass
Wind Direction[2] Linearity	≤ ±3	°	2.0	Pass
Wind Direction[2] Torque	≤ 0.152	oz-in	0.097	Pass
Relative Humidity (Dew Point Temperature)	≤ ±1.5	°C	0.6	Pass
Barometric Pressure	≤ ±3	mb	1.5	Pass
Solar Radiation	≤ (±5 + 10 W/m^2)	% obs	NC[3]	N/A

[1]Parameters audited for Climatronics wind sensor.

[2]Parameters audited for RM Young wind sensor.

[3]NC = Not completed.

Table 2-6. Second Annual Performance and Systems Audit Summary (August 21, 2006)

Parameter	EPA Limit	Units	Maximum Absolute Error	Pass/Fail
Datalogger Time (AST)	≤ ±5:00	Min:Sec	00:07	Pass
Temperature Accuracy (2-m)	≤ ±0.5	°C	0.21	Pass
Temperature Accuracy (10-m)	≤ ±0.5	°C	0.21	Pass
Temperature Difference (ΔT)	≤ ±0.1	°C	0.00	Pass
Wind Speed[1] Accuracy	≤ ±0.2 + 5%	m/s	0.0	Pass
Wind Speed[1] Torque	≤ ±0.005	oz-in	< 0.003	Pass
Wind Direction[1] Alignment	≤ ±3	°	0.5	Pass
Wind Direction[1] Linearity	≤ ±3	°	0.5	Pass
Wind Direction[1] Torque	≤ 0.104	oz-in	0.100	Pass
Wind Speed[2] Accuracy	≤ ±0.2 + 5%	m/s	0.0	Pass
Wind Speed[2] Torque	≤ ±0.014	oz-in	0.008	Pass
Wind Direction[2] Alignment	≤ ±3	°	1.6	Pass
Wind Direction[2] Linearity	≤ ±3	°	2.6	Pass
Wind Direction[2] Torque	≤ 0.152	oz-in	0.125	Pass
Relative Humidity (Dew Point Temperature)	≤ ±1.5	°C	0.6	Pass
Barometric Pressure	≤ ±3	mb	1.0	Pass
Solar Radiation	≤ (±5 + 10 W/m^2)	% obs	5.8	Pass

[1]Parameters audited for Climatronics wind sensor.

[2]Parameters audited for RM Young wind sensor.

[3]NC = Not completed.

3.0 Monitoring Data Network Summary

3.1 Air Quality Data Summary

Not applicable.

3.2 Meteorological Data Summary

3.2.1 Wind Speed (WS) and Wind Direction (WD) Climatology

Table 3-1 provides a statistical summary of Climatronics (CLM) and RM Young (RMY) wind speed measurements during the first year of meteorological monitoring at the Pebble Port station. The mean hourly average wind speed during the monitoring year was 4.89 m/s and 4.64 m/s for the CLM and RMY sensors, respectively. Maximum hourly average wind speeds of 20.42 m/s and 17.30 m/s were measured by the CLM and RMY sensors, respectively, at 7:00 PM on January 22, 2006.

Table 3-1 indicates that the RMY statistical values are generally 95% of the CLM values. A further analysis revealed the negative bias of the RMY sensor relative to the CLM sensor was found to be greatest during periods of turbulent winds. In particular, the agreement between the RMY and CLM measurements was best (>95%) when wind sigma values were less than 30 degrees and when winds were blowing from the northern end of Iniskin Bay. This observation is in agreement with studies that have found propeller-vane instruments have an inherent negative bias in turbulent winds due to the propeller-vane lagging behind the instantaneous wind direction. (e.g., Kristensen, 1994; Kristensen et al., 2001). While the cup anemometer appears to be less susceptible to under-reporting of wind speeds in turbulent winds, the vane-propeller anemometer was found to be a high-precision PSD-quality instrument less susceptible to icing than the cup anemometer. Therefore, the deployment of both sensor types has been advantageous for meteorological monitoring under an array of inclement weather conditions encountered at the Pebble Project site.

Table 3-1. Average and Maximum Wind Speeds

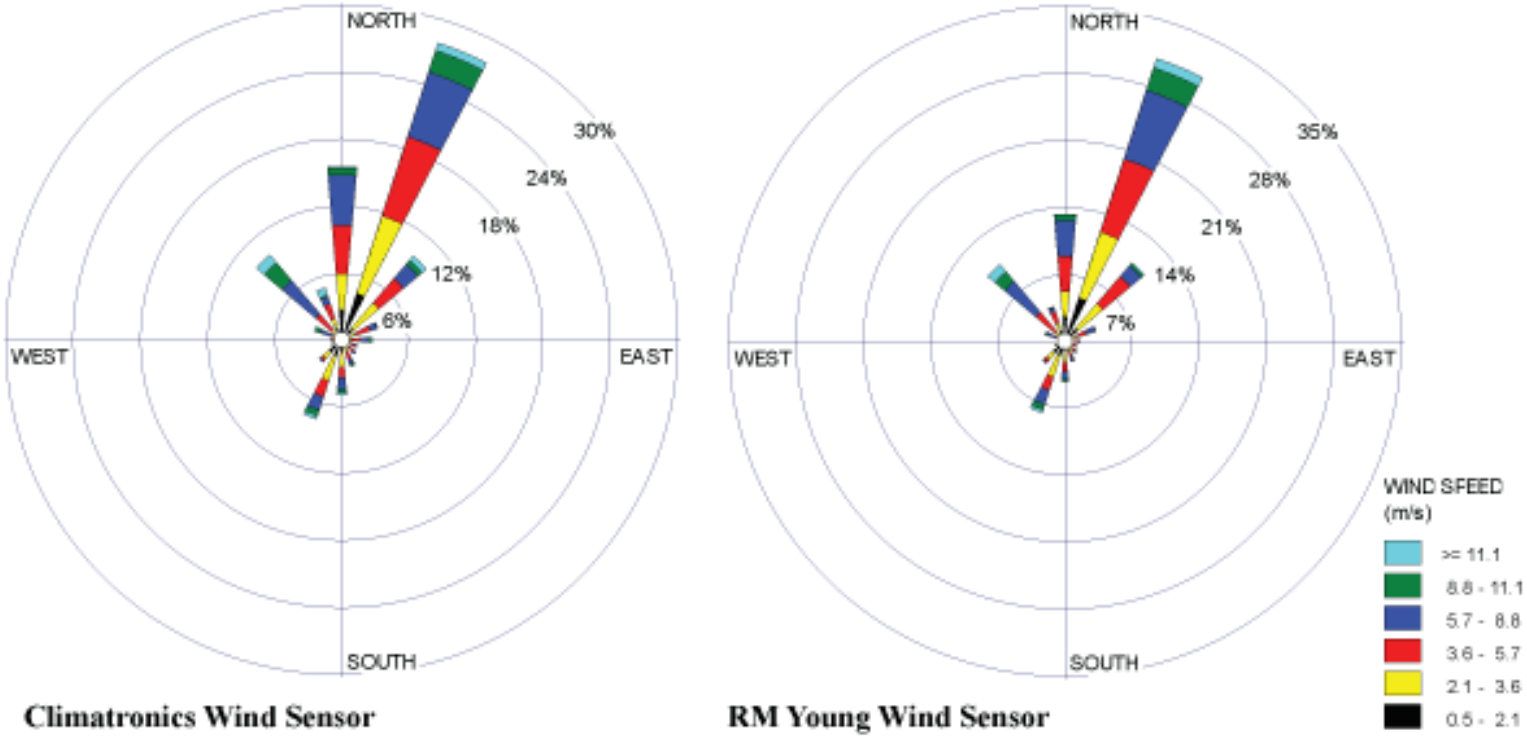
Monitoring Period	Mean Hourly Average Wind Speed (m/s) (CLM)	Mean Hourly Average Wind Speed (m/s) (RMY)	Maximum Hourly Average Wind Speed (m/s) (CLM)	Maximum Hourly Average Wind Speeds (m/s) (RMY)
Quarter A	4.53	4.27	17.66	16.80
Quarter B	5.90	5.61	20.42	17.30
Quarter C	5.47	5.24	16.34	15.77
Quarter D	3.69	3.48	16.01	15.15
Monitoring Year	4.89	4.64	20.42	17.30

Figure 3-1 shows first year wind roses for the CLM and RMY wind instruments collocated at the Pebble Port station. During the monitoring year, winds were predominantly from the north-northeast and north with infrequent winds from southerly directions. Figures 3-2 and 3-3 present the quarterly wind roses for the CLM and RMY sensors, respectively. All of the quarterly wind roses are characterized by predominant wind components from the north-northeast and north. In addition, the Quarters A and D wind roses display substantial wind components from the south-southwest and northwest. The Quarter B (November 1, 2005 through January 31, 2006) wind rose has dominant wind components from the north-northeast, north, and northwest. However, in contrast to Quarters A and D, the Quarter B wind rose indicates a lack of southerly winds during Quarter B. Similarly, the predominant wind components in the Quarter C (February 1, 2006 through April 30, 2006) wind rose are from northerly directions with only minor south-southwest and northwest wind components.

Tables 3-2 through 3-6 are the annual and quarterly wind analysis tables for the CLM wind measurements. Tables 3-7 through 3-11 are the annual and quarterly wind analysis tables for the RMY wind measurements.

Figure 3-4 shows the first year wind rose for the Climatronics wind sensor superimposed over a map of the Pebble Port site and vicinity. The wind rose is centered over the Pebble Port station and shows that, on an annual basis, winds at the site predominantly blow parallel to the shoreline and toward the mouth of Iniskin Bay.

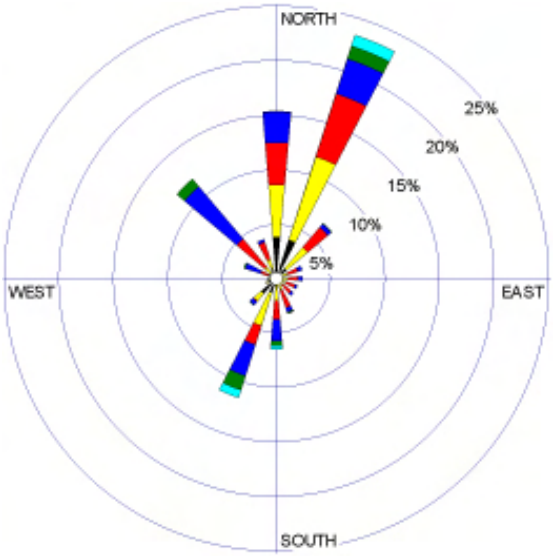
Figure 3-1. Annual[1] Pebble Port Wind Roses



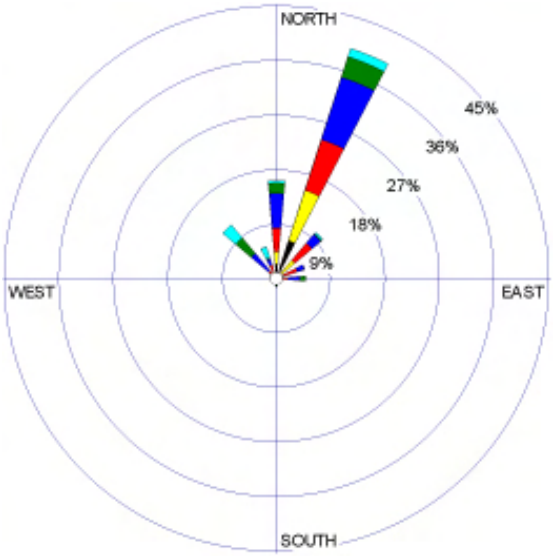
[1] August 1, 2005 to July 31, 2006.

Figure 3-2. Quarterly Pebble Port Wind Roses (Climatronics)

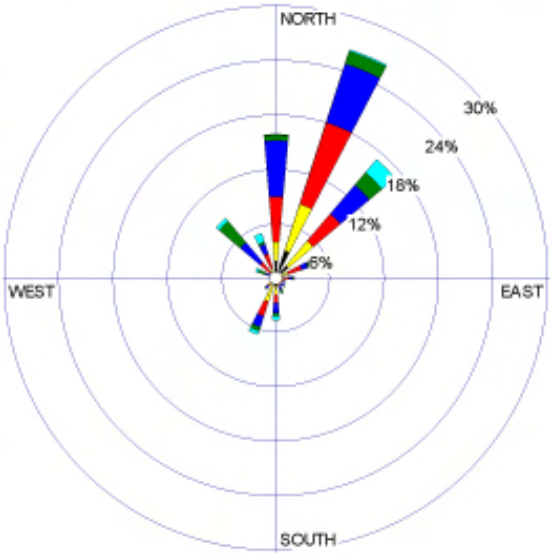
Quarter A (8/1/05 – 10/31/05)



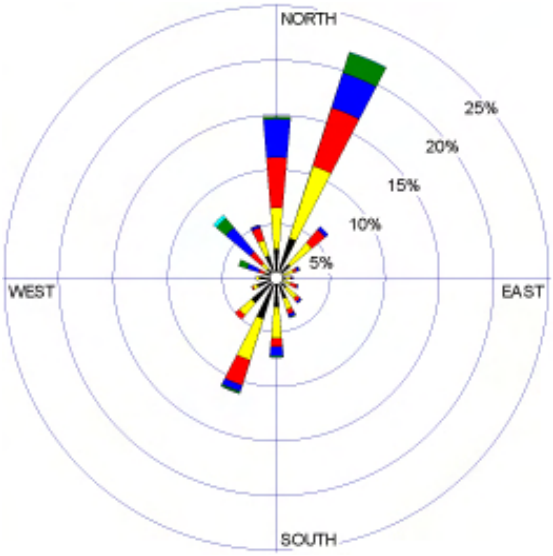
Quarter B (11/1/05 – 1/31/06)



Quarter C (2/1/06 – 4/30/06)



Quarter D (5/1/06 – 7/31/06)



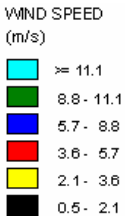
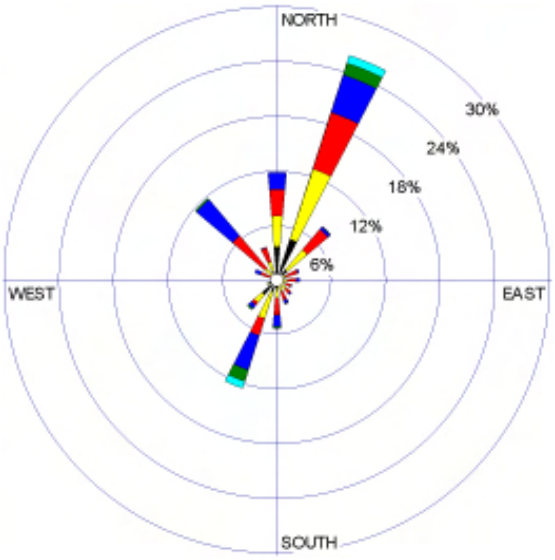
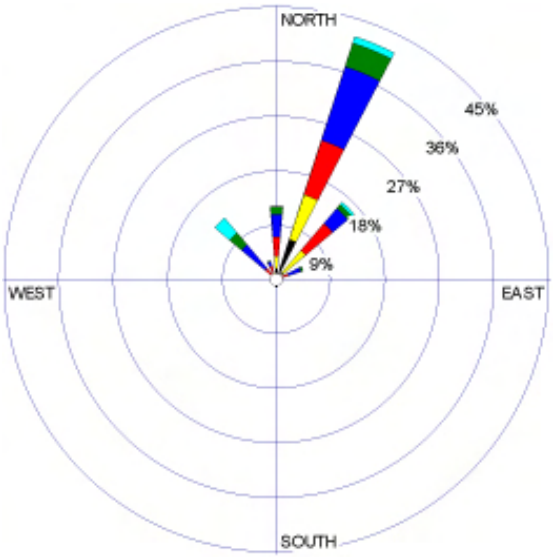


Figure 3-3. Quarterly Pebble Port Wind Roses (RM Young)

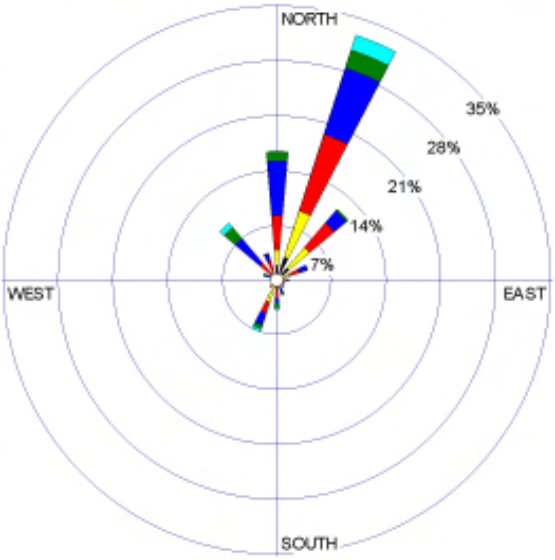
Quarter A (8/1/05 – 10/31/05)



Quarter B (11/1/05 – 1/31/06)



Quarter C (2/1/06 – 4/30/06)



Quarter D (5/1/06 – 7/31/06)

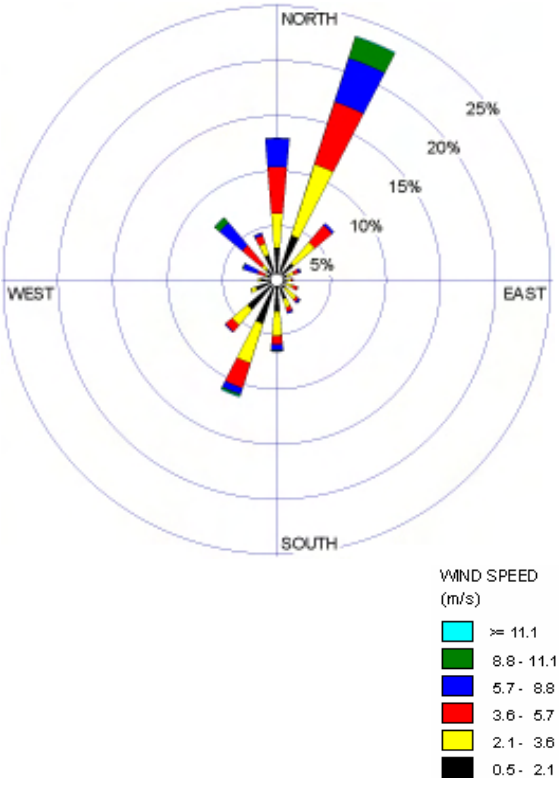


Table 3-2. First Year Wind Rose Analysis Table (Climatronics)

Station ID: Pebble Port PSD
Climatronics wind speed and direction
Start Date: August 1, 2005

Run ID: First Monitoring Year
End Date: July 31, 2006

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	5.4%	7.3%	9.1%	9.1%	2.1%	1.1%	34.3%
NE	3.9%	7.0%	7.0%	3.7%	1.1%	0.8%	23.6%
E	0.9%	1.0%	1.6%	1.2%	0.3%	0.0%	5.1%
SE	1.0%	1.1%	1.0%	0.5%	0.1%	0.0%	3.7%
S	2.3%	2.7%	2.1%	2.1%	0.8%	0.6%	10.6%
SW	2.9%	2.0%	1.1%	0.6%	0.2%	0.0%	6.7%
W	1.3%	0.3%	0.2%	0.3%	0.1%	0.0%	2.1%
NW	1.6%	1.1%	2.6%	4.8%	2.5%	1.1%	13.8%
Sub-Total:	19.3%	22.5%	24.8%	22.3%	7.3%	3.7%	100.0%
Calms (<0.5 m/s):							0.0%
Total:							100.0%

Average Wind Speed: 4.89 m/s

Table 3-3. Quarter A Wind Rose Analysis Table (Climatronics)

Station ID: Pebble Port PSD — Run ID: Quarter A
Climatronics wind speed and direction
Start Date: August 1, 2005 — End Date: October 31, 2005

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	6.3%	10.5%	7.8%	5.4%	0.9%	0.6%	31.5%
NE	3.4%	5.3%	6.0%	1.3%	0.5%	0.5%	17.0%
E	0.9%	1.4%	1.6%	0.9%	0.0%	0.0%	4.8%
SE	0.9%	1.1%	1.9%	0.5%	0.0%	0.0%	4.3%
S	1.7%	3.4%	4.0%	4.2%	1.5%	1.0%	15.9%
SW	3.1%	2.6%	0.8%	1.4%	0.5%	0.0%	8.4%
W	1.3%	0.1%	0.4%	0.4%	0.0%	0.0%	2.2%
NW	1.5%	1.2%	4.6%	7.6%	1.0%	0.0%	15.9%
Sub-Total:	19.0%	25.7%	27.1%	21.7%	4.4%	2.1%	100.0%
Calms (<0.5 m/s):							0.0%
Total:							100.0%

Average Wind Speed: 4.53 m/s

Table 3-4. Quarter B Wind Rose Analysis Table (Climatronics)

Station ID: Pebble Port PSD — Run ID: Quarter B
Climatronics wind speed and direction
Start Date: November 1, 2005 — End Date: January 31, 2006

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	6.1%	5.8%	9.5%	13.9%	4.4%	2.9%	42.7%
NE	4.1%	9.3%	8.2%	5.6%	1.1%	0.9%	29.1%
E	0.1%	0.7%	3.4%	2.8%	1.1%	0.0%	8.1%
SE	0.0%	0.3%	0.5%	0.2%	0.2%	0.1%	1.3%
S	0.1%	0.4%	0.5%	0.9%	0.5%	0.3%	2.6%
SW	0.6%	0.1%	0.3%	0.0%	0.0%	0.0%	1.0%
W	0.5%	0.2%	0.0%	0.0%	0.0%	0.0%	0.9%
NW	0.9%	0.7%	1.6%	4.2%	3.6%	3.3%	14.4%
Sub-Total:	12.5%	17.4%	24.0%	27.6%	11.0%	7.4%	100.0%
Calms (<0.5 m/s):							0.0%
Total:							100.0%

Average Wind Speed: 5.90 m/s

Table 3-5. Quarter C Wind Rose Analysis Table (Climatronics)

Station ID: Pebble Port PSD — Run ID: Quarter C
Climatronics wind speed and direction
Start Date: February 1, 2006 — End Date: April 30, 2006

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	3.4%	4.7%	10.0%	11.1%	2.0%	1.0%	32.2%
NE	4.2%	7.0%	10.4%	6.9%	2.2%	2.0%	32.6%
E	1.1%	0.7%	1.1%	0.8%	0.2%	0.0%	4.0%
SE	0.5%	0.7%	1.0%	0.8%	0.1%	0.0%	3.1%
S	1.4%	2.0%	2.2%	2.3%	0.9%	0.8%	9.6%
SW	1.2%	1.4%	0.8%	0.5%	0.3%	0.0%	4.3%
W	0.7%	0.2%	0.1%	0.4%	0.1%	0.1%	1.7%
NW	1.1%	0.9%	2.2%	3.7%	3.7%	0.8%	12.4%
Sub-Total:	13.5%	17.6%	27.8%	26.6%	9.5%	4.9%	99.9%
Calms (<0.5 m/s):							0.1%
Total:							100.0%

Average Wind Speed: 5.47 m/s

Table 3-6. Quarter D Wind Rose Analysis Table (Climatronics)

Station ID: Pebble Port PSD — Run ID: Quarter D
Climatronics wind speed and direction
Start Date: May 1, 2006 — End Date: July 31, 2006

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	5.9%	8.1%	9.2%	6.1%	1.3%	0.0%	30.6%
NE	4.2%	6.3%	3.7%	1.4%	0.9%	0.0%	16.5%
E	1.4%	1.2%	0.4%	0.4%	0.0%	0.0%	3.4%
SE	2.6%	2.3%	0.8%	0.4%	0.0%	0.0%	6.1%
S	5.7%	5.1%	1.8%	1.2%	0.4%	0.1%	14.3%
SW	6.4%	3.9%	2.3%	0.3%	0.0%	0.0%	13.0%
W	2.7%	0.5%	0.2%	0.3%	0.1%	0.0%	3.8%
NW	2.7%	1.6%	2.0%	3.8%	1.9%	0.4%	12.4%
Sub-Total:	31.6%	29.0%	20.4%	13.8%	4.6%	0.6%	100.0%
Calms (<0.5 m/s):							0.0%
Total:							100.0%

Average Wind Speed: 3.69 m/s

Table 3-7. First Year Wind Rose Analysis Table (RM Young)

Station ID: Pebble Port PSD
RM Young wind speed and direction
Start Date: August 1, 2005

Run ID: First Monitoring Year
End Date: July 31, 2006

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	5.2%	6.3%	8.0%	8.6%	2.1%	0.4%	30.6%
NE	4.8%	7.8%	8.7%	5.1%	1.4%	0.7%	28.6%
E	1.1%	0.9%	1.0%	0.4%	0.0%	0.0%	3.4%
SE	1.1%	1.2%	0.8%	0.4%	0.0%	0.0%	3.4%
S	2.3%	2.1%	2.0%	1.8%	0.7%	0.4%	9.3%
SW	3.2%	2.4%	1.2%	0.9%	0.2%	0.1%	8.0%
W	1.4%	0.2%	0.2%	0.2%	0.0%	0.0%	2.1%
NW	1.7%	1.1%	3.6%	5.1%	1.5%	1.1%	14.0%
Sub-Total:	20.7%	22.1%	25.5%	22.4%	6.0%	2.8%	99.5%
Calms (<0.5 m/s):							0.5%
Total:							100.0%

Average Wind Speed: 4.64 m/s

Table 3-8. Quarter A Wind Rose Analysis Table (RM Young)

Station ID: Pebble Port PSD — Run ID: Quarter A
RM Young wind speed and direction
Start Date: August 1, 2005 — End Date: October 31, 2005

Frequency Distribution (Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	6.3%	8.1%	6.8%	4.5%	0.2%	0.1%	26.1%
NE	4.2%	7.0%	7.0%	2.0%	1.2%	0.8%	22.1%
E	1.3%	1.3%	1.7%	0.5%	0.0%	0.0%	4.8%
SE	0.9%	1.5%	1.4%	0.4%	0.0%	0.0%	4.3%
S	1.7%	2.4%	3.5%	3.5%	1.0%	0.6%	12.7%
SW	3.6%	3.5%	1.4%	2.4%	0.7%	0.2%	11.7%
W	1.4%	0.2%	0.5%	0.0%	0.0%	0.0%	2.1%
NW	1.9%	1.5%	6.4%	5.8%	0.2%	0.0%	15.8%
Sub-Total:	21.2%	25.5%	28.7%	19.2%	3.3%	1.8%	99.6%
Calms (<0.5 m/s):							0.4%
Total:							100.0%

Average Wind Speed: 4.27 m/s

Table 3-9. Quarter B Wind Rose Analysis Table (RM Young)

Station ID: Pebble Port PSD — Run ID: Quarter B
RM Young wind speed and direction
Start Date: November 1, 2005 — End Date: January 31, 2006

Frequency Distribution (Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	4.9%	5.1%	7.5%	11.0%	3.7%	0.5%	32.6%
NE	5.8%	10.4%	12.4%	11.0%	2.9%	1.2%	43.7%
E	0.1%	0.6%	0.7%	0.4%	0.0%	0.0%	1.8%
SE	0.2%	0.3%	0.3%	0.3%	0.0%	0.0%	1.1%
S	0.2%	0.4%	0.7%	0.8%	0.5%	0.2%	2.7%
SW	0.6%	0.2%	0.2%	0.0%	0.1%	0.0%	1.1%
W	0.5%	0.1%	0.0%	0.0%	0.1%	0.0%	0.8%
NW	1.0%	0.9%	2.0%	5.7%	2.9%	3.4%	15.9%
Sub-Total:	13.3%	17.9%	23.8%	29.2%	10.2%	5.4%	99.8%
Calms (<0.5 m/s):							0.2%
Total:							100.0%

Average Wind Speed: 5.61 m/s

Table 3-10. Quarter C Wind Rose Analysis Table (RM Young)

Station ID: Pebble Port PSD — Run ID: Quarter C
RM Young wind speed and direction
Start Date: February 1, 2006 — End Date: April 30, 2006

Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	3.6%	5.3%	9.3%	13.4%	3.2%	1.2%	36.0%
NE	4.4%	7.3%	11.0%	5.9%	0.7%	0.8%	30.0%
E	1.1%	1.2%	0.9%	0.4%	0.0%	0.0%	3.6%
SE	0.5%	0.8%	0.7%	0.7%	0.0%	0.0%	2.8%
S	1.2%	1.5%	2.2%	1.9%	1.1%	0.5%	8.4%
SW	1.5%	1.5%	0.9%	0.7%	0.1%	0.1%	4.9%
W	0.6%	0.2%	0.2%	0.4%	0.0%	0.0%	1.5%
NW	0.8%	0.9%	2.8%	4.9%	2.2%	0.8%	12.4%
Sub-Total:	13.7%	18.7%	28.0%	28.2%	7.5%	3.6%	99.6%
Calms (<0.5 m/s):							0.4%
Total:							100.0%

Average Wind Speed: 5.24 m/s

Table 3-11. Quarter D Wind Rose Analysis Table (RM Young)

Station ID: Pebble Port PSD — Run ID: Quarter D
RM Young wind speed and direction
Start Date: May 1, 2006 — End Date: July 31, 2006

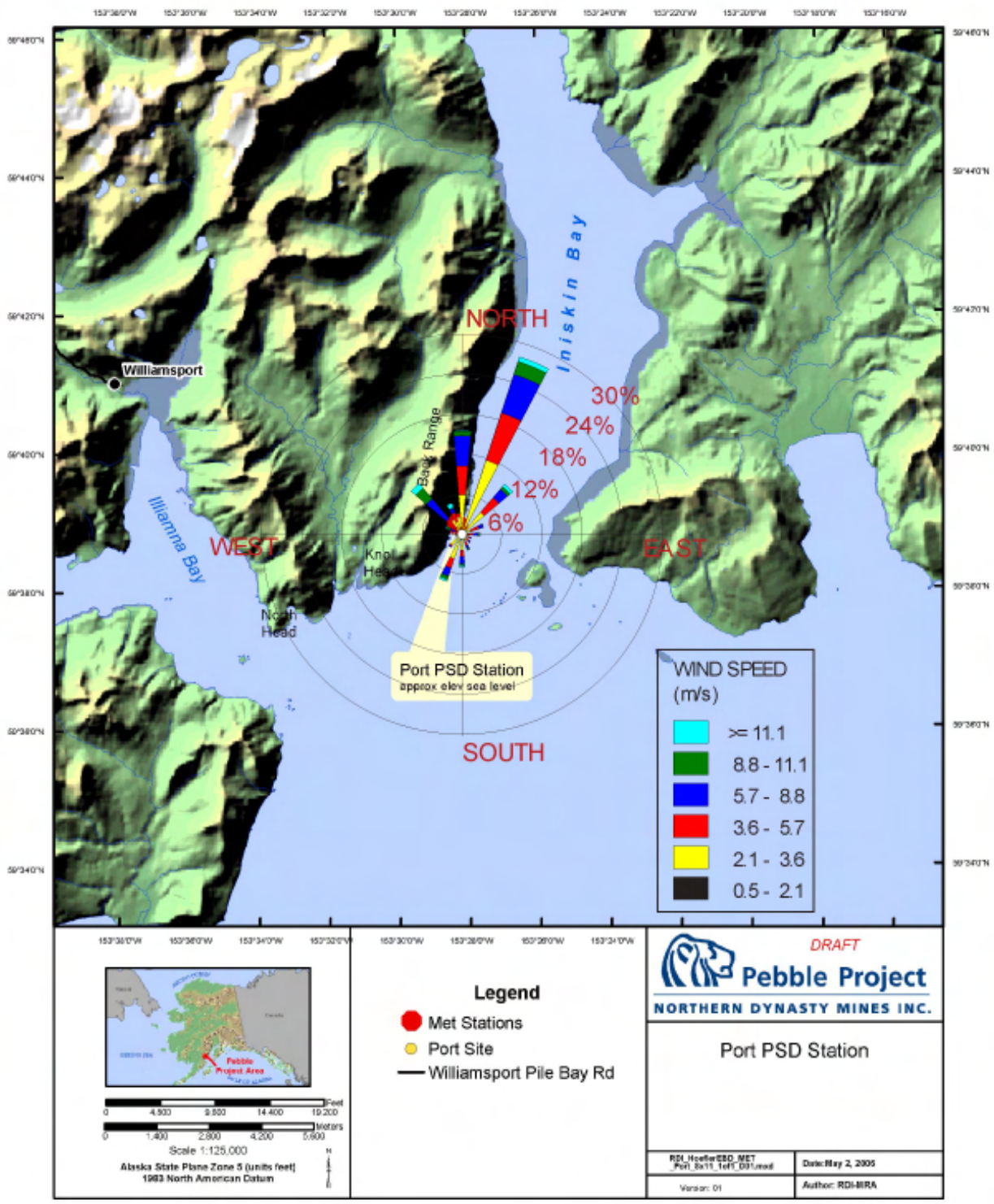
Frequency Distribution
(Percent)

Speed (m/s)

Direction	0.5 - 2.1	2.1 - 3.6	3.6 - 5.7	5.7 - 8.8	8.8 - 11.1	>= 11.1	Total
N	6.1%	6.7%	8.4%	5.6%	1.1%	0.0%	28.0%
NE	5.0%	6.7%	4.5%	1.5%	1.0%	0.1%	18.8%
E	1.9%	0.7%	0.5%	0.3%	0.0%	0.0%	3.4%
SE	2.6%	2.1%	0.5%	0.3%	0.0%	0.0%	5.6%
S	5.8%	4.3%	1.8%	1.0%	0.3%	0.1%	13.3%
SW	7.0%	4.2%	2.4%	0.4%	0.0%	0.0%	14.0%
W	3.0%	0.5%	0.2%	0.3%	0.0%	0.0%	3.9%
NW	3.1%	1.1%	3.1%	3.9%	0.7%	0.0%	12.0%
Sub-Total:	34.5%	26.3%	21.6%	13.1%	3.1%	0.3%	98.9%
Calms (<0.5 m/s):							1.1%
Total:							100.0%

Average Wind Speed: 3.48 m/s

Figure 3-4. Annual[1] Wind Rose Superimposed on Site Map



[1] First monitoring year: August 1, 2005 to July 31, 2006.

3.2.2 Temperature Climatology

Tables 3-12 and 3-13 give the maximum and minimum daily mean temperatures, monthly mean temperatures, and maximum and minimum hourly average temperatures for the 2-meter and 10-meter temperature measurements, respectively. The annual (August 1, 2005 through July 31, 2006) mean temperature was 3.7°C at the 2-meter height. This annual mean temperature is slightly higher in comparison to the annual mean temperature of 1.6°C observed at the Iliamna airport based upon data collected from 1971 to 2000 (Alaska Climate Research Center). Daily average temperatures at the Pebble Port station varied from a maximum of 17.4°C on August 5, 2005 to a minimum of -22.3°C on January 27, 2006.

Figure 3-5 provides a graph of the 2-meter and 10-meter hourly average temperatures. Considerable temperature variations occurred throughout the late-autumn and winter months.

Figure 3-6 shows a plot of the vertical temperature difference (the difference between 10-m and 2-m temperature values) during the monitoring year. The greatest positive vertical temperature difference was 3.8°C measured on May 27, 2006. The greatest negative temperature difference was -2.7°C measured on January 28, 2006.

Table 3-12. 2-Meter Temperature Summary

Period	Max Daily Mean Temp (°C)	Min Daily Mean Temp (°C)	Monthly Mean Temp (°C)	Max Hourly Mean Temp (°C)	Min Hourly Average Temp (°C)
August 2005	17.4	12.2	14.3	20.1	7.9
September 2005	13.0	7.9	10.8	15.7	5.7
October 2005	8.8	-1.8	4.2	11.2	-3.6
Quarter A	**17.4**	**-1.8**	**9.5**	**20.1**	**-3.6**
November 2005	2.7	-14.2	-4.1	4.6	-15.7
December 2005	6.7	-11.6	1.6	8.1	-12.4
January 2006	3.6	-22.3	-7.5	5.2	-24.1
Quarter B	**6.7**	**-22.3**	**-3.3**	**8.1**	**-24.1**
February 2006	4.1	-17.9	-2.8	6.3	-19.5
March 2006	1.0	-9.5	-3.1	2.3	-12.9
April 2006	5.4	-3.0	1.2	7.6	-5.6
Quarter C	**5.4**	**-17.9**	**-1.5**	**7.6**	**-19.5**
May 2006	14.7	0.9	7.5	17.7	-1.5
June 2006	14.5	8.0	10.2	19.3	4.5
July 2006	16.0	10.3	12.5	21.9	8.0
Quarter D	**16.0**	**0.9**	**12.5**	**21.9**	**-1.5**
Monitoring Year	**17.4**	**-22.3**	**3.7**	**21.9**	**-24.1**

Table 3-13. 10-Meter Temperature Summary

Period	Max Daily Mean Temp (°C)	Min Daily Mean Temp (°C)	Monthly Mean Temp (°C)	Max Hourly Mean Temp (°C)	Min Hourly Average Temp (°C)
August 2005	17.6	12.2	14.2	19.8	9.5
September 2005	12.9	8.2	10.9	14.8	6.3
October 2005	9.1	-1.7	4.4	10.9	-3.2
Quarter A	**17.6**	**-1.7**	**9.8**	**19.8**	**-3.2**
November 2005	3.0	-14.1	-4.0	4.7	-15.8
December 2005	6.9	-11.5	1.7	8.3	-12.1
January 2006	3.7	-22.2	-7.5	5.4	-24.1
Quarter B	**6.9**	**-22.2**	**-3.2**	**8.3**	**-24.1**
February 2006	4.3	-18.0	-2.6	6.7	-19.6
March 2006	1.1	-9.6	-3.0	3.3	-12.7
April 2006	5.8	-2.8	1.3	8.5	-5.2
Quarter C	**5.8**	**-18.0**	**-1.4**	**8.5**	**-19.6**
May 2006	15.6	0.8	7.7	18.4	-0.7
June 2006	14.4	8.0	10.2	18.2	5.8
July 2006	16.1	10.4	12.5	22.0	8.8
Quarter D	**16.1**	**0.8**	**12.5**	**22.0**	**-0.7**
Monitoring Year	**17.6**	**-22.2**	**3.9**	**22.0**	**-24.1**

Figure 3-5. Hourly Average 2-Meter and 10-Meter Temperatures

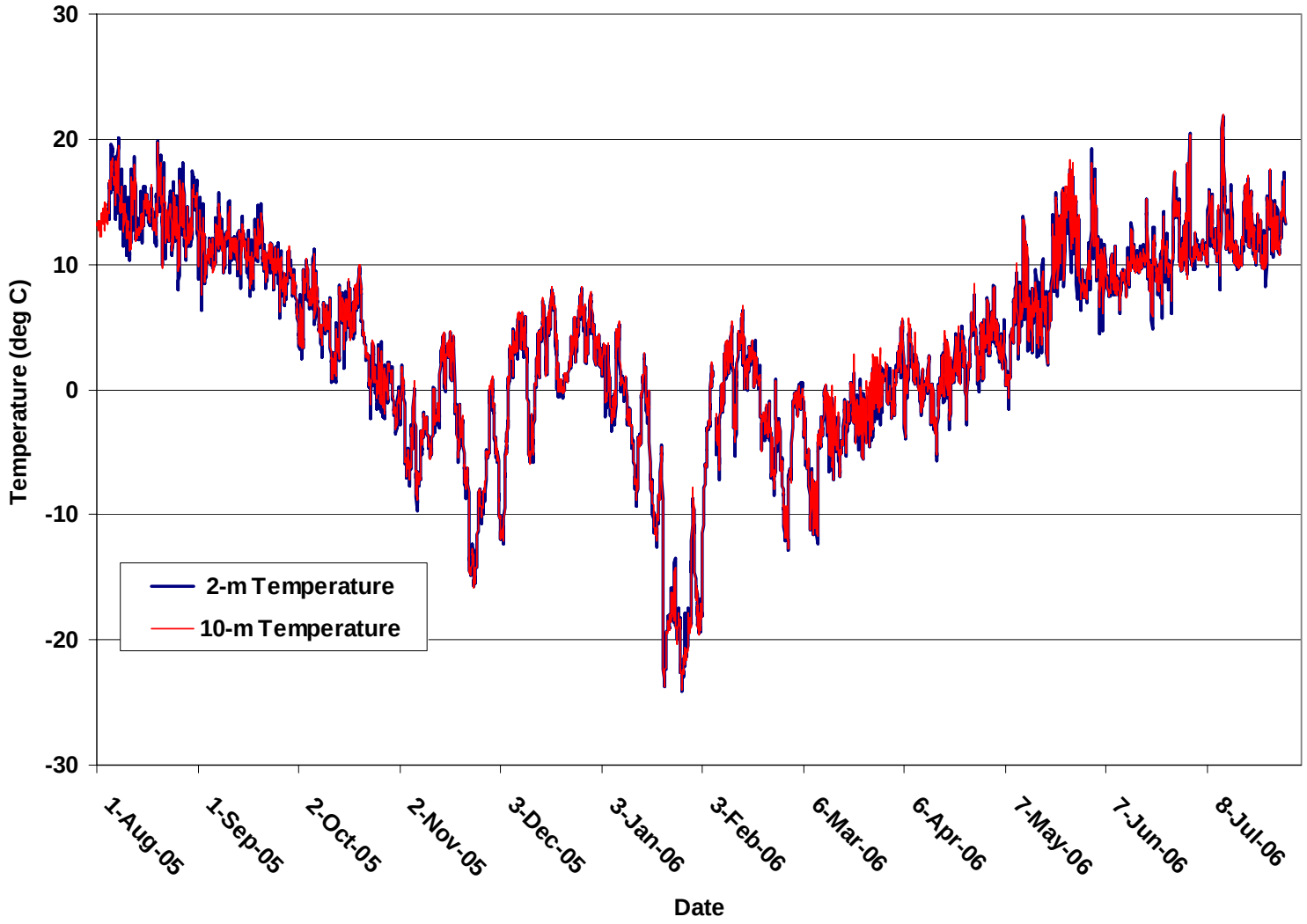
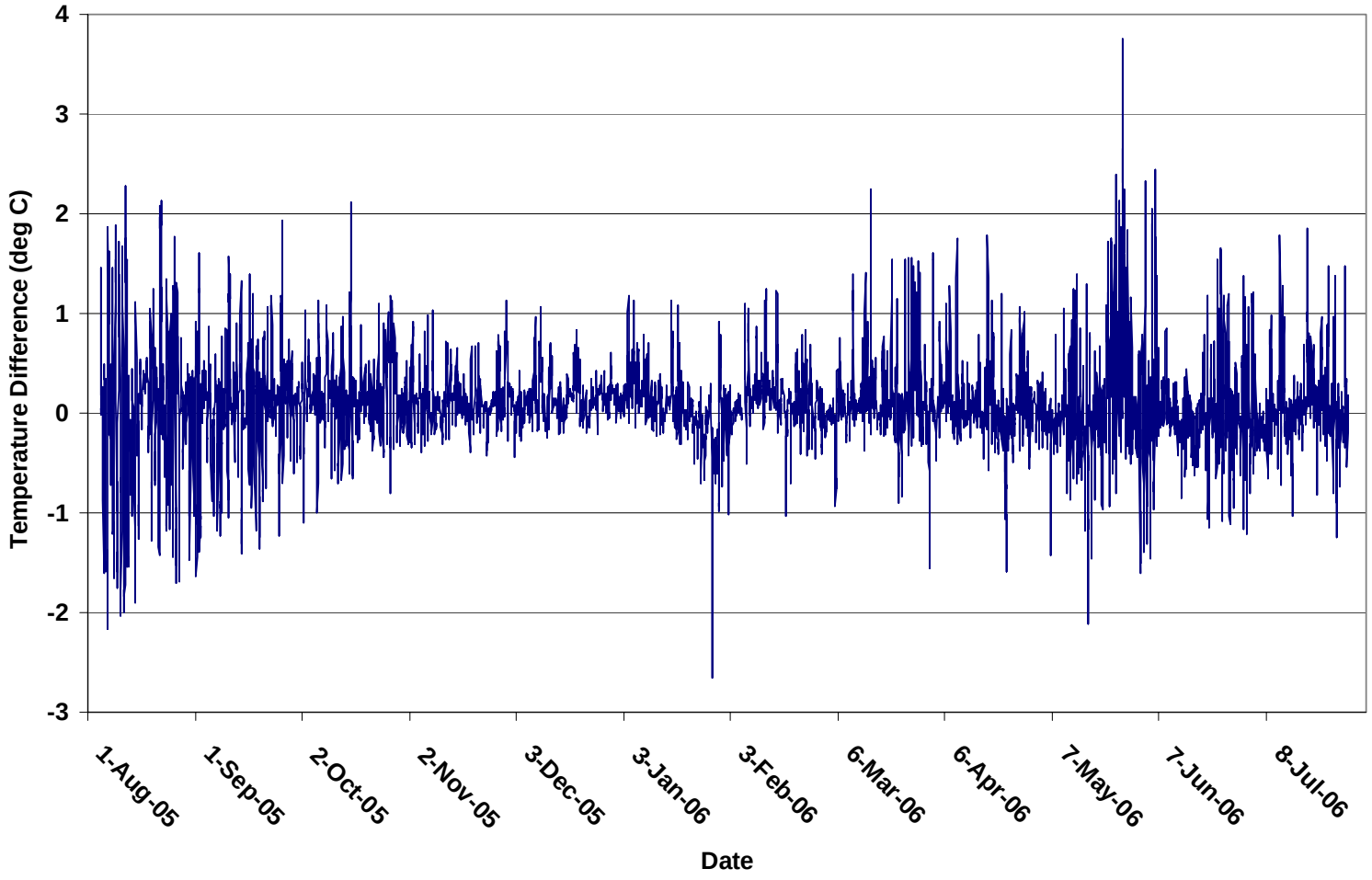


Figure 3-6. Hourly Average Vertical Temperature Difference



3.3.3 Other Meteorological Parameters

Other meteorological parameters measured at the Pebble Port station include relative humidity, barometric pressure, and solar radiation.

Figure 3-7 is a plot of the annual hourly average relative humidity. Relative humidity at the Pebble Port site varied from a low of 24 percent to a high of 100 percent. The mean relative humidity during the monitoring year was 74 percent.

Figure 3-8 is a plot of the annual hourly instantaneous barometric pressure measurements. Barometric pressure varied from a minimum of 963 mbar on February 6, 2006 to a maximum of 1,040 mbar observed ten days later on February 16, 2006. The mean barometric pressure during the monitoring year was 1,005 mbar.

Figure 3-9 is a plot of the annual hourly average solar radiation. The maximum hourly average solar radiation was 818 W/m^2 recorded on June 4, 2006 at 2:00 p.m. The mean hourly average solar radiation for the monitoring year was 89 W/m^2.

Relative humidity, barometric pressure, and solar radiation data are available in monthly tabular format in Appendix D.

Figure 3-7. Hourly Average Relative Humidity

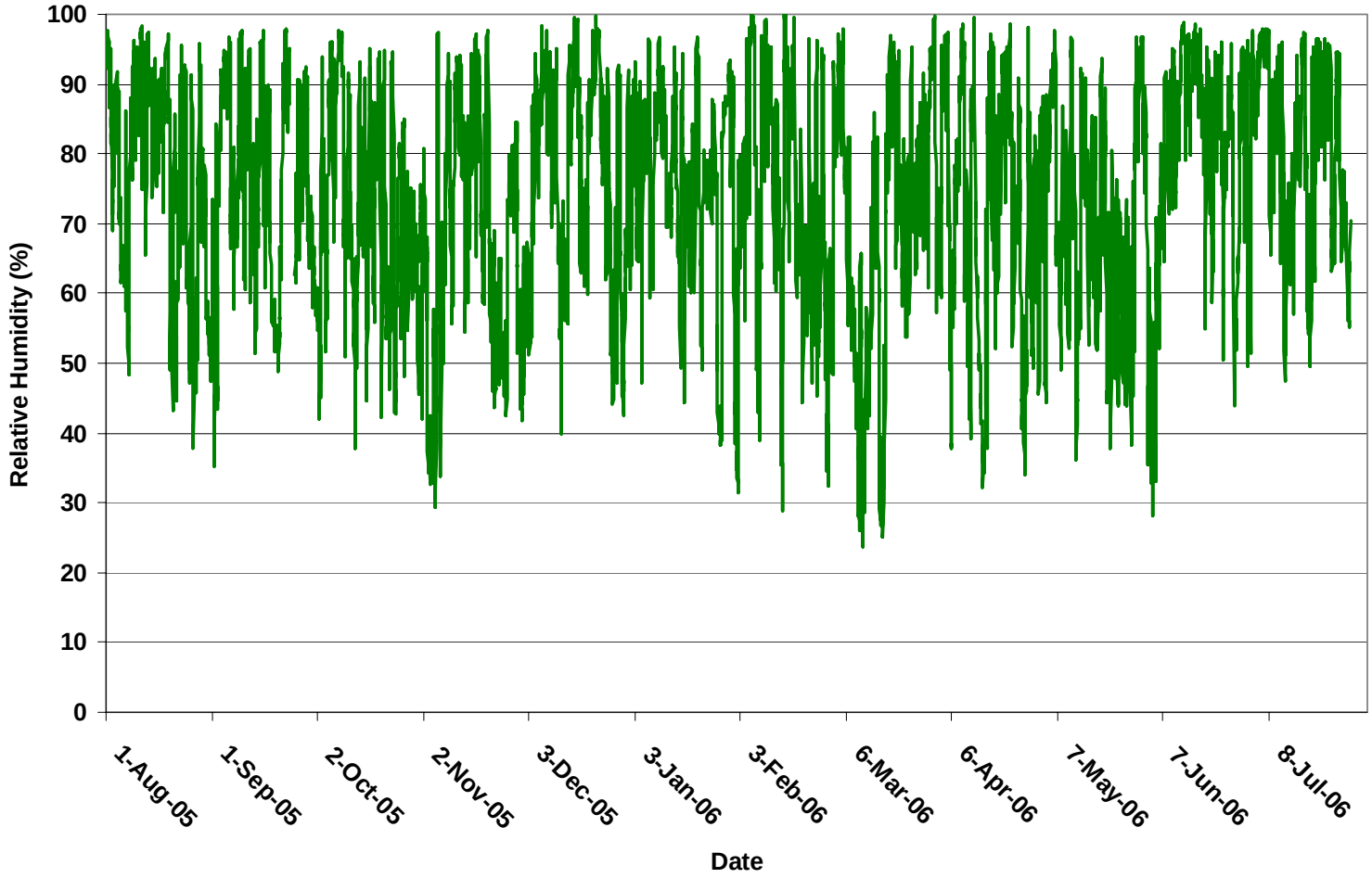


Figure 3-8. Barometric Pressure

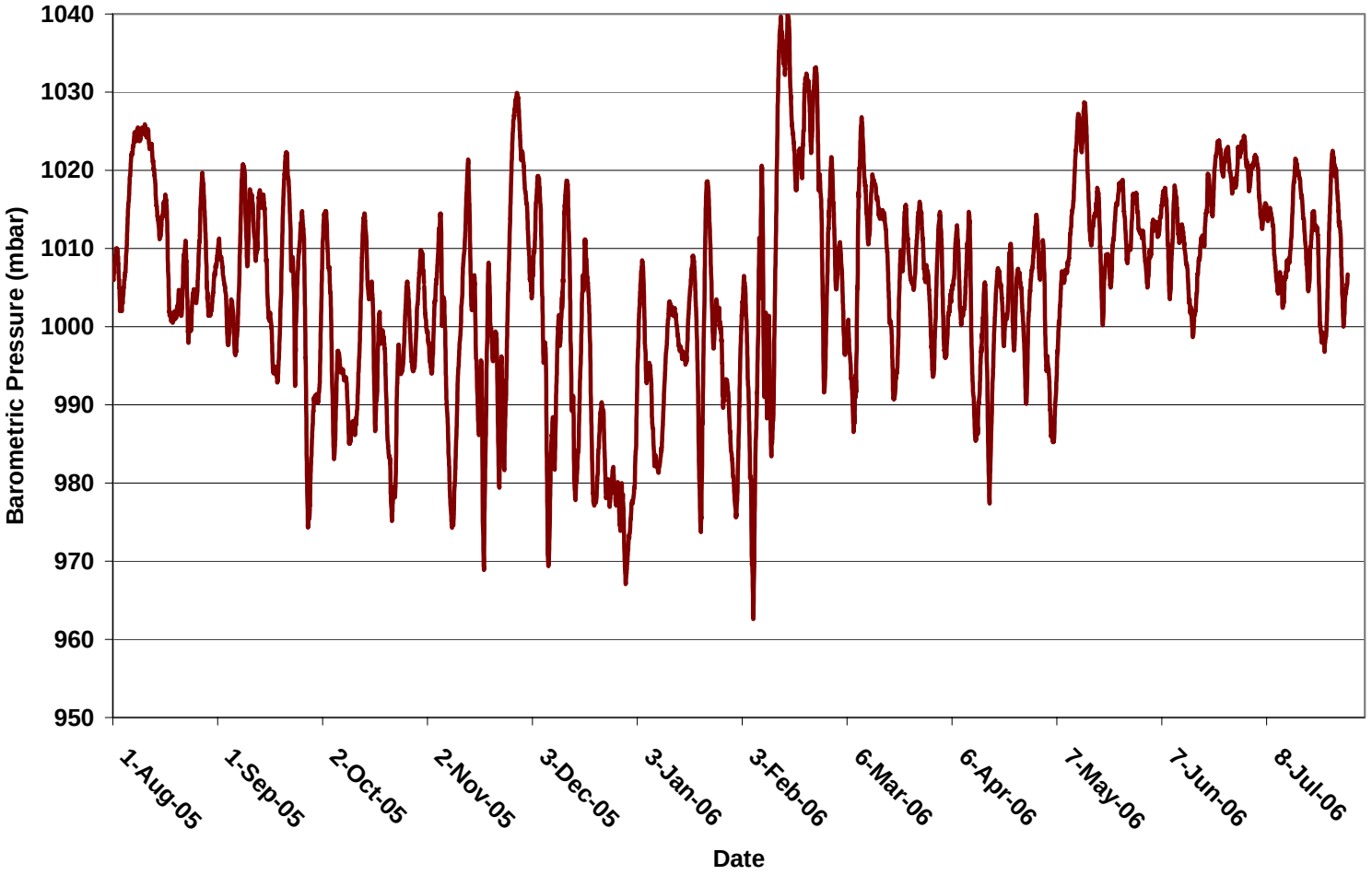
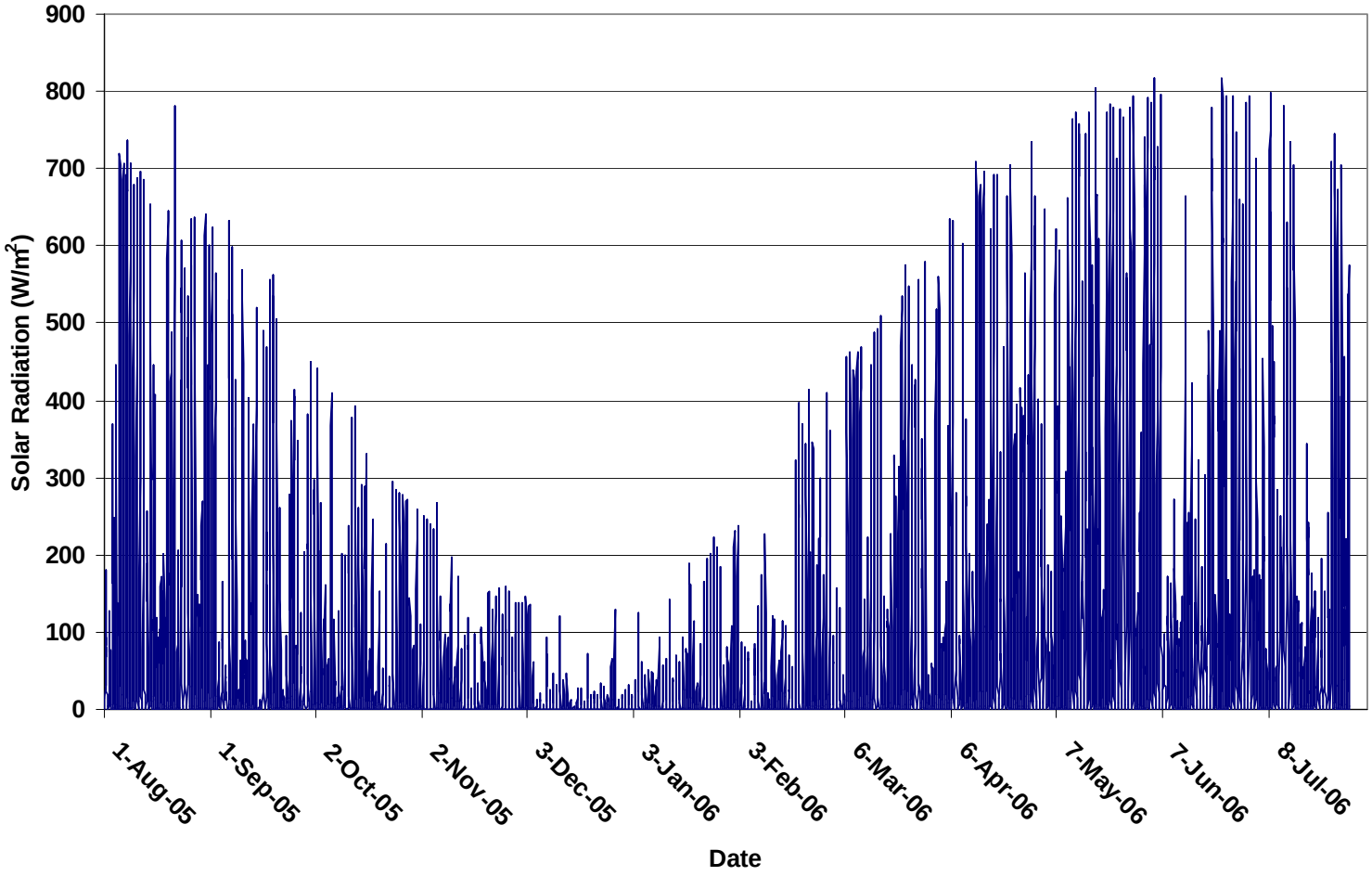


Figure 3-9. Hourly Average Solar Radiation



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Western Regional Climate Center, Desert Research Institute, Reno Nevada, *http://www.wrcc.dri.edu/summary/climsmak.html.*

Appendix A

Data Processing and Statistical Formulae

A.1 Data Recovery Percentage

Data completeness for meteorological monitoring methods was calculated assuming a minimum of 90 percent valid hourly average data to calculate quarterly average data completeness and a minimum of 90 percent quarterly data completeness for four consecutive quarters.

Quarterly data completeness (DC_i) was determined using the following equation:

$$DC_i = h_v/h_i \times 100$$

Where: h_v = number of hours of valid data actually collected

h_i = number of possible valid hours of data collection during the monitoring period

A.2 Data Bias Correction Using Calibration Information

Not Applicable.

A.3 Estimation of Pasquill-Gifford Stability Categories

Not Applicable.

Appendix B

Precision Data

Not Applicable.

Appendix C

Accuracy Data

Pebble Port PSD Meteorological Monitoring Station

June 2005

Quality Assurance Systems Audit and Performance Audit

Pebble Project
NORTHERN DYNASTY MINES INC.

for the

Pebble Project

Meteorological Monitoring Program

Iliamna, Alaska

prepared for

Northern Dynasty Mines, Inc.

Pebble Port PSD Meteorological Monitoring Station
June 2005
Quality Assurance Systems Audit
and Performance Audit

Prepared for:

Northern Dynasty Mines, Inc.
Anchorage, Alaska

Prepared by:

Hoefler Consulting Group, Inc.
3401 Minnesota Drive, Suite 300
Anchorage, Alaska 99503

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1.0 INTRODUCTION

Hoefler Consulting Group, Inc. (HCG) operates meteorological monitoring stations for Northern Dynasty Mines, Inc. (NDM) in support of the Pebble Mine Project near Iliamna, Alaska. The air monitoring program is one component of ongoing baseline environmental studies being conducted to support mine permitting, mine design and mine transportation infrastructure development. The stations meet Prevention of Significant Deterioration (PSD) guidelines, although PSD permits may not be required. This report covers the Port monitoring station located near the proposed mine port site.

The Pebble Port Station is located on the west shore of Iniskin Bay, near the southern end of the bay. The station is situated on a 50' high knoll, very near the water's edge. The Port Station consists of an instrumented 11-meter sectional tower secured with three guy wires. Approximately 20' south of the tower is a 6' by 8' insulated building which houses the datalogger and power supply system. The Pebble Port Station is instrumented with PSD quality sensors monitoring the following parameters:

- Ambient Temperature (ºC): Met One 062MP Thermistor Probe at 2-m
- Temperature Difference (ºC): Met One 062MP Thermistors at 2-m and 10-m
- Wind Speed 1 (m/s): Climatronics F460 P/N 100075 Wind Speed Sensor
- Wind Direction 1 (°): Climatronics F460 P/N 100076 Wind Direction Sensor
- Wind Speed 2 (m/s): RM Young 05305 Wind Monitor-AQ
- Wind Direction 2 (°): RM Young 05305 Wind Monitor-AQ
- Sigma Theta (°): Campbell Scientific CR10X DAS calculated (Yamartino)
- Relative Humidity (%RH): Vaisala HMP45AC Relative Humidity Sensor
- Barometric Pressure (mbar): Vaisala PT101B Barometric Pressure Sensor
- Solar Radiation (W/m2): LI-COR Li-200SX Solar Radiation Pyranometer.

This report has been prepared for NDM to serve as an official review of the Pebble Port Station and a review of the overall Pebble Project Meteorological Monitoring Program. To that end, Systems and Performance Audits were undertaken in order to help demonstrate that the equipment and procedures used for collecting meteorological data by HCG meet the requirements set forth by the U.S. Environmental Protection Agency (EPA) and the Alaska Department of Environmental Conservation (ADEC).

2.0 SYSTEMS AUDIT

2.1 Systems Audit Methodology

In the *Quality Assurance Handbook for Air Pollution Measurement Systems* and the *Meteorological Monitoring Guidance for Regulatory Modeling Applications*, EPA provides guidance for conducting systems audits. EPA recommends that a systems audit be conducted to serve as a qualitative review of all aspects of a meteorological monitoring program. The systems audit includes a review of the program plan, station site, facilities, equipment, personnel, procedures, record keeping, data validation and data reporting. The systems audit should be completed within the first 30 days of operation and every year thereafter.

The program plan was the *Draft Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program*. This systems audit consisted of a review of this document, site visits and personnel interviews. Personnel were also observed during station maintenance and calibration operations. All aspects of the program not specifically mentioned in the Plan were reviewed to determine consistency with EPA and ADEC guidelines. The complete systems audit report contained in Appendix A is organized into six major sections; 1) General Program Information, 2) Monitoring Program Staff Organization, 3) Meteorological Monitoring Station Equipment, 4) Standard Operating Procedures, 5) Documentation, 6) Data Processing and Validation, 7) Quality Assurance and Quality Control (QA/QC), and 8) Comments and Suggestions. Each section consists of a question-answer format with additional comments to provide clarity. Flow charts are also used to accurately document program staff organization and the data handling process. A complete list of the references used for the systems audit is contained in Section 4.

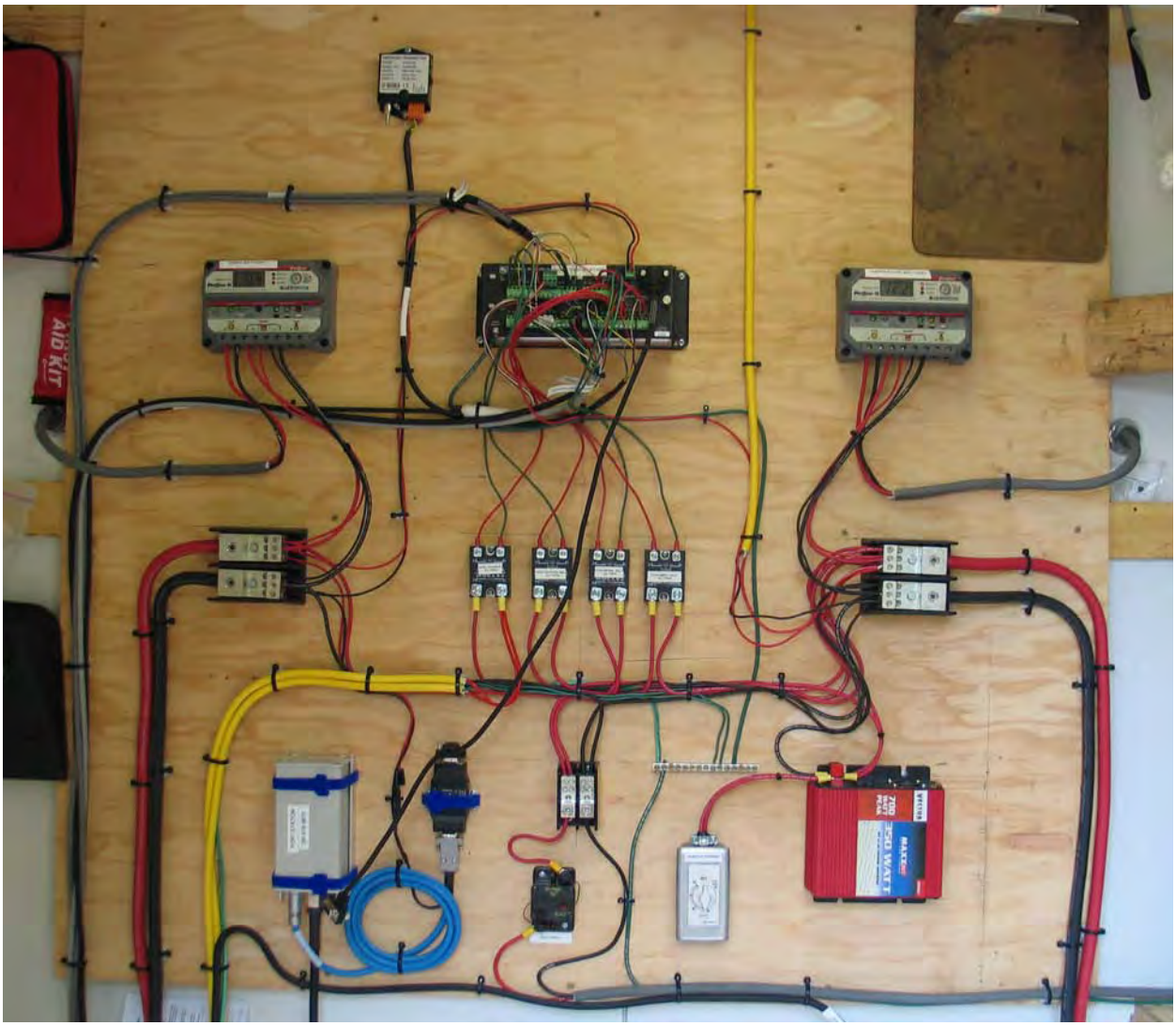
2.2 Meteorological Station On-Site Systems Audit

The on-site systems audit of the Pebble Port Station was conducted on June 25, 2005. Eric Brudie of HCG completed the systems audit with Steve Mackey and Jared Cockman of HCG and Robert Parks of NDM assisting and witnessing. Mr. Brudie serves as an independent auditor on this project and is not involved with day to day operations of the station.

The Pebble Port meteorological monitoring station is founded on a stable, well anchored tower with PSD quality sensors securely affixed. In order to protect instrumentation wires from animals; 2” liquid-tight conduit runs from the 12’ height on the tower to the prefab building. The data acquisition system (DAS), communications system, solar

controllers and power distribution system are mounted on a 4' by 4' plywood wiring panel mounted in the building, see photo.

Figure 2-1 Pebble Port Station DAS Wiring Panel



The Campbell Scientific CR10X DAS wiring is well organized and needs no further discussion. Constant communication between the DAS and a dedicated polling computer in the HCG office is integral to this installation. A Campbell Scientific SC932A interface converts the DAS signal to a RS-232 DCE modem signal. Three FreeWave spread spectrum radio modems transmit the signal to a SixNet industrial phone modem which is linked to the grid near Seldovia, Alaska. The met station radio and base radio rely on directional Yagi antennas focused on an omni-directional antenna at the repeater radio. The repeater radio is powered by one 35-Watt solar panel buffered through a solar controller and five 100 Amp-Hr deep cycle gel cell batteries.

Power generation at the meteorological monitoring station consists of four 50-Watt solar panels and a 21-Watt Global Thermoelectric Model 5030 Thermo-Electric Generator (TEG). One solar panel is dedicated to the DAS and meteorological instrumentation; wired through a Morningstar ProStar-15 solar controller and buffered through two 200 Amp-Hr deep cycle gel cell batteries. Three panels are dedicated to the aspirator fans, Climatronics heaters, shelter lighting and 120VAC power; wired through a Morningstar ProStar-15 solar controller and buffered through two 200 Amp-Hr deep cycle gel cell batteries. The shelter lights and 120VAC inverter for laptop use are routed through manual timers to ensure use only when operators are on site. During the winter months, November through April, the TEG is turned on to supplement the aspirator/heater power system. Aspirator fans and heaters are controlled through relays connected to the DAS control ports. Logic programmed into the DAS reduces power consumption by limiting heater use to weather conditions conducive to icing and turns fans off at night when voltage is low, considered an upset condition. Also the TEG power is routed through relays which shunt power to the critical DAS/sensor system during upset conditions.

2.3 Operations, Data Management and Documentation Systems Audit

This phase of the systems audit consists of a review of the HCG *Draft Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program* (Plan), and other system documentation, and a review of system operations. System operations include physically running the station and subsequent data management.

The Plan is a comprehensive document which adequately details the Pebble meteorological monitoring program. Program objectives, installations, operations, data management and quality assurance are all clearly outlined. Equally, the Pebble Port Station is representative of the Plan design. The Plan provides standard operating procedures and standard forms for all equipment field calibrations and audits. Station operators also had complete DAS and meteorological sensor manuals on hand at the station. Plan and documentation review are covered further in Appendix A.

Station operators were observed during calibration and maintenance procedures and appeared knowledgeable about all facets of operating the monitoring station. Data are downloaded daily using an automated script on a dedicated polling computer located at the HCG office. The raw data are appended to a station file located on the HCG server, which is backed up daily. The data manager copies the raw data to a custom Access/Excel database, leaving the raw data unaltered. The custom database creates a series of graphs of all meteorological data as well as some station operational parameters. These plots are reviewed 5-6 days per week in order to immediately

identify station upsets. An example is a graph of solar radiation and battery voltage; which reveals potential problems with daily charge cycles. Both the Climatronics and RM Young Wind sensor data are plotted together to indicate problems with one of the sensors. All station parameters are plotted with ranges and pairings intended to best reveal upset conditions. Problems are immediately identified and corrective action planned and executed. Steps are taken to flag data which may have been identified as suspect during this graphical data review. Data generated during station maintenance, audits and calibrations are also flagged as invalid.

Prior to compilation of data summary reports, data are screened using EPA recommended screening criteria. Data flagged as outliers by the screening program are further reviewed for consistency with prevailing conditions and then permanently invalidated or validated. Data ultimately invalidated are permanently removed from the database and the reasoning is codified in a special column in the database. This cleaned dataset is used for all subsequent data summaries, wind roses, data reports and capture rate calculations. More detailed discussion of the operations and data management are contained in the Systems Audit Appendix A.

2.4 Comments and Suggestions

The Pebble Port Station is a well designed and operated meteorological monitoring station. The remote station is equipped with a robust and sophisticated power supply. The systems audit revealed that HCG possesses the necessary organization, personnel, training, equipment, quality assurance, and quality control procedures to accurately collect and report PSD quality data. HCG adequately maintains the Pebble Port Station and practices sufficient data review and preventive maintenance to avoid unnecessary data loss.

The following recommendations are made to the program in order to improve the operation of the stations and ensure their operation is in accordance with standards:

- Create custom site visit checklists
- Keep a file on site containing copies of previous checklists.

3.0 PERFORMANCE AUDIT

3.1 Performance Audit Methodology

During the performance audit, the station datalogger is interfaced with a portable laptop computer to display the outputs for the meteorological sensors. The value of each meteorological sensor is compared to the output value from the appropriate piece of audit equipment or from calibrated instruments collocated with the sensor. The difference between the station's datalogger reading and the output from each audit instrument is compared with established PSD limits to determine the accuracy of each sensor. Additionally, threshold torques for wind speed and wind direction are measured with audit equipment and compared with manufacturer torques corresponding to the PSD threshold speed of 0.5 m/s. Table 3-1 provides a summary of the performance audit methods and limits used to audit each parameter at the stations.

Table 3-1 Performance Audit Methods and Acceptable Limits

Parameter	Audit Method	EPA/Manufacturer Limit
Datalogger Time	NOAA Clock	≤ ±5:00 minutes from AST
Temperature Accuracy	Collocated NIST thermistor	≤ ±0.5 °C
Temperature Difference	Collocated NIST thermistor	≤ ±0.1 °C
Wind Speed Accuracy	Synchronous rpm motor	≤ ±0.2 m/s + 5 % observed
Wind Spd Torque (Clim)	Torque watch	≤ 0.35 g-cm (0.0049 oz-in)
Wind Spd Torque (RMY)	Torque watch	≤ 1.0 g-cm (0.014 oz-in)
Wind Direction Alignment	GPS, compass or landmark	≤ ±5° from true azimuth
Wind Direction Accuracy	Linearity tester	≤ ±5° per audit point
Wind Direction Linearity	Linearity tester	≤ 3° mean absolute average
Wind Dir Torque (Clim)	Torque watch	≤ 7.5 g-cm (0.104 oz-in)
Wind Dir Torque (RMY)	Vane torque gauge	≤ 11 g-cm (0.153 oz-in)
Relative Humidity	Collocated NIST RH sensor	≤ ±1.5 °C of dew point
Barometric Pressure	Collocated NIST BP sensor	≤ ±3 mbar
Solar Radiation[1]	Collocated NIST sensor	≤ ±5% of input+resolutuion[2]

1. Solar radiation not audited.
2. This audit limit is modified from PSD standard, as discussed below.

3.1.1 Data Acquisition System

An audit of the datalogger is conducted by comparing all datalogger outputs to the audit standards, as described below. The datalogger time is checked against an instantaneous time reading from the National Oceanic and Atmospheric Administration (NOAA) clock in Boulder, Colorado, via a global positioning system (GPS) handheld unit or telephone contact with the NOAA clock.

3.1.2 Air Temperature and Air Temperature Difference

The 2-meter and 10-meter thermistors are removed from their aspirator shields and collocated with a National Institute of Standards and Technology (NIST) traceable digital thermometer. The station thermistors and the transfer standard NIST thermometer are taped together and immersed in insulated thermoses containing a series of water baths; hot water (35°C to 45°C), warm water (15°C to 25°C), and a water/ice bath (0°C). Each water bath is agitated and allowed to equilibrate before simultaneous readings are taken from the three instruments. The difference between the individual station thermistors and the NIST standard are compared to the PSD temperature accuracy limit of ±0.5°C. The difference between the two station thermistors (10-m°C minus 2-m°C) is compared to the PSD temperature difference limit of ±0.1°C.

3.1.3 Wind Speed

Anemometers are audited to determine their accuracies in reading known wind speeds and to ascertain the sensor's threshold torque. The Climatronics and RM Young sensors are audited in very similar manners and are discussed together. The instruments are tested after removal from the tower and after removal of the sensor's props or cups.

First, an RM Young synchronous motor is attached to the shaft of the anemometer by using brand specific coupling devices. The sensor shaft is rotated at several different known revolutions per minute (rpm). Each rotational speed in rpm is equated to a wind speed in meters per second (m/s) by using the anemometer manufacturer's linear calibration formula. The difference between the calculated input speed in m/s and the datalogger output is compared to established PSD limits for each input rpm.

Next, a high precision torque watch is attached to the shaft of the anemometer, once again using custom couplings. Torque readings are made in both directions in each quadrant along the axis of rotation of the shaft. The maximum reading is recorded for the torque required to turn the shaft of the anemometer. The torque value recorded

during the audit is compared to manufacturer's torque corresponding to the minimum PSD threshold speed of 0.5m/s.

3.1.4 Wind Direction

The wind direction sensors are first audited as-found to determine the accuracy of their alignment with respect to true north (true azimuth alignment) using one of four methods. In one method, a handheld GPS unit is used to measure the position of the auditor with respect to a waypoint captured under the wind sensor's position on the tower. Using binoculars, the tail of the wind vane is aligned with the auditor's position at a distance of several hundred feet from the tower. The GPS bearing back to the tower waypoint is then compared to the DAS reading. The difference between the two should not exceed ±5° per audit point. This procedure is repeated at least 4 times, once per quadrant, generally near the cardinal directions. The second method uses a calibrated precision compass mounted on a gimbal and tripod. The compass declination is preset for the specific location and date using one of a variety of magnetic declination computer models. The sensor tail is aligned toward the auditor while auditor sights the compass toward the sensor and readings are taken in a similar manner to the GPS method.

Another option is to align the tail of the sensor with a distant identifiable landmark of know bearing. The bearing to the landmark may be ascertained using a variety of methods. One method involves physically capturing a distant GPS waypoint, such as at a discernable structure or emissions stack. Bearings to inaccessible natural landmarks, usually distant mountain peaks, are acquired through the use of various computer mapping programs, such as Natural Geographic's TOPO program or USGS digital raster graphics (DRGs) loaded into AutoCAD. The bearing from the station location to the landmark is compared to the DAS reading. This method yields the most accurate audit value, but is limited by weather and availability of discernable landmarks. The final method is to align the vane with the tower guy wires or preset survey markers, whose bearing has been ascertained using precision survey equipment.

The wind direction accuracy and linearity are subsequently audited after the wind direction sensor is removed from the tower. The Climatronics sensor is mounted on a Climatronics Model 101984 linearity tester and the RM Young sensor is mounted on an RM Young Model 18112 Vane Angle Bench Stand. Both test fixtures are keyed to their respective sensor and graduated from 0° to 360°. A series of readings starting at 30° and then clockwise in 30° increments are taken. The RM Young is read from 30° to 360° and the Climatronics is read from 30° to 540°. The Climatronics sensor is tested 180° past 360° in order to test the second potentiometer used in some DAS

programming. Although not required, the Climatronics sensor is also tested with the vane attached in order to ascertain sensor accuracy and linearity relative to the instrument crossarm. The vane is aligned along the axis of the crossarm to yield the 0°/360° and 180° values and against a square held to the crossarm for the 90° and 270° directions. Four readings are taken in a clockwise direction and four are taken counterclockwise to complete the test. For both the linearity test fixture and crossarm tests, individual error values are assessed for the PSD accuracy limit of ±5° per point and the mean absolute average error is assessed against the linearity limit of 3°.

Next, the RM Young wind direction threshold is tested by measuring wind vane torque using an RM Young Model 18331 Vane Torque Gauge. This device saddles the wind vane and a calibrated spring is pulled to determine maximum torque from readings taken in both directions in all four quadrants. The Climatronics wind direction starting torque is measured with the vane removed by using a precision torque watch in the same manner as the wind speed torque. The highest torque readings are compared to specific manufacturer limits for instrument staring torque.

Finally, the wind direction sensors are placed back on the tower and as-left audits of the azimuth alignments are conducted to ensure the instruments are properly reinstalled.

3.1.5 Relative Humidity

Relative humidity (RH) is audited using a collocated NIST traceable RH sensor. The NIST sensor and the field sensor are collocated out of direct sunlight to eliminate solar radiation effects, preferably inside of the motor aspirated shield. If the NIST standard reads directly in dew point °C, those readings are used; if not, relative humidity and temperature readings are used. For the audit, instantaneous readings of dew point, relative humidity and temperature are recorded from the transfer standard and the DAS. All relative humidity and temperature readings are converted to dew point in order to assess the PSD error limit of ±1.5°C dew point.

3.1.6 Barometric Pressure

Barometric pressure (BP) is audited using a collocated NIST traceable BP sensor. The difference between the NIST sensor and the station sensor are compared to the PSD limit of ±3 mbar.

3.1.7 Solar Radiation

Outputs of the station sensor are compared to the output of a level collocated audit solar radiation sensor. The audit sensor is connected to an independent audit datalogger with the scan interval and clock synchronized with the station DAS. Hourly

average solar radiation readings and instantaneous readings are recorded during the audit and then input into a custom spreadsheet to calculate a linear regression for the data. The PSD limit for solar radiation audits is ±5% of observed, but this standard is very difficult to obtain at the northern latitude of this installation. This EPA standard is currently undergoing review and is expected to change. A well excepted substitute is that individual DAS and audit data pairs are compared to a limit of ±5% of observed **+ EPA minimum instrument resolution (10W/m²)**. Individual data pairs are evaluated against this standard, but the overall set is restricted to a 5% error by limiting allowable linear slope to 1.0±0.05.

3.2 Performance Audit Results

The initial performance audit was conducted at the Pebble Port Station on June 25, 2005, shortly after startup. Steve Mackey and Jared Cockman of HCG and Robert Parks of NDM assisted. The relative humidity sensor and barometric pressure sensor were audited on July 19, 2005 because the transfer standards were not available in June. All sensors, except the solar radiation sensor, were challenged with certified audit equipment and yielded errors below the PSD limits. The solar radiation audit was not completed because adequate audit equipment was not available at the time of the audit. Summary audit results are contained in Table 3-2 and complete audit reports and audit equipment calibration certificates are contained in Appendix B and Appendix C respectively.

3.3 Performance Audit Recommendations

- None.

Table 3-2 Port Station June 25, 2005 & July 2005 Performance Audit Summary

Parameter	Limit	Units	Max Err	Status
Datalogger Time	≤ ±5:00	Min:Sec	0:02	Pass
2-m Temperature Accuracy	≤ ±0.5	°C	0.35	Pass
10-m Temperature Accuracy	≤ ±0.5	°C	0.30	Pass
Air Temperature Difference	≤ ±0.1	°C	-0.05	Pass
Climatronics Wind System				
Wind Speed Torque	≤ 0.0049	oz-in	<<0.003	Pass
Low Wind Spd. Accuracy (≤5m/s)	≤ ±0.2	m/s	0.00	Pass
High Wind Spd. Accuracy (>5m/s)	≤ ±5	% input	0.0	Pass
Wind Direction Torque	≤ 0.104	oz-in	0.060	Pass
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	-1.8	Pass
Wind Direction Accuracy	≤ ±5	Degree	1.9	Pass
Wind Direction Linearity	≤ 3	Degree	0.9	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	N/A[2]	N/A
RM Young Wind System				
Wind Speed Torque	≤ 0.014	oz-in	0.006	Pass
Low Wind Spd. Accuracy (≤5m/s)	≤ ±0.2	m/s	0.00	Pass
High Wind Spd. Accuracy (>5m/s)	≤ ±5	% input	0.0	Pass
Wind Direction Torque	≤ 11	g-cm	5.0	Pass
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	1.3	Pass
Wind Direction Accuracy	≤ ±5	Degree	-3.5	Pass
Wind Direction Linearity	≤ 3	Degree	2.5	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	N/A[2]	N/A
Relative Humidity (dew point) [1]	≤ ±1.5	°C	0.4	Pass
Barometric Pressure[1]	≤ ±3	Mbar	1.9	Pass
Solar Radiation	≤ ±5+Res	% input	No Test	N/A

1. Relative humidity and barometric pressure tested on 07/19/05.
2. Initial installation audit, azimuth audited after all other tests.

4.0 REFERENCES

"Draft Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program", Hoefler Consulting Group, Inc.

"Quality Assurance Manual for Ambient Air Quality Monitoring" ADEC, August 1996.

"Elements for Ambient Air Monitoring Quality Assurance Project Plan (QAPP)", ADEC, September 2004.

"Ambient Air and/or Meteorological Monitoring Quality Assurance Project Plan (QAPP) Review Checklist", ADEC, September 2004.

"Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)", EPA-450/4-87-007, May 1987.

"Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring", EPA-40 CFR Part 58, Appendix B, November 2004.

"On-Site Meteorological Program Guidance for Regulatory Modeling Applications", EPA-450/4-87-013, August 1995.

"Meteorological Monitoring Guidance for Regulatory Modeling Applications", EPA-454/R-99-005, February 2000.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Part I, Ambient Air Quality Monitoring Program Quality System Development", EPA-454/R-98-004, August 1998.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements", EPA/600/R-94/038d, March 1995.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume V: Precipitation Measurement Systems", EPA/600/R-94/038e, April 1994.

APPENDIX A
SYSTEMS AUDIT DATA SHEETS

Pebble Port PSD Meteorological Station Systems Audit

Owner: NDM **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Audit Date:** 25-Jun-05
Witnesses: S. Mackey, Jared Cockman, Robert Parks **Auditor:** Eric Brudie

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1.0 GENERAL PROGRAM INFORMATION

1.1 Site Description

The Pebble Port tower is located near the middle of a small point on the west shore of Iniskin Bay. The 50' high point is approximately 75' wide and 150' long and is vegetated with Alders, low shrubs and small Spruce trees. East of the station are the waters of Iniskin Bay and to the west the topography rises steeply to almost 3,000'.

1.2 Site Location

1.2.1 Coordinates

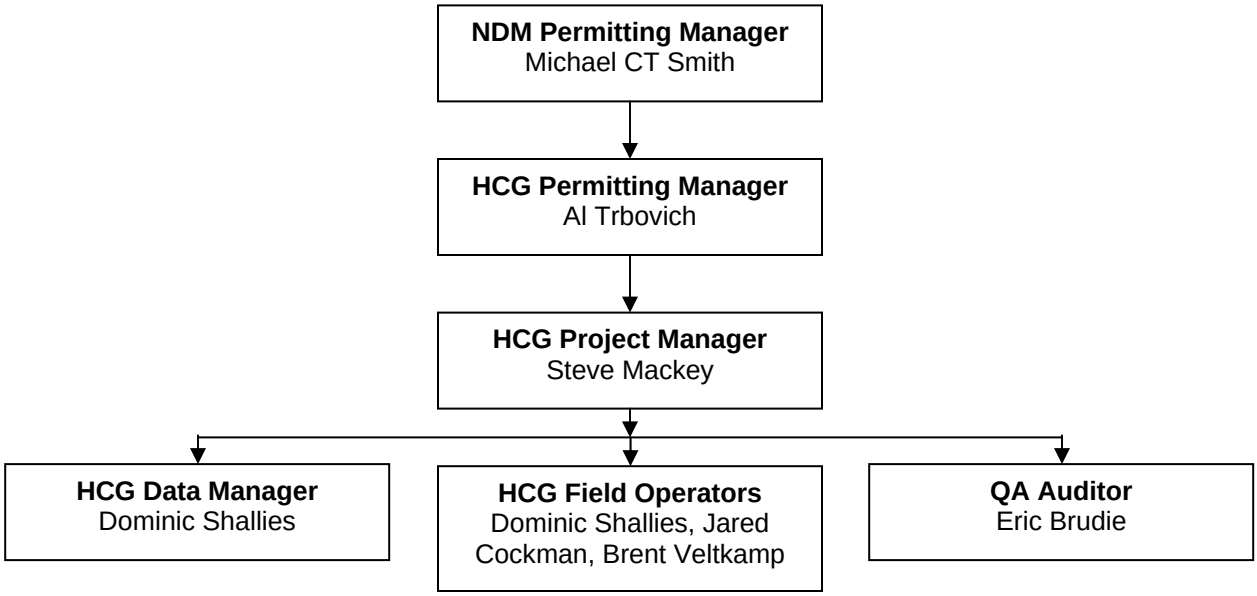
Indicated by Operator	Determined by Auditor
59° 39' N	59° 38.959' N
153° 28' W	153° 28.314' W
Elevation: 40 feet	Elevation: 50 feet

1.2.2 Appearance and Safety

Does the site appear clean, organized and well maintained?	■ Yes □ No	Comments: None.
Does the site appear to be safe and reasonably hazard free?	■ Yes □ No	Comments: None.
Does the site have a shelter for operators?	■ Yes □ No	Comments: None.
Does the site have emergency equipment such as a first aid kit available?	■ Yes □ No	Comments: None.
Does the site have adequate measures to prevent human tampering?	■ Yes □ No	Comments: 6' fence surrounds station.
Does the site have adequate measures to prevent damage from animals?	■ Yes □ No	Comments: Cables protected in liquid-tight conduit and electronics inside shelter.

2.0 MONITORING PROGRAM STAFF ORGANIZATION

- Draw diagram indicating the organizational structure of the monitoring program. Include names and titles:



3.0 METEOROLOGICAL MONITORING STATION EQUIPMENT

3.1 Inventory

Parameter	Make	Model	Serial No.
DAS	Campbell Scientific	CR10X	X41611
DAS Wiring Panel	Campbell Scientific	CR10X	31375
Temperature (2-meter)	Met One	062MP	E3381, ID #1/2
Temperature (10-meter)	Met One	062MP	E3381, ID #2/2
Temperature Aspirators	Met One	076B-4	Unknown
Primary Wind Speed	Climatronics	F460-100075	5008
Primary Wind Speed Cups	Climatronics	HD Al. P/N 101287	2285
Primary Wind Direction	Climatronics	F460-100076	4690
Primary Wind Direction Vane	Climatronics	HD P/N 101288	1425
Wind Sigma	Campbell Scientific	DAS Calculated	N/A
Backup Wind Speed	RM Young	05305 Wind Mon-AQ	67055
Backup Wind Speed Prop	RM Young	08254	63037
Backup Wind Direction	RM Young	05305 Wind Mon-AQ	67055
Relative Humidity	Vaisala	HMP45AC	A2120081
Barometric Pressure	Vaisala	PTB101B	A1950006
Solar Radiation	LI-COR	Li-200SX	PY50763

3.2 Equipment Evaluation

3.2.1 Data Acquisition System (DAS) and Communications System

Is the DAS well protected from the elements with adequate room for maintenance?	■ Yes □ No	Comments: DAS inside of a weatherproof building, mounted on a 4'x4' wiring panel.
Is the DAS rated for operation in the expected local temperature range?	■ Yes □ No	Comments: -55°C to + 85°C.
Are all sensor cables neatly and securely connected to the correct DAS channels?	■ Yes □ No	Comments: Well organized wiring panel.
Is remote communication to the DAS system available to operators?	■ Yes □ No	Comments: DAS to SC932A interface to FreeWave RF network to SixNet modem.
Are all components of the DAS and communications system operational?	■ Yes □ No	Comments: None.
Are the DAS and communication equipment properly grounded?	■ Yes □ No	Comments: 8' ground rod wired to central ground buss.
Are the DAS and communication equipment protected from lightning?	□ Yes ■ No	Comments: There is no lighting protection, but area not prone to strikes.

3.2.2 Power Supply System

Does the system have a stable power supply or line power?	■ Yes □ No	Comments: Very robust alternative power supply described below.

- Describe the meteorological monitoring station power supply system.

The DAS, communications equipment and meteorological sensors are powered by one 50-Watt solar panel, buffered through two 200 amp-hr deep cycle gel cell batteries. The aspirator fans and Climatronics wind sensor heaters are powered by three 50-Watt solar panels buffered through two 200 amp-hr deep cycle gel cell batteries. During the winter months (November through April), the aspirator/heater system is also powered by a 21-Watt propane Thermo-Electric Generator (TEG). The isolated DAS and Aspirator power systems can be interconnected during upset conditions through an array of relays managed through the DAS control ports. The DAS monitors battery levels and can shunt the two power systems should one run low. The DAS also has algorithms programmed to assess weather conditions and limit heater use when not required.

3.2.3 Meteorological Monitoring Sensors

Do all sensors appear to be clean, intact, in good condition and well maintained?	■ Yes □ No	Comments: None.
Are all sensors operational, online and reporting data?	■ Yes □ No	Comments: None.
Do all sensors meet EPA criteria for PSD quality sensors?	■ Yes □ No	Comments: See table below.
Are spare parts stocked for items which are frequently worn out or broken?	■ Yes □ No	Comments: Spare props, cups and vanes onsite and spare bearings at HCG office.

3.2.4 EPA PSD Meteorological Instrument Standards

Parameter	Instrument Specifications	EPA Standard	Pass?
Air Temperature (2-M, 10-M & Delta-T) – Met One Mdl. 062MP			
Accuracy (2-m & 10-m):	±0.05 °C	±0.5 °C	Yes
Accuracy (Delta-T):	±0.02 °C	±0.1 °C	Yes
Range (Operating Temp):	-50°C to +50°C	-20°C to +30°C	Yes
*Resol. (2-m & 10-m):	0.01°C	0.1°C	Yes
*Resolution (Delta-T):	0.01°C	0.02°C	Yes
Response Time:	10 seconds	≤1 minute	Yes
Wind Speed – Climatronics Mdl. F460-100075			
Accuracy:	±0.07 m/s or ±1% of obs.	±0.2 m/s + 5% of observed	Yes
Range:	0.0 m/s to 65 m/s	0.5 m/s to 50 m/s	Yes
*Resolution:	0.01m/s	0.1 m/s	Yes
Threshold Speed:	0.22 m/s	≤0.5 m/s	Yes
Distance Constant:	<4.0 m (HD Alum. Cups)	≤5 m	Yes
Operating Temperatures:	-40°C to +60°C	-30°C to + 30°C	Yes
Wind Direction – Climatronics Mdl. F460-100076			
Accuracy:	±2°	±5°	Yes
Range:	0° to 360°	0° to 360°	Yes
*Resolution:	0.1°	1°	Yes
Threshold Speed:	0.22 m/s	≤0.5 m/s	Yes
Distance Constant:	<2.5 m (Heavy Duty Vane)	≤5 m	Yes
Damping Ratio:	>0.4 @10° initial angle	0.4 to 0.7	Yes
Operating Temperatures:	-50°C to +60°C	-30°C to + 30°C	Yes
Wind Speed – RM Young Mdl. 05305 Wind Monitor-AQ			
Accuracy:	±0.2 m/s or 1% of observed	±0.2 m/s + 5% of observed	Yes
Range:	0.0 m/s to 50 m/s	0.5 m/s to 50 m/s	Yes
*Resolution:	0.01m/s	0.1 m/s	Yes
Threshold Speed:	0.4 m/s	≤0.5 m/s	Yes
Distance Constant:	2.1 m	≤5 m	Yes
Operating Temperatures:	-50°C to +50°C	-30°C to + 30°C	Yes
Wind Direction – RM Young Mdl. 05305 Wind Monitor-AQ			
Accuracy:	±3°	±5°	Yes
Range:	0° to 360°	0° to 360°	Yes
*Resolution:	0.1°	1°	Yes
Threshold Speed:	0.5 m/s @10° displacement	≤0.5 m/s	Yes
Distance Constant:	1.2 m	≤5 m	Yes
Damping Ratio:	0.45	0.4 to 0.7	Yes
Operating Temperatures:	-50°C to +50°C	-30°C to + 30°C	Yes
Relative Humidity – Vaisala Mdl. HMP45AC			
Accuracy:	±2/3% at 0-90/90-100% RH	±1.5°C Dew Point**	Yes
Range:	0.8% to 100% RH	-30°C to +30°C Dew Point**	Yes
*Resolution:	0.1% RH	1% RH	Yes
Response Time:	10 sec	≤30 minutes	Yes
Operating Temperatures:	-40°C to +60°C	-30°C to + 30°C	Yes
** EPA criteria in units of dew point, RH and operating temperature ranges meet these criteria.			
Barometric Pressure – Vaisala Mdl. PTB101B			
Accuracy:	±0.5 mbar	±3 mbar	Yes
Range:	600 mbar to 1060 mbar	Not Specified	N/A
*Resolution:	0.1 mbar	0.5 mbar	Yes
Response Time:	300 msec	Not Specified	N/A
Operating Temperatures:	-40°C to +60°C	Not Specified	N/A

EPA Recommended Meteorological Instrument Standards (Continued)

Parameter	Instrument Specifications	EPA Standard	Pass?
Solar Radiation – LI-COR Mdl. Li-200SX Pyranometer			
Accuracy:	±5% Observed	±5% Observed	Yes
Range:	0 W/m^2 to 3000 W/m^2	Not Specified	N/A
*Resolution:	1 W/m^2	10 W/m^2	Yes
Response Time:	10 µs	5 seconds	Yes
Spectral Response:	400 nm to 1,100 nm	285 nm to 2800 nm	No
Operating Temperatures:	-40°C to +65°C	-20°C to +40°C	Yes
* For all instruments; resolutions are the result of instrument type, configuration and DAS programming.			

3.3 Station Location and Siting

3.3.1 Tower

Do all obstructions exist below a 1:10 slope away from the tower base? ■ Yes □ No Comments: None.

Is the height of the tower 10 meters above the ground? ■ Yes □ No Comments: None.

Is the tower stable and plumb? ■ Yes □ No Comments: None.

Is the tower protected from lightning? □ Yes ■ No Comments: There is no lighting protection, but area not prone to strikes.

3.3.2 Temperature and Relative Humidity Sensors

Are the sensors mounted at least 2-m above open level ground at least 9-m in diameter? ■ Yes □ No Comments: None.

Are the temperature difference probes at heights of 2-m and 10-m above the ground? ■ Yes □ No Comments: None.

Are the sensors at a distance greater than four times the height of any obstruction? ■ Yes □ No Comments: None.

Is the ground beneath the temperature sensors natural native material? ■ Yes □ No Comments: None.

Is the site free of any natural features that could bias temperature data (e.g. open water, sloping ridge, etc.)? ■ Yes □ No Comments: None.

Is the site free of any man-made features that could bias temperature data (e.g. asphalt, concrete, exhaust plumes, etc.)? ■ Yes □ No Comments: None.

Are the sensors located at least 30 meters from large paved areas? ■ Yes □ No Comments: None.

Is the ambient temperature sensor protected from the influence of solar radiation? ■ Yes □ No Comments: Housed in Met One Mdl 076B-4 Motor Aspirated Radiation Shield.

Are the temperature difference sensors located in identical aspirated shields? ■ Yes □ No Comments: Housed in Met One Mdl 076B-4 Motor Aspirated Radiation Shields.

3.3.3 Wind Speed and Wind Direction Sensors

Is the horizontal distance between the instruments and any obstruction at least 10 times the height of the obstruction?	■ Yes □ No	Comments: None.
Are the instruments at least 1.5 times nearby building height(s) above the building roof(s), or 10-m high?	■ Yes □ No	Comments: None.
Are the wind speed and wind direction sensors stable and plumb?	■ Yes □ No	Comments: None.
Is the distance of the sensor on the cross-arm at least twice the diameter of the tower?	■ Yes □ No	Comments: Climatronics Sensors mounted on a crossarm which meets this criterion.
Is the distance of the sensor on the cross-arm at least twice the diameter of the tower?	■ Yes □ No	Comments: RM Young sensor mounted on an extension arm which meets this criterion.
Is the wind direction sigma theta data being collected according to EPA requirements?	■ Yes □ No	Comments: DAS calculated using Yamartino method and a one-second scan interval.

3.3.4 Relative Humidity and Barometric Pressure

Is the relative humidity sensor open to the atmosphere & protected from precipitation?	■ Yes □ No	Comments: Housed in 2-m aspirated shield with temperature sensor.
Is the barometric pressure sensor open to atmosphere & protected from precipitation?	■ Yes □ No	Comments: Housed in unsealed shelter, mounted on wiring panel.

3.3.5 Solar Radiation

Is the instrument situated above the plane of any obstructions that could cast shadows?	■ Yes □ No	Comments: None.
Is the sensor situated south of the tower to minimize obstruction from the tower?	■ Yes □ No	Comments: None.

4.0 STANDARD OPERATING PROCEDURES

4.1 General

Is the station visited on a preset schedule?	■ Yes □ No	Comments: None.
Have standard SOPs been developed, and are they being followed by the operators?	■ Yes □ No	Comments: None.
Does the operator follow a preventative maintenance schedule?	■ Yes □ No	Comments: None.
Are site visits and maintenance activities properly documented in a Station Log?	■ Yes □ No	Comments: Site visit memos are compiled.
Are station operators knowledgeable and competent regarding effective operation?	■ Yes □ No	Comments: None.
Have operators attended any formal training for operating met monitoring stations?	□ Yes ■ No	Comments: All operators have one to two years onsite experience.

Are copies of the NIST certifications for the calibration equipment made available?	■ Yes □ No	Comments: Attached.

4.2 DAS and Meteorological Sensors

Are regular multipoint QC checks performed on the DAS?	■ Yes □ No	Comments: DAS audited by virtue of the instrument output values.
Are regular multipoint QC checks performed on the meteorological sensors?	■ Yes □ No	Comments: None.
Are the sensors visually inspected for defects and problems?	■ Yes □ No	Comments: None.
Are ambient conditions compared with sensor readings from the DAS?	■ Yes □ No	Comments: DAS output compared to Iliamna Airport weather station.
Are data frequently reviewed for reasonableness and completeness?	■ Yes □ No	Comments: None.
Is a copy of the datalogger program made available for review?	■ Yes □ No	Comments: None.

5.0 DOCUMENTATION

5.1 System Reference and Maintenance Manuals

Does the operator have all required DAS and meteorological instrument manuals?	■ Yes □ No	Comments: On-site and at HCG offices.
Does the operator have configuration and wiring schematics specific to the station?	■ Yes □ No	Comments: Operator carries wiring schematics.

5.2 Station Monitoring Plan and Report Forms

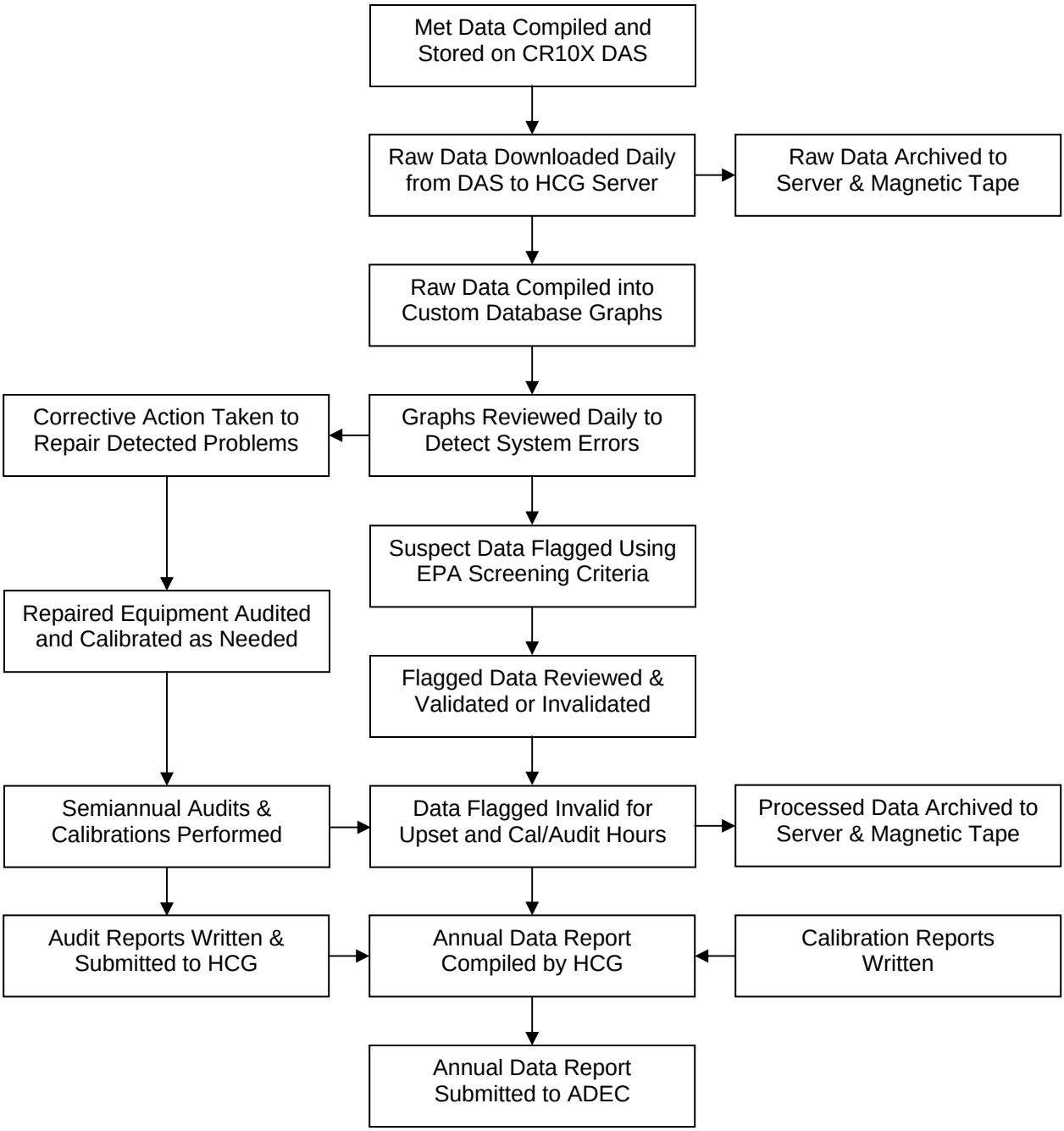
Is the Monitoring/QA plan comprehensive and reflective of the actual installation?	■ Yes □ No	Comments: None.
Does the Monitoring/QA plan indicate the intended use for the data collected during the monitoring program?	■ Yes □ No	Comments: Collect PSD quality data to meet dispersion modeling requirements and satisfy mine/transportation design requirements.
Does the system outlined in the QA plan meet the objectives outlined above?	■ Yes □ No	Comments: PSD quality installation.
Does the QA Plan indicate the intended schedule for reports to be submitted?	■ Yes □ No	Comments: None.
Does the station have an activity log?	□ Yes ■ No	Comments: Site visit memos written after each visit to supplant a log book.
Does the station have a formal Site Visit and Checklist Form?	□ Yes ■ No	Comments: No formal checklist used.
Does the station have an adequate Operations Manual?	■ Yes □ No	Comments: Monitoring/QA plan and equipment manuals.

Does the station have an adequate Calibration Report Form and copies of previous calibrations and audits?	■ Yes □ No	Comments: None.
Are report forms and site logs properly completed and current?	■ Yes □ No	Comments: None.

6.0 DATA PROCESSING and VALIDATAION

6.1 Overall Data Management

- Diagram the flow of data from monitoring equipment to submission of a final report.



6.2 Data Collection and Initial Data Review

Is the station polled and data downloaded on a regular basis?	■ Yes □ No	Comments: Daily via RF modem and telephony modem.
Are the monitoring station data reviewed on a regular basis?	■ Yes □ No	Comments: Data imported into custom graphs and reviewed 5-6 days per week.
Are the monitoring station data screened on a regular basis?	■ Yes □ No	Comments: Data screened using EPA criteria prior to summary compilations.
Are procedures in place for backing up raw data?	■ Yes □ No	Comments: Raw data files are backed up on the HCG server and on magnetic tape.
Are written procedures for data handling available for the project?	■ Yes □ No	Comments: None.

- Describe the data polling process and initial data evaluation.

Data is downloaded from the station on a daily basis using a dedicated data polling computer located at the HCG office. The raw *.dat file is appended to the existing raw station data file located on the HCG server, which is backed up to tape daily. The raw data are copied to an Access/Excel database file which generates custom graphs of the various meteorological and operational parameters. These graphs are reviewed 5-6 days per week in order to identify station problems. This graphical data review is the frontline of maintaining a complete and defensible dataset. Station upsets are instantly identified and repaired within days. Copies of both the raw unadjusted data and the custom database files are retained for a minimum of 5 years.

6.3 Corrective Actions

Are procedures established for initiating corrective actions during data processing?	■ Yes □ No	Comments: Daily graphical data review and subsequent reactions.

- Describe procedures for initiating, tracking and closing corrective actions.

When nonconformance issues are recognized during graphical review, the Lead Operator/Data Manager plans and executes corrective action. A calibration check is performed on any sensor which is repaired or replaced during the action. A site visit memo outlining the nature of the problem and repairs undertaken is written and saved to the station file. Any quantifiable error is also documented for possible data validation. The Operator/Data Manager ensures the erroneous data are flagged for the period from initial noncompliance until repair and calibration.

6.4 Data Validation

Are data validation procedures established and in use?	■ Yes □ No	Comments: None.
Are adjusted and unadjusted data sets maintained?	■ Yes □ No	Comments: Both are backed up on the HCG server and magnetic tape.

- Describe the initial data validation procedure.

Data is compiled in a custom Excel spreadsheet programmed to evaluate meteorological data against EPA recommended PSD data screening criteria. The data are screened for events such as; extended periods of zero wind speed (indicating icing or worn bearings), temperatures outside of the known monthly max/min for the area, etc. Nonconforming data are flagged by the screening program for further investigation. Also, data periods for individual parameters are flagged for times when the corresponding instrument was undergoing field servicing, calibrations or audits. Periods when instruments are known to have been out of calibration or malfunctioning are also flagged.

- Describe procedures for validating and invalidating flagged data (outliers).

Data flagged during the screening process described above are manually reviewed. If the data have a quantifiable, consistent and documented bias, they may be adjusted and then validated. Specific guidelines are detailed in the Plan. Data which have been flagged by the screening program are also compared to local weather conditions as determined from other sources. Examples where data flagged during screening may be validated include periods when winds were known to have been exceptionally calm at nearby stations or extreme temperatures outside the historical max/min were witnessed. At this point, flagged data are permanently validated and left in the database or invalidated and removed from the database. Data removed from the database are replaced with an alphanumeric code to indicate the reason for invalidation.

- Identify those responsible for data validation.

Name: Dominic Shallies
Position: Lead Operator & Data Manager
Affiliation: Hoefler Consulting Group, Inc.

Name: Isaac Bertschi
Position: Data Management
Affiliation: Hoefler Consulting Group, Inc.

6.5 Data Capture

- Identify the desired data capture rate for the monitoring data.

Target rate for PSD Quality Meteorological Monitoring Data is 90%.

Is the desired data capture rate being met for each data type?	■ Yes □ No	Comments: None.

6.6 Data Reporting

Are quarterly and annual data reports being submitted for the site?	■ Yes □ No	Comments: None
Are qualified staff personnel reviewing data reports prior to submittal?	■ Yes □ No	Comments: None.
Is finalized data set submitted with report to ADEC?	■ Yes □ No	Comments: None.

7.0 QUALITY ASSURANCE AND QUALITY CONTROL

7.1 Quality Assurance Program

Has a quality assurance plan been written describing quality assurance procedures?	■ Yes □ No	Comments: None.
Is a copy of the plan available to field and data processing personnel?	■ Yes □ No	Comments: None.
Has the quality assurance plan been approved by the ADEC?	■ Yes □ No	Comments: None.

- Identify those person(s) responsible for updating the plan SOPs.

Name: Steve Mackey
Position: Project Manager
Affiliation: Hoefler Consulting Group, Inc.

7.2 Quality Assurance Methods and Audits

Have adequate audit procedures been identified within the quality assurance plan?	■ Yes □ No	Comments: None.
Does the Plan correctly document PSD accuracy limits for calibrating and auditing?	■ Yes □ No	Comments: None.
Have audits been conducted on the suggested schedule of every six months?	■ Yes □ No	Comments: None.

- Identify the person(s) responsible for conducting audits on the monitoring instrumentation.

Name: Eric Brudie
Position: Field Auditor
Affiliation: Hoefler Consulting Group, Inc.

8.0 COMMENTS AND SUGGESTIONS

- Prepare and compile site specific station checklists and visit forms.

APPENDIX B
PERFORMANCE AUDIT DATA SHEETS and ALIGNMENT MAP

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Steve Mackey, Jared Cockman, Robert Park **Audit Date:** 25-Jun-05

● *DAS TIME AUDIT*

PSD Limits: DAS time = Alaska Standard Time (AST) +/- 5 minutes.
Conversions: Winter; (AST) = (DST), Summer; (AST) = (DST) - 1 hr.
Comments: None.

DAS TIME vs. NOAA CLOCK			
AST Time	DAS Time	Error Min:Sec	Pass/ Fail?
15:05:00	15:05:02	**00:02**	**PASS**

● *TEMPERATURE SENSORS & ΔT AUDIT*

Lower Height: 2.0 **Meters** **Upper Height:** 10.0 **Meters**

2-M Thermistor: **Make:** Met One **Model:** 062MP **S.N.#:** E3381 # 1/2 **Range:** -50 to 50 **°C**
10-M Thermistor: **Make:** Met One **Model:** 062MP **S.N.#:** E3381 # 2/2 **Range:** -50 to 50 **°C**
Audit Digital Thermometer: **Make:** Van Waters & Rogers **Model:** 61220-601 **S.N.#:** 51091749 **Range:** -40 to 150 **°C**
Audit Probe: **Make:** Van Waters & Rogers **Model:** 61220-604 **S.N.#:** 51091789 **Range:** -40 to 150 **°C**

Begin: 1400
End: 1420

COLLOCATED THERMISTOR TEST										
Thermal Input			Station Response (2M)			Station Response (10M)			Station (Delta T)	
Temp Range	Target °C	Input °C	DAS °C	Error °C	Pass/ Fail?	DAS °C	Error °C	Pass/ Fail?	Delta T °C	Pass/ Fail?
Ice Bath	0	0.07	0.42	0.35	Pass	0.37	0.30	Pass	-0.05	Pass
Warm	15 to 25	20.89	21.09	0.20	Pass	21.09	0.20	Pass	0.00	Pass
Hot	35 to 45	40.15	40.25	0.10	Pass	40.20	0.05	Pass	-0.05	Pass
		Max Abs. Error		0.35	**PASS**		0.30	**PASS**	0.05	**PASS**

PSD Limits: Max Absolute Error > 0.5 °C (Sensor Accuracy); Max Absolute Error > 0.1 °C (Delta Temperature).
Comments: None.

● *RELATIVE HUMIDITY SENSOR AUDIT*

Height: 2.0 **Meters**

RH Sensor: **Make:** Vaisala **Model:** HMP45AC **S.N.#:** A2120081 **Range:** 0.8 to 100 **% RH**
Audit Equipment: **Make:** Vaisala **Model:** HMI 41 **S.N.#:** X0650080 **Range:** 0 to 100 **% RH**
Audit Equipment: **Probe#** HMI41 X07450015

COLLOCATED STANDARD TEST								
Reading Time	Input %RH	Input AT (°C)	Input DP (°C)	DAS %RH	DAS AT (°C)	DAS DP (°C)	Error DP (°C)	Pass/ Fail?
1130	70.1	15.2	9.8	71.8	15.2	10.1	0.4	Pass
					Max Abs. Error		0.4	**PASS**

PSD Limits: Max Absolute Error > 1.5°C Dew Point.
Conversions: Td=DP(°C), Ta=AT(°C), RH=Fraction: Td=b*ע/(a-ע), where ע=a*Ta/(b + Ta) + ln(RH), and a = 17.27, b=237.7°C.
Comments: Relative humidity audited on 07/19/05.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Steve Mackey, Jared Cockman, Robert Park **Audit Date:** 25-Jun-05

● *BAROMETRIC PRESSURE SENSOR AUDIT*

Height: N/A **Meters**

Pressure Sensor: **Make:** Vaisala **Model:** PTB101B **S.N.#:** A1950006 **Range:** 600-1060 **hPa**
Audit Equipment: **Make:** PRETEL **Model:** AltiPlus A2 **S.N.#:** 27806 **Range:** 470-1040 **hPa**

COLLOCATED STANDARD TEST						
Reading Time	Raw Input in Hg	Adj Input in Hg	Adj Input mb	DAS mb	Error mb	Pass/ Fail?
1143	29.99	29.87	1011.5	1013.4	1.9	Pass
			Max Abs. Error		1.9	**PASS**

Audit Inst Cal Data	
Cal. Date: 05/23/05	
Audit Inst	Offset Amount
24.13	-0.13
26.18	-0.13
28.12	-0.12
30.12	-0.12
Intercept	**-0.18**
Slope	**0.0020**

PSD Limits: Max Absolute Error > 3mb (0.3kPa).
Comments: Barometric pressure audited on 07/19/05.

● *HORIZONTAL WIND SPEED SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Spd Sensor: **Make:** Climatronics **Model:** 100075 **S.N.#:** 5008 **Cup #:** 2285 **Range:** 0-60 **m/s**
Audit Equipment: **Low Spd:** RM Young **Model:** 18811 **S.N.#:** CA02136 **Torque:** Watters Mdl 366-3 **S.N.#:** 4864
Audit Equipment: **High Spd:** RM Young **Model:** 18801 **S.N.#:** CA06174

Begin: 1450
End: 1455

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.0049	<<0.003	**PASS**
New	0.0049	N/A	N/A

SYNCHRONOUS MOTOR TEST					
Input rpm	Input m/s	DAS m/s	Error m/s	Error % Input	Pass/ Fail?
0	0.22	0.22	0.00	N/A	Pass
100	2.57	2.57	0.00	N/A	Pass
200	4.92	4.92	0.00	N/A	Pass
400	9.62	9.62	N/A	0.0	Pass
1000	23.72	23.72	N/A	0.0	Pass
2000	47.22	47.21	N/A	0.0	Pass
	Max Abs. Error		**0.00**	**0.0**	**PASS**

PSD Limits: Threshold Torque >0.35gm-cm (0.0049oz-in) @ 0.50m/s. Max Absolute Error > 0.20m/s @ WS<=5m/s or > 5% of input @ WS>5m/s.
Conversions: Heavy Duty Al Cups: m/s = rpm÷42.55+0.22. gm-cm=72*oz-in.
Comments: None.

● *HORIZONTAL WIND SPEED SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Spd Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Prop #:** 63037 **Range:** 0-50 **m/s**
Audit Equipment: **Low Spd:** RM Young **Model:** 18811 **S.N.#:** CA02136 **Torque:** Watters Mdl 366-3 **S.N.#:** 4864
Audit Equipment: **High Spd:** RM Young **Model:** 18801 **S.N.#:** CA06174

Begin: 1440
End: 1450

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.014	0.006	**PASS**
New	0.014	N/A	N/A

SYNCHRONOUS MOTOR TEST					
Input rpm	Input m/s	DAS m/s	Error m/s	Error % Input	Pass/ Fail?
0	0.00	0.00	0.00	N/A	Pass
400	2.05	2.05	0.00	N/A	Pass
1000	5.12	5.12	N/A	0.0	Pass
2000	10.24	10.24	N/A	0.0	Pass
5000	25.60	25.60	N/A	0.0	Pass
10000	51.20	51.20	N/A	0.0	Pass
	Max Abs. Error		**0.00**	**0.0**	**PASS**

PSD Limits: Threshold Torque >1.0gm-cm (0.014oz-in) @ 0.50m/s. Max Absolute Error > 0.20m/s @ WS<=5m/s or > 5% of input @ WS>5m/s.
Conversions: Model 08254 Prop: m/s = 0.00512*rpm. gm-cm=72*oz-in.
Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Steve Mackey, Jared Cockman, Robert Park **Audit Date:** 25-Jun-05

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Dir Sensor: **Make:** Climatronics **Model:** 100076 **S.N.#:** 4690 **Vane #:** 1425 **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** Climatronics **Model:** 101984 **S.N.#:** 145 **Torque:** Honeywell Mdl 366-0 **S.N.#:** 5042
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.6 **E of N**

TORQUE TEST

Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.104	0.060	**PASS**
New	0.104	N/A	N/A

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	262.7	-0.5	Pass
Mt Augustine - Peak	356.1	355.4	-0.7	Pass
Mt Eleanor	202.6	201.4	-1.2	Pass
Compass	133.5	131.7	-1.8	Pass
		Max Abs. Error	**1.8**	**PASS**
		Mean Abs. Error	**1.1**	**GOOD**

Time: Begin: 1700 End: 1730

CROSSARM-VANE ACCUR. & LIN. TEST

Input Dir	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
South	180.0	179.0	-1.0	Pass
West	270.0	269.8	-0.2	Pass
North	360.0	358.9	-1.1	Pass
East	90.0	88.7	-1.3	Pass
North	360.0	0.1	0.1	Pass
West	270.0	269.5	-0.5	Pass
South	180.0	179.0	-1.0	Pass
East	90.0	88.3	-1.7	Pass
	Max Abs. Error		**1.7**	**PASS**
	Mean Abs. Error		**0.9**	**PASS**

Time: Begin: 1525 End: 1530

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	30.2	0.2	Pass	330.0	331.9	1.9	Pass
60.0	60.7	0.7	Pass	360.0	0.5	0.5	Pass
90.0	90.7	0.7	Pass	30.0	30.5	0.5	Pass
120.0	120.7	0.7	Pass	60.0	60.7	0.7	Pass
150.0	150.9	0.9	Pass	90.0	90.8	0.8	Pass
180.0	181.0	1.0	Pass	120.0	121.0	1.0	Pass
210.0	211.2	1.2	Pass	150.0	151.0	1.0	Pass
240.0	241.3	1.3	Pass	180.0	181.0	1.0	Pass
270.0	271.5	1.5	Pass	**Max Abs. Error**		**1.9**	**PASS**
300.0	301.4	1.4	Pass	**Mean Abs. Error**		**0.9**	**PASS**

Time: Begin: 1515 End: 1520

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
		Max Abs. Error		
		Mean Abs. Error		

Time: Begin: End:

PSD Limits: Threshold Torque >7.5 gm-cm (.104 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment).
Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: Initial installation audit, no post-audit azimuth check.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Steve Mackey, Jared Cockman, Robert Park **Audit Date:** 25-Jun-05

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Dir Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Vane #:** N/A **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** RMY Mdl 18112 Bench Stand **S.N.#:** None **Torque:** RMY Mdl 18331 Torque Gauge **S.N.#:** None
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.6 **E of N**

TORQUE TEST

Bearings Replaced?	Limit gm-cm	Torque gm-cm	Pass/ Fail?
In-Situ	11.0	5.0	**PASS**
New	11.0	N/A	N/A

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	263.1	-0.1	Pass
Mt Augustine - East shore	347.1	348.4	1.3	Pass
Mt Eleanor	202.6	203.8	1.2	Pass
Compass	133.5	133.6	0.1	Pass
Compass	335.0	334.2	-0.8	Pass
		Max Abs. Error	**1.3**	**PASS**
Time: Begin: 1700 End: 1730		**Mean Abs. Error**	**0.7**	**GOOD**

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	28.2	-1.8	Pass	150.0	148.6	-1.4	Pass	270.0	266.5	-3.5	Pass
60.0	58.4	-1.6	Pass	180.0	177.4	-2.6	Pass	300.0	296.5	-3.5	Pass
90.0	88.4	-1.6	Pass	210.0	207.1	-2.9	Pass	330.0	327.2	-2.8	Pass
120.0	118.2	-1.8	Pass	240.0	236.5	-3.5	Pass	355.0	352.6	-2.4	Pass
								Max Abs. Error		**3.5**	**PASS**
				Time: Begin: 1503		End: 1508		**Mean Abs. Error**		**2.5**	**PASS**

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
		Max Abs. Error		
Time: Begin: End:		**Mean Abs. Error**		

PSD Limits: Threshold Torque >11.0 gm-cm (0.153 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: Initial installation audit, no post-audit azimuth check.

TOPO! map printed on 08/26/06 from "Pebble_Port_(08-17-06).tpo"

APPENDIX C
AUDIT EQUIPMENT CALIBRATION CERTIFICATES

Certificate No. 1750.01

ACCREDITED

Calibration complies with ISO 17025

Cert. No.:4000-1103531

Traceable® Certificate of Calibration for Digital Thermometer

Instrument Identification:

Model: 61220-601 S/N: 51091749 Manufacturer : Control Company

Model: 61220-604 S/N: 51091789

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Probe	128	10/18/05	A4A12029
Thermistor Module	A27129	6/24/05	1000171514
Temperature Calibration Bath	A42238		
Temperature Probe	149	7/20/05	A4715024
Thermistor Module	A27129	6/24/05	1000171514
Temperature Calibration Bath	93139		

Certificate Information:

Technician: 68 Procedure: CAL-06 Cal Date: 4/27/05 **Cal Due: 4/27/07**

Test Conditions: 24.0°C 41.0 %RH 1016 mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±uc	TUR
°C		N.A.		0.001	0.003	Y	-0.049	0.051	0.013	3.8:1
°C		N.A.		25.001	25.002	Y	24.951	25.051	0.013	3.8:1
°C		N.A.		59.999	59.999	Y	59.949	60.049	0.013	3.8:1
°C		N.A.		100.001	100.007	Y	99.951	100.051	0.013	3.8:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full.

Wallace Berry

Wallace Berry, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA
Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

VAISALA

Certificate of Calibration

Report #: 101705-X0740015-RH **RMA #:** 95-49728 **Calibration Date:** Oct-17-2005
Model #: HMI41/HMP45 **Serial #:** X0650080 / X0740015
Instrument Type: Humidity Transmitter Calibration Procedure: 11603100
Instrument Range: 0 to 100%RH Recommended Calibration Due Date: Oct-17-2006

Customer: HOEFLER CONSULTING GROUP
City, State: ANCHORAGE, AK

This unit was calibrated by adjusting its reading at 0%* against a dry-air line and at 75% against reference humidity and temperature instrument, Vaisala model HMP233. Additional instrument verification checkpoints were made against HMP233 reference at 11%RH, 33%RH and 97%* RH. Calibration and instrument verification sequences utilize a dry-air line and a set of controlled aqueous salt solutions Vaisala model HMK13B. Laboratory ambient conditions are humidity and temperature controlled. The calibration uncertainty is presented at 95% confidence level, k=2. The standard uncertainty of the measurement has been determined in accordance with U.S. Guide to the Expression of Uncertainty in Measurement. *Note: the 0% and 97% RH points are not ISO17025 Accredited.

Calibration Data (As Found)				
Out of Tolerance: NO				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.35	21.50	0.15	0.20	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
11.13	11.40	0.27	2.00	0.92
32.70	33.10	0.40	2.00	1.01
75.44	75.00	-0.44	2.00	1.02
97.60	97.50	-0.10	3.00	N/A *

Calibration Data (As Left)				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.35	21.50	0.15	0.20	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
11.13	11.40	0.27	2.00	0.92
32.70	33.10	0.40	2.00	1.01
75.44	75.00	-0.44	2.00	1.02
97.60	97.50	-0.10	3.00	N/A *

Problem Noted: None
Action Taken: No Adjustment Was Necessary

The results of this calibration are related only to the items being calibrated, and, are traceable to the National Institute of Standards and Technology through NIST Test Report Number 270953-05, dated Oct. 29, 2004. Vaisala's calibration system has been established to meet the requirements of ANSI/NCSL Z540-1-1994. This certificate can not be reproduced, except in full, without the expressed written consent of Vaisala. The certificate was established to comply with the requirements of ISO/IEC17025. Vaisala is ISO 9001:2000 certified.

Calibration Equipment Used: Workstation 1B			
Model Number	Serial Number	Calibration Date	Due Date
Power Supply	TW14949	Nov. 24, 2004	Nov. 24, 2006
Fluke 45	7405014	Aug. 16, 2005	Aug. 16, 2006
HMK13B	500004	Sep. 2, 2005	Mar. 5, 2006
HMP233	V4210040	Jul. 21, 2005	Oct. 21, 2005

Ambient Conditions	
Temperature:	21.50 °C
Humidity:	50.00 %RH

Approved By

Technical Operator
Jari Siltavuo

Vaisala Inc., Boston Office
10-D Gill Street, Woburn, MA 01801, USA
Telephone 781 933 4500 • Fax 781 933 8029
www.vaisala.com

Certificate of Accuracy

Transfer Standard Type: Barometric Pressure/Altimeter

Certificate No: B 052305.01

Transfer standard model: Pretel AltiPlus A2
Serial number: 27806
submitted by/owner: Hoefler Consulting Group
3401 Minnesota Drive
Suite 300
Anchorage, AK 99503

Was compared to Precision Absolute Reference Barometer:
Model number: 355-AI0900 Serial number: 913930-M1
Certified accuracy of ± 0.007"Hg
NIST traceable to Ruska Deadweight Tester SN 38342/C-85

Date: 5/23/2005 Lab temperature 73.6 °F
Lab pressure 661.65 mm Hg

Reference barometer (in. Hg)	Transfer Standard (in. Hg)	Difference from Reference (in. Hg)	Transfer Standard Correction* (in. Hg)
24.00	24.13	0.13	-0.13
26.05	26.18	0.13	-0.13
28.00	28.12	0.12	-0.12
30.00	30.12	0.12	-0.12

Note:
If no sign is given on the correction, the true pressure is higher than the indicated pressure. If the sign is negative, the true pressure is lower than the indicated pressure.

Transfer Standard adjustments made? YES ☐ **NO** ☒
Post-calibration measurements:

Reference barometer (in. Hg)	Transfer Standard (in. Hg)	Difference from Reference (in. Hg)	Transfer Standard Correction* (in. Hg)

Reviewed: _____ Date: 5-23-05

Roger L. Sanders, PE

Chinook Engineering
a division of Inter-Mountain Laboratories, Inc.
555 Absaraka Street
Sheridan, Wyoming 82801 USA
(307) 672-7790
chinook@imlinc.com

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18811	Serial Number:	CA02136
Description:	Anemometer Drive - 20 to 990 Rpm - Comprised of Models 18820A Control Unit & 18831A Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	27106D Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
30.0	5	30.0	30.0
150.0	25	150.0	150.0
300.0	50	300.0	300.0
450.0	75	450.0	450.0
600.0	100	600.0	600.0
750.0	125	750.0	750.0
990.0	165	990.0	990.0
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured frequency output of RM Young Model 27106D standard anemometer attached to motor shaft
(2) 27106D produces 10 pulses per revolution of anemometer shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☒ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 3 May 2005

Tested By EJC

YOUNG

Meteorological Instruments

Certificate of Calibration and Testing

Test Unit:			
Model:	18801	Serial Number:	CA01674
Description:	Anemometer Drive - 10 to 10,000 Rpm - Comprised of Models 18820 Control Unit & 18830 Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
600	320	600	600
1200	640	1200	1200
2400	1280	2400	2400
4200	2240	4200	4200
6000	3200	6000	6000
8100	4320	8100	8100
9900	5280	9900	9900
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 32 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☒ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 29 October 2004

Tested By EJC

R.M. YOUNG COMPANY 2801 Aero Park Drive, Traverse City, Michigan 49686 USA
Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com

Honeywell

Honeywell
Sensotec Sensors
2080 Arlingate Lane
Columbus, Ohio 43228 U.S.A.

Phone: 614-850-5000
Fax: 614-850-1111
URL: http://www.sensotec.com
E-mail: service@sensotec.com

Certificate of Calibration

Customer Identification

Customer: Houston Precision

P.O.#:6632

Product Identification

Product Type: Torque Watch
Serial Number: 4864

Model Number: 366-3
Part Number: 060-SQF41199-01
Order Code: TQ3663

Product Specifications

Full Scale Range: 0.003-0.03 OZ IN
Calibrated At: 0.003-0.03 OZ IN

Supply: N/A
Output: Display

Calibration Results

See data on page 2 of this report.

Equipment Information

Test Equipment #: GW150

Accuracy of Standard: +/- 1% FS

Certificate Information

Type of Calibration: Standard
Calibration Date: 09/02/04

Certificate Number: 086-6000-01
Calibration Procedure: 072-LC75-29

This report certifies that the product identified above has been inspected to +/- 5% of full scale reading and found to be accurate.
Instruments used in the calibration of this product have been calibrated to standards traceable to the National Institute of Standards and Technology (NIST), Report #822/254480. Calibration procedures are in compliance with ANSI/NCSL Z540-1-1994.

This is a quality record.

Approved and Certified By: Michael A Stanley
Factory Supervisor

Printed: 09/02/2004

LOW RANGE TORQUE WATCH DIAL SETTINGS vs. OUTPUT OF LOW RANGE STANDARD

MODEL: 366-3 SERIAL NUMBER: 4864 Units = oz in Accuracy = 10 % FS

Set Dial To	Low Limit	CW Rdg	CCW Rdg	High Limit
.000	-.0002	.0000	.0000	.0002
.003	-.0000	.0036	.0031	.0060
.006	.0030	.0058	.0062	.0090
.009	.0060	.0086	.0092	.0120
.012	.0090	.0128	.0127	.0150
.015	.0120	.0162	.0161	.0180
.018	.0150	.0195	.0197	.0210
.021	.0180	.0225	.0219	.0240
.024	.0210	.0257	.0246	.0270
.027	.0240	.0296	.0288	.0300
.030	.0270	.0320	.0322	.0330

Max pos error (% FS) = 8.7 % at .027
Max neg error (% FS) = -1.2 % at .009

Torque Watch is a: PASS

Honeywell

Honeywell
Sensotec Sensors
2080 Arlingate Lane
Columbus, Ohio 43228 U.S.A.

Phone: 614-850-5000
Fax: 614-850-1111
URL: http://www.sensotec.com
E-mail: service@sensotec.com

Certificate of Calibration

Customer Identification

Customer: Houston Precision

P.O.#:6743

Product Identification

Product Type: Torque Watch
Serial Number: 5042

Model Number: 366-0
Part Number: 060-SQF41201-01
Order Code: TQ3660

Product Specifications

Full Scale Range: 0.06-0.6 IN OZ
Calibrated At: 0.06-0.6 IN OZ

Supply: N/A
Output: Display

Calibration Results

See data on page 2 of this report.

Equipment Information

Test Equipment #: GW151

Accuracy of Standard: +/- 1% FS

Certificate Information

Type of Calibration: Standard
Calibration Date: 12/01/04

Certificate Number: 086-6000-01
Calibration Procedure: 072-LC75-29

This report certifies that the product identified above has been inspected to +/- 5% of full scale reading and found to be accurate.
Instruments used in the calibration of this product have been calibrated to standards traceable to the National Institute of Standards and Technology (NIST), Report #822/254480. Calibration procedures are in compliance with ANSI/NCSL Z540-1-1994.

This is a quality record.

Approved and Certified By: Joe Belcher Jr., Quality Manager

LOW RANGE TORQUE WATCH DIAL SETTINGS vs. OUTPUT OF LOW RANGE STANDARD

MODEL: 366-0 SERIAL NUMBER: 5042 Units = oz in Accuracy = 5 % FS

Set Dial To	Low Limit	CW Rdg	CCW Rdg	High Limit
.00	-.003	0.000	0.000	.003
.06	.030	.056	.060	.090
.12	.090	.121	.121	.150
.18	.150	.168	.180	.210
.24	.210	.223	.255	.270
.30	.270	.299	.319	.330
.36	.330	.359	.373	.390
.42	.390	.407	.424	.450
.48	.450	.481	.494	.510
.54	.510	.531	.537	.570
.60	.570	.592	.610	.630

Max pos error (% FS) = 3.1 % at .300
Max neg error (% FS) = -2.9 % at .240

Torque Watch is a: PASS

THE BRUNTON COMPANY
Certificate Of Calibration

Equipment Owner:
Name: Hoefler Consulting Group

Address: 3401 Minnesota Drive Ste. 300

City, State, Zip: Anchorage, Ak 99503

Calibration traceable to the National Institute of Standards and Technology in accordance with Mil-STD-45662A has been accomplished on the instrument listed below by comparison with standards maintained by The Brunton Co. The accuracy and stability of all standards maintained by The Brunton Co. are traceable to national standards maintained by the National Institute of Standards and Technology in Washington, D.C. and Boulder, CO. Complete record of all work performed is maintained by The Brunton Co. and is available for inspection upon request.

This Unit has been calibrated to Lietz TM10E serial number 30937 traceable to N.B.S. no. 738 227675 this 12th Day of July 20 05

DESCRIPTION: Pocket Transit

PURCHASE ORDER: S. MacKay

ORDER NUMBER: 176322

LOT NUMBER: 19680

MODEL NUMBER: 11-F5008

SERIAL NUMBER: 5080799319

CALIBRATION DATE: 7/12/05

RECALIBRATION DUE DATE: 7/12/06

Signed: Raelene White
QUALITY CONTROL MANAGER

Pebble Port PSD Meteorological Monitoring Station

January 2006

Quality Assurance Performance Audit

Pebble Project
NORTHERN DYNASTY MINES INC.

for the

Pebble Project
Meteorological Monitoring Program
Iliamna, Alaska

prepared for

Northern Dynasty Mines, Inc.

Pebble Port PSD Meteorological Monitoring Station
January 2006
Quality Assurance Performance Audit

Prepared for:

Northern Dynasty Mines, Inc.
Anchorage, Alaska

Prepared by:

Hoefler Consulting Group, Inc.
3401 Minnesota Drive, Suite 300
Anchorage, Alaska 99503

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1.0 INTRODUCTION

Hoefler Consulting Group, Inc. (HCG) operates meteorological monitoring stations for Northern Dynasty Mines, Inc. (NDM) in support of the Pebble Mine Project near Iliamna, Alaska. The air monitoring program is one component of ongoing baseline environmental studies being conducted to support mine permitting, mine design and mine transportation infrastructure development. The stations meet Prevention of Significant Deterioration (PSD) guidelines, although PSD permits may not be required. This report covers the Port monitoring station located near the proposed mine port site.

The Pebble Port Station is located on the west shore of Iniskin Bay, near the southern end of the bay. The station is situated on a 50' high knoll, very near the water's edge. The Port Station consists of an instrumented 11-meter sectional tower secured with three guy wires. Approximately 20' south of the tower is a 6' by 8' insulated building which houses the datalogger and power supply system. The Pebble Port Station is instrumented with PSD quality sensors monitoring the following parameters:

- Ambient Temperature (ºC): Met One 062MP Thermistor Probe at 2-m
- Temperature Difference (ºC): Met One 062MP Thermistors at 2-m and 10-m
- Wind Speed 1 (m/s): Climatronics F460 P/N 100075 Wind Speed Sensor
- Wind Direction 1 (°): Climatronics F460 P/N 100076 Wind Direction Sensor
- Wind Speed 2 (m/s): RM Young 05305 Wind Monitor-AQ
- Wind Direction 2 (°): RM Young 05305 Wind Monitor-AQ
- Sigma Theta (°): Campbell Scientific CR10X DAS calculated (Yamartino)
- Relative Humidity (%RH): Vaisala HMP45AC Relative Humidity Sensor
- Barometric Pressure (mbar): Vaisala PT101B Barometric Pressure Sensor
- Solar Radiation (W/m2): LI-COR Li-200SX Solar Radiation Pyranometer.

This report has been prepared for NDM to serve as a quantitative review of the Pebble Port Station. To that end, a Performance Audit was undertaken in order to demonstrate that the equipment installed at the meteorological monitoring station is operating correctly and meets the requirements set forth by the U.S. Environmental Protection Agency (EPA) and the Alaska Department of Environmental Conservation (ADEC).

2.0 PERFORMANCE AUDIT

2.1 Performance Audit Methodology

During the performance audit, the station datalogger is interfaced with a portable laptop computer to display the outputs for the meteorological sensors. The value of each meteorological sensor is compared to the output value from the appropriate piece of audit equipment or from calibrated instruments collocated with the sensor. The difference between the station's datalogger reading and the output from each audit instrument is compared with established PSD limits to determine the accuracy of each sensor. Additionally, threshold torques for wind speed and wind direction are measured with audit equipment and compared with manufacturer torques corresponding to the PSD threshold speed of 0.5 m/s. Table 2-1 provides a summary of the performance audit methods and limits used to audit each parameter at the stations.

Table 2-1 Performance Audit Methods and Acceptable Limits

Parameter	Audit Method	EPA/Manufacturer Limit
Datalogger Time	NOAA Clock	≤ ±5:00 minutes from AST
Temperature Accuracy	Collocated NIST thermistor	≤ ±0.5 °C
Temperature Difference	Collocated NIST thermistor	≤ ±0.1 °C
Wind Speed Accuracy	Synchronous rpm motor	≤ ±0.2 m/s + 5 % observed
Wind Spd Torque (Clim)	Torque watch	≤ 0.35 g-cm (0.0049 oz-in)
Wind Spd Torque (RMY)	Torque watch	≤ 1.0 g-cm (0.014 oz-in)
Wind Direction Alignment	GPS, compass or landmark	≤ ±5° from true azimuth
Wind Direction Accuracy	Linearity tester	≤ ±5° per audit point
Wind Direction Linearity	Linearity tester	≤ 3° mean absolute average
Wind Dir Torque (Clim)	Torque watch	≤ 7.5 g-cm (0.104 oz-in)
Wind Dir Torque (RMY)	Vane torque gauge	≤ 11 g-cm (0.153 oz-in)
Relative Humidity	Collocated NIST RH sensor	≤ ±1.5 °C of dew point
Barometric Pressure	Collocated NIST BP sensor	≤ ±3 mbar
Solar Radiation[1]	Collocated NIST sensor	≤ ±5% of input+resolutuion[2]

1. Solar radiation not audited.
2. This audit limit is modified from PSD standard, as discussed below.

2.1.1 Data Acquisition System

An audit of the datalogger is conducted by comparing all datalogger outputs to the audit standards, as described below. The datalogger time is checked against an instantaneous time reading from the National Oceanic and Atmospheric Administration (NOAA) clock in Boulder, Colorado, via a global positioning system (GPS) handheld unit or telephone contact with the NOAA clock.

2.1.2 Air Temperature and Air Temperature Difference

The 2-meter and 10-meter thermistors are removed from their aspirator shields and collocated with a National Institute of Standards and Technology (NIST) traceable digital thermometer. The station thermistors and the transfer standard NIST thermometer are taped together and immersed in insulated thermoses containing a series of water baths; hot water (35°C to 45°C), warm water (15°C to 25°C), and a water/ice bath (0°C). Each water bath is agitated and allowed to equilibrate before simultaneous readings are taken from the three instruments. The difference between the individual station thermistors and the NIST standard are compared to the PSD temperature accuracy limit of ±0.5°C. The difference between the two station thermistors (10-m°C minus 2-m°C) is compared to the PSD temperature difference limit of ±0.1°C.

2.1.3 Wind Speed

Anemometers are audited to determine their accuracies in reading known wind speeds and to ascertain the sensor's threshold torque. The Climatronics and RM Young sensors are audited in very similar manners and are discussed together. The instruments are tested after removal from the tower and after removal of the sensor's props or cups.

First, an RM Young synchronous motor is attached to the shaft of the anemometer by using brand specific coupling devices. The sensor shaft is rotated at several different known revolutions per minute (rpm). Each rotational speed in rpm is equated to a wind speed in meters per second (m/s) by using the anemometer manufacturer's linear calibration formula. The difference between the calculated input speed in m/s and the datalogger output is compared to established PSD limits for each input rpm.

Next, a high precision torque watch is attached to the shaft of the anemometer, once again using custom couplings. Torque readings are made in both directions in each quadrant along the axis of rotation of the shaft. The maximum reading is recorded for the torque required to turn the shaft of the anemometer. The torque value recorded

during the audit is compared to manufacturer's torque corresponding to the minimum PSD threshold speed of 0.5m/s.

2.1.4 Wind Direction

The wind direction sensors are first audited as-found to determine the accuracy of their alignment with respect to true north (true azimuth alignment) using one of four methods. In one method, a handheld GPS unit is used to measure the position of the auditor with respect to a waypoint captured under the wind sensor's position on the tower. Using binoculars, the tail of the wind vane is aligned with the auditor's position at a distance of several hundred feet from the tower. The GPS bearing back to the tower waypoint is then compared to the DAS reading. The difference between the two should not exceed ±5° per audit point. This procedure is repeated at least 4 times, once per quadrant, generally near the cardinal directions. The second method uses a calibrated precision compass mounted on a gimbal and tripod. The compass declination is preset for the specific location and date using one of a variety of magnetic declination computer models. The sensor tail is aligned toward the auditor while auditor sights the compass toward the sensor and readings are taken in a similar manner to the GPS method.

Another option is to align the tail of the sensor with a distant identifiable landmark of know bearing. The bearing to the landmark may be ascertained using a variety of methods. One method involves physically capturing a distant GPS waypoint, such as at a discernable structure or emissions stack. Bearings to inaccessible natural landmarks, usually distant mountain peaks, are acquired through the use of various computer mapping programs, such as Natural Geographic's TOPO program or USGS digital raster graphics (DRGs) loaded into AutoCAD. The bearing from the station location to the landmark is compared to the DAS reading. This method yields the most accurate audit value, but is limited by weather and availability of discernable landmarks. The final method is to align the vane with the tower guy wires or preset survey markers, whose bearing has been ascertained using precision survey equipment.

The wind direction accuracy and linearity are subsequently audited after the wind direction sensor is removed from the tower. The Climatronics sensor is mounted on a Climatronics Model 101984 linearity tester and the RM Young sensor is mounted on an RM Young Model 18112 Vane Angle Bench Stand. Both test fixtures are keyed to their respective sensor and graduated from 0° to 360°. A series of readings starting at 30° and then clockwise in 30° increments are taken. The RM Young is read from 30° to 360° and the Climatronics is read from 30° to 540°. The Climatronics sensor is tested 180° past 360° in order to test the second potentiometer used in some DAS

programming. Although not required, the Climatronics sensor is also tested with the vane attached in order to ascertain sensor accuracy and linearity relative to the instrument crossarm. The vane is aligned along the axis of the crossarm to yield the 0°/360° and 180° values and against a square held to the crossarm for the 90° and 270° directions. Four readings are taken in a clockwise direction and four are taken counterclockwise to complete the test. For both the linearity test fixture and crossarm tests, individual error values are assessed for the PSD accuracy limit of ±5° per point and the mean absolute average error is assessed against the linearity limit of 3°.

Next, the RM Young wind direction threshold is tested by measuring wind vane torque using an RM Young Model 18331 Vane Torque Gauge. This device saddles the wind vane and a calibrated spring is pulled to determine maximum torque from readings taken in both directions in all four quadrants. The Climatronics wind direction starting torque is measured with the vane removed by using a precision torque watch in the same manner as the wind speed torque. The highest torque readings are compared to specific manufacturer limits for instrument staring torque.

Finally, the wind direction sensors are placed back on the tower and as-left audits of the azimuth alignments are conducted to ensure the instruments are properly reinstalled.

2.1.5 Relative Humidity

Relative humidity (RH) is audited using a collocated NIST traceable RH sensor. The NIST sensor and the field sensor are collocated out of direct sunlight to eliminate solar radiation effects, preferably inside of the motor aspirated shield. If the NIST standard reads directly in dew point °C, those readings are used; if not, relative humidity and temperature readings are used. For the audit, instantaneous readings of dew point, relative humidity and temperature are recorded from the transfer standard and the DAS. All relative humidity and temperature readings are converted to dew point in order to assess the PSD error limit of ±1.5°C dew point.

2.1.6 Barometric Pressure

Barometric pressure (BP) is audited using a collocated NIST traceable BP sensor. The difference between the NIST sensor and the station sensor are compared to the PSD limit of ±3 mbar.

2.1.7 Solar Radiation

Outputs of the station sensor are compared to the output of a level collocated audit solar radiation sensor. The audit sensor is connected to an independent audit datalogger with the scan interval and clock synchronized with the station DAS. Hourly

average solar radiation readings and instantaneous readings are recorded during the audit and then input into a custom spreadsheet to calculate a linear regression for the data. The PSD limit for solar radiation audits is ±5% of observed, but this standard is very difficult to obtain at the northern latitude of this installation. This EPA standard is currently undergoing review and is expected to change. A well excepted substitute is that individual DAS and audit data pairs are compared to a limit of ±5% of observed **+ EPA minimum instrument resolution (10W/m²)**. Individual data pairs are evaluated against this standard, but the overall set is restricted to a 5% error by limiting allowable linear slope to 1.0±0.05.

2.2 Performance Audit Results

The performance audit was conducted at the Pebble Port Station on January 16, 2006, with Dominic Shallies of HCG assisting. The wind sensors were also audited on February 10, 2006, after a severe storm.

On January 16, 2006 all sensors, except the solar radiation sensor, were challenged with certified audit equipment and yielded errors below the PSD limits. The solar radiation audit was not completed because adequate audit equipment was not available at the time of the audit. On February 10, 2006 the Climatronics sensor was found out of alignment due to a severe winter storm event which occurred on January 22, 2006. The operator compared Climatronics and RM Young alignment data prior to and after this storm event and corroborated this conclusion. The sensor was realigned and then re-audited. Table 2-2 contains summary data from the January 2006 audit and Table 2-3 summarizes the supplemental February 2006 tests. Complete audit reports and audit equipment calibration certificates are contained in Appendix A and Appendix B respectively.

2.3 Performance Audit Recommendations

- None.

Table 2-2 Port Station January 16, 2006 Performance Audit Summary

Parameter	Limit	Units	Max Err	Status
Datalogger Time	≤ ±5:00	Min:Sec	-0:20	Pass
2-m Temperature Accuracy	≤ ±0.5	°C	0.14	Pass
10-m Temperature Accuracy	≤ ±0.5	°C	0.14	Pass
Air Temperature Difference	≤ ±0.1	°C	0.00	Pass
Climatronics Wind System				
Wind Speed Torque	≤ 0.0049	oz-in	<<0.003	Pass
Low Wind Spd. Accuracy (≤5m/s)	≤ ±0.2	m/s	0.00	Pass
High Wind Spd. Accuracy (>5m/s)	≤ ±5	% input	-0.1	Pass
Wind Direction Torque	≤ 0.104	oz-in	0.070	Pass
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	-3.1	Pass
Wind Direction Accuracy	≤ ±5	Degree	1.3	Pass
Wind Direction Linearity	≤ 3	Degree	0.5	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	-1.7	Pass
RM Young Wind System				
Wind Speed Torque	≤ 0.014	oz-in	0.007	Pass
Low Wind Spd. Accuracy (≤5m/s)	≤ ±0.2	m/s	0.00	Pass
High Wind Spd. Accuracy (>5m/s)	≤ ±5	% input	0.0	Pass
Wind Direction Torque	≤ 11	g-cm	7.0	Pass
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	3.9	Pass
Wind Direction Accuracy	≤ ±5	Degree	-3.6	Pass
Wind Direction Linearity	≤ 3	Degree	2.0	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	-2.0	Pass
Relative Humidity (dew point)	≤ ±1.5	°C	0.6	Pass
Barometric Pressure	≤ ±3	Mbar	1.5	Pass
Weighing Precipitation	≤ ±10	% input	9.5	Pass
Solar Radiation	≤ ±5+Res	% input	No Test	N/A

Table 2-3 Port Station February 10, 2006 Supplemental Audit Summary

Parameter	Limit	Units	Max Err	Status
Climatronics Wind Direction System				
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	16.0	Fail[1]
Wind Direction Accuracy	≤ ±5	Degree	-2.1	Pass
Wind Direction Linearity	≤ 3	Degree	1.1	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	-1.4	Pass
RM Young Wind System				
Wind Dir. Azim. Align. (as-found/as-left)	≤ ±5	Degree	2.4	Pass

1. Climatronics wind sensor knocked out of alignment during severe storm on January 22, 2006.

3.0 REFERENCES

"Draft Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program", Hoefler Consulting Group, Inc.

"Quality Assurance Manual for Ambient Air Quality Monitoring" ADEC, August 1996.

"Elements for Ambient Air Monitoring Quality Assurance Project Plan (QAPP)", ADEC, September 2004.

"Ambient Air and/or Meteorological Monitoring Quality Assurance Project Plan (QAPP) Review Checklist", ADEC, September 2004.

"Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)", EPA-450/4-87-007, May 1987.

"Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring", EPA-40 CFR Part 58, Appendix B, November 2004.

"On-Site Meteorological Program Guidance for Regulatory Modeling Applications", EPA-450/4-87-013, August 1995.

"Meteorological Monitoring Guidance for Regulatory Modeling Applications", EPA-454/R-99-005, February 2000.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Part I, Ambient Air Quality Monitoring Program Quality System Development", EPA-454/R-98-004, August 1998.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements", EPA/600/R-94/038d, March 1995.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume V: Precipitation Measurement Systems", EPA/600/R-94/038e, April 1994.

APPENDIX A
PERFORMANCE AUDIT DATA SHEETS and ALIGNMENT MAP

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 16-Jan-06

● *DAS TIME AUDIT*

PSD Limits: DAS time = Alaska Standard Time (AST) +/- 5 minutes.
Conversions: Winter; (AST) = (DST), Summer; (AST) = (DST) - 1 hr.
Comments: None.

DAS TIME vs. NOAA CLOCK			
AST Time	DAS Time	Error Min:Sec	Pass/ Fail?
13:06:30	13:06:10	**-00:20**	**PASS**

● *TEMPERATURE SENSORS & ΔT AUDIT*

Lower Height: 2.0 **Meters** **Upper Height:** 10.0 **Meters**

2-M Thermistor: **Make:** Met One **Model:** 062MP **S.N.#:** E3381 # 1/2 **Range:** -50 to 50 **°C**
10-M Thermistor: **Make:** Met One **Model:** 062MP **S.N.#:** E3381 # 2/2 **Range:** -50 to 50 **°C**
Audit Digital Thermometer: **Make:** Van Waters & Rogers **Model:** 61220-601 **S.N.#:** 51091749 **Range:** -40 to 150 **°C**
Audit Probe: **Make:** Van Waters & Rogers **Model:** 61220-604 **S.N.#:** 51091789 **Range:** -40 to 150 **°C**

Begin: 1145
End: 1200

COLLOCATED THERMISTOR TEST										
Thermal Input			Station Response (2M)			Station Response (10M)			Station (Delta T)	
Temp Range	Target °C	Input °C	DAS °C	Error °C	Pass/ Fail?	DAS °C	Error °C	Pass/ Fail?	Delta T °C	Pass/ Fail?
Ice Bath	0	-0.02	0.12	0.14	Pass	0.12	0.14	Pass	0.00	Pass
Warm	15 to 25	18.07	18.13	0.06	Pass	18.13	0.06	Pass	0.00	Pass
Hot	35 to 45	37.80	37.94	0.14	Pass	37.94	0.14	Pass	0.00	Pass
		Max Abs. Error		0.14	**PASS**		0.14	**PASS**	0.00	**PASS**

PSD Limits: Max Absolute Error > 0.5 °C (Sensor Accuracy); Max Absolute Error > 0.1 °C (Delta Temperature).
Comments: None.

● *RELATIVE HUMIDITY SENSOR AUDIT*

Height: 2.0 **Meters**

RH Sensor: **Make:** Vaisala **Model:** HMP45AC **S.N.#:** A2120081 **Range:** 0.8 to 100 **% RH**
Audit Equipment: **Make:** Vaisala **Model:** HMI 41 **S.N.#:** X0650080 **Range:** 0 to 100 **% RH**
Audit Equipment: **Probe#** HMI41 X07450015

COLLOCATED STANDARD TEST								
Reading Time	Input %RH	Input AT (°C)	Input DP (°C)	DAS %RH	DAS AT (°C)	DAS DP (°C)	Error DP (°C)	Pass/ Fail?
1330	52.9	2.8	-5.8	54.2	2.6	-5.7	0.1	Pass
1400	53.2	2.8	-5.8	56.6	2.6	-5.1	0.6	Pass
					Max Abs. Error		0.6	**PASS**

PSD Limits: Max Absolute Error > 1.5°C Dew Point.
Conversions: Td=DP(°C), Ta=AT(°C), RH=Fraction: Td=b*ע/(a-ע), where ע=a*Ta/(b + Ta) + ln(RH), and a = 17.27, b=237.7°C.
Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 16-Jan-06

● *BAROMETRIC PRESSURE SENSOR AUDIT*

Height: N/A **Meters**

Pressure Sensor: **Make:** Vaisala **Model:** PTB101B **S.N.#:** A1950006 **Range:** 600-1060 **hPa**
Audit Equipment: **Make:** PRETEL **Model:** AltiPlus A2 **S.N.#:** 27806 **Range:** 470-1040 **hPa**

COLLOCATED STANDARD TEST						
Reading Time	Raw Input in Hg	Adj Input in Hg	Adj Input mb	DAS mb	Error mb	Pass/ Fail?
1240	29.50	29.38	994.9	996.4	1.5	Pass
			Max Abs. Error		1.5	**PASS**

Audit Inst Cal Data	
Cal. Date: 05/23/05	
Audit Inst	Offset Amount
24.13	-0.13
26.18	-0.13
28.12	-0.12
30.12	-0.12
Intercept	**-0.18**
Slope	**0.0020**

PSD Limits: Max Absolute Error > 3mb (0.3kPa).
Comments: None.

● *HORIZONTAL WIND SPEED SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Spd Sensor: **Make:** Climatronics **Model:** 100075 **S.N.#:** 5008 **Cup #:** 2285 **Range:** 0-60 **m/s**
Audit Equipment: **Low Spd:** RM Young **Model:** 18811 **S.N.#:** CA02136 **Torque:** Watters Mdl 366-3 **S.N.#:** 4864
Audit Equipment: **High Spd:** RM Young **Model:** 18801 **S.N.#:** CA06174

Begin: 1215
End: 1230

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.0049	<<0.003	**PASS**
New	0.0049	N/A	N/A

SYNCHRONOUS MOTOR TEST					
Input rpm	Input m/s	DAS m/s	Error m/s	Error % Input	Pass/ Fail?
0	0.22	0.22	0.00	N/A	Pass
100	2.57	2.57	0.00	N/A	Pass
200	4.92	4.92	0.00	N/A	Pass
400	9.62	9.62	N/A	0.0	Pass
1000	23.72	23.70	N/A	-0.1	Pass
2000	47.22	47.21	N/A	0.0	Pass
	Max Abs. Error		**0.00**	**0.1**	**PASS**

PSD Limits: Threshold Torque >0.35gm-cm (0.0049oz-in) @ 0.50m/s. Max Absolute Error > 0.20m/s @ WS<=5m/s or > 5% of input @ WS>5m/s.
Conversions: Heavy Duty Al Cups: m/s = rpm÷42.55+0.22. gm-cm=72*oz-in.
Comments: None.

● *HORIZONTAL WIND SPEED SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Spd Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Prop #:** 63037 **Range:** 0-50 **m/s**
Audit Equipment: **Low Spd:** RM Young **Model:** 18811 **S.N.#:** CA02136 **Torque:** Watters Mdl 366-3 **S.N.#:** 4864
Audit Equipment: **High Spd:** RM Young **Model:** 18801 **S.N.#:** CA06174

Begin: 1230
End: 1240

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.014	0.007	**PASS**
New	0.014	N/A	N/A

SYNCHRONOUS MOTOR TEST					
Input rpm	Input m/s	DAS m/s	Error m/s	Error % Input	Pass/ Fail?
0	0.00	0.00	0.00	N/A	Pass
400	2.05	2.05	0.00	N/A	Pass
1000	5.12	5.12	N/A	0.0	Pass
2000	10.24	10.24	N/A	0.0	Pass
5000	25.60	25.60	N/A	0.0	Pass
10000	51.20	51.20	N/A	0.0	Pass
	Max Abs. Error		**0.00**	**0.0**	**PASS**

PSD Limits: Threshold Torque >1.0gm-cm (0.014oz-in) @ 0.50m/s. Max Absolute Error > 0.20m/s @ WS<=5m/s or > 5% of input @ WS>5m/s.
Conversions: Model 08254 Prop: m/s = 0.00512*rpm. gm-cm=72*oz-in.
Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 16-Jan-06

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Dir Sensor: **Make:** Climatronics **Model:** 100076 **S.N.#:** 4690 **Vane #:** 1425 **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** Climatronics **Model:** 101984 **S.N.#:** 145 **Torque:** Honeywell Mdl 366-0 **S.N.#:** 5042
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.4 **E of N**

TORQUE TEST

Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.104	0.070	**PASS**
New	0.104	N/A	N/A

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	260.1	-3.1	Pass
Mt Eleanor	202.6	200.0	-2.6	Pass
Compass	347.0	347.9	0.9	Pass
Compass	102.5	103.7	1.2	Pass
		Max Abs. Error	**3.1**	**PASS**
		Mean Abs. Error	**1.9**	**GOOD**

Time: Begin: 1100 End: 1145

CROSSARM-VANE ACCUR. & LIN. TEST

Input Dir	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
South	180.0			
West	270.0			
North	360.0			
East	90.0			
North	360.0			
West	270.0			
South	180.0			
East	90.0			
	Max Abs. Error			
	Mean Abs. Error			

Time: Begin: End:

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	29.2	-0.8	Pass	330.0	331.3	1.3	Pass
60.0	58.8	-1.2	Pass	355.0	354.9	-0.1	Pass
90.0	89.8	-0.2	Pass	30.0	29.2	-0.8	Pass
120.0	119.9	-0.1	Pass	60.0	58.8	-1.2	Pass
150.0	149.6	-0.4	Pass	90.0	89.6	-0.4	Pass
180.0	179.2	-0.8	Pass	120.0	119.8	-0.2	Pass
210.0	210.1	0.1	Pass	150.0	149.1	-0.9	Pass
240.0	240.0	0.0	Pass	180.0	179.3	-0.7	Pass
270.0	270.1	0.1	Pass	**Max Abs. Error**		**1.3**	**PASS**
300.0	300.1	0.1	Pass	**Mean Abs. Error**		**0.5**	**PASS**

Time: Begin: 1245 End: 1250

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	261.5	-1.7	Pass
Mt Eleanor	202.6	201.0	-1.6	Pass
		Max Abs. Error	**1.7**	**PASS**
		Mean Abs. Error	**1.6**	**GOOD**

Time: Begin: 1425 End: 1435

PSD Limits: Threshold Torque >7.5 gm-cm (.104 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 16-Jan-06

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Dir Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Vane #:** N/A **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** RMY Mdl 18112 Bench Stand **S.N.#:** None **Torque:** RMY Mdl 18331 Torque Gauge **S.N.#:** None
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.4 **E of N**

TORQUE TEST

Bearings Replaced?	Limit gm-cm	Torque gm-cm	Pass/ Fail?
In-Situ	11.0	7.0	**PASS**
New	11.0	N/A	N/A

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	262.3	-0.9	Pass
Mt Eleanor	202.6	202.4	-0.2	Pass
Compass	347.0	350.3	3.3	Pass
Compass	102.5	106.4	3.9	Pass
		Max Abs. Error	**3.9**	**PASS**
Time: Begin: 1100 End: 1145		**Mean Abs. Error**	**2.1**	**GOOD**

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	27.9	-2.1	Pass	150.0	148.9	-1.1	Pass	270.0	267.5	-2.5	Pass
60.0	58.4	-1.6	Pass	180.0	178.9	-1.1	Pass	300.0	296.4	-3.6	Pass
90.0	88.3	-1.7	Pass	210.0	208.2	-1.8	Pass	330.0	327.5	-2.5	Pass
120.0	119.2	-0.8	Pass	240.0	238.3	-1.7	Pass	355.0	352.0	-3.0	Pass
								Max Abs. Error		**3.6**	**PASS**
				Time: Begin: 1255		End: 1300		**Mean Abs. Error**		**2.0**	**PASS**

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	261.2	-2.0	Pass
Mt Eleanor	202.6	202.1	-0.5	Pass
		Max Abs. Error	**2.0**	**PASS**
Time: Begin: 1425 End: 1435		**Mean Abs. Error**	**1.3**	**GOOD**

PSD Limits: Threshold Torque >11.0 gm-cm (0.153 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 10-Feb-06

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Dir Sensor: **Make:** Climatronics **Model:** 100076 **S.N.#:** 4690 **Vane #:** 1425 **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** Climatronics **Model:** 101984 **S.N.#:** 145 **Torque:** Honeywell Mdl 366-0 **S.N.#:** 5042
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.4 **E of N**

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Compass	342.0	357.6	15.6	Fail
Compass	180.0	196.0	16.0	Fail
		Max Abs. Error	**16.0**	**FAIL**
		Mean Abs. Error	**15.8**	**ALERT**

Time: Begin: 1200 End: 1300

CROSSARM-VANE ACCUR. & LIN. TEST

Input Dir	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
South	180.0	178.6	-1.4	Pass
West	270.0	269.6	-0.4	Pass
North	360.0	0.2	0.2	Pass
East	90.0	89.8	-0.2	Pass
North	360.0			
West	270.0			
South	180.0			
East	90.0			
	Max Abs. Error		**1.4**	**PASS**
	Mean Abs. Error		**0.5**	**PASS**

Time: Begin: 1600 End: 1605

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	28.4	-1.6	Pass	330.0	329.5	-0.5	Pass
60.0	57.9	-2.1	Pass	355.0	354.6	-0.4	Pass
90.0	88.7	-1.3	Pass	30.0	28.7	-1.3	Pass
120.0	119.1	-0.9	Pass	60.0	58.2	-1.8	Pass
150.0	148.8	-1.2	Pass	90.0	88.8	-1.2	Pass
180.0	178.6	-1.4	Pass	120.0	118.8	-1.2	Pass
210.0	209.0	-1.0	Pass	150.0	148.7	-1.3	Pass
240.0	239.1	-0.9	Pass	180.0	178.6	-1.4	Pass
270.0	269.6	-0.4	Pass	**Max Abs. Error**		**2.1**	**PASS**
300.0	299.7	-0.3	Pass	**Mean Abs. Error**		**1.1**	**PASS**

Time: Begin: 1550 End: 1600

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Compass	342.5	341.6	-0.9	Pass
Compass	182.0	180.6	-1.4	Pass
Compass	103.0	101.8	-1.2	Pass
		Max Abs. Error	**1.4**	**PASS**
		Mean Abs. Error	**1.2**	**GOOD**

Time: Begin: 1630 End: 1645

PSD Limits: Threshold Torque >7.5 gm-cm (.104 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: On 01/22/06 a severe winter storm knocked the Climatronics crossarm out of alignment. The sensor was audited, realigned and then re-audited.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 10-Feb-06

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Dir Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Vane #:** N/A **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** RMY Mdl 18112 Bench Stand **S.N.#:** None **Torque:** RMY Mdl 18331 Torque Gauge **S.N.#:** None
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.4 **E of N**

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Compass	343.0	343.6	0.6	Pass
Compass	182.0	183.5	1.5	Pass
Compass	103.0	105.4	2.4	Pass
	Max Abs. Error		**2.4**	**PASS**
Time: Begin: 1500 End: 1530	**Mean Abs. Error**		**1.5**	**GOOD**

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0				150.0				270.0			
60.0				180.0				300.0			
90.0				210.0				330.0			
120.0				240.0				355.0			
								Max Abs. Error			
								Mean Abs. Error			

Time: Begin: End:

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
	Max Abs. Error			
Time: Begin: End:	**Mean Abs. Error**			

PSD Limits: Threshold Torque >11.0 gm-cm (0.153 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: RM Young sensor azimuth direction checked after winter storm.

TOPO! map printed on 08/26/06 from "Pebble_Port_(08-17-06).tpo"

APPENDIX B
AUDIT EQUIPMENT CALIBRATION CERTIFICATES

Certificate No. 1750.01

ACCREDITED

Calibration complies with ISO 17025

Cert. No.:4000-1103531

Traceable® Certificate of Calibration for Digital Thermometer

Instrument Identification:

Model: 61220-601 S/N: 51091749 Manufacturer : Control Company

Model: 61220-604 S/N: 51091789

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Probe	128	10/18/05	A4A12029
Thermistor Module	A27129	6/24/05	1000171514
Temperature Calibration Bath	A42238		
Temperature Probe	149	7/20/05	A4715024
Thermistor Module	A27129	6/24/05	1000171514
Temperature Calibration Bath	93139		

Certificate Information:

Technician: 68 Procedure: CAL-06 Cal Date: 4/27/05 **Cal Due: 4/27/07**

Test Conditions: 24.0°C 41.0 %RH 1016 mBar

Calibration Data: (New Instrument)

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±uc	TUR
°C		N.A.		0.001	0.003	Y	-0.049	0.051	0.013	3.8:1
°C		N.A.		25.001	25.002	Y	24.951	25.051	0.013	3.8:1
°C		N.A.		59.999	59.999	Y	59.949	60.049	0.013	3.8:1
°C		N.A.		100.001	100.007	Y	99.951	100.051	0.013	3.8:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full.

Wallace Berry

Wallace Berry, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA
Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

VAISALA

Certificate of Calibration

Report #: 101705-X0740015-RH **RMA #:** 95-49728 **Calibration Date:** Oct-17-2005
Model #: HMI41/HMP45 **Serial #:** X0650080 / X0740015
Instrument Type: Humidity Transmitter Calibration Procedure: 11603100
Instrument Range: 0 to 100%RH Recommended Calibration Due Date: Oct-17-2006

Customer: HOEFLER CONSULTING GROUP
City, State: ANCHORAGE, AK

This unit was calibrated by adjusting its reading at 0%* against a dry-air line and at 75% against reference humidity and temperature instrument, Vaisala model HMP233. Additional instrument verification checkpoints were made against HMP233 reference at 11%RH, 33%RH and 97%* RH. Calibration and instrument verification sequences utilize a dry-air line and a set of controlled aqueous salt solutions Vaisala model HMK13B. Laboratory ambient conditions are humidity and temperature controlled. The calibration uncertainty is presented at 95% confidence level, k=2. The standard uncertainty of the measurement has been determined in accordance with U.S. Guide to the Expression of Uncertainty in Measurement. *Note: the 0% and 97% RH points are not ISO17025 Accredited.

Calibration Data (As Found)				
Out of Tolerance: NO				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.35	21.50	0.15	0.20	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
11.13	11.40	0.27	2.00	0.92
32.70	33.10	0.40	2.00	1.01
75.44	75.00	-0.44	2.00	1.02
97.60	97.50	-0.10	3.00	N/A *

Calibration Data (As Left)				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.35	21.50	0.15	0.20	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
11.13	11.40	0.27	2.00	0.92
32.70	33.10	0.40	2.00	1.01
75.44	75.00	-0.44	2.00	1.02
97.60	97.50	-0.10	3.00	N/A *

Problem Noted: None
Action Taken: No Adjustment Was Necessary

The results of this calibration are related only to the items being calibrated, and, are traceable to the National Institute of Standards and Technology through NIST Test Report Number 270953-05, dated Oct. 29, 2004. Vaisala's calibration system has been established to meet the requirements of ANSI/NCSL Z540-1-1994. This certificate can not be reproduced, except in full, without the expressed written consent of Vaisala. The certificate was established to comply with the requirements of ISO/IEC17025. Vaisala is ISO 9001:2000 certified.

Calibration Equipment Used: Workstation 1B			
Model Number	Serial Number	Calibration Date	Due Date
Power Supply	TW14949	Nov. 24, 2004	Nov. 24, 2006
Fluke 45	7405014	Aug. 16, 2005	Aug. 16, 2006
HMK13B	500004	Sep. 2, 2005	Mar. 5, 2006
HMP233	V4210040	Jul. 21, 2005	Oct. 21, 2005

Ambient Conditions	
Temperature:	21.50 °C
Humidity:	50.00 %RH

Approved By

Technical Operator
Jari Siltavuo

Vaisala Inc., Boston Office
10-D Gill Street, Woburn, MA 01801, USA
Telephone 781 933 4500 • Fax 781 933 8029
www.vaisala.com

Certificate of Accuracy

Transfer Standard Type: Barometric Pressure/Altimeter

Certificate No: B 052305.01

Transfer standard model: Pretel AltiPlus A2
Serial number: 27806
submitted by/owner: Hoefler Consulting Group
3401 Minnesota Drive
Suite 300
Anchorage, AK 99503

Was compared to Precision Absolute Reference Barometer:
Model number: 355-AI0900 Serial number: 913930-M1
Certified accuracy of ± 0.007"Hg
NIST traceable to Ruska Deadweight Tester SN 38342/C-85

Date: 5/23/2005 Lab temperature 73.6 °F
Lab pressure 661.65 mm Hg

Reference barometer (in. Hg)	Transfer Standard (in. Hg)	Difference from Reference (in. Hg)	Transfer Standard Correction* (in. Hg)
24.00	24.13	0.13	-0.13
26.05	26.18	0.13	-0.13
28.00	28.12	0.12	-0.12
30.00	30.12	0.12	-0.12

Note:
If no sign is given on the correction, the true pressure is higher than the indicated pressure. If the sign is negative, the true pressure is lower than the indicated pressure.

Transfer Standard adjustments made? YES ☐ **NO** ☒
Post-calibration measurements:

Reference barometer (in. Hg)	Transfer Standard (in. Hg)	Difference from Reference (in. Hg)	Transfer Standard Correction* (in. Hg)

Reviewed: _____ Date: 5-23-05

Roger L. Sanders, PE

Chinook Engineering
a division of Inter-Mountain Laboratories, Inc.
555 Absaraka Street
Sheridan, Wyoming 82801 USA
(307) 672-7790
chinook@imlinc.com

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18811	Serial Number:	CA02136
Description:	Anemometer Drive - 20 to 990 Rpm - Comprised of Models 18820A Control Unit & 18831A Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	27106D Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
30.0	5	30.0	30.0
150.0	25	150.0	150.0
300.0	50	300.0	300.0
450.0	75	450.0	450.0
600.0	100	600.0	600.0
750.0	125	750.0	750.0
990.0	165	990.0	990.0
☒ Clockwise and Counterclockwise rotation verified			

(1) Measured frequency output of RM Young Model 27106D standard anemometer attached to motor shaft
(2) 27106D produces 10 pulses per revolution of anemometer shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☒ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 3 May 2005

Tested By EJC

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18801	Serial Number:	CA01674
Description:	Anemometer Drive - 10 to 10,000 RPM - Comprised of Models 18820 Control Unit & 18830 Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
600	320	600	600
1200	640	1200	1200
2400	1280	2400	2400
4200	2240	4200	4200
6000	3200	6000	6000
8100	4320	8100	8100
9900	5280	9900	9900
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 32 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 17 November 2005

Tested By EC

Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com Website: www.youngusa.com

Alaska Calibration, Inc.

Troubleshooting, Repair and Calibration of
Test & Measurement Equipment

CERTIFICATE OF CALIBRATION

WORK ORDER NO. 8884 **TRACEABILITY CERTIFICATE NO.** 05090203

ISSUED TO: Hoefler Consulting Group

INSTRUMENT: 366-3, .003-.03 Inch Ounces Torque Watch, Waters Manufacturing, Inc, S/N 4864

DATE DONE: September 02, 2005 **DATE DUE:** September 01, 2006

CERTIFIED BY METROLOGIST: E.P. Young E.P. Young **TEMPERATURE:** 72 °F **HUMIDITY:** 43% RH

INCOMING STATUS: This instrument was in (XX) was out of ( ) tolerance when received.

PROCEDURE/LIMITATIONS/ACCURACY STATEMENT: T.O. 33k6-4-2630-1. Accuracy: +/- 10 % of Full Scale.

COMPLIANCE

Alaska Calibration, Inc.'s calibration practices and procedures comply with the requirements of ANSI/SO/Z540-1 and ANS/ ISO/IEC17025: 2000 and relevant requirements of ISO 9002: 1994. The standards used are certified as being traceable to the National Institute of Standards and Technology (NIST), by comparison to SI units through laboratory standards in an unbroken chain of calibrations through appropriate primary and national measurement standards, derived from an acceptable value of a natural physical constant, or derived by the ratio type of self calibration techniques. This Certificate shall not be reproduced, except in full, without the written approval of Alaska Calibration, Inc.

4706 Harding Drive, Suite A, Anchorage, Alaska 99517-3119 (907) 677-1993

Houston Precision, Inc.

8729 Gulf Freeway
Houston, TX 77017-6504

Calibration Report

Company:	Hoefler Consulting Group	**Doc #:**	33479
Address:	3401 Minnesota Drive Suite 300 Anchorage, AK 99503	**Date:**	12/20/2005
		PO#:	Verbal
Contact:	Chris Lindsey	**Page:**	1
Dept:			
Gage:	.06-.60 oz Torque Watch	**Control:**	5042
Mfg:	Honeywell	**Model:**	.06-.60 oz Torque Watch
Location:		**Serial #:**	5042

Parameters:

Parameter:

Text:

Comments:

Calibration Completed by: Cal-Tech Calibration, INC
Original Certificate (attached) # 1768

Reference HPI S/O # 13385

We certify the equipment used for this calibration is traceable to NIST through one or more of the following numbers.
:

Last / Next Cal Dates: -->

Gage Status: PASS

Next Calibration Due: 12/20/2006

Certified By: Jorge Ashook Signature: Jorge A. Ashook

This certificate is not valid unless all 1 page(s) are present.
*Laboratory Environmental Conditions: Temperature: 21C +/- 2C, Relative Humidity: between 40% and 60%.
*Calibration measurements are performed in accordance with guidelines set forth in ANSI/NCSL Z540-1-1994, ISO10012-1, and Houston Precision's Quality manual.
*If additional information regarding this calibration is required, please contact this laboratory.
*All calibrations have been performed under the supervision and authority of Gary Deterling Lab Manager.

End of document.

Certificate of Calibration

The instrument listed below meets or exceeds published specifications and has been calibrated under controlled conditions and is traceable to the National Institute of Standards and Technology(N.I.S.T.), or to accepted intrinsic standards of measurement, or by the ratio type of self-calibration techniques. Cal-Tech Calibration conforms to the following, ANSI/NCSL Z540-1-1994, ISO/IEC 25/17025.

Customer: Houston Precision
Certificate Number: 1768
Instrument Make: Honeywell
Model: .06-.60" oz Torque Watch
S/N: None
ID: 5042

Date: 12-20-05
Temp: 74 Deg f
Humidity: 40%
Rec. In Tol.
Due Date: 12-20-06

Certification by: _____

Accuracy: +\- 5% of full scale.

Comments:

Standards Used	Model	Certification Number	Due Date
Troemner	1g-100g	822/265036-01	3-22-06

Inch Oz. Range	As Found	After Adjust	Final Reading
.06	.05	none	.05
.18	.17	none	.17
.36	.35	none	.35
.48	.47	none	.47
.60	.59	none	.59

Cal-Tech Calibration, Inc.
1314 FM 646 West /Ste. 15 / Dickinson, Texas 77539 /Phone 281-614-0050 / Fax 281-614-0046

THE BRUNTON COMPANY
Certificate Of Calibration

Equipment Owner:
Name: Hoefler Consulting Group

Address: 3401 Minnesota Drive Ste. 300

City, State, Zip: Anchorage, Ak 99503

Calibration traceable to the National Institute of Standards and Technology in accordance with Mil-STD-45662A has been accomplished on the instrument listed below by comparison with standards maintained by The Brunton Co. The accuracy and stability of all standards maintained by The Brunton Co. are traceable to national standards maintained by the National Institute of Standards and Technology in Washington, D.C. and Boulder, CO. Complete record of all work performed is maintained by The Brunton Co. and is available for inspection upon request.

This Unit has been calibrated to Lietz TM10E serial number 30937 traceable to N.B.S. no. 738 227675 this 12th Day of July 20 05

DESCRIPTION: Pocket Transit

PURCHASE ORDER: S. MacKay

ORDER NUMBER: 176322

LOT NUMBER: 19680

MODEL NUMBER: 11-F5008

SERIAL NUMBER: 5080799319

CALIBRATION DATE: 7/12/05

RECALIBRATION DUE DATE: 7/12/06

Signed: Raelene White
QUALITY CONTROL MANAGER

Pebble Port PSD Meteorological Monitoring Station

August 2006

Quality Assurance Systems Audit and Performance Audit

Pebble Project
NORTHERN DYNASTY MINES INC.

for the

Pebble Project

Meteorological Monitoring Program

Iliamna, Alaska

prepared for

Northern Dynasty Mines, Inc.

Pebble Port PSD Meteorological Monitoring Station
August 2006
Quality Assurance Systems Audit
and Performance Audit

Prepared for:

Northern Dynasty Mines, Inc.
Anchorage, Alaska

Prepared by:

Hoefler Consulting Group, Inc.
3401 Minnesota Drive, Suite 300
Anchorage, Alaska 99503

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1.0 INTRODUCTION

Hoefler Consulting Group, Inc. (HCG) operates meteorological monitoring stations for Northern Dynasty Mines, Inc. (NDM) in support of the Pebble Mine Project near Iliamna, Alaska. The air monitoring program is one component of ongoing baseline environmental studies being conducted to support mine permitting, mine design and mine transportation infrastructure development. The stations meet Prevention of Significant Deterioration (PSD) guidelines, although PSD permits may not be required. This report covers the Port monitoring station located near the proposed mine port site.

The Pebble Port Station is located on the west shore of Iniskin Bay, near the southern end of the bay. The station is situated on a 50' high knoll, very near the water's edge. The Port Station consists of an instrumented 11-meter sectional tower secured with three guy wires. Approximately 20' south of the tower is a 6' by 8' insulated building which houses the datalogger and power supply system. The Pebble Port Station is instrumented with PSD quality sensors monitoring the following parameters:

- Ambient Temperature (ºC): Met One 062MP Thermistor Probe at 2-m
- Temperature Difference (ºC): Met One 062MP Thermistors at 2-m and 10-m
- Wind Speed 1 (m/s): Climatronics F460 P/N 100075 Wind Speed Sensor
- Wind Direction 1 (°): Climatronics F460 P/N 100076 Wind Direction Sensor
- Wind Speed 2 (m/s): RM Young 05305 Wind Monitor-AQ
- Wind Direction 2 (°): RM Young 05305 Wind Monitor-AQ
- Sigma Theta (°): Campbell Scientific CR10X DAS calculated (Yamartino)
- Relative Humidity (%RH): Vaisala HMP45AC Relative Humidity Sensor
- Barometric Pressure (mbar): Vaisala PT101B Barometric Pressure Sensor
- Solar Radiation (W/m2): LI-COR Li-200SX Solar Radiation Pyranometer.

This report has been prepared for NDM to serve as an official review of the Pebble Port Station and a review of the overall Pebble Project Meteorological Monitoring Program. To that end, Systems and Performance Audits were undertaken in order to help demonstrate that the equipment and procedures used for collecting meteorological data by HCG meet the requirements set forth by the U.S. Environmental Protection Agency (EPA) and the Alaska Department of Environmental Conservation (ADEC).

2.0 SYSTEMS AUDIT

2.1 Systems Audit Methodology

In the *Quality Assurance Handbook for Air Pollution Measurement Systems* and the *Meteorological Monitoring Guidance for Regulatory Modeling Applications*, EPA provides guidance for conducting systems audits. EPA recommends that a systems audit be conducted to serve as a qualitative review of all aspects of a meteorological monitoring program. The systems audit includes a review of the program plan, station site, facilities, equipment, personnel, procedures, record keeping, data validation and data reporting. The systems audit should be completed within the first 30 days of operation and every year thereafter.

The *Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program* was completed by HCG in August 2006. This systems audit consisted of a review of this document, site visits and personnel interviews. Personnel were also observed during station maintenance and calibration operations. All aspects of the program not specifically mentioned in the Plan were reviewed to determine consistency with EPA and ADEC guidelines. The complete systems audit report contained in Appendix A is organized into six major sections; 1) General Program Information, 2) Monitoring Program Staff Organization, 3) Meteorological Monitoring Station Equipment, 4) Standard Operating Procedures, 5) Documentation, 6) Data Processing and Validation, 7) Quality Assurance and Quality Control (QA/QC), and 8) Comments and Suggestions. Each section consists of a question-answer format with additional comments to provide clarity. Flow charts are also used to accurately document program staff organization and the data handling process. A complete list of the references used for the systems audit is contained in Section 4.

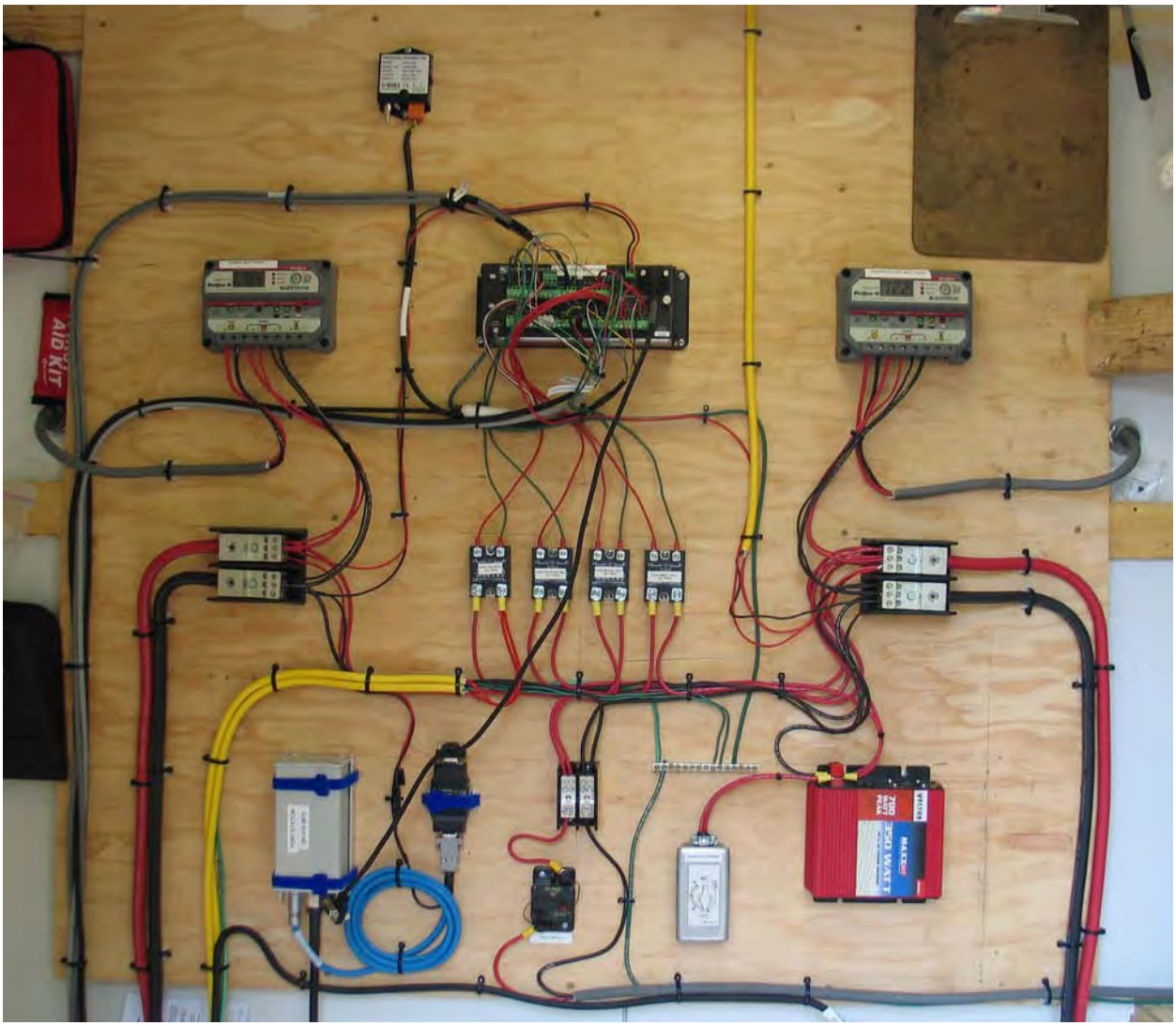
2.2 Meteorological Station On-Site Systems Audit

The on-site systems audit of the Pebble Port Station was conducted on August 21, 2006. Eric Brudie of HCG completed the systems audit with Dominic Shallies of HCG assisting and witnessing. Mr. Brudie serves as an independent auditor on this project and is not involved with day to day operations of the station.

The Pebble Port meteorological monitoring station is founded on a stable, well anchored tower with PSD quality sensors securely affixed. In order to protect instrumentation wires from animals; 2” liquid-tight conduit runs from the 12’ height on the tower to the prefab building. The data acquisition system (DAS), communications system, solar

controllers and power distribution system are mounted on a 4' by 4' plywood wiring panel mounted in the building, see photo.

Figure 2-1 Pebble Port Station DAS Wiring Panel



The Campbell Scientific CR10X DAS wiring is well organized and needs no further discussion. Constant communication between the DAS and a dedicated polling computer in the HCG office is integral to this installation. A Campbell Scientific SC932A interface converts the DAS signal to a RS-232 DCE modem signal. Three FreeWave spread spectrum radio modems transmit the signal to a SixNet industrial phone modem which is linked to the grid near Seldovia, Alaska. The met station radio and base radio rely on directional Yagi antennas focused on an omni-directional antenna at the repeater radio. The repeater radio is powered by one 35-Watt solar panel buffered through a solar controller and five 100 Amp-Hr deep cycle gel cell batteries.

Power generation at the meteorological monitoring station consists of four 50-Watt solar panels and a 21-Watt Global Thermoelectric Model 5030 Thermo-Electric Generator (TEG). One solar panel is dedicated to the DAS and meteorological instrumentation; wired through a Morningstar ProStar-15 solar controller and buffered through two 200 Amp-Hr deep cycle gel cell batteries. Three panels are dedicated to the aspirator fans, Climatronics heaters, shelter lighting and 120VAC power; wired through a Morningstar ProStar-15 solar controller and buffered through two 200 Amp-Hr deep cycle gel cell batteries. The shelter lights and 120VAC inverter for laptop use are routed through manual timers to ensure use only when operators are on site. During the winter months, November through April, the TEG is turned on to supplement the aspirator/heater power system. Aspirator fans and heaters are controlled through relays connected to the DAS control ports. Logic programmed into the DAS reduces power consumption by limiting heater use to weather conditions conducive to icing and turns fans off at night when voltage is low, considered an upset condition. Also the TEG power is routed through relays which shunt power to the critical DAS/sensor system during upset conditions.

2.3 Operations, Data Management and Documentation Systems Audit

This phase of the systems audit consists of a review of the HCG *Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program* (Plan), and other system documentation, and a review of system operations. System operations include physically running the station and subsequent data management.

The Plan is a comprehensive document which adequately details the Pebble meteorological monitoring program. Program objectives, installations, operations, data management and quality assurance are all clearly outlined. Equally, the Pebble Port Station is representative of the Plan design. The Plan provides standard operating procedures and standard forms for all equipment field calibrations and audits. Station operators also had complete DAS and meteorological sensor manuals on hand at the station. Plan and documentation review are covered further in Appendix A.

Station operators were observed during calibration and maintenance procedures and appeared knowledgeable about all facets of operating the monitoring station. Data are downloaded daily using an automated script on a dedicated polling computer located at the HCG office. The raw data are appended to a station file located on the HCG server, which is backed up daily. The data manager copies the raw data to a custom Access/Excel database, leaving the raw data unaltered. The custom database creates a series of graphs of all meteorological data as well as some station operational parameters. These plots are reviewed 5-6 days per week in order to immediately

identify station upsets. An example is a graph of solar radiation and battery voltage; which reveals potential problems with daily charge cycles. Both the Climatronics and RM Young Wind sensor data are plotted together to indicate problems with one of the sensors. All station parameters are plotted with ranges and pairings intended to best reveal upset conditions. Problems are immediately identified and corrective action planned and executed. Steps are taken to flag data which may have been identified as suspect during this graphical data review. Data generated during station maintenance, audits and calibrations are also flagged as invalid.

Prior to compilation of data summary reports, data are screened using EPA recommended screening criteria. Data flagged as outliers by the screening program are further reviewed for consistency with prevailing conditions and then permanently invalidated or validated. Data ultimately invalidated are permanently removed from the database and the reasoning is codified in a special column in the database. This cleaned dataset is used for all subsequent data summaries, wind roses, data reports and capture rate calculations. More detailed discussion of the operations and data management are contained in the Systems Audit Appendix A.

2.4 Comments and Suggestions

The Pebble Port Station is a well designed and operated meteorological monitoring station. The remote station is equipped with a robust and sophisticated power supply. The systems audit revealed that HCG possesses the necessary organization, personnel, training, equipment, quality assurance, and quality control procedures to accurately collect and report PSD quality data. HCG adequately maintains the Pebble Port Station and practices sufficient data review and preventive maintenance to avoid unnecessary data loss.

The following recommendations are made to the program in order to improve the operation of the stations and ensure their operation is in accordance with standards:

- Create custom site visit checklists
- Keep a file on site containing copies of previous checklists.

3.0 PERFORMANCE AUDIT

3.1 Performance Audit Methodology

During the performance audit, the station datalogger is interfaced with a portable laptop computer to display the outputs for the meteorological sensors. The value of each meteorological sensor is compared to the output value from the appropriate piece of audit equipment or from calibrated instruments collocated with the sensor. The difference between the station's datalogger reading and the output from each audit instrument is compared with established PSD limits to determine the accuracy of each sensor. Additionally, threshold torques for wind speed and wind direction are measured with audit equipment and compared with manufacturer torques corresponding to the PSD threshold speed of 0.5 m/s. Table 3-1 provides a summary of the performance audit methods and limits used to audit each parameter at the stations.

Table 3-1 Performance Audit Methods and Acceptable Limits

Parameter	Audit Method	EPA/Manufacturer Limit
Datalogger Time	NOAA Clock	≤ ±5:00 minutes from AST
Temperature Accuracy	Collocated NIST thermistor	≤ ±0.5 °C
Temperature Difference	Collocated NIST thermistor	≤ ±0.1 °C
Wind Speed Accuracy	Synchronous rpm motor	≤ ±0.2 m/s + 5 % observed
Wind Spd Torque (Clim)	Torque watch	≤ 0.35 g-cm (0.0049 oz-in)
Wind Spd Torque (RMY)	Torque watch	≤ 1.0 g-cm (0.014 oz-in)
Wind Direction Alignment	GPS, compass or landmark	≤ ±5° from true azimuth
Wind Direction Accuracy	Linearity tester	≤ ±5° per audit point
Wind Direction Linearity	Linearity tester	≤ 3° mean absolute average
Wind Dir Torque (Clim)	Torque watch	≤ 7.5 g-cm (0.104 oz-in)
Wind Dir Torque (RMY)	Vane torque gauge	≤ 11 g-cm (0.153 oz-in)
Relative Humidity	Collocated NIST RH sensor	≤ ±1.5 °C of dew point
Barometric Pressure	Collocated NIST BP sensor	≤ ±3 mbar
Solar Radiation	Collocated NIST sensor	≤ ±5% of input+resolutuion[1]

1. This audit limit is modified from PSD standard, as discussed below.

3.1.1 Data Acquisition System

An audit of the datalogger is conducted by comparing all datalogger outputs to the audit standards, as described below. The datalogger time is checked against an instantaneous time reading from the National Oceanic and Atmospheric Administration (NOAA) clock in Boulder, Colorado, via a global positioning system (GPS) handheld unit or telephone contact with the NOAA clock.

3.1.2 Air Temperature and Air Temperature Difference

The 2-meter and 10-meter thermistors are removed from their aspirator shields and collocated with a National Institute of Standards and Technology (NIST) traceable digital thermometer. The station thermistors and the transfer standard NIST thermometer are taped together and immersed in insulated thermoses containing a series of fluid baths; hot water (35°C to 45°C), warm water (15°C to 25°C), water/ice bath (0°C), cold glycol (-15°C to -25°C) and very cold glycol (-35°C to -45°C). Dry ice is used to cool the glycol baths. Each liquid bath is agitated and allowed to equilibrate before simultaneous readings are taken from the three instruments.

An alternate method can also be used for the low temperature audits, employing a Thermal Mass Device (TMD). The TMD consists of a 6” diameter by 9” high solid aluminum block milled to fit snuggly inside of an insulated Dewar flask. On the top of the TMD, and in corresponding locations on the flask lid, are holes sized to accommodate a variety of Campbell, Climatronics, Met-One and VWR thermistors. The TMD is cooled to the target temperatures by contact with dry ice and then placed in the insulated flask. The audit and station thermistors are inserted through the flask lid and into the appropriate holes in the TMD. After the TMD and the thermistors are allowed to equilibrate, readings for all thermistors are simultaneously taken. The aluminum TMD has a very high thermal conductivity and when allowed to equilibrate inside of the insulated flask, thermal gradients across the TMD are very small.

In all cases, the difference between the individual station thermistors and the NIST standard are compared to the PSD temperature accuracy limit of ±0.5°C. The difference between the two station thermistors (10-m°C minus 2-m°C) is compared to the PSD temperature difference limit of ±0.1°C.

3.1.3 Wind Speed

Anemometers are audited to determine their accuracies in reading known wind speeds and to ascertain the sensor’s threshold torque. The Climatronics and RM Young sensors are audited in very similar manners and are discussed together. The

instruments are tested after removal from the tower and after removal of the sensor's props or cups.

First, an RM Young synchronous motor is attached to the shaft of the anemometer by using brand specific coupling devices. The sensor shaft is rotated at several different known revolutions per minute (rpm). Each rotational speed in rpm is equated to a wind speed in meters per second (m/s) by using the anemometer manufacturer's linear calibration formula. The difference between the calculated input speed in m/s and the datalogger output is compared to established PSD limits for each input rpm.

Next, a high precision torque watch is attached to the shaft of the anemometer, once again using custom couplings. Torque readings are made in both directions in each quadrant along the axis of rotation of the shaft. The maximum reading is recorded for the torque required to turn the shaft of the anemometer. The torque value recorded during the audit is compared to manufacturer's torque corresponding to the minimum PSD threshold speed of 0.5m/s.

3.1.4 Wind Direction

The wind direction sensors are first audited as-found to determine the accuracy of their alignment with respect to true north (true azimuth alignment) using one of four methods. In one method, a handheld GPS unit is used to measure the position of the auditor with respect to a waypoint captured under the wind sensor's position on the tower. Using binoculars, the tail of the wind vane is aligned with the auditor's position at a distance of several hundred feet from the tower. The GPS bearing back to the tower waypoint is then compared to the DAS reading. The difference between the two should not exceed ±5° per audit point. This procedure is repeated at least 4 times, once per quadrant, generally near the cardinal directions. The second method uses a calibrated precision compass mounted on a gimbal and tripod. The compass declination is preset for the specific location and date using one of a variety of magnetic declination computer models. The sensor tail is aligned toward the auditor while auditor sights the compass toward the sensor and readings are taken in a similar manner to the GPS method.

Another option is to align the tail of the sensor with a distant identifiable landmark of know bearing. The bearing to the landmark may be ascertained using a variety of methods. One method involves physically capturing a distant GPS waypoint, such as at a discernable structure or emissions stack. Bearings to inaccessible natural landmarks, usually distant mountain peaks, are acquired through the use of various computer mapping programs, such as Natural Geographic's TOPO program or USGS digital

raster graphics (DRGs) loaded into AutoCAD. The bearing from the station location to the landmark is compared to the DAS reading. This method yields the most accurate audit value, but is limited by weather and availability of discernable landmarks. The final method is to align the vane with the tower guy wires or preset survey markers, whose bearing has been ascertained using precision survey equipment.

The wind direction accuracy and linearity are subsequently audited after the wind direction sensor is removed from the tower. The Climatronics sensor is mounted on a Climatronics Model 101984 linearity tester and the RM Young sensor is mounted on an RM Young Model 18112 Vane Angle Bench Stand. Both test fixtures are keyed to their respective sensor and graduated from 0° to 360°. A series of readings starting at 30° and then clockwise in 30° increments are taken. The RM Young is read from 30° to 360° and the Climatronics is read from 30° to 540°. The Climatronics sensor is tested 180° past 360° in order to test the second potentiometer used in some DAS programming. Although not required, the Climatronics sensor is also tested with the vane attached in order to ascertain sensor accuracy and linearity relative to the instrument crossarm. The vane is aligned along the axis of the crossarm to yield the 0°/360° and 180° values and against a square held to the crossarm for the 90° and 270° directions. Four readings are taken in a clockwise direction and four are taken counterclockwise to complete the test. For both the linearity test fixture and crossarm tests, individual error values are assessed for the PSD accuracy limit of ±5° per point and the mean absolute average error is assessed against the linearity limit of 3°.

Next, the RM Young wind direction threshold is tested by measuring wind vane torque using an RM Young Model 18331 Vane Torque Gauge. This device saddles the wind vane and a calibrated spring is pulled to determine maximum torque from readings taken in both directions in all four quadrants. The Climatronics wind direction starting torque is measured with the vane removed by using a precision torque watch in the same manner as the wind speed torque. The highest torque readings are compared to specific manufacturer limits for instrument staring torque.

Finally, the wind direction sensors are placed back on the tower and as-left audits of the azimuth alignments are conducted to ensure the instruments are properly reinstalled.

3.1.5 Relative Humidity

Relative humidity (RH) is audited using a collocated NIST traceable RH sensor. The NIST sensor and the field sensor are collocated out of direct sunlight to eliminate solar radiation effects, preferably inside of the motor aspirated shield. If the NIST standard reads directly in dew point °C, those readings are used; if not, relative humidity and

temperature readings are used. For the audit, instantaneous readings of dew point, relative humidity and temperature are recorded from the transfer standard and the DAS. All relative humidity and temperature readings are converted to dew point in order to assess the PSD error limit of ±1.5°C dew point.

3.1.6 Barometric Pressure

Barometric pressure (BP) is audited using a collocated NIST traceable BP sensor. The difference between the NIST sensor and the station sensor are compared to the PSD limit of ±3 mbar.

3.1.7 Solar Radiation

Outputs of the station sensor are compared to the output of a level collocated audit solar radiation sensor. The audit sensor is connected to an independent audit datalogger with the scan interval and clock synchronized with the station DAS. Hourly average solar radiation readings and instantaneous readings are recorded during the audit and then input into a custom spreadsheet to calculate a linear regression for the data. The PSD limit for solar radiation audits is ±5% of observed, but this standard is very difficult to obtain at the northern latitude of this installation. This EPA standard is currently undergoing review and is expected to change. A well excepted substitute is that individual DAS and audit data pairs are compared to a limit of ±5% of observed **+ EPA minimum instrument resolution (10W/m²)**. Individual data pairs are evaluated against this standard, but the overall set is restricted to a 5% error by limiting allowable linear slope to 1.0±0.05.

3.2 Performance Audit Results

The performance audit was conducted at the Pebble Port Station on August 21, 2006 with Dominic Shallies of HCG assisting. All sensors were challenged with certified audit equipment and yielded errors below the PSD limits. The thermistor aspirator fans had failed and were replaced during the audit. Summary audit results are contained in Table 3-2 and complete audit reports and audit equipment calibration certificates are contained in Appendix B and Appendix C respectively.

3.3 Performance Audit Recommendations

- Set up DAS to read aspirator fan amperage in order to monitor fan status.

Table 3-2 Port Station August 21, 2006 Performance Audit Summary

Parameter	Limit	Units	Max Err	Status
Datalogger Time	≤ ±5:00	Min:Sec	0:07	Pass
2-m Temperature Accuracy	≤ ±0.5	°C	0.21	Pass
10-m Temperature Accuracy	≤ ±0.5	°C	0.21	Pass
Air Temperature Difference	≤ ±0.1	°C	0.00	Pass
Climatronics Wind System				
Wind Speed Torque	≤ 0.0049	oz-in	<<0.003	Pass
Low Wind Spd. Accuracy (≤5m/s)	≤ ±0.2	m/s	0.00	Pass
High Wind Spd. Accuracy (>5m/s)	≤ ±5	% input	0.0	Pass
Wind Direction Torque (old bearings)	≤ 0.104	oz-in	0.100	Pass
Wind Direction Torque (new bearings)	≤ 0.104	oz-in	0.070	Pass
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	-0.6	Pass
Wind Direction Accuracy	≤ ±5	Degree	-1.3	Pass
Wind Direction Linearity	≤ 3	Degree	0.5	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	-2.8	Pass
RM Young Wind System				
Wind Speed Torque[1]	≤ 0.014	oz-in	0.008	Pass
Low Wind Spd. Accuracy (≤5m/s)	≤ ±0.2	m/s	0.00	Pass
High Wind Spd. Accuracy (>5m/s)	≤ ±5	% input	0.0	Pass
Wind Direction Torque (old bearings)	≤ 11	g-cm	9.0	Pass
Wind Direction Torque (new bearings)	≤ 11	g-cm	6.0	Pass
Wind Dir. Azim. Align. (as-found)	≤ ±5	Degree	2.5	Pass
Wind Direction Accuracy	≤ ±5	Degree	-4.5	Pass
Wind Direction Linearity	≤ 3	Degree	2.6	Pass
Wind Dir. Azim. Align. (as-left)	≤ ±5	Degree	2.8	Pass
Relative Humidity (dew point)	≤ ±1.5	°C	0.7	Pass
Barometric Pressure	≤ ±3	Mbar	1.0	Pass
Solar Radiation	≤ ±5+Res	% input	-5.8	Pass

1. Could not replace RM Young speed bearing due to stripped set screw.

4.0 REFERENCES

"Quality Assurance Project Plan for the Pebble Project Meteorological Monitoring Program", Hoefler Consulting Group, Inc., August 2006.

"Quality Assurance Manual for Ambient Air Quality Monitoring" ADEC, August 1996.

"Elements for Ambient Air Monitoring Quality Assurance Project Plan (QAPP)", ADEC, September 2004.

"Ambient Air and/or Meteorological Monitoring Quality Assurance Project Plan (QAPP) Review Checklist", ADEC, September 2004.

"Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)", EPA-450/4-87-007, May 1987.

"Quality Assurance Requirements for Prevention of Significant Deterioration (PSD) Air Monitoring", EPA-40 CFR Part 58, Appendix B, November 2004.

"On-Site Meteorological Program Guidance for Regulatory Modeling Applications", EPA-450/4-87-013, August 1995.

"Meteorological Monitoring Guidance for Regulatory Modeling Applications", EPA-454/R-99-005, February 2000.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume II: Part I, Ambient Air Quality Monitoring Program Quality System Development", EPA-454/R-98-004, August 1998.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume IV: Meteorological Measurements", EPA/600/R-94/038d, March 1995.

"Quality Assurance Handbook for Air Pollution Measurement Systems, Volume V: Precipitation Measurement Systems", EPA/600/R-94/038e, April 1994.

APPENDIX A
SYSTEMS AUDIT DATA SHEETS

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1.0 GENERAL PROGRAM INFORMATION

1.1 Site Description

The Pebble Port tower is located near the middle of a small point on the west shore of Iniskin Bay. The 50' high point is approximately 75' wide and 150' long and is vegetated with Alders, low shrubs and small Spruce trees. East of the station are the waters of Iniskin Bay and to the west the topography rises steeply to almost 3,000'.

1.2 Site Location

1.2.1 Coordinates

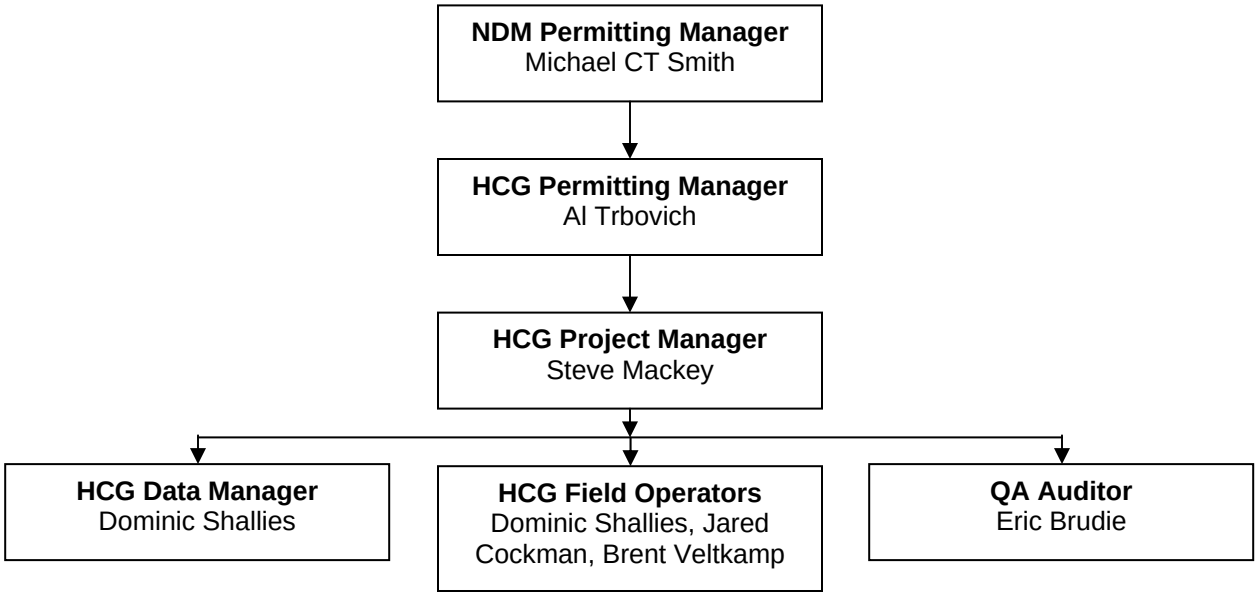
Indicated by Operator	Determined by Auditor
59° 39' N	59° 38.959' N
153° 28' W	153° 28.314' W
Elevation: 40 feet	Elevation: 50 feet

1.2.2 Appearance and Safety

Does the site appear clean, organized and well maintained?	■ Yes □ No	Comments: None.
Does the site appear to be safe and reasonably hazard free?	■ Yes □ No	Comments: None.
Does the site have a shelter for operators?	■ Yes □ No	Comments: None.
Does the site have emergency equipment such as a first aid kit available?	■ Yes □ No	Comments: None.
Does the site have adequate measures to prevent human tampering?	■ Yes □ No	Comments: 6' fence surrounds station.
Does the site have adequate measures to prevent damage from animals?	■ Yes □ No	Comments: Cables protected in liquid-tight conduit and electronics inside shelter.

2.0 MONITORING PROGRAM STAFF ORGANIZATION

- Draw diagram indicating the organizational structure of the monitoring program. Include names and titles:



3.0 METEOROLOGICAL MONITORING STATION EQUIPMENT

3.1 Inventory

Parameter	Make	Model	Serial No.
DAS	Campbell Scientific	CR10X	X41611
DAS Wiring Panel	Campbell Scientific	CR10X	31375
Temperature (2-meter)	Met One	062MP	E3381, ID #1/2
Temperature (10-meter)	Met One	062MP	E3381, ID #2/2
Temperature Aspirators	Met One	076B-4	Unknown
Primary Wind Speed	Climatronics	F460-100075	5008
Primary Wind Speed Cups	Climatronics	HD Al. P/N 101287	2285
Primary Wind Direction	Climatronics	F460-100076	4690
Primary Wind Direction Vane	Climatronics	HD P/N 101288	1425
Wind Sigma	Campbell Scientific	DAS Calculated	N/A
Backup Wind Speed	RM Young	05305 Wind Mon-AQ	67055
Backup Wind Speed Prop	RM Young	08254	63037
Backup Wind Direction	RM Young	05305 Wind Mon-AQ	67055
Relative Humidity	Vaisala	HMP45AC	A2120081
Barometric Pressure	Vaisala	PTB101B	A1950006
Solar Radiation	LI-COR	Li-200SX	PY50763

3.2 Equipment Evaluation

3.2.1 Data Acquisition System (DAS) and Communications System

Is the DAS well protected from the elements with adequate room for maintenance?	■ Yes □ No	Comments: DAS inside of a weatherproof building, mounted on a 4'x4' wiring panel.
Is the DAS rated for operation in the expected local temperature range?	■ Yes □ No	Comments: -55°C to + 85°C.
Are all sensor cables neatly and securely connected to the correct DAS channels?	■ Yes □ No	Comments: Well organized wiring panel.
Is remote communication to the DAS system available to operators?	■ Yes □ No	Comments: DAS to SC932A interface to FreeWave RF network to SixNet modem.
Are all components of the DAS and communications system operational?	■ Yes □ No	Comments: None.
Are the DAS and communication equipment properly grounded?	■ Yes □ No	Comments: 8' ground rod wired to central ground buss.
Are the DAS and communication equipment protected from lightning?	□ Yes ■ No	Comments: There is no lighting protection, but area not prone to strikes.

3.2.2 Power Supply System

Does the system have a stable power supply or line power?	■ Yes □ No	Comments: Very robust alternative power supply described below.

- Describe the meteorological monitoring station power supply system.

The DAS, communications equipment and meteorological sensors are powered by one 50-Watt solar panel, buffered through two 200 amp-hr deep cycle gel cell batteries. The aspirator fans and Climatronics wind sensor heaters are powered by three 50-Watt solar panels buffered through two 200 amp-hr deep cycle gel cell batteries. During the winter months (November through April), the aspirator/heater system is also powered by a 21-Watt propane Thermo-Electric Generator (TEG). The isolated DAS and Aspirator power systems can be interconnected during upset conditions through an array of relays managed through the DAS control ports. The DAS monitors battery levels and can shunt the two power systems should one run low. The DAS also has algorithms programmed to assess weather conditions and limit heater use when not required.

3.2.3 Meteorological Monitoring Sensors

Do all sensors appear to be clean, intact, in good condition and well maintained?	■ Yes □ No	Comments: None.
Are all sensors operational, online and reporting data?	■ Yes □ No	Comments: None.
Do all sensors meet EPA criteria for PSD quality sensors?	■ Yes □ No	Comments: See table below.
Are spare parts stocked for items which are frequently worn out or broken?	■ Yes □ No	Comments: Spare props, cups and vanes onsite and spare bearings at HCG office.

3.2.4 EPA PSD Meteorological Instrument Standards

Parameter	Instrument Specifications	EPA Standard	Pass?
Air Temperature (2-M, 10-M & Delta-T) – Met One Mdl. 062MP			
Accuracy (2-m & 10-m):	±0.05 °C	±0.5 °C	Yes
Accuracy (Delta-T):	±0.02 °C	±0.1 °C	Yes
Range (Operating Temp):	-50°C to +50°C	-20°C to +30°C	Yes
*Resol. (2-m & 10-m):	0.01°C	0.1°C	Yes
*Resolution (Delta-T):	0.01°C	0.02°C	Yes
Response Time:	10 seconds	≤1 minute	Yes
Wind Speed – Climatronics Mdl. F460-100075			
Accuracy:	±0.07 m/s or ±1% of obs.	±0.2 m/s + 5% of observed	Yes
Range:	0.0 m/s to 65 m/s	0.5 m/s to 50 m/s	Yes
*Resolution:	0.01m/s	0.1 m/s	Yes
Threshold Speed:	0.22 m/s	≤0.5 m/s	Yes
Distance Constant:	<4.0 m (HD Alum. Cups)	≤5 m	Yes
Operating Temperatures:	-40°C to +60°C	-30°C to + 30°C	Yes
Wind Direction – Climatronics Mdl. F460-100076			
Accuracy:	±2°	±5°	Yes
Range:	0° to 360°	0° to 360°	Yes
*Resolution:	0.1°	1°	Yes
Threshold Speed:	0.22 m/s	≤0.5 m/s	Yes
Distance Constant:	<2.5 m (Heavy Duty Vane)	≤5 m	Yes
Damping Ratio:	>0.4 @10° initial angle	0.4 to 0.7	Yes
Operating Temperatures:	-50°C to +60°C	-30°C to + 30°C	Yes
Wind Speed – RM Young Mdl. 05305 Wind Monitor-AQ			
Accuracy:	±0.2 m/s or 1% of observed	±0.2 m/s + 5% of observed	Yes
Range:	0.0 m/s to 50 m/s	0.5 m/s to 50 m/s	Yes
*Resolution:	0.01m/s	0.1 m/s	Yes
Threshold Speed:	0.4 m/s	≤0.5 m/s	Yes
Distance Constant:	2.1 m	≤5 m	Yes
Operating Temperatures:	-50°C to +50°C	-30°C to + 30°C	Yes
Wind Direction – RM Young Mdl. 05305 Wind Monitor-AQ			
Accuracy:	±3°	±5°	Yes
Range:	0° to 360°	0° to 360°	Yes
*Resolution:	0.1°	1°	Yes
Threshold Speed:	0.5 m/s @10° displacement	≤0.5 m/s	Yes
Distance Constant:	1.2 m	≤5 m	Yes
Damping Ratio:	0.45	0.4 to 0.7	Yes
Operating Temperatures:	-50°C to +50°C	-30°C to + 30°C	Yes
Relative Humidity – Vaisala Mdl. HMP45AC			
Accuracy:	±2/3% at 0-90/90-100% RH	±1.5°C Dew Point**	Yes
Range:	0.8% to 100% RH	-30°C to +30°C Dew Point**	Yes
*Resolution:	0.1% RH	1% RH	Yes
Response Time:	10 sec	≤30 minutes	Yes
Operating Temperatures:	-40°C to +60°C	-30°C to + 30°C	Yes
** EPA criteria in units of dew point, RH and operating temperature ranges meet these criteria.			
Barometric Pressure – Vaisala Mdl. PTB101B			
Accuracy:	±0.5 mbar	±3 mbar	Yes
Range:	600 mbar to 1060 mbar	Not Specified	N/A
*Resolution:	0.1 mbar	0.5 mbar	Yes
Response Time:	300 msec	Not Specified	N/A
Operating Temperatures:	-40°C to +60°C	Not Specified	N/A

EPA Recommended Meteorological Instrument Standards (Continued)

Parameter	Instrument Specifications	EPA Standard	Pass?
Solar Radiation – LI-COR Mdl. Li-200SX Pyranometer			
Accuracy:	±5% Observed	±5% Observed	Yes
Range:	0 W/m^2 to 3000 W/m^2	Not Specified	N/A
*Resolution:	1 W/m^2	10 W/m^2	Yes
Response Time:	10 µs	5 seconds	Yes
Spectral Response:	400 nm to 1,100 nm	285 nm to 2800 nm	No
Operating Temperatures:	-40°C to +65°C	-20°C to +40°C	Yes
* For all instruments; resolutions are the result of instrument type, configuration and DAS programming.			

3.3 Station Location and Siting

3.3.1 Tower

Do all obstructions exist below a 1:10 slope away from the tower base? ■ Yes □ No Comments: None.

Is the height of the tower 10 meters above the ground? ■ Yes □ No Comments: None.

Is the tower stable and plumb? ■ Yes □ No Comments: None.

Is the tower protected from lightning? □ Yes ■ No Comments: There is no lighting protection, but area not prone to strikes.

3.3.2 Temperature and Relative Humidity Sensors

Are the sensors mounted at least 2-m above open level ground at least 9-m in diameter? ■ Yes □ No Comments: None.

Are the temperature difference probes at heights of 2-m and 10-m above the ground? ■ Yes □ No Comments: None.

Are the sensors at a distance greater than four times the height of any obstruction? ■ Yes □ No Comments: None.

Is the ground beneath the temperature sensors natural native material? ■ Yes □ No Comments: None.

Is the site free of any natural features that could bias temperature data (e.g. open water, sloping ridge, etc.)? ■ Yes □ No Comments: None.

Is the site free of any man-made features that could bias temperature data (e.g. asphalt, concrete, exhaust plumes, etc.)? ■ Yes □ No Comments: None.

Are the sensors located at least 30 meters from large paved areas? ■ Yes □ No Comments: None.

Is the ambient temperature sensor protected from the influence of solar radiation? ■ Yes □ No Comments: Housed in Met One Mdl 076B-4 Motor Aspirated Radiation Shield.

Are the temperature difference sensors located in identical aspirated shields? ■ Yes □ No Comments: Housed in Met One Mdl 076B-4 Motor Aspirated Radiation Shields.

3.3.3 Wind Speed and Wind Direction Sensors

Is the horizontal distance between the instruments and any obstruction at least 10 times the height of the obstruction?	■ Yes □ No	Comments: None.
Are the instruments at least 1.5 times nearby building height(s) above the building roof(s), or 10-m high?	■ Yes □ No	Comments: None.
Are the wind speed and wind direction sensors stable and plumb?	■ Yes □ No	Comments: None.
Is the distance of the sensor on the cross-arm at least twice the diameter of the tower?	■ Yes □ No	Comments: Climatronics Sensors mounted on a crossarm which meets this criterion.
Is the distance of the sensor on the cross-arm at least twice the diameter of the tower?	■ Yes □ No	Comments: RM Young sensor mounted on an extension arm which meets this criterion.
Is the wind direction sigma theta data being collected according to EPA requirements?	■ Yes □ No	Comments: DAS calculated using Yamartino method and a one-second scan interval.

3.3.4 Relative Humidity and Barometric Pressure

Is the relative humidity sensor open to the atmosphere & protected from precipitation?	■ Yes □ No	Comments: Housed in 2-m aspirated shield with temperature sensor.
Is the barometric pressure sensor open to atmosphere & protected from precipitation?	■ Yes □ No	Comments: Housed in unsealed shelter, mounted on wiring panel.

3.3.5 Solar Radiation

Is the instrument situated above the plane of any obstructions that could cast shadows?	■ Yes □ No	Comments: None.
Is the sensor situated south of the tower to minimize obstruction from the tower?	■ Yes □ No	Comments: None.

4.0 STANDARD OPERATING PROCEDURES

4.1 General

Is the station visited on a preset schedule?	■ Yes □ No	Comments: None.
Have standard SOPs been developed, and are they being followed by the operators?	■ Yes □ No	Comments: None.
Does the operator follow a preventative maintenance schedule?	■ Yes □ No	Comments: None.
Are site visits and maintenance activities properly documented in a Station Log?	■ Yes □ No	Comments: Site visit memos are compiled.
Are station operators knowledgeable and competent regarding effective operation?	■ Yes □ No	Comments: None.
Have operators attended any formal training for operating met monitoring stations?	□ Yes ■ No	Comments: All operators have one to two years onsite experience.

Are copies of the NIST certifications for the calibration equipment made available?	■ Yes □ No	Comments: Attached.

4.2 DAS and Meteorological Sensors

Are regular multipoint QC checks performed on the DAS?	■ Yes □ No	Comments: DAS audited by virtue of the instrument output values.
Are regular multipoint QC checks performed on the meteorological sensors?	■ Yes □ No	Comments: None.
Are the sensors visually inspected for defects and problems?	■ Yes □ No	Comments: None.
Are ambient conditions compared with sensor readings from the DAS?	■ Yes □ No	Comments: DAS output compared to Iliamna Airport weather station.
Are data frequently reviewed for reasonableness and completeness?	■ Yes □ No	Comments: None.
Is a copy of the datalogger program made available for review?	■ Yes □ No	Comments: None.

5.0 DOCUMENTATION

5.1 System Reference and Maintenance Manuals

Does the operator have all required DAS and meteorological instrument manuals?	■ Yes □ No	Comments: On-site and at HCG offices.
Does the operator have configuration and wiring schematics specific to the station?	■ Yes □ No	Comments: Operator carries wiring schematics.

5.2 Station Monitoring Plan and Report Forms

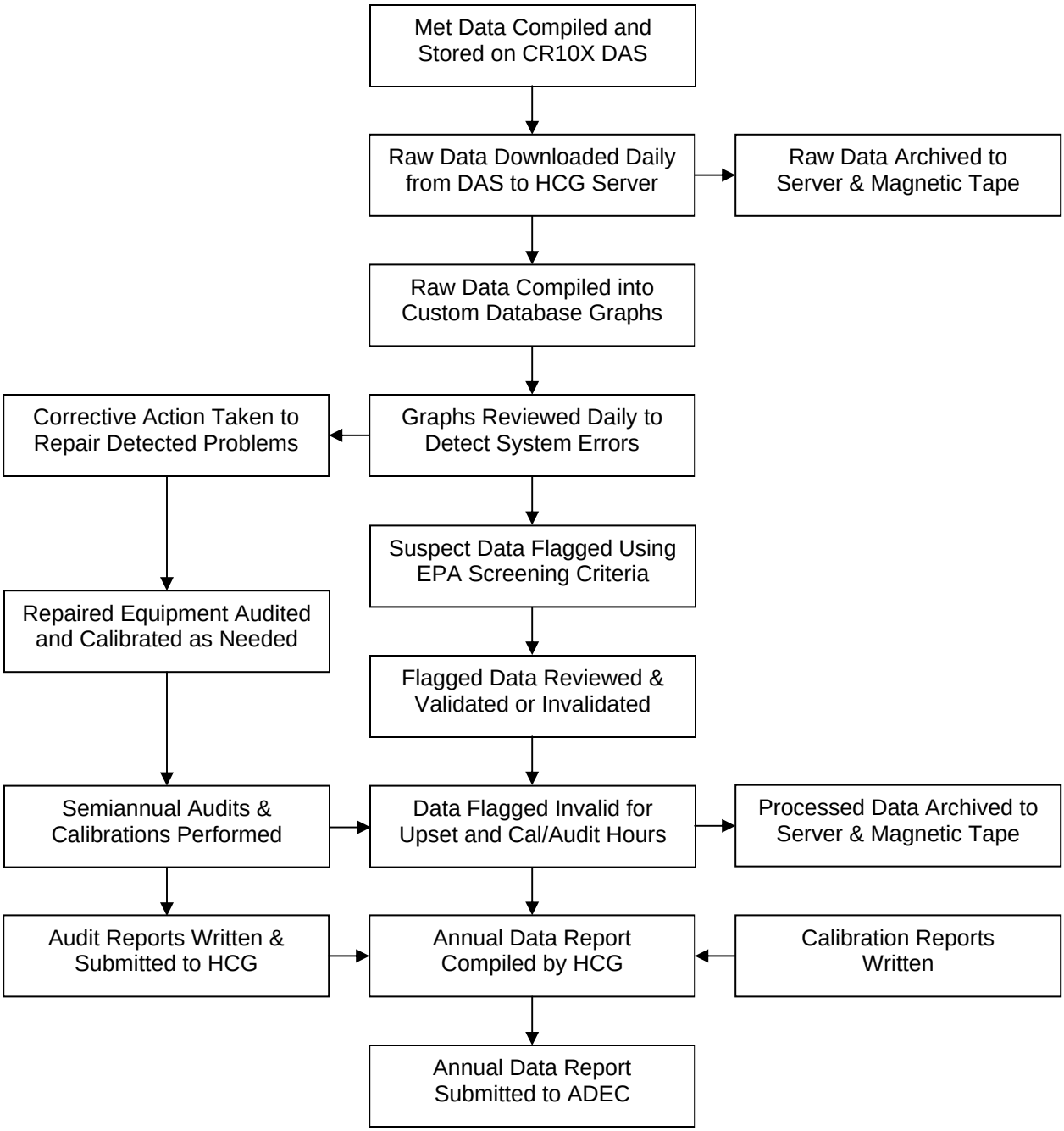
Is the Monitoring/QA plan comprehensive and reflective of the actual installation?	■ Yes □ No	Comments: None.
Does the Monitoring/QA plan indicate the intended use for the data collected during the monitoring program?	■ Yes □ No	Comments: Collect PSD quality data to meet dispersion modeling requirements and satisfy mine/transportation design requirements.
Does the system outlined in the QA plan meet the objectives outlined above?	■ Yes □ No	Comments: PSD quality installation.
Does the QA Plan indicate the intended schedule for reports to be submitted?	■ Yes □ No	Comments: None.
Does the station have an activity log?	□ Yes ■ No	Comments: Site visit memos written after each visit to supplant a log book.
Does the station have a formal Site Visit and Checklist Form?	□ Yes ■ No	Comments: No formal checklist used.
Does the station have an adequate Operations Manual?	■ Yes □ No	Comments: Monitoring/QA plan and equipment manuals.

Does the station have an adequate Calibration Report Form and copies of previous calibrations and audits?	■ Yes □ No	Comments: None.
Are report forms and site logs properly completed and current?	■ Yes □ No	Comments: None.

6.0 DATA PROCESSING and VALIDATAION

6.1 Overall Data Management

- Diagram the flow of data from monitoring equipment to submission of a final report.



6.2 Data Collection and Initial Data Review

Is the station polled and data downloaded on a regular basis?	■ Yes □ No	Comments: Daily via RF modem and telephony modem.
Are the monitoring station data reviewed on a regular basis?	■ Yes □ No	Comments: Data imported into custom graphs and reviewed 5-6 days per week.
Are the monitoring station data screened on a regular basis?	■ Yes □ No	Comments: Data screened using EPA criteria prior to summary compilations.
Are procedures in place for backing up raw data?	■ Yes □ No	Comments: Raw data files are backed up on the HCG server and on magnetic tape.
Are written procedures for data handling available for the project?	■ Yes □ No	Comments: None.

- Describe the data polling process and initial data evaluation.

Data is downloaded from the station on a daily basis using a dedicated data polling computer located at the HCG office. The raw *.dat file is appended to the existing raw station data file located on the HCG server, which is backed up to tape daily. The raw data are copied to an Access/Excel database file which generates custom graphs of the various meteorological and operational parameters. These graphs are reviewed 5-6 days per week in order to identify station problems. This graphical data review is the frontline of maintaining a complete and defensible dataset. Station upsets are instantly identified and repaired within days. Copies of both the raw unadjusted data and the custom database files are retained for a minimum of 5 years.

6.3 Corrective Actions

Are procedures established for initiating corrective actions during data processing?	■ Yes □ No	Comments: Daily graphical data review and subsequent reactions.

- Describe procedures for initiating, tracking and closing corrective actions.

When nonconformance issues are recognized during graphical review, the Lead Operator/Data Manager plans and executes corrective action. A calibration check is performed on any sensor which is repaired or replaced during the action. A site visit memo outlining the nature of the problem and repairs undertaken is written and saved to the station file. Any quantifiable error is also documented for possible data validation. The Operator/Data Manager ensures the erroneous data are flagged for the period from initial noncompliance until repair and calibration.

6.4 Data Validation

Are data validation procedures established and in use?	■ Yes □ No	Comments: None.
Are adjusted and unadjusted data sets maintained?	■ Yes □ No	Comments: Both are backed up on the HCG server and magnetic tape.

- Describe the initial data validation procedure.

Data is compiled in a custom Excel spreadsheet programmed to evaluate meteorological data against EPA recommended PSD data screening criteria. The data are screened for events such as; extended periods of zero wind speed (indicating icing or worn bearings), temperatures outside of the known monthly max/min for the area, etc. Nonconforming data are flagged by the screening program for further investigation. Also, data periods for individual parameters are flagged for times when the corresponding instrument was undergoing field servicing, calibrations or audits. Periods when instruments are known to have been out of calibration or malfunctioning are also flagged.

- Describe procedures for validating and invalidating flagged data (outliers).

Data flagged during the screening process described above are manually reviewed. If the data have a quantifiable, consistent and documented bias, they may be adjusted and then validated. Specific guidelines are detailed in the Plan. Data which have been flagged by the screening program are also compared to local weather conditions as determined from other sources. Examples where data flagged during screening may be validated include periods when winds were known to have been exceptionally calm at nearby stations or extreme temperatures outside the historical max/min were witnessed. At this point, flagged data are permanently validated and left in the database or invalidated and removed from the database. Data removed from the database are replaced with an alphanumeric code to indicate the reason for invalidation.

- Identify those responsible for data validation.

Name: Dominic Shallies
Position: Lead Operator & Data Manager
Affiliation: Hoefler Consulting Group, Inc.

Name: Isaac Bertschi
Position: Data Management
Affiliation: Hoefler Consulting Group, Inc.

6.5 Data Capture

- Identify the desired data capture rate for the monitoring data.

Target rate for PSD Quality Meteorological Monitoring Data is 90%.

Is the desired data capture rate being met for each data type?	■ Yes □ No	Comments: None.

6.6 Data Reporting

Are quarterly and annual data reports being submitted for the site?	■ Yes □ No	Comments: None
Are qualified staff personnel reviewing data reports prior to submittal?	■ Yes □ No	Comments: None.
Is finalized data set submitted with report to ADEC?	■ Yes □ No	Comments: None.

7.0 QUALITY ASSURANCE AND QUALITY CONTROL

7.1 Quality Assurance Program

Has a quality assurance plan been written describing quality assurance procedures?	■ Yes □ No	Comments: None.
Is a copy of the plan available to field and data processing personnel?	■ Yes □ No	Comments: None.
Has the quality assurance plan been approved by the ADEC?	■ Yes □ No	Comments: None.

- Identify those person(s) responsible for updating the plan SOPs.

Name: Steve Mackey
Position: Project Manager
Affiliation: Hoefler Consulting Group, Inc.

7.2 Quality Assurance Methods and Audits

Have adequate audit procedures been identified within the quality assurance plan?	■ Yes □ No	Comments: None.
Does the Plan correctly document PSD accuracy limits for calibrating and auditing?	■ Yes □ No	Comments: None.
Have audits been conducted on the suggested schedule of every six months?	■ Yes □ No	Comments: None.

- Identify the person(s) responsible for conducting audits on the monitoring instrumentation.

Name: Eric Brudie
Position: Field Auditor
Affiliation: Hoefler Consulting Group, Inc.

8.0 COMMENTS AND SUGGESTIONS

- Prepare and compile site specific station checklists and visit forms.

APPENDIX B
PERFORMANCE AUDIT DATA SHEETS and ALIGNMENT MAP

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 21-Aug-06

● *DAS TIME AUDIT*

PSD Limits: DAS time = Alaska Standard Time (AST) +/- 5 minutes.
Conversions: Winter; (AST) = (DST), Summer; (AST) = (DST) - 1 hr.
Comments: None.

DAS TIME vs. NOAA CLOCK			
AST Time	DAS Time	Error Min:Sec	Pass/ Fail?
16:54:30	16:54:37	**00:07**	**PASS**

● *TEMPERATURE SENSORS & ΔT AUDIT*

Lower Height: 2.0 **Meters** **Upper Height:** 10.0 **Meters**

2-M Thermistor: **Make:** Met One **Model:** 062MP **S.N.#:** E3381 # 1/2 **Range:** -50 to 50 **°C**
10-M Thermistor: **Make:** Met One **Model:** 062MP **S.N.#:** E3381 # 2/2 **Range:** -50 to 50 **°C**
Audit Digital Thermometer: **Make:** Van Waters & Rogers **Model:** 61220-601 **S.N.#:** 51091749 **Range:** -40 to 150 **°C**
Audit Probe: **Make:** Van Waters & Rogers **Model:** 61220-604 **S.N.#:** 240301145 **Range:** -40 to 150 **°C**

Begin: 1444
End: 1505

COLLOCATED THERMISTOR TEST										
Thermal Input			Station Response (2M)			Station Response (10M)			Station (Delta T)	
Temp Range	Target °C	Input °C	DAS °C	Error °C	Pass/ Fail?	DAS °C	Error °C	Pass/ Fail?	Delta T °C	Pass/ Fail?
Very Cold	-35 to -45	-36.44	-36.25	0.19	Pass	-36.25	0.19	Pass	0.00	Pass
Cold	-15 to -25	-16.37	-16.16	0.21	Pass	-16.16	0.21	Pass	0.00	Pass
Ice Bath	0	-0.12	0.03	0.15	Pass	0.03	0.15	Pass	0.00	Pass
Warm	15 to 25	20.49	20.60	0.11	Pass	20.60	0.11	Pass	0.00	Pass
Hot	35 to 45	38.79	38.89	0.10	Pass	38.89	0.10	Pass	0.00	Pass
		Max Abs. Error		0.21	**PASS**		0.21	**PASS**	0.00	**PASS**

PSD Limits: Max Absolute Error > 0.5 °C (Sensor Accuracy); Max Absolute Error > 0.1 °C (Delta Temperature).
Comments: None.

● *RELATIVE HUMIDITY SENSOR AUDIT*

Height: 2.0 **Meters**

RH Sensor: **Make:** Vaisala **Model:** HMP45AC **S.N.#:** A2120081 **Range:** 0.8 to 100 **% RH**
Audit Equipment: **Make:** Vaisala **Model:** HMI 41 **S.N.#:** X0650080 **Range:** 0 to 100 **% RH**
Audit Equipment: **Probe#** HMI41 X07450015

COLLOCATED STANDARD TEST								
Reading Time	Input %RH	Input AT (°C)	Input DP (°C)	DAS %RH	DAS AT (°C)	DAS DP (°C)	Error DP (°C)	Pass/ Fail?
1049	55.0	14.2	5.3	58.1	14.1	6.0	0.7	Pass
1139	52.1	14.8	5.1	54.7	14.6	5.6	0.5	Pass
					Max Abs. Error		0.7	**PASS**

PSD Limits: Max Absolute Error > 1.5°C Dew Point.
Conversions: Td=DP(°C), Ta=AT(°C), RH=Fraction: $Td=b*ע/(a-ע)$, where $ע=a*Ta/(b + Ta) + \ln(RH)$, and $a = 17.27$, $b=237.7$°C.
Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 21-Aug-06

● *BAROMETRIC PRESSURE SENSOR AUDIT*

Height: N/A **Meters**

Pressure Sensor: **Make:** Vaisala **Model:** PTB101B **S.N.#:** A1950006 **Range:** 600-1060 **hPa**
Audit Equipment: **Make:** PRETEL **Model:** AltiPlus A2 **S.N.#:** 27806 **Range:** 470-1040 **hPa**

COLLOCATED STANDARD TEST						
Reading Time	Raw Input in Hg	Adj Input in Hg	Adj Input mb	DAS mb	Error mb	Pass/ Fail?
1530	29.91	29.80	1009.0	1010.0	1.0	Pass
			Max Abs. Error		1.0	**PASS**

Audit Inst Cal Data	
Cal. Date: 05/24/06	
Audit Inst	Offset Amount
24.13	-0.13
26.24	-0.13
28.12	-0.12
30.11	-0.11
Intercept	**-0.22**
Slope	**0.0035**

PSD Limits: Max Absolute Error > 3mb (0.3kPa).
Comments: None.

● *HORIZONTAL WIND SPEED SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Spd Sensor: **Make:** Climatronics **Model:** 100075 **S.N.#:** 5008 **Cup #:** 2285 **Range:** 0-60 **m/s**
Audit Equipment: **Low Spd:** RM Young **Model:** 18811 **S.N.#:** CA02136 **Torque:** Watters Mdl 366-3 **S.N.#:** 4864
Audit Equipment: **High Spd:** RM Young **Model:** 18801 **S.N.#:** CA06174

Begin: 1351
End: 1354

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.0049	<<0.003	**PASS**
New	0.0049	N/A	N/A

SYNCHRONOUS MOTOR TEST					
Input rpm	Input m/s	DAS m/s	Error m/s	Error % Input	Pass/ Fail?
0	0.22	0.22	0.00	N/A	Pass
100	2.57	2.57	0.00	N/A	Pass
200	4.92	4.92	0.00	N/A	Pass
400	9.62	9.62	N/A	0.0	Pass
1000	23.72	23.72	N/A	0.0	Pass
2000	47.22	47.21	N/A	0.0	Pass
	Max Abs. Error		**0.00**	**0.0**	**PASS**

PSD Limits: Threshold Torque >0.35gm-cm (0.0049oz-in) @ 0.50m/s. Max Absolute Error > 0.20m/s @ WS<=5m/s or > 5% of input @ WS>5m/s.
Conversions: Heavy Duty Al Cups: m/s = rpm÷42.55+0.22. gm-cm=72*oz-in.
Comments: None.

● *HORIZONTAL WIND SPEED SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Spd Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Prop #:** 63037 **Range:** 0-50 **m/s**
Audit Equipment: **Low Spd:** RM Young **Model:** 18811 **S.N.#:** CA02136 **Torque:** Watters Mdl 366-3 **S.N.#:** 4864
Audit Equipment: **High Spd:** RM Young **Model:** 18801 **S.N.#:** CA06174

Begin: 1150
End: 1155

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.014	0.008	**PASS**
New	0.014	N/A	N/A

SYNCHRONOUS MOTOR TEST					
Input rpm	Input m/s	DAS m/s	Error m/s	Error % Input	Pass/ Fail?
0	0.00	0.00	0.00	N/A	Pass
400	2.05	2.05	0.00	N/A	Pass
1000	5.12	5.12	N/A	0.0	Pass
2000	10.24	10.24	N/A	0.0	Pass
5000	25.60	25.60	N/A	0.0	Pass
10000	51.20	51.20	N/A	0.0	Pass
	Max Abs. Error		**0.00**	**0.0**	**PASS**

PSD Limits: Threshold Torque >1.0gm-cm (0.014oz-in) @ 0.50m/s. Max Absolute Error > 0.20m/s @ WS<=5m/s or > 5% of input @ WS>5m/s.
Conversions: Model 08254 Prop: m/s = 0.00512*rpm. gm-cm=72*oz-in.
Comments: Could not replace speed bearings because allen set screw on nose cone speed magnet worn.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 21-Aug-06

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - CLIMATRONICS*

Height: 11.0 **Meters**

Wind Dir Sensor: **Make:** Climatronics **Model:** 100076 **S.N.#:** 4690 **Vane #:** 1425 **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** Climatronics **Model:** 101984 **S.N.#:** 145 **Torque:** Honeywell Mdl 366-0 **S.N.#:** 5042
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.3 **E of N**

TORQUE TEST			
Bearings Replaced?	Limit oz-in	Torque oz-in	Pass/ Fail?
In-Situ	0.104	0.100	**PASS**
New	0.104	0.070	**PASS**

IN SITU AZIMUTH ALIGNMENT TEST				
Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	262.9	-0.3	Pass
Mt Augustine - Peak	356.1	355.5	-0.6	Pass
Mt Eleanor	202.6	202.0	-0.6	Pass
Compass	145.5	145.1	-0.4	Pass
		Max Abs. Error	**0.6**	**PASS**
		Mean Abs. Error	**0.5**	**GOOD**

Time: Begin: 1100 End: 1125

CROSSARM-VANE ACCUR. & LIN. TEST				
Input Dir	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
South	180.0	178.9	-1.1	Pass
West	270.0	269.9	-0.1	Pass
North	360.0	0.1	0.1	Pass
East	90.0	90.2	0.2	Pass
North	360.0	0.1	0.1	Pass
West	270.0	270.1	0.1	Pass
South	180.0	178.9	-1.1	Pass
East	90.0	89.7	-0.3	Pass
	Max Abs. Error		**1.1**	**PASS**
	Mean Abs. Error		**0.4**	**PASS**

Time: Begin: 1320 End: 1324

BENCH STAND ACCURACY & LINEARITY TEST							
Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	29.9	-0.1	Pass	330.0	330.5	0.5	Pass
60.0	58.7	-1.3	Pass	355.0	354.9	-0.1	Pass
90.0	89.5	-0.5	Pass	30.0	29.5	-0.5	Pass
120.0	119.9	-0.1	Pass	60.0	58.9	-1.1	Pass
150.0	149.2	-0.8	Pass	90.0	89.7	-0.3	Pass
180.0	179.0	-1.0	Pass	120.0	119.9	-0.1	Pass
210.0	209.7	-0.3	Pass	150.0	149.0	-1.0	Pass
240.0	240.0	0.0	Pass	180.0	179.2	-0.8	Pass
270.0	270.1	0.1	Pass	**Max Abs. Error**		**1.3**	**PASS**
300.0	299.7	-0.3	Pass	**Mean Abs. Error**		**0.5**	**PASS**

Time: Begin: 1328 End: 1331

POST-AUDIT AZIMUTH ALIGNMENT TEST				
Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	261.6	-1.6	Pass
Mt Augustine - Peak	356.1	354.3	-1.8	Pass
Mt Augustine - East shore	347.1	345.4	-1.7	Pass
Mt Eleanor	202.6	199.8	-2.8	Pass
Compass	129.5	126.8	-2.7	Pass
		Max Abs. Error	**2.8**	**PASS**
		Mean Abs. Error	**2.1**	**GOOD**

Time: Begin: 1530 End: 1555

PSD Limits: Threshold Torque >7.5 gm-cm (.104 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 21-Aug-06

● *HORIZONTAL WIND DIRECTION SENSOR AUDIT - RM YOUNG*

Height: 10.5 **Meters**

Wind Dir Sensor: **Make:** RM Young **Model:** 05305 AQ **S.N.#:** 67055 **Vane #:** N/A **Range:** 0-360 **Deg**
Audit Equipment: **Linearity:** RMY Mdl 18112 Bench Stand **S.N.#:** None **Torque:** RMY Mdl 18331 Torque Gauge **S.N.#:** None
Compass: Brunton **Model:** 11-F5008 **S.N.#:** 5080799319 **Magnetic Declin:** 18.3 **E of N**

TORQUE TEST

Bearings Replaced?	Limit gm-cm	Torque gm-cm	Pass/ Fail?
In-Situ	11.0	9.0	**PASS**
New	11.0	6.0	**PASS**

IN SITU AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	261.6	-1.6	Pass
Mt Augustine - Peak	356.1	353.8	-2.3	Pass
Mt Eleanor	202.6	202.6	0.0	Pass
Compass	145.5	148.0	2.5	Pass
		Max Abs. Error	**2.5**	**PASS**
Time: Begin: 1100 End: 1125		**Mean Abs. Error**	**1.6**	**GOOD**

BENCH STAND ACCURACY & LINEARITY TEST

Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
30.0	28.9	-1.1	Pass	150.0	148.3	-1.7	Pass	270.0	265.5	-4.5	Pass
60.0	59.0	-1.0	Pass	180.0	177.5	-2.5	Pass	300.0	295.7	-4.3	Pass
90.0	89.3	-0.7	Pass	210.0	207.1	-2.9	Pass	330.0	326.3	-3.7	Pass
120.0	118.9	-1.1	Pass	240.0	236.1	-3.9	Pass	355.0	351.7	-3.3	Pass
								Max Abs. Error		**4.5**	**PASS**
			Time:	Begin: 1140		End: 1144		**Mean Abs. Error**		**2.6**	**PASS**

POST-AUDIT AZIMUTH ALIGNMENT TEST

Description	Input Deg	DAS Deg	Error Deg	Pass/ Fail?
Repeater	263.2	263.2	0.0	Pass
Mt Augustine - East shore	347.1	348.5	1.4	Pass
Mt Eleanor	202.6	203.4	0.8	Pass
Compass	129.5	132.3	2.8	Pass
		Max Abs. Error	**2.8**	**PASS**
Time: Begin: 1530 End: 1555		**Mean Abs. Error**	**1.3**	**GOOD**

PSD Limits: Threshold Torque >11.0 gm-cm (0.153 oz-in) @ 0.5 m/s. Max Absolute Error >5° from True Azimuth (alignment). Max Absolute Error >5° (accuracy). Mean Absolute Error >3° (linearity). Azimuth Mean Absolute Error calculated for information only.

Comments: None.

METEOROLOGICAL STATION - INSTRUMENT PERFORMANCE AUDIT (11-M)

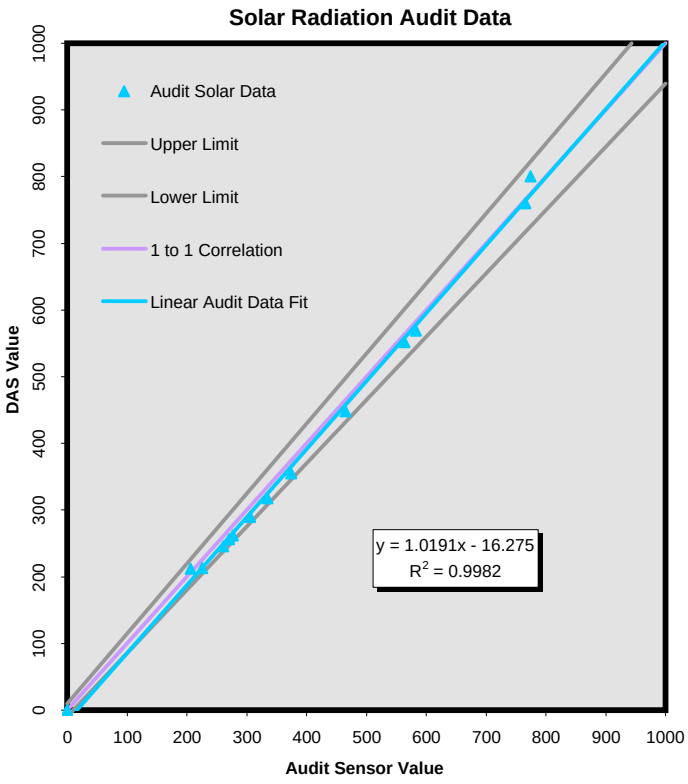
Owner: Northern Dynasty **Operator:** Dominic Shallies **Alternate:** Steve Mackey **Station Site:** Port
Auditor: Eric Brudie **Witness(s):** Dominic Shallies **Audit Date:** 21-Aug-06

• *SOLAR RADIATION SENSOR AUDIT*

Height: 4.0 **Meters**

Station Sensor: **Make:** Li-Cor **Model:** Li-200SX **S.N.#:** PY50763 **Range:** 0-3000 **W/m²**
Audit Sensor: **Make:** Eppley **Model:** PSP **S.N.#:** 34377F3 **Range:** 0-2800 **W/m²**

SOLAR RADIATION SENSOR TEST						
Data Hr AST	Audit W/m²	DAS W/m²	Error W/m²	Allow Err W/m²	Error % Input	Pass/ Fail?
Instantaneous Readings						
1047	276.7	262.3	-14.4	±23.8	-5.2%	Pass
1050	260.6	245.4	-15.2	±23.0	-5.8%	Pass
1310	774.0	800.6	26.6	±48.7	3.4%	Pass
1318	766.0	760.4	-5.6	±48.3	-0.7%	Pass
1402	1025.0	1030.4	5.4	±61.3	0.5%	Pass
1410	374.0	354.7	-19.3	±28.7	-5.2%	Pass
1518	225.4	212.9	-12.5	±21.3	-5.5%	Pass
1623	0.0	0.0	0.0	±10.0	n/a	Pass
1648	306.3	289.9	-16.4	±25.3	-5.4%	Pass
Hourly Averages						
1200	334.8	317.3	-17.5	±26.7	-5.2%	Pass
1300	465.6	447.9	-17.7	±33.3	-3.8%	Pass
1400	583.3	569.3	-14.0	±39.2	-2.4%	Pass
1500	563.3	552.2	-11.1	±38.2	-2.0%	Pass
1600	271.1	256.3	-14.8	±23.6	-5.5%	Pass
1700	206.4	211.9	5.5	±20.3	2.7%	Pass
Corr. Val	**0.9991**	**Max Abs. Percent Error**			**5.8%**	**PASS**
R² Value	**0.9982**	**Intercept**	**-16.3**	**Slope**	**1.0191**	**PASS**



Begin Date: 08/21/06 **End Date:** 08/21/06

PSD Limits: Max Absolute Error <5% of Observed + Resolution(10W/m²). Linear regression slope in range 1.0±5% (0.95 to 1.05) when R² > 0.995.
Comments: Instantaneous data point at 1623 taken with sensors covered.

TOPO! map printed on 08/26/06 from "Pebble_Port_(08-17-06).tpo"

APPENDIX C
AUDIT EQUIPMENT CALIBRATION CERTIFICATES

Certificate 1750.01

Calibration complies with ISO/IEC 17025 AND ANSI/NCSL Z540-1

Cert. No.: 4000-1338226

Traceable® Certificate of Calibration for Digital Thermometer

Instrument Identification:

Hoefler Consulting Group, 3401 Minnesota Dr, Suite300, Attn: Dominic Shallies, Anchorage, AK 99503 U.S.A. (RMA:933478)

Model: 61220-601 S/N: 51091749 Manufacturer : Control Company

Model: 61220-604 S/N: 240301145

Standards/Equipment:

Description	Serial Number	Due Date	NIST Traceable Reference
Temperature Probe	128	12/08/06	A5B28010-1
Thermistor Module	A17118	8/12/06	A5819038
Temperature Calibration Bath TC179	A45240		
Temperature Calibration Bath TC191	A42238		
Temperature Probe	157	9/01/06	A5815063
Thermistor Module	A27129	7/05/06	1000189003

Certificate Information:

Technician: 68 Procedure: CAL-06 Cal Date: 6/07/06 **Cal Due: 6/07/07**

Test Conditions: 25.5°C 39.0 %RH 1013 mBar

Calibration Data:

Unit(s)	Nominal	As Found	In Tol	Nominal	As Left	In Tol	Min	Max	±uc	TUR
°C	0.000	0.072	N	0.000	-0.004	Y	-0.050	0.050	0.013	3.8:1
°C	25.000	25.020	Y	25.000	24.999	Y	24.950	25.050	0.013	3.8:1
°C	60.002	59.999	Y	60.001	59.999	Y	59.951	60.051	0.013	3.8:1
°C	100.002	100.001	Y	100.002	100.004	Y	99.952	100.052	0.013	3.8:1

This Instrument was calibrated using Instruments Traceable to National Institute of Standards and Technology.

A Test Uncertainty Ratio of at least 4:1 is maintained unless otherwise stated and is calculated using the expanded measurement uncertainty. Uncertainty evaluation includes the instrument under test and is calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM). The uncertainty represents an expanded uncertainty using a coverage factor k=2 to approximate a 95% confidence level. In tolerance conditions are based on test results falling within specified limits with no reduction by the uncertainty of the measurement. The results contained herein relate only to the item calibrated. This certificate shall not be reproduced except in full, without written approval of Control Company.

Nominal=Standard's Reading; As Left=Instrument's Reading; In Tol=In Tolerance; Min/Max=Acceptance Range; ±uc=Measurement Uncertainty; TUR=Test Uncertainty Ratio; Accuracy=±(Max-Min)/2

Wallace Berry

Wallace Berry, Technical Manager

Maintaining Accuracy:

In our opinion once calibrated your Digital Thermometer should maintain its accuracy. There is no exact way to determine how long calibration will be maintained. Digital Thermometers change little, if any at all, but can be affected by aging, temperature, shock, and contamination.

Recalibration:

For factory calibration and re-certification traceable to National Institute of Standards and Technology contact Control Company.

CONTROL COMPANY 4455 Rex Road Friendswood, TX 77546 USA
Phone 281 482-1714 Fax 281 482-9448 service@control3.com www.control3.com

VAISALA

Certificate of Calibration

Report #: 101705-X0740015-RH **RMA #:** 95-49728 **Calibration Date:** Oct-17-2005
Model #: HMI41/HMP45 **Serial #:** X0650080 / X0740015
Instrument Type: Humidity Transmitter Calibration Procedure: 11603100
Instrument Range: 0 to 100%RH Recommended Calibration Due Date: Oct-17-2006

Customer: HOEFLER CONSULTING GROUP
City, State: ANCHORAGE, AK

This unit was calibrated by adjusting its reading at 0%* against a dry-air line and at 75% against reference humidity and temperature instrument, Vaisala model HMP233. Additional instrument verification checkpoints were made against HMP233 reference at 11%RH, 33%RH and 97%* RH. Calibration and instrument verification sequences utilize a dry-air line and a set of controlled aqueous salt solutions Vaisala model HMK13B. Laboratory ambient conditions are humidity and temperature controlled. The calibration uncertainty is presented at 95% confidence level, k=2. The standard uncertainty of the measurement has been determined in accordance with U.S. Guide to the Expression of Uncertainty in Measurement. *Note: the 0% and 97% RH points are not ISO17025 Accredited.

Calibration Data (As Found)				
Out of Tolerance: NO				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.35	21.50	0.15	0.20	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
11.13	11.40	0.27	2.00	0.92
32.70	33.10	0.40	2.00	1.01
75.44	75.00	-0.44	2.00	1.02
97.60	97.50	-0.10	3.00	N/A *

Calibration Data (As Left)				
Temperature Calibration, °C				
Reference	Unit Under Test	Error	± Tolerance, °C	± Uncertainty, °C
21.35	21.50	0.15	0.20	0.07
Humidity Calibration, %RH				
Reference	Unit Under Test	Error	± Tolerance, %	± Uncertainty %
11.13	11.40	0.27	2.00	0.92
32.70	33.10	0.40	2.00	1.01
75.44	75.00	-0.44	2.00	1.02
97.60	97.50	-0.10	3.00	N/A *

Problem Noted: None
Action Taken: No Adjustment Was Necessary

The results of this calibration are related only to the items being calibrated, and, are traceable to the National Institute of Standards and Technology through NIST Test Report Number 270953-05, dated Oct. 29, 2004. Vaisala's calibration system has been established to meet the requirements of ANSI/NCSL Z540-1-1994. This certificate can not be reproduced, except in full, without the expressed written consent of Vaisala. The certificate was established to comply with the requirements of ISO/IEC17025. Vaisala is ISO 9001:2000 certified.

Calibration Equipment Used: Workstation 1B			
Model Number	Serial Number	Calibration Date	Due Date
Power Supply	TW14949	Nov. 24, 2004	Nov. 24, 2006
Fluke 45	7405014	Aug. 16, 2005	Aug. 16, 2006
HMK13B	500004	Sep. 2, 2005	Mar. 5, 2006
HMP233	V4210040	Jul. 21, 2005	Oct. 21, 2005

Ambient Conditions	
Temperature:	21.50 °C
Humidity:	50.00 %RH

Approved By

Technical Operator
Jari Siltavuo

Vaisala Inc., Boston Office
10-D Gill Street, Woburn, MA 01801, USA
Telephone 781 933 4500 • Fax 781 933 8029
www.vaisala.com

Certificate of Accuracy

Transfer Standard Type: Barometric Pressure/Altimeter

Certificate No: B 052406. 03

Transfer standard model: Pretel AltiPlus A2
Serial number: 27806
submitted by/owner: Hoefler Consulting Group
3401 Minnesota Drive
Suite 300
Anchorage, AK 99503

Was compared to Precision Absolute Reference Barometer:
Model number: 355-AI0900 Serial number: 913930-M1
Certified accuracy of ± 0.007"Hg
NIST traceable to Ruska Deadweight Tester SN 38342/C-85

Date: 05/24/06 Lab temperature 72.8 °F
Lab pressure 663.1 mm Hg

Reference barometer ("Hg)	Transfer Standard ("Hg)	Difference from Reference ("Hg)	Transfer Standard Correction* ("Hg)
24.00	24.13	0.13	-0.13
26.11	26.24	0.13	-0.13
28.00	28.12	0.12	-0.12
30.00	30.11	0.11	-0.11

Note:
If no sign is given on the correction, the true pressure is higher than the indicated pressure. If the sign is negative, the true pressure is lower than the indicated pressure.

Transfer Standard adjustments made? YES ☐ **NO** ☒
Post-calibration measurements:

Reference barometer ("Hg)	Transfer Standard ("Hg)	Difference from Reference ("Hg)	Transfer Standard Correction* ("Hg)

Reviewed: R Sanders Date: 5-24-06

Roger L. Sanders, PE

Chinook Engineering
a division of Inter-Mountain Laboratories, Inc.
555 Absaraka Street
Sheridan, Wyoming 82801 USA
(307) 672-7790
chinook@imlinc.com

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18811	Serial Number:	CA02136
Description:	Anemometer Drive - 20 to 990 RPM - Comprised of Models 18820A Control Unit & 18831A Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	27106D Output Frequency Hz (1)	Calculated Rpm (2)	Indicated Rpm (3)
30.0	5	30.0	30.0
150.0	25	150.0	150.0
300.0	50	300.0	300.0
450.0	75	450.0	450.0
600.0	100	600.0	600.0
750.0	125	750.0	750.0
990.0	165	990.0	990.0
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured frequency output of RM Young Model 27106D standard anemometer attached to motor shaft
(2) 27106D produces 10 pulses per revolution of anemometer shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 24 May 2006

Tested By EJC

R.M. Young Company
2801 Aero Park Drive
Traverse City, Michigan 49686 USA

Certificate of Calibration and Testing

Test Unit:			
Model:	18801	Serial Number:	CA01674
Description:	Anemometer Drive - 10 to 10,000 RPM - Comprised of Models 18820 Control Unit & 18830 Motor Assembly		

R.M. Young Company certifies that the above equipment has been inspected and calibrated using standards whose accuracies are traceable to the National Institute of Standards and Technologies (NIST).

Nominal Motor Rpm	Output Frequency (1) Hz	Calculated Rpm (2)	Indicated Rpm (3)
600	320	600	600
1200	640	1200	1200
2400	1280	2400	2400
4200	2240	4200	4200
6000	3200	6000	6000
8100	4320	8100	8100
9900	5280	9900	9900
☑ Clockwise and Counterclockwise rotation verified			

(1) Measured at the optical encoder output
(2) Frequency output produces 32 pulses per revolution of the motor shaft
(3) Indicated on the Control Unit LCD display

*Indicates out of tolerance

☑ No Calibration Adjustments Required ☐ As Found ☐ As Left

Traceable frequency meter used in calibration DP4863

Date of inspection 17 November 2005

Tested By EC

Tel: 231-946-3980 Fax: 231-946-4772 Email: met.sales@youngusa.com Website: www.youngusa.com

Alaska Calibration, Inc.

Troubleshooting, Repair and Calibration of
Test & Measurement Equipment

CERTIFICATE OF CALIBRATION

WORK ORDER NO. 8884 **TRACEABILITY CERTIFICATE NO.** 05090203

ISSUED TO: Hoefler Consulting Group

INSTRUMENT: 366-3, .003-.03 Inch Ounces Torque Watch, Waters Manufacturing, Inc, S/N 4864

DATE DONE: September 02, 2005 **DATE DUE:** September 01, 2006

CERTIFIED BY METROLOGIST: E.P. Young E.P. Young **TEMPERATURE:** 72 °F **HUMIDITY:** 43% RH

INCOMING STATUS: This instrument was in (XX) was out of ( ) tolerance when received.

PROCEDURE/LIMITATIONS/ACCURACY STATEMENT: T.O. 33k6-4-2630-1. Accuracy: +/- 10 % of Full Scale.

COMPLIANCE

Alaska Calibration, Inc.'s calibration practices and procedures comply with the requirements of ANSI/SO/Z540-1 and ANS/ ISO/IEC17025: 2000 and relevant requirements of ISO 9002: 1994. The standards used are certified as being traceable to the National Institute of Standards and Technology (NIST), by comparison to SI units through laboratory standards in an unbroken chain of calibrations through appropriate primary and national measurement standards, derived from an acceptable value of a natural physical constant, or derived by the ratio type of self calibration techniques. This Certificate shall not be reproduced, except in full, without the written approval of Alaska Calibration, Inc.

4706 Harding Drive, Suite A, Anchorage, Alaska 99517-3119 (907) 677-1993

Houston Precision, Inc.

8729 Gulf Freeway
Houston, TX 77017-6504

Calibration Report

Company:	Hoefler Consulting Group	**Doc #:**	33479
Address:	3401 Minnesota Drive Suite 300 Anchorage, AK 99503	**Date:**	12/20/2005
		PO#:	Verbal
Contact:	Chris Lindsey	**Page:**	1
Dept:			
Gage:	.06-.60 oz Torque Watch	**Control:**	5042
Mfg:	Honeywell	**Model:**	.06-.60 oz Torque Watch
Location:		**Serial #:**	5042

Parameters:

Parameter:

Text:

Comments:

Calibration Completed by: Cal-Tech Calibration, INC
Original Certificate (attached) # 1768

Reference HPI S/O # 13385

We certify the equipment used for this calibration is traceable to NIST through one or more of the following numbers.
:

Last / Next Cal Dates: -->

Gage Status: PASS

Next Calibration Due: 12/20/2006

Certified By: Jorge Ashook Signature: Jorge A. Ashook

This certificate is not valid unless all 1 page(s) are present.
*Laboratory Environmental Conditions: Temperature: 21C +/- 2C, Relative Humidity: between 40% and 60%.
*Calibration measurements are performed in accordance with guidelines set forth in ANSI/NCSL Z540-1-1994, ISO10012-1, and Houston Precision's Quality manual.
*If additional information regarding this calibration is required, please contact this laboratory.
*All calibrations have been performed under the supervision and authority of Gary Deterling Lab Manager.

End of document.

Certificate of Calibration

The instrument listed below meets or exceeds published specifications and has been calibrated under controlled conditions and is traceable to the National Institute of Standards and Technology(N.I.S.T.), or to accepted intrinsic standards of measurement, or by the ratio type of self-calibration techniques. Cal-Tech Calibration conforms to the following, ANSI/NCSL Z540-1-1994, ISO/IEC 25/17025.

Customer: Houston Precision
Certificate Number: 1768
Instrument Make: Honeywell
Model: .06-.60" oz Torque Watch
S/N: None
ID: 5042

Date: 12-20-05
Temp: 74 Deg f
Humidity: 40%
Rec. In Tol.
Due Date: 12-20-06

Certification by: _____

Accuracy: +\- 5% of full scale.

Comments:

Standards Used	Model	Certification Number	Due Date
Troemner	1g-100g	822/265036-01	3-22-06

Inch Oz. Range	As Found	After Adjust	Final Reading
.06	.05	none	.05
.18	.17	none	.17
.36	.35	none	.35
.48	.47	none	.47
.60	.59	none	.59

Cal-Tech Calibration, Inc.
1314 FM 646 West /Ste. 15 / Dickinson, Texas 77539 /Phone 281-614-0050 / Fax 281-614-0046

THE BRUNTON COMPANY
Certificate Of Calibration

Equipment Owner:
Name: Hoefler Consulting Group

Address: 3401 Minnesota Drive Ste. 300

City, State, Zip: Anchorage, Ak 99503

Calibration traceable to the National Institute of Standards and Technology in accordance with Mil-STD-45662A has been accomplished on the instrument listed below by comparison with standards maintained by The Brunton Co. The accuracy and stability of all standards maintained by The Brunton Co. are traceable to national standards maintained by the National Institute of Standards and Technology in Washington, D.C. and Boulder, CO. Complete record of all work performed is maintained by The Brunton Co. and is available for inspection upon request.

This Unit has been calibrated to Lietz TM10E serial number 30937 traceable to N.B.S. no. 738 227675 this 12th Day of July 20 05

DESCRIPTION: Pocket Transit

PURCHASE ORDER: S. MacKay

ORDER NUMBER: 176322

LOT NUMBER: 19680

MODEL NUMBER: 11-F5008

SERIAL NUMBER: 5080799319

CALIBRATION DATE: 7/12/05

RECALIBRATION DUE DATE: 7/12/06

Signed: Raelene White
QUALITY CONTROL MANAGER

THE EPPLEY LABORATORY, INC.
12 Sheffield Ave., P.O. Box 419, Newport, RI 02840 USA
Telephone: 401-847-1020 Fax: 401-847-1031
Email: info@eppleylab.com Internet: www.eppleylab.com

EPLAB
Scientific Instruments
for Precision Measurements
Since 1917

STANDARDIZATION OF EPPLEY PRECISION SPECTRAL PYRANOMETER Model PSP

Serial Number: 34377F3

Resistance: 603 Ω at 23 °C
Temperature Compensation Range: -20 to 40 °C

This radiometer has been compared with Standard Precision Spectral Pyranometer, Serial Number 21231F3 in Eppley's Integrating Hemisphere under radiation intensities of approximately 700 watts meter^{-2} (roughly one-half a solar constant). The adopted calibration temperature is 25 °C.

As a result of a series of comparisons, it has been found to have a sensitivity of:

$$9.33 \times 10^{-6} \text{ volts/watts meter}^{-2}$$

The calculation of this constant is based on the fact that the relationship between radiation intensity and emf is rectilinear to intensities of 1400 watts meter^{-2}. This radiometer is linear to within ± 0.5% up to this intensity.

The calibration of this instrument is traceable to standard self-calibrating cavity pyrheliometers in terms of the Systems Internationale des Unites (SI units), which participated in the Ninth International Pyrheliometric Comparisons (IPC IX) at Davos, Switzerland in September-October 2000.

Useful conversion facts: 1 cal cm^{-2} min^{-1} = 697.3 watts meter^{-2}
1 BTU/ft^2-hr^{-1} = 3.153 watts meter^{-2}.

Shipped to:
Hoefler Consulting Group
Anchorage, AK

Date of Test: October 20, 2005

In Charge of Test: R. T. Eppman

S.O. Number: 60557
Date: January 11, 2006

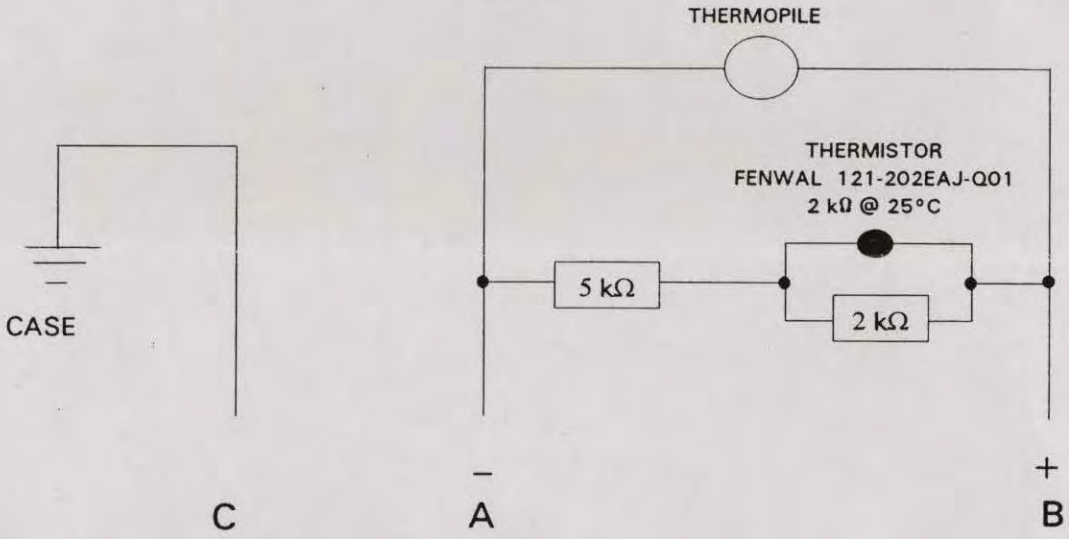
Reviewed by: George L. Kub

Remarks:

PRECISION SPECTRAL PYRANOMETER
MODEL PSP

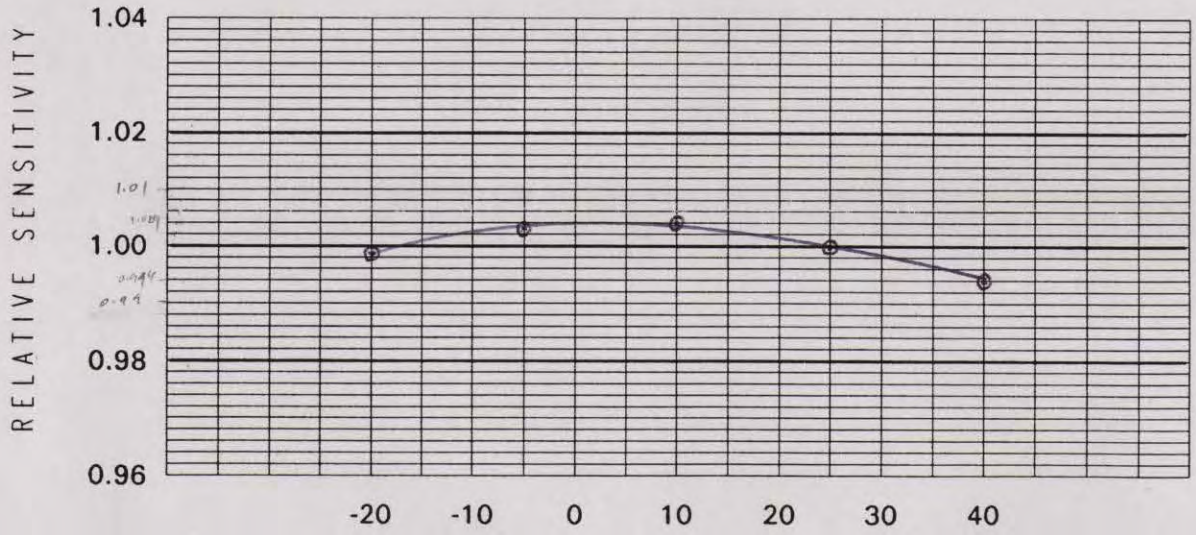
INSTRUMENT SERIAL NUMBER: 34377F3

INTERNAL WIRING



PIN CONNECTIONS ON PLUG

TEMPERATURE DEPENDENCE



EPLAB

TESTED BY: R. Esperman

DATE: Oct 18, 2005

Appendix D

Validated Continuous Data Summaries

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1																											
2																											
3																											
4																	14.7	14.9	14.8	14.5	13.7	13.7	15.9	16.5	16.5	13.7	14.8
5	16.3	16.3	16.1	15.9	15.7	15.7	16.0	16.2	16.5	17.5	18.0	18.6	19.4	19.6	19.4	19.0	19.3	18.5	17.7	17.5	17.4	17.0	17.2	17.3	19.6	15.7	17.4
6	17.0	16.8	16.5	16.3	16.1	16.0	16.1	16.6	16.9	17.5	18.4	18.2	18.3	18.7	17.9	18.0	17.2	16.2	14.7	13.9	13.6	15.2	17.3	17.0	18.7	13.6	16.7
7	16.7	15.5	14.4	14.1	14.1	14.2	16.5	16.6	17.0	17.5	17.9	18.6	19.3	19.6	20.1	19.7	19.5	19.4	18.7	18.6	18.2	17.1	15.8	15.1	20.1	14.1	17.3
8	14.7	14.0	13.6	13.3	12.9	12.9	14.0	15.3	16.2	15.5	15.2	15.4	15.9	16.6	16.8	17.3	17.6	17.2	16.0	15.2	13.7	13.0	13.0	12.9	17.6	12.9	14.9
9	12.6	12.1	11.5	11.5	11.6	11.8	12.9	14.3	14.4	13.7	14.6	15.0	15.2	15.4	16.2	16.1	15.7	15.1	14.2	14.0	13.6	12.6	12.2	12.1	16.2	11.5	13.7
10	11.8	12.4	12.3	11.0	10.8	10.8	12.4	13.8	14.2	13.8	14.3	15.0	14.6	14.8	15.2	15.4	15.1	13.9	12.9	12.3	11.4	10.3	10.5	10.9	15.4	10.3	12.9
11	11.0	10.7	10.9	10.3	10.6	11.1	12.0	11.8	11.8	12.2	13.6	14.1	14.6	16.2	16.8	17.1	17.5	17.6	16.1	15.2	14.4	14.8	15.2	14.2	17.6	10.3	13.7
12	14.3	13.5	13.2	12.8	12.9	12.8	14.3	15.7	15.7	15.9	16.5	16.4	16.9	17.2	17.7	18.4	18.3	18.6	16.9	16.2	15.0	14.1	13.5	12.8	18.6	12.8	15.4
13	12.4	12.2	12.0	12.2	12.6	12.6	12.6	12.6	12.6	12.5	12.8	13.2	12.9	12.9	13.3	13.4	13.5	13.7	13.3	13.3	12.9	11.9	12.0	12.6	13.7	11.9	12.7
14	12.7	12.8	12.8	12.6	12.5	12.5	12.6	13.0	13.2	13.3	13.5	13.7	14.3	14.7	15.2	15.5	15.8	15.1	13.8	13.6	12.7	11.8	11.7	12.5	15.8	11.7	13.4
15	13.1	13.2	13.0	13.0	13.1	13.2	13.2	13.2	13.6	13.9	13.8	14.5	14.9	15.6	16.2	16.0	16.3	15.8	15.7	15.5	15.4	15.0	14.9	14.8	16.3	13.0	14.4
16	14.2	14.0	14.2	14.2	14.0	14.0	14.2	14.4	15.1	15.4	15.5	15.6	14.7	14.6	14.0	14.5	15.0	14.9	14.8	14.4	13.9	14.1	14.1	14.1	15.6	13.9	14.5
17	13.9	13.5	13.4	13.2	13.1	13.1	13.3	13.4	13.3	13.6	13.6	14.0	14.5	14.4	15.1	15.6	15.5	16.1	15.5	15.6	15.2	14.8	14.6	15.0	16.1	13.1	14.3
18	14.4	14.2	14.0	14.0	13.6	13.4	13.8	13.6	14.3	14.1	13.5	12.9	13.1	13.0	13.1	13.1	13.3	13.5	13.7	13.7	13.7	13.1	12.5	12.3	14.4	12.3	13.5
19	11.7	11.9	11.7	11.5	11.6	12.3	13.4	14.8	15.6	15.3	15.4	15.5	15.1	15.3	16.0	17.8	19.9	19.5	19.3	19.4	19.0	18.8	18.5	18.1	19.9	11.5	15.7
20	15.7	14.2	16.6	16.5	15.9	15.5	15.8	15.7	16.2	17.0	17.2	18.0	18.4	18.7	18.4	18.3	17.8	17.3	16.9	16.6	16.4	15.0	14.7	14.3	18.7	14.2	16.5
21	13.7	13.4	13.8	13.7	13.4	13.5	13.1	13.2	13.8	10.0	16.4	16.6	17.2	17.6	17.9	18.2	17.8	16.3	15.5	14.4	13.5	13.0	13.1	11.9	18.2	10.0	14.6
22	11.0	10.8	11.0	10.5	10.7	10.8	11.8	12.8	13.6	13.9	14.0	14.0	13.6	13.5	12.3	12.3	12.9	12.2	12.1	11.8	12.0	12.5	12.4	12.3	14.0	10.5	12.3
23	12.3	12.1	11.9	12.1	12.7	13.0	13.3	13.5	14.5	15.5	15.1	13.9	14.5	15.8	15.1	15.1	15.1	13.7	13.2	13.1	12.5	11.2	11.3	11.5	15.8	11.2	13.4
24	11.3	11.1	10.8	10.9	10.8	10.8	10.8	10.9	12.0	13.0	13.1	13.8	14.7	15.0	15.1	14.9	16.6	15.6	15.1	14.8	14.4	13.7	12.8	12.9	16.6	10.8	13.1
25	12.6	12.5	12.4	11.9	11.9	11.9	12.1	12.7	12.9	13.7	14.2	14.8	15.0	15.4	15.4	14.9	14.7	13.9	13.1	11.9	10.6	10.5	10.2	9.7	15.4	9.7	12.9
26	9.3	8.2	7.9	8.2	8.3	8.7	9.0	10.5	12.2	13.4	14.6	16.0	16.5	17.3	17.3	17.6	17.1	15.0	14.2	13.8	13.8	13.7	13.4	13.4	17.6	7.9	12.9
27	13.5	13.6	13.6	13.4	12.5	12.4	13.3	13.5	13.8	14.8	15.8	16.3	16.9	17.5	18.1	17.7	16.6	15.6	15.2	14.6	14.2	14.0	14.0	12.8	18.1	12.4	14.7
28	11.5	11.7	12.0	12.1	11.4	10.6	10.4	10.6	11.4	11.7	11.6	11.8	12.0	12.3	12.4	12.5	12.6	12.8	14.6	14.1	13.6	13.3	13.1	12.8	14.6	10.4	12.2
29	12.2	11.5	11.6	11.8	12.1	12.1	12.2	12.1	11.5	11.8	12.1	12.6	12.7	13.0	13.5	13.4	13.5	13.6	13.5	13.5	13.1	12.8	12.6	12.5	13.6	11.5	12.6
30	11.4	11.7	12.1	12.4	12.7	12.5	12.4	12.6	12.7	13.5	14.7	15.4	16.0	17.5	16.7	17.0	16.5	16.0	15.8	15.6	15.3	15.3	15.3	15.3	17.5	11.4	14.4
31	15.1	15.2	15.0	14.6	14.5	14.6	14.4	14.6	14.7	14.9	14.7	14.9	15.5	16.3	16.7	16.5	16.2	15.3	15.0	14.4	13.5	13.2	12.9	12.5	16.7	12.5	14.8
Max.	**17.0**	**16.8**	**16.6**	**16.5**	**16.1**	**16.0**	**16.5**	**16.6**	**17.0**	**17.5**	**18.4**	**18.6**	**19.4**	**19.6**	**20.1**	**19.7**	**19.9**	**19.5**	**19.3**	**19.4**	**19.0**	**18.8**	**18.5**	**18.1**	**20.1**		
Min.	**9.3**	**8.2**	**7.9**	**8.2**	**8.3**	**8.7**	**9.0**	**10.5**	**11.4**	**10.0**	**11.6**	**11.8**	**12.0**	**12.3**	**12.3**	**12.3**	**12.6**	**12.2**	**12.1**	**11.8**	**10.6**	**10.3**	**10.2**	**9.7**		**7.9**	
Avg.	**13.2**	**12.9**	**12.9**	**12.7**	**12.7**	**12.7**	**13.2**	**13.6**	**14.0**	**14.3**	**14.8**	**15.1**	**15.4**	**15.9**	**16.0**	**16.1**	**16.1**	**15.6**	**15.1**	**14.7**	**14.2**	**13.8**	**13.7**	**13.6**			**14.3**

Total Hours in Month 744 **Hours Data Available** 656 **Data Recovery** 88.2%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	12.3	11.9	11.6	10.6	10.1	8.9	9.4	9.8	10.4	11.3	12.4	13.5	14.0	14.2	14.9	15.4	15.0	13.7	13.4	13.3	12.4	12.4	12.6	12.1	15.4	8.9	12.3
2	9.3	7.9	7.3	7.3	7.1	6.9	6.4	7.8	9.3	10.7	11.8	12.5	13.7	14.8	14.8	13.8	13.6	13.1	12.7	12.5	12.2	12.0	12.1	12.2	14.8	6.4	10.9
3	12.2	12.1	11.6	11.1	10.2	9.4	8.6	8.4	8.4	8.8	9.0	9.1	9.4	9.7	10.4	10.0	9.7	9.5	9.7	9.9	10.0	10.1	10.2	10.4	12.2	8.4	9.9
4	10.5	10.3	10.4	10.7	10.5	10.4	10.3	10.2	10.2	10.2	10.2	10.4	10.6	10.8	10.9	11.4	12.1	12.1	11.9	11.8	11.6	11.1	10.9	11.2	12.1	10.2	10.9
5	11.3	11.2	10.6	9.9	10.2	10.3	10.2	10.9	11.4	11.3	10.8	11.0	11.4	11.7	11.8	12.1	11.9	11.5	10.6	9.8	9.8	9.8	9.9	9.9	12.1	9.8	10.8
6	10.0	10.1	10.2	10.3	10.2	10.3	10.3	10.1	10.5	12.2	12.9	13.4	13.8	13.3	13.7	12.9	12.8	12.9	12.6	12.7	12.4	12.1	11.7	11.8	13.8	10.0	11.8
7	12.0	11.9	11.9	11.7	11.5	11.4	11.1	11.6	12.1	12.8	13.7	14.6	13.9	14.9	15.7	15.2	15.3	14.2	13.7	13.5	12.8	12.5	12.0	11.6	15.7	11.1	13.0
8	11.3	11.5	11.6	11.4	11.4	11.4	11.3	11.3	11.8	12.5	13.4	13.4	13.3	13.6	13.5	13.1	12.8	12.1	11.9	11.4	10.7	10.1	10.4	10.4	13.6	10.1	11.9
9	9.9	9.4	9.3	9.6	9.8	10.0	10.3	10.9	11.0	11.3	11.8	11.9	12.0	11.9	12.2	12.3	12.5	12.6	12.5	12.4	12.2	12.1	11.4	11.4	12.6	9.3	11.3
10	11.7	11.9	12.0	12.0	11.9	12.0	12.0	12.0	12.5	12.9	13.5	13.6	13.8	14.2	15.0	15.1	14.8	14.1	13.1	12.4	11.4	10.8	10.1	9.4	15.1	9.4	12.6
11	9.4	10.0	10.6	10.8	10.4	10.6	10.4	10.4	11.5	11.8	12.0	11.9	11.8	11.5	11.3	11.0	11.3	11.2	11.7	11.8	11.8	11.7	11.8	12.0	12.0	9.4	11.2
12	12.1	12.0	11.9	12.0	12.0	10.7	10.4	10.9	11.2	12.2	12.2	12.2	11.5	11.4	11.3	11.4	11.7	11.7	11.9	11.4	11.0	11.3	11.2	10.9	12.2	10.4	11.5
13	10.6	10.0	9.7	9.1	9.2	9.6	9.6	10.1	11.1	11.4	11.8	12.5	12.7	12.7	12.4	12.2	12.1	12.3	12.5	12.1	12.1	11.7	12.1	12.1	12.7	9.1	11.3
14	12.1	11.5	10.7	10.1	9.4	9.0	8.0	8.2	10.2	10.9	11.7	12.2	12.8	13.6	13.3	13.8	13.8	12.9	13.1	13.1	12.7	12.6	12.6	12.5	13.8	8.0	11.7
15	12.5	12.0	11.8	11.6	11.8	12.0	12.0	12.1	11.9	11.6	11.5	11.4	11.2	10.6	11.1	11.6	11.7	11.8	11.9	11.9	11.0	10.7	10.6	10.5	12.5	10.5	11.5
16	10.5	10.6	10.4	9.5	9.3	10.0	10.6	10.4	10.3	10.4	10.7	11.2	11.6	12.1	12.5	12.8	12.4	11.6	11.2	9.8	9.0	8.8	9.1	9.4	12.8	8.8	10.6
17	10.2	10.2	9.8	8.5	7.5	7.4	7.8	8.1	8.3	9.0	10.7	10.6	11.4	11.9	11.2	10.2	11.0	10.2	9.4	8.7	8.0	8.0	8.9	9.8	11.9	7.4	9.4
18	10.0	10.0	10.0	10.0	10.0	10.0	10.1	10.3	10.6	11.2	11.4	12.3	13.2	13.6	13.4	13.3	13.2	12.5	12.4	11.6	11.3	11.2	10.8	11.0	13.6	10.0	11.4
19	10.9	10.7	11.0	10.5	10.4	10.5	10.4	10.2	10.4	11.1	12.0	12.6	13.9	13.7	14.7	14.4	13.8	12.8	12.2	11.9	11.8	11.7	11.6	11.4	14.7	10.2	11.8
20	11.3	11.4	11.4	11.4	11.3	11.4	11.3	11.7	12.5	13.2	13.6	14.1	14.5	14.7	14.9	14.8	14.0	12.9	12.3	11.8	11.6	11.3	10.7	10.5	14.9	10.5	12.4
21	10.6	10.5	10.3	10.2	10.0	10.1	10.4	10.6	9.5	9.7	10.3	11.0	11.5	11.5	11.5	11.2	10.8	10.2	9.9	9.5	9.0	9.0	8.7	8.5	11.5	8.5	10.2
22	8.0	8.0	8.3	8.5	8.7	9.2	9.3	9.7	10.3	10.5	10.5	10.6	10.7	10.8	10.8	10.9	11.0	11.0	10.8	10.8	10.6	10.4	10.4	10.2	11.0	8.0	10.0
23	10.3	10.5	10.6	10.2	10.0	10.1	9.8	9.3	9.5	11.0	11.4	11.4	11.3	11.7	11.6	11.3	11.2	11.2	11.2	11.2	11.1	10.5	10.1	10.3	11.7	9.3	10.7
24	10.2	9.5	9.2	9.2	9.5	8.8	8.0	8.6	9.2	10.3	10.0	10.1	10.4	10.3	11.4	11.3	10.3	10.0	10.1	9.6	9.5	9.2	9.7	9.7	11.4	8.0	9.7
25	9.2	9.2	9.5	9.5	9.7	9.7	9.5	9.5	9.9	10.0	10.7	11.5	11.0	11.3	11.7	11.5	11.4	11.0	10.9	10.8	10.0	8.5	9.3	9.4	11.7	8.5	10.2
26	8.2	7.1	6.7	5.8	5.7	6.0	6.1	6.2	8.4	10.0	9.7	10.4	11.1	10.9	10.5	9.6	9.3	9.2	9.5	9.0	8.2	8.1	7.8	8.1	11.1	5.7	8.4
27	7.9	7.6	7.5	7.6	7.7	7.8	8.1	7.9	7.9	7.6	8.6	9.1	9.2	8.7	8.3	8.3	8.5	8.1	7.4	7.1	6.6	7.2	7.8	7.9	9.2	6.6	7.9
28	8.3	8.1	7.6	7.8	7.7	7.2	7.6	8.2	8.3	8.3	8.4	9.2	9.9	10.4	10.9	10.9	10.8	10.9	10.7	9.8	9.3	9.0	9.4	10.3	10.9	7.2	9.1
29	11.1	10.8	10.5	10.4	10.2	9.6	9.5	9.5	9.4	9.5	9.3	9.3	10.3	10.1	9.7	9.7	10.0	9.5	9.1	9.0	8.9	9.0	8.9	9.0	11.1	8.9	9.7
30	8.8	8.6	8.4	8.2	7.9	7.8	7.6	7.5	7.7	8.1	8.4	8.7	9.0	9.3	9.6	9.6	9.2	8.7	8.4	8.1	8.1	8.2	8.3	8.3	9.6	7.5	8.4
Max.	**12.5**	**12.1**	**12.0**	**12.0**	**12.0**	**12.0**	**12.0**	**12.1**	**12.5**	**13.2**	**13.7**	**14.6**	**14.5**	**14.9**	**15.7**	**15.4**	**15.3**	**14.2**	**13.7**	**13.5**	**12.8**	**12.6**	**12.6**	**12.5**	**15.7**		
Min.	**7.9**	**7.1**	**6.7**	**5.8**	**5.7**	**6.0**	**6.1**	**6.2**	**7.7**	**7.6**	**8.4**	**8.7**	**9.0**	**8.7**	**8.3**	**8.3**	**8.5**	**8.1**	**7.4**	**7.1**	**6.6**	**7.2**	**7.8**	**7.9**		**5.7**	
Avg.	**10.4**	**10.2**	**10.1**	**9.8**	**9.7**	**9.6**	**9.5**	**9.7**	**10.2**	**10.7**	**11.1**	**11.5**	**11.8**	**12.0**	**12.2**	**12.0**	**11.9**	**11.5**	**11.3**	**11.0**	**10.6**	**10.4**	**10.4**	**10.4**			**10.8**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.2	8.2	8.1	8.0	7.8	7.6	7.3	7.1	6.5	6.3	6.1	6.4	6.7	6.9	6.7	6.8	6.6	5.7	5.3	5.1	4.7	4.4	4.4	4.1	8.2	4.1	6.5
2	4.1	4.0	4.0	3.8	3.5	3.5	3.2	3.2	3.7	4.4	4.9	5.5	5.9	7.2	7.6	7.6	7.1	5.6	4.4	4.8	4.7	4.5	3.3	2.4	7.6	2.4	4.7
3	2.4	2.4	2.9	3.7	3.5	4.0	3.9	3.3	3.7	4.4	8.1	8.2	9.2	9.5	9.6	9.2	8.7	8.6	8.0	7.3	7.6	8.2	7.9	7.8	9.6	2.4	6.3
4	7.4	7.2	7.5	8.1	8.2	8.2	8.4	8.8	9.0	9.1	9.4	9.8	10.2	10.3	10.4	10.0	9.6	9.3	9.2	9.2	8.4	8.1	8.1	8.2	10.4	7.2	8.8
5	7.7	7.1	7.1	7.3	7.3	7.0	6.5	6.5	6.5	6.7	7.1	7.2	7.3	7.5	7.8	7.7	7.3	6.9	6.6	6.8	6.8	6.9	7.0	7.1	7.8	6.5	7.1
6	7.3	7.2	7.4	7.3	7.3	7.0	6.7	6.4	6.9	8.1	8.5	9.4	10.0	10.4	10.9	11.2	9.8	8.8	7.8	7.0	6.4	5.7	5.3	5.3	11.2	5.3	7.8
7	5.3	5.8	6.9	7.5	8.1	8.1	8.2	8.4	8.8	8.9	9.4	8.8	8.3	8.1	7.7	7.5	7.3	7.1	7.0	7.1	7.1	7.0	6.8	6.5	9.4	5.3	7.6
8	6.4	6.3	6.0	5.8	5.7	5.5	5.2	4.8	4.8	4.7	4.7	4.7	4.8	4.8	5.1	5.1	5.1	5.0	4.7	4.4	4.2	4.0	3.7	3.4	6.4	3.4	5.0
9	3.5	3.0	2.9	2.8	3.2	2.5	2.9	3.2	3.8	4.4	4.8	4.9	5.3	6.1	6.9	6.9	6.8	6.9	6.6	6.6	6.2	5.6	5.4	5.2	6.9	2.5	4.9
10	5.0	4.7	4.6	4.4	5.2	5.7	5.7	5.8	6.3	5.6	5.0	5.5	6.2	6.4	6.5	6.6	6.7	6.1	5.4	5.5	4.9	5.2	5.2	5.1	6.7	4.4	5.6
11	4.9	4.7	5.2	5.4	5.2	5.4	5.7	5.9	5.5	5.8	6.2	6.3	7.3	7.4	6.7	6.3	5.6	4.8	4.3	3.6	3.3	2.8	2.4	2.2	7.4	2.2	5.1
12	2.3	2.2	2.2	1.9	1.7	1.3	0.9	0.6	0.6	1.4	1.6	2.4	2.6	2.7	2.7	2.9	2.7	2.3	1.9	1.6	1.4	1.5	2.2	2.3	2.9	0.6	1.9
13	2.2	2.2	2.7	1.9	0.7	0.7	1.2	0.6	0.6	2.1	3.1	4.9	5.2	5.4	5.1	4.6	4.1	3.9	3.7	3.1	2.4	2.6	3.4	3.1	5.4	0.6	2.9
14	3.1	3.1	3.4	3.6	3.6	2.9	2.5	2.3	2.7	3.5	4.1	5.3	6.4	7.4	8.0	8.3	8.0	7.6	7.3	7.5	7.5	7.3	6.2	5.5	8.3	2.3	5.3
15	5.5	5.5	5.6	5.6	5.6	5.4	5.6	5.6	5.4	5.8	6.3	6.7	6.9	7.2	7.7	7.6	7.5	6.6	5.5	4.2	3.5	3.3	2.3	2.6	7.7	2.3	5.6
16	2.2	1.7	1.7	2.8	5.5	5.7	5.0	3.9	3.9	6.1	7.0	6.8	7.3	7.2	7.8	7.4	7.3	6.8	6.6	6.4	6.7	6.0	5.4	5.3	7.8	1.7	5.5
17	5.3	5.8	6.1	5.2	5.0	5.2	6.8	7.4	7.7	7.9	8.1	8.1	8.2	8.6	8.1	8.1	7.9	6.9	5.8	5.0	5.0	4.9	4.6	4.2	8.6	4.2	6.5
18	4.2	4.9	5.2	4.9	4.7	4.5	4.9	4.9	4.9	5.3	5.6	5.8	6.0	6.3	6.5	7.0	6.8	6.1	6.4	6.9	6.1	4.9	4.1	4.1	7.0	4.1	5.5
19	4.0	4.4	4.5	5.0	5.7	5.5	6.1	7.8	7.9	8.0	8.0	8.0	8.1	8.1	8.1	8.2	7.9	7.7	7.3	7.4	7.2	6.9	6.6	6.3	8.2	4.0	6.9
20	6.7	6.8	6.7	6.5	6.6	6.6	6.8	6.8	6.8	7.6	8.6	8.6	9.5	9.9	9.8	9.5	9.2	9.3	9.2	9.3	9.4	9.4	9.8	9.3	9.9	6.5	8.3
21	8.2	7.9	8.1	7.8	7.5	7.8	7.6	6.5	5.6	5.4	5.6	5.5	5.2	5.0	5.1	5.0	4.7	4.5	4.4	4.5	4.7	4.5	4.4	4.2	8.2	4.2	5.8
22	4.0	4.1	4.1	4.2	4.1	4.0	3.9	4.1	3.9	3.7	3.6	3.6	3.6	3.6	3.4	3.2	3.1	3.0	2.9	2.8	2.6	2.4	2.7	2.6	4.2	2.4	3.5
23	2.7	2.8	2.7	2.7	2.8	2.5	2.4	2.4	2.4	2.6	2.7	2.4	1.7	1.2	1.0	0.8	0.8	0.6	0.2	0.3	0.6	0.4	0.0	-0.1	2.8	-0.1	1.6
24	-0.5	-0.8	-1.6	-2.3	-1.8	-1.4	-1.1	-0.1	0.7	1.1	1.9	2.4	2.9	3.5	3.6	3.6	3.2	3.4	3.4	3.7	3.4	2.9	2.8	2.6	3.7	-2.3	1.5
25	2.5	2.1	1.9	1.8	1.0	0.8	0.6	0.4	0.4	1.1	1.0	1.1	1.5	1.8	1.9	2.0	1.1	-0.2	-0.3	0.4	0.0	-0.5	-0.2	-0.4	2.5	-0.5	0.9
26	-0.8	-0.5	-0.8	-0.8	-1.2	-1.6	-1.1	-0.8	-0.8	0.4	1.1	2.0	3.0	3.2	3.5	3.4	2.7	1.9	1.7	0.8	0.0	0.3	0.2	-0.7	3.5	-1.6	0.6
27	-0.8	-1.0	-1.1	-1.3	-1.4	-1.6	-1.6	-1.8	-1.8	-0.7	0.4	1.3	1.9	2.5	3.3	3.8	2.1	0.1	-0.3	-0.6	-1.0	-1.2	-1.6	-2.1	3.8	-2.1	-0.2
28	-2.1	-1.7	-1.8	-2.2	-2.2	-2.2	-1.8	-2.1	-2.4	-1.7	-0.5	0.3	1.1	1.7	2.0	1.7	0.5	-0.7	-0.7	0.1	-0.1	-0.2	0.2	-0.1	2.0	-2.4	-0.6
29	-0.1	0.1	0.1	-0.3	-0.6	-1.1	-0.8	-1.0	-0.9	-0.5	0.7	1.5	1.9	2.0	2.2	2.2	2.0	1.9	1.5	1.3	1.3	1.3	1.3	1.4	2.2	-1.1	0.7
30	1.4	1.4	1.5	1.3	1.0	0.8	0.8	0.7	0.6	0.5	0.7	0.9	1.4	1.8	1.8	1.4	1.1	1.0	0.5	0.0	-0.1	-0.3	-0.4	-0.6	1.8	-0.6	0.8
31	-0.6	-0.8	-1.0	-1.1	-1.2	-1.3	-1.5	-1.6	-2.1	-1.7	-1.5	-1.7	-1.4	-1.3	-1.7	-1.4	-1.7	-2.2	-2.2	-2.4	-2.5	-2.8	-3.0	-3.6	-0.6	-3.6	-1.8
Max.	**8.2**	**8.2**	**8.1**	**8.1**	**8.2**	**8.2**	**8.4**	**8.8**	**9.0**	**9.1**	**9.4**	**9.8**	**10.2**	**10.4**	**10.9**	**11.2**	**9.8**	**9.3**	**9.2**	**9.3**	**9.4**	**9.4**	**9.8**	**9.3**	**11.2**		
Min.	**-2.1**	**-1.7**	**-1.8**	**-2.3**	**-2.2**	**-2.2**	**-1.8**	**-2.1**	**-2.4**	**-1.7**	**-1.5**	**-1.7**	**-1.4**	**-1.3**	**-1.7**	**-1.4**	**-1.7**	**-2.2**	**-2.2**	**-2.4**	**-2.5**	**-2.8**	**-3.0**	**-3.6**		**-3.6**	
Avg.	**3.6**	**3.6**	**3.6**	**3.6**	**3.6**	**3.5**	**3.6**	**3.5**	**3.6**	**4.1**	**4.6**	**4.9**	**5.3**	**5.6**	**5.7**	**5.6**	**5.2**	**4.7**	**4.3**	**4.2**	**3.9**	**3.7**	**3.6**	**3.3**			**4.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-3.4	-3.1	-2.4	-2.6	-3.1	-3.0	-2.9	-2.8	-2.7	-2.3	-1.5	-0.8	-0.2	0.0	0.2	0.0	-0.3	-0.4	-0.6	-0.5	-0.7	-0.8	-1.0	-1.2	0.2	-3.4	-1.5
2	-1.3	-1.3	-0.9	-0.9	-1.3	-1.6	-1.9	-2.3	-2.8	-1.4	-1.1	-0.8	0.4	1.3	1.5	1.9	1.6	1.2	1.1	0.9	0.6	0.1	0.3	-0.4	1.9	-2.8	-0.3
3	-0.1	-0.5	-0.3	0.4	0.6	-0.5	-0.2	-0.3	-0.7	-0.7	-0.7	-1.1	-2.6	-3.4	-4.5	-4.7	-4.8	-5.4	-5.7	-5.8	-5.9	-6.0	-5.7	-6.0	0.6	-6.0	-2.7
4	-6.2	-6.6	-7.0	-7.0	-6.9	-6.3	-6.1	-5.8	-6.0	-6.3	-6.2	-5.8	-5.3	-4.7	-4.8	-4.9	-5.1	-5.1	-5.4	-5.6	-5.6	-6.0	-6.6	-6.8	-4.7	-7.0	-5.9
5	-7.0	-7.8	-7.5	-7.4	-7.1	-7.0	-7.0	-6.9	-6.5	-6.3	-5.9	-5.4	-4.8	-3.5	-2.8	-2.9	-3.2	-3.5	-3.5	-3.6	-4.1	-4.0	-4.0	-4.2	-2.8	-7.8	-5.2
6	-3.7	-3.9	-4.2	-4.6	-4.7	-4.2	-3.0	-1.4	-0.3	0.0	-0.4	-0.1	-0.4	-1.1	-1.1	-1.4	-1.8	-2.2	-2.6	-2.9	-3.9	-4.7	-5.2	-6.1	0.0	-6.1	-2.7
7	-6.7	-7.1	-6.7	-6.9	-7.9	-8.0	-8.6	-9.7	-8.9	-9.0	-8.7	-8.1	-7.7	-7.5	-6.8	-6.6	-6.8	-7.4	-7.3	-7.4	-7.6	-7.8	-7.6	-7.2	-6.6	-9.7	-7.7
8	-6.9	-6.7	-6.7	-6.8	-7.3	-7.3	-7.1	-7.1	-7.0	-6.4	-5.7	-4.9	-4.3	-3.8	-3.3	-3.3	-4.3	-5.2	-5.2	-4.7	-4.7	-4.8	-4.2	-3.9	-3.3	-7.3	-5.5
9	-3.6	-3.5	-3.5	-3.7	-3.7	-3.8	-3.8	-3.6	-3.4	-3.1	-2.6	-2.2	-2.0	-1.8	-1.8	-2.0	-2.2	-2.6	-2.9	-3.0	-3.2	-3.1	-2.7	-2.8	-1.8	-3.8	-2.9
10	-2.7	-2.7	-2.4	-2.3	-2.7	-2.9	-2.5	-2.2	-3.1	-3.2	-3.0	-3.0	-2.9	-2.8	-3.2	-3.6	-3.8	-4.3	-4.5	-4.7	-4.7	-4.3	-3.8	-3.7	-2.2	-4.7	-3.3
11	-3.8	-3.8	-4.0	-4.3	-5.0	-5.2	-5.3	-5.3	-5.4	-5.4	-5.1	-4.8	-4.8	-4.7	-4.6	-4.7	-5.0	-5.2	-5.1	-5.1	-5.0	-4.7	-4.3	-3.9	-3.8	-5.4	-4.8
12	-3.9	-3.9	-3.7	-3.2	-2.8	-2.4	-2.4	-1.9	-1.3	-1.0	-0.3	0.1	0.2	0.1	0.1	-0.1	-1.0	-2.3	-2.8	-3.3	-3.5	-3.4	-3.3	-2.8	0.2	-3.9	-2.0
13	-3.0	-2.8	-2.5	-2.1	-2.2	-2.6	-2.6	-2.7	-2.6	-2.7	-2.5	-2.1	-2.0	-1.9	-2.0	-2.1	-2.1	-2.6	-2.6	-2.4	-1.6	-1.8	-2.8	-2.8	-1.6	-3.0	-2.4
14	-3.0	-3.0	-2.8	-2.5	-2.0	-2.2	-1.3	-1.3	-0.7	-0.1	1.0	1.2	2.0	2.5	2.9	3.1	2.9	2.7	2.6	2.5	2.2	2.4	3.0	3.6	3.6	-3.0	0.6
15	3.8	4.0	4.1	4.0	3.8	3.2	2.5	2.5	2.6	1.9	2.4	2.3	3.3	4.5	4.2	4.1	3.5	3.0	2.7	2.3	1.4	0.2	-0.1	-0.2	4.5	-0.2	2.7
16	0.0	1.8	2.6	2.0	1.4	1.1	0.9	1.3	2.3	2.7	2.7	2.7	2.9	2.9	3.1	3.2	2.9	2.6	2.9	3.4	3.2	3.0	3.7	3.1	3.7	0.0	2.4
17	3.1	3.5	3.3	3.2	3.0	2.7	2.9	2.8	2.6	2.5	2.5	2.9	3.8	4.4	4.6	4.0	3.3	2.8	2.1	1.7	0.9	0.6	0.7	1.3	4.6	0.6	2.7
18	2.9	2.3	2.9	3.5	2.3	2.2	2.5	2.9	3.1	3.5	3.9	4.0	3.8	3.6	3.5	3.8	4.2	4.0	3.8	3.6	0.1	-1.3	-1.7	-1.6	4.2	-1.7	2.6
19	-1.7	-1.6	-1.1	-1.2	-1.8	-1.9	-1.6	-1.2	-1.5	-1.9	-2.0	-2.0	-2.3	-2.6	-2.9	-3.0	-3.2	-3.4	-3.5	-3.8	-3.9	-4.6	-5.2	-5.4	-1.1	-5.4	-2.6
20	-5.7	-5.8	-5.8	-5.5	-5.1	-4.9	-4.7	-4.5	-4.0	-3.6	-2.4	-1.8	-1.3	-1.2	-1.4	-1.9	-2.3	-2.8	-2.9	-3.0	-3.0	-3.0	-3.3	-3.4	-1.2	-5.8	-3.5
21	-3.8	-4.2	-4.4	-4.3	-3.3	-2.6	-2.5	-2.5	-2.4	-2.5	-2.7	-3.0	-3.5	-3.8	-4.0	-4.1	-4.5	-5.1	-5.4	-5.5	-6.0	-6.3	-6.3	-6.3	-2.4	-6.3	-4.1
22	-6.5	-6.8	-7.2	-7.6	-7.9	-8.7	-8.1	-7.6	-7.6	-7.0	-6.9	-6.8	-6.5	-6.7	-6.5	-6.4	-7.1	-7.3	-7.3	-6.5	-6.3	-6.5	-6.6	-6.8	-6.3	-8.7	-7.1
23	-7.2	-7.3	-7.6	-8.2	-8.7	-9.6	-10.7	-11.5	-12.3	-13.6	-13.4	-13.5	-14.0	-14.2	-14.4	-14.7	-14.8	-14.8	-14.9	-14.9	-14.7	-14.4	-14.5	-14.7	-7.2	-14.9	-12.4
24	-14.7	-14.5	-14.4	-14.0	-13.6	-13.7	-13.2	-13.3	-13.3	-13.0	-12.5	-12.4	-12.5	-12.6	-12.8	-13.3	-14.2	-14.7	-15.7	-15.7	-15.5	-15.3	-15.2	-15.5	-12.4	-15.7	-14.0
25	-15.5	-15.4	-15.4	-15.2	-14.9	-15.0	-15.0	-15.1	-15.4	-15.5	-15.1	-14.6	-14.1	-14.2	-14.1	-13.9	-13.7	-13.2	-12.9	-12.8	-12.7	-12.5	-12.2	-11.8	-11.8	-15.5	-14.2
26	-11.6	-11.3	-11.0	-10.8	-10.1	-10.0	-9.9	-9.8	-9.3	-9.0	-8.5	-8.2	-8.1	-8.0	-8.1	-8.2	-8.4	-8.5	-8.6	-8.5	-9.0	-9.3	-9.6	-9.5	-8.0	-11.6	-9.3
27	-9.5	-9.6	-9.7	-10.0	-10.1	-10.7	-10.6	-10.2	-10.3	-9.9	-9.4	-9.0	-8.7	-8.6	-8.2	-8.2	-8.6	-9.3	-9.8	-9.9	-9.8	-9.2	-8.9	-8.9	-8.2	-10.7	-9.5
28	-8.6	-8.4	-7.9	-8.2	-8.0	-8.5	-8.6	-8.9	-8.7	-8.3	-7.2	-6.2	-5.5	-5.1	-4.9	-4.8	-4.9	-5.0	-5.0	-5.0	-5.5	-5.5	-5.4	-5.2	-4.8	-8.9	-6.6
29	-5.3	-5.0	-5.3	-5.5	-5.4	-5.5	-5.4	-5.3	-5.0	-5.1	-5.0	-3.4	-0.7	-1.1	-0.7	-0.1	-0.1	-0.6	-0.7	-0.9	-0.2	-0.1	-0.5	-0.6	-0.1	-5.5	-2.8
30	-0.1	-0.1	-0.4	-0.1	-0.3	-1.0	-0.5	-0.6	-0.7	-0.5	0.9	0.3	-0.1	-0.1	0.1	-0.2	-0.7	-1.2	-1.4	-1.6	-1.3	-1.2	-1.9	-1.8	0.9	-1.9	-0.6
Max.	**3.8**	**4.0**	**4.1**	**4.0**	**3.8**	**3.2**	**2.9**	**2.9**	**3.1**	**3.5**	**3.9**	**4.0**	**3.8**	**4.5**	**4.6**	**4.1**	**4.2**	**4.0**	**3.8**	**3.6**	**3.2**	**3.0**	**3.7**	**3.6**	**4.6**		
Min.	**-15.5**	**-15.4**	**-15.4**	**-15.2**	**-14.9**	**-15.0**	**-15.0**	**-15.1**	**-15.4**	**-15.5**	**-15.1**	**-14.6**	**-14.1**	**-14.2**	**-14.4**	**-14.7**	**-14.8**	**-14.8**	**-15.7**	**-15.7**	**-15.5**	**-15.3**	**-15.2**	**-15.5**		**-15.7**	
Avg.	**-4.5**	**-4.5**	**-4.4**	**-4.4**	**-4.5**	**-4.7**	**-4.6**	**-4.5**	**-4.4**	**-4.2**	**-3.8**	**-3.6**	**-3.3**	**-3.1**	**-3.1**	**-3.2**	**-3.5**	**-3.9**	**-4.0**	**-4.1**	**-4.3**	**-4.5**	**-4.5**	**-4.5**			**-4.1**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-2.1	-2.2	-2.3	-2.3	-2.3	-3.0	-3.6	-3.9	-4.3	-4.6	-4.6	-3.9	-3.8	-4.2	-4.2	-4.5	-5.0	-4.4	-5.5	-5.4	-5.6	-5.3	-5.0	-5.1	-2.1	-5.6	-4.0
2	-5.4	-5.8	-5.2	-5.2	-5.4	-5.1	-4.9	-5.7	-7.6	-8.6	-8.8	-8.9	-8.6	-8.3	-8.6	-9.1	-9.6	-10.1	-10.4	-10.1	-10.1	-10.3	-10.9	-11.1	-4.9	-11.1	-8.1
3	-11.1	-11.3	-11.5	-11.9	-11.7	-11.4	-11.6	-11.7	-11.7	-11.9	-11.8	-11.6	-11.4	-11.5	-11.5	-11.5	-11.5	-11.0	-11.3	-11.5	-11.8	-12.4	-12.1	-12.2	-11.0	-12.4	-11.6
4	-12.3	-11.9	-11.6	-10.8	-10.2	-9.5	-8.9	-7.2	-6.8	-6.7	-7.0	-6.9	-6.5	-6.0	-5.6	-5.2	-4.6	-4.6	-5.0	-5.1	-4.5	-4.5	-3.4	-3.5	-3.4	-12.3	-7.0
5	-4.2	-4.1	-4.3	-4.0	-2.4	-3.1	-1.9	-0.7	0.3	0.9	0.5	0.4	0.0	0.3	0.3	0.7	0.8	0.9	1.3	1.9	2.8	3.0	2.5	2.5	3.0	-4.3	-0.2
6	2.9	3.2	3.4	2.7	2.3	2.5	3.1	3.3	3.2	2.6	3.0	2.8	3.3	3.1	2.2	0.9	1.0	1.5	1.5	1.9	2.4	2.8	3.6	4.8	4.8	0.9	2.7
7	4.6	4.0	3.1	2.8	3.2	3.6	3.5	3.4	3.2	3.0	3.5	3.3	3.3	3.2	3.1	3.1	3.3	3.8	4.3	4.3	4.3	4.0	4.0	4.0	4.6	2.8	3.6
8	4.1	4.9	5.1	4.5	3.6	3.2	2.7	2.4	2.5	2.6	3.8	5.6	6.0	6.1	5.5	5.6	5.5	5.2	5.3	5.7	5.6	5.7	5.7	5.6	6.1	2.4	4.7
9	5.5	5.7	5.9	5.9	5.8	5.7	5.6	5.5	4.1	3.3	3.7	4.7	5.4	5.8	6.1	5.3	5.7	5.7	5.3	4.3	3.4	3.5	3.2	3.6	6.1	3.2	4.9
10	3.3	2.6	3.0	3.1	3.3	3.6	3.1	3.1	3.0	3.0	4.5	4.9	5.1	5.5	5.8	5.5	4.7	4.5	4.7	4.4	3.7	3.0	2.6	3.1	5.8	2.6	3.9
11	3.3	3.1	2.7	2.1	2.2	3.0	2.3	0.5	-0.6	-0.7	-0.9	-1.9	-2.5	-2.9	-3.4	-4.1	-4.4	-4.9	-5.1	-5.2	-5.2	-5.3	-5.0	-4.9	3.3	-5.3	-1.6
12	-4.8	-5.3	-5.8	-5.8	-5.9	-5.4	-5.6	-5.6	-5.6	-5.4	-4.5	-3.6	-2.6	-2.7	-2.8	-2.0	-3.2	-2.7	-4.3	-4.6	-5.2	-5.9	-5.1	-4.9	-2.0	-5.9	-4.5
13	-4.6	-4.0	-4.3	-4.0	-4.1	-4.0	-3.5	-2.9	-2.5	-2.4	-2.0	-1.7	-1.5	-1.5	-1.1	-1.0	-0.7	0.2	0.5	0.3	0.2	0.6	0.8	1.0	1.0	-4.6	-1.8
14	1.1	1.2	1.4	1.7	1.8	2.1	2.5	2.7	3.0	3.3	3.6	4.0	4.4	4.4	4.4	3.4	1.7	1.2	1.0	0.9	0.9	1.2	1.5	2.0	4.4	0.9	2.3
15	2.4	3.4	3.6	4.3	4.7	4.4	4.3	3.8	4.3	4.7	4.6	4.5	4.2	4.6	4.5	4.8	4.8	4.9	5.4	5.2	5.2	6.7	7.1	7.1	7.1	2.4	4.7
16	7.1	7.1	7.1	6.9	6.8	6.8	6.7	6.6	6.6	6.6	6.6	6.3	5.9	6.0	5.7	4.9	4.3	3.5	2.6	2.2	1.6	2.1	2.6	2.5	7.1	1.6	5.2
17	2.4	1.7	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.6	2.5	4.5	5.3	5.7	5.5	4.9	4.5	4.3	4.6	5.0	5.8	5.7	5.5	5.8	1.2	3.3
18	5.4	5.7	6.1	6.2	6.2	6.7	5.3	4.8	5.1	5.3	5.4	6.3	6.8	6.9	7.0	7.6	8.0	7.5	7.1	7.4	7.1	7.0	6.6	6.9	8.0	4.8	6.4
19	7.3	7.6	7.5	7.4	7.3	7.0	6.9	6.4	6.4	6.4	6.5	6.7	6.9	6.6	6.4	5.7	4.5	4.0	4.9	5.4	5.1	4.7	3.6	3.9	7.6	3.6	6.0
20	3.6	2.6	3.4	4.0	3.8	3.7	3.3	1.9	0.7	0.1	0.0	1.6	1.7	2.1	1.9	1.9	1.3	0.5	-0.6	-0.2	0.0	-0.1	-0.6	-0.2	4.0	-0.6	1.5
21	0.3	-0.4	-0.6	-0.2	0.1	0.1	0.0	-0.2	-0.4	0.3	0.7	0.6	0.3	-0.1	0.0	0.1	0.1	0.2	0.5	0.6	0.7	0.7	0.4	0.2	0.7	-0.6	0.2
22	0.1	-0.1	0.0	0.2	0.1	-0.1	-0.3	-0.6	-0.6	-0.3	-0.1	0.1	0.0	0.0	0.3	0.5	0.7	0.9	1.2	1.1	1.1	1.1	1.1	1.1	1.2	-0.6	0.3
23	1.2	0.9	0.9	0.9	0.7	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.9	0.9	1.0	1.0	0.9	0.7	0.9	1.0	1.2	1.3	1.6	1.8	1.8	0.7	1.0
24	1.8	2.1	1.6	1.7	1.7	1.9	2.1	2.0	2.2	2.4	2.0	2.3	2.4	2.7	1.8	1.8	1.8	3.0	3.8	4.2	4.2	4.1	3.4	3.4	4.2	1.6	2.5
25	3.5	3.4	3.8	3.4	3.4	3.1	2.8	2.8	3.3	3.9	4.0	4.8	4.7	4.7	4.8	5.2	5.5	5.5	5.4	5.7	5.7	5.6	5.0	4.4	5.7	2.8	4.3
26	3.5	2.1	2.4	2.8	2.9	2.7	2.8	3.1	4.0	4.6	4.2	4.3	4.3	4.4	4.5	4.4	4.4	4.6	4.1	4.3	5.3	5.0	4.9	5.1	5.3	2.1	3.9
27	5.6	5.9	6.1	6.1	6.0	6.4	6.3	5.6	6.1	7.0	7.1	7.4	7.3	7.2	6.1	6.5	7.0	7.4	7.6	8.1	7.8	7.5	6.8	6.0	8.1	5.6	6.7
28	6.2	5.9	6.0	6.3	5.8	5.9	5.0	4.7	5.5	5.6	5.6	6.2	6.5	6.4	6.4	6.4	6.2	6.3	6.6	6.5	6.2	5.8	4.7	4.1	6.6	4.1	5.9
29	3.2	3.0	2.6	2.2	2.1	2.6	2.9	2.9	2.8	3.3	3.1	3.6	4.0	4.1	3.8	3.2	2.8	2.9	3.0	3.3	4.3	4.8	5.0	5.1	5.1	2.1	3.4
30	5.1	5.0	5.3	5.5	5.7	5.8	6.0	5.1	4.9	4.9	4.5	4.6	6.3	6.9	7.1	7.6	7.4	7.0	7.1	6.9	6.8	6.8	6.8	6.6	7.6	4.5	6.1
31	6.5	6.5	6.4	5.9	5.4	4.7	4.9	4.9	4.9	4.5	4.9	5.1	5.2	4.7	5.1	4.7	4.6	4.0	4.1	4.0	4.3	4.1	4.2	3.9	6.5	3.9	4.9
Max.	**7.3**	**7.6**	**7.5**	**7.4**	**7.3**	**7.0**	**6.9**	**6.6**	**6.6**	**7.0**	**7.1**	**7.4**	**7.3**	**7.2**	**7.1**	**7.6**	**8.0**	**7.5**	**7.6**	**8.1**	**7.8**	**7.5**	**7.1**	**7.1**	**8.1**		
Min.	**-12.3**	**-11.9**	**-11.6**	**-11.9**	**-11.7**	**-11.4**	**-11.6**	**-11.7**	**-11.7**	**-11.9**	**-11.8**	**-11.6**	**-11.4**	**-11.5**	**-11.5**	**-11.5**	**-11.5**	**-11.0**	**-11.3**	**-11.5**	**-11.8**	**-12.4**	**-12.1**	**-12.2**		**-12.4**	
Avg.	**1.5**	**1.4**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**	**1.3**	**1.2**	**1.3**	**1.4**	**1.8**	**2.0**	**2.1**	**2.0**	**1.9**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**	**1.7**	**1.7**	**1.7**			**1.6**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.5	2.5	1.9	2.3	3.2	3.3	3.8	3.8	3.7	3.9	4.0	3.7	3.8	4.2	3.9	3.9	3.9	4.1	4.0	4.0	4.0	3.5	3.3	3.3	4.2	1.9	3.6
2	3.9	3.7	3.5	3.1	3.3	3.8	4.0	4.3	3.4	2.5	2.0	2.3	3.0	2.7	3.1	3.3	3.1	2.6	1.9	1.8	1.8	1.9	1.8	2.2	4.3	1.8	2.9
3	1.8	2.0	1.3	1.0	1.4	1.7	1.8	2.3	2.0	2.4	2.1	2.9	2.9	2.9	3.0	3.3	3.0	3.2	3.3	3.0	3.5	3.5	3.0	2.5	3.5	1.0	2.5
4	2.8	3.1	2.2	0.8	0.5	0.1	-0.4	-1.3	-2.0	-2.2	-0.8	-0.4	-0.5	-0.4	-0.5	-0.5	-0.6	-1.1	-1.5	-1.5	-0.6	-0.5	-0.4	-0.3	3.1	-2.2	-0.2
5	0.6	2.4	3.3	3.4	3.1	3.3	3.4	2.8	2.1	0.6	0.0	0.8	1.0	0.4	0.1	0.1	-0.4	-1.4	-1.5	-1.6	-2.1	-2.2	-2.8	-3.2	3.4	-3.2	0.5
6	-3.1	-3.1	-2.2	-2.9	-3.3	-3.2	-2.7	-2.7	-2.9	-2.8	-2.2	-0.8	-1.1	-0.9	-0.7	-0.6	-0.8	-1.1	-0.9	-0.7	-1.0	-1.3	-1.2	-1.4	-0.6	-3.3	-1.8
7	-0.3	-1.4	-2.3	-2.1	-2.6	-2.8	-2.6	-2.3	-1.4	-0.8	2.7	4.5	4.5	3.7	2.6	2.7	3.0	2.6	2.7	3.7	3.8	3.7	3.5	3.4	4.5	-2.8	1.2
8	4.1	4.6	4.6	4.5	4.7	4.4	4.0	4.0	4.3	4.6	5.2	4.9	5.1	5.2	3.7	3.2	2.6	2.0	1.2	1.4	0.9	0.4	0.5	0.1	5.2	0.1	3.3
9	-0.2	0.2	0.5	0.4	0.1	0.2	0.2	0.1	0.4	0.3	0.3	0.5	0.9	1.0	0.9	0.7	0.3	0.0	-0.3	-1.0	-0.8	-0.6	-0.5	-0.1	1.0	-1.0	0.1
10	0.1	0.0	0.1	0.0	0.0	0.2	0.3	-0.1	-0.4	-0.2	0.6	0.7	0.9	0.9	0.7	0.3	-0.6	-1.2	-1.5	-1.8	-2.0	-2.1	-2.2	-2.2	0.9	-2.2	-0.4
11	-2.6	-2.8	-2.3	-2.4	-2.2	-2.3	-2.6	-2.7	-2.8	-2.8	-2.4	-1.9	-1.6	-1.5	-1.4	-1.5	-1.6	-1.7	-2.0	-2.2	-2.7	-2.7	-2.8	-2.7	-1.4	-2.8	-2.3
12	-2.9	-2.7	-2.9	-2.9	-2.9	-3.2	-3.8	-4.0	-4.0	-4.3	-4.6	-4.0	-3.9	-3.9	-4.1	-4.4	-4.6	-5.0	-5.4	-5.5	-5.5	-5.6	-5.7	-5.7	-2.7	-5.7	-4.2
13	-5.7	-5.8	-6.0	-6.5	-6.6	-6.6	-6.9	-7.3	-7.7	-7.9	-7.9	-7.3	-7.0	-6.9	-7.2	-7.5	-8.0	-8.7	-9.3	-9.2	-9.2	-8.7	-9.0	-8.8	-5.7	-9.3	-7.6
14	-8.3	-7.9	-7.7	-7.3	-6.4	-5.1	-4.1	-3.8	-4.0	-3.9	-4.0	-3.8	-3.8	-3.6	-3.5	-4.2	-4.3	-4.3	-4.3	-4.4	-4.5	-4.3	-4.4	-4.4	-3.5	-8.3	-4.8
15	-4.3	-4.0	-3.9	-3.5	-3.2	-3.1	-3.1	-2.2	-1.4	-1.4	-0.4	-0.7	0.0	0.2	0.4	0.7	1.1	0.6	0.6	0.6	0.7	1.0	0.9	1.2	1.2	-4.3	-1.0
16	1.3	1.4	1.7	2.0	2.2	2.5	2.4	2.5	2.5	2.7	2.9					1.8	1.0	0.3	-0.5	-0.7	-1.2	-1.7	-1.7	-2.1	2.9	-2.1	1.0
17	-2.7	-2.5	-1.9	-1.8	-1.7	-1.9	-1.3	-1.1	-1.3	-1.4	-1.6	-1.4	-1.4	-1.3	-0.2	-0.2	-0.4	-1.2	-1.3	-2.3	-4.2	-5.8	-6.7	-7.1	-0.2	-7.1	-2.2
18	-7.2	-7.1	-6.9	-6.8	-7.0	-7.2	-7.3	-7.9	-7.9	-8.3	-8.3	-7.7	-7.5	-7.5	-7.3	-7.2	-7.7	-8.6	-9.1	-10.0	-10.3	-10.2	-10.0	-9.8	-6.8	-10.3	-8.1
19	-10.5	-10.6	-10.0	-9.9	-10.3	-11.4	-11.5	-11.5	-11.3	-11.4	-11.1	-10.8	-11.3	-11.2	-11.1	-11.2	-11.4	-11.3	-11.4	-11.6	-12.5	-11.8	-11.1	-11.0	-9.9	-12.5	-11.1
20	-11.5	-11.3	-10.7	-10.5	-10.2	-10.0	-10.2	-10.5	-10.4	-10.7	-10.7	-10.2	-9.6	-9.2	-8.7	-8.6	-8.5	-8.4	-8.6	-8.7	-8.7	-8.7	-8.7	-8.6	-8.4	-11.5	-9.7
21	-8.6	-8.4	-7.9	-7.2	-6.7	-6.5	-5.7	-5.3	-4.7	-4.5	-4.8	-5.2	-5.1	-5.3	-6.0	-6.9	-7.2	-8.7	-9.3	-10.0	-13.1	-14.6	-16.0	-17.4	-4.5	-17.4	-8.1
22	-19.2	-20.4	-21.3	-21.7	-22.4	-23.3	-23.5	-23.8	-23.4	-23.5	-23.4	-23.5	-23.4	-22.7	-22.6	-22.6	-22.4	-22.3	-21.9	-21.7	-21.2	-20.9	-20.5	-20.2	-19.2	-23.8	-22.1
23	-20.1	-20.1	-19.3	-19.4	-19.3	-19.0	-19.1	-19.1	-18.8	-18.4	-18.2	-18.5	-18.1	-18.4	-18.3	-18.4	-19.0	-19.1	-19.0	-19.2	-18.8	-18.6	-18.4	-18.5	-18.1	-20.1	-18.9
24	-18.1	-18.1	-18.0	-18.2	-18.2	-18.4	-18.5	-18.1	-18.0	-18.2	-17.8	-17.4	-16.6	-16.1	-15.9	-15.9	-16.5	-17.0	-17.2	-17.3	-17.6	-17.8	-17.8	-17.8	-15.9	-18.5	-17.5
25	-18.0	-17.9	-18.2	-18.5	-18.5	-18.5	-18.4	-18.6	-18.5	-18.1	-17.1	-15.8	-14.7	-13.9	-13.5	-13.7	-15.3	-16.4	-17.0	-17.7	-18.0	-18.6	-18.8	-18.8	-13.5	-18.8	-17.2
26	-18.8	-18.7	-18.8	-19.0	-19.2	-19.4	-19.5	-19.8	-20.0	-19.7	-19.1	-18.9	-18.7	-18.0	-18.0	-17.4	-17.6	-18.0	-18.1	-18.1	-17.9	-18.1	-18.6	-18.2	-17.4	-20.0	-18.6
27	-19.1	-18.2	-19.4	-20.8	-21.3	-22.1	-22.3	-22.7	-22.6	-22.0	-22.2	-22.2	-22.7	-22.7	-23.0	-23.5	-24.1	-23.9	-23.7	-24.0	-23.6	-22.7	-23.0	-22.6	-18.2	-24.1	-22.3
28	-22.7	-22.5	-22.6	-22.6	-23.0	-22.7	-22.8	-22.2	-22.0	-22.0	-21.5	-22.2	-21.5	-20.4	-17.9	-19.8	-20.5	-20.8	-21.2	-21.1	-20.8	-20.7	-21.1	-21.4	-17.9	-23.0	-21.5
29	-21.1	-21.2	-20.8	-20.8	-20.7	-20.5	-20.4	-20.4	-20.6	-20.8	-20.5	-19.8	-19.4	-18.6	-18.0	-17.5	-17.5	-18.5	-18.6	-18.4	-18.7	-19.0	-19.1	-18.8	-17.5	-21.2	-19.6
30	-18.4	-18.6	-18.7	-18.9	-18.7	-18.5	-18.1	-17.8	-18.4	-18.6	-18.8	-18.2	-16.8	-15.7	-14.7	-13.7	-13.8	-14.5	-14.6	-14.4	-12.0	-10.8	-10.1	-9.2	-9.2	-18.9	-15.9
31	-8.8	-8.7	-8.7	-8.7	-8.9	-9.2	-9.2	-9.4	-9.6	-10.7	-11.4	-11.5	-11.2	-10.8	-11.3	-11.2	-11.6	-12.0	-13.3	-14.7	-15.1	-15.7	-16.3	-16.6	-8.7	-16.6	-11.4
Max.	**4.1**	**4.6**	**4.6**	**4.5**	**4.7**	**4.4**	**4.0**	**4.3**	**4.3**	**4.6**	**5.2**	**4.9**	**5.1**	**5.2**	**3.9**	**3.9**	**3.9**	**4.1**	**4.0**	**4.0**	**4.0**	**3.7**	**3.5**	**3.4**	**5.2**		
Min.	**-22.7**	**-22.5**	**-22.6**	**-22.6**	**-23.0**	**-23.3**	**-23.5**	**-23.8**	**-23.4**	**-23.5**	**-23.4**	**-23.5**	**-23.4**	**-22.7**	**-23.0**	**-23.5**	**-24.1**	**-23.9**	**-23.7**	**-24.0**	**-23.6**	**-22.7**	**-23.0**	**-22.6**		**-24.1**	
Avg.	**-7.5**	**-7.5**	**-7.5**	**-7.6**	**-7.6**	**-7.6**	**-7.5**	**-7.6**	**-7.6**	**-7.7**	**-7.4**	**-7.4**	**-7.1**	**-6.9**	**-6.8**	**-6.7**	**-7.0**	**-7.4**	**-7.7**	**-7.8**	**-8.0**	**-8.0**	**-8.2**	**-8.2**			**-7.5**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-16.6	-16.6	-16.2	-16.1	-15.7	-16.0	-15.9	-16.3	-16.7	-18.1	-18.1	-17.5	-17.0	-17.3	-18.0	-18.0	-17.3	-18.8	-18.8	-19.0	-19.4	-19.3	-19.0	-18.0	-15.7	-19.4	-17.5
2	-18.3	-19.2	-19.3	-19.4	-19.5	-18.7	-19.0	-19.1	-19.4	-18.9	-17.9	-16.7	-17.6	-17.8	-17.5	-16.9	-17.3	-18.1	-17.8	-18.1	-17.8	-16.6	-15.1	-13.6	-13.6	-19.5	-17.9
3	-13.1	-12.1	-12.0	-11.8	-11.4	-10.9	-10.6	-10.4	-10.2	-9.8	-9.6	-9.5	-9.5	-9.2	-8.6	-7.9	-7.8	-7.6	-7.3	-7.1	-7.0	-7.0	-6.6	-6.2	-6.2	-13.1	-9.3
4	-6.0	-6.0	-5.9	-6.2	-6.3	-5.3	-4.9	-4.8	-4.5	-4.2	-3.7	-3.2	-3.1	-3.1	-3.3	-3.3	-3.0	-2.9	-3.0	-3.2	-3.1	-2.9	-2.9	-3.1	-2.9	-6.3	-4.1
5	-3.1	-2.9	-2.6	-2.6	-2.8	-2.9	-2.6	-2.3	-2.3	-1.4	-1.2	-1.5	-1.0	-0.2	0.1	1.2	1.6	2.0	0.9	0.6	0.7	0.2	0.4	0.8	2.0	-3.1	-0.9
6	1.1	1.3	1.1	1.1	1.4																				1.4	1.1	1.2
7					-3.7	-4.3	-5.2	-3.7	-2.4	-2.6	-3.0	-2.8	-3.2	-3.6	-3.8	-3.7	-4.2	-4.3	-4.7	-4.5	-4.3	-4.3	-4.3	-3.7	-2.4	-5.2	-3.8
8	-3.3	-3.2	-5.9	-5.5	-7.2	-7.1	-7.1	-6.9	-5.8	-2.8	-2.2	-2.3	-1.7	-1.8	-1.0	-0.7	-1.1	-1.7	-1.1	-1.3	-0.6	-0.3	0.0	0.3	0.3	-7.2	-2.9
9	0.4	0.3	0.1	-0.3	-0.9	-0.8	-1.8	-1.5	-1.6	-1.7	-1.5	-1.0	-0.3	0.3	0.9	1.1	1.9	2.4	2.5	2.6	2.8	1.9	2.4	2.4	2.8	-1.8	0.4
10	2.1	2.3	2.7	3.5	2.4	2.1	1.3	1.1	0.9	0.9	1.2	2.1	1.7	1.6	2.7	3.8	3.5	3.3	3.2	3.3	3.4	3.4	3.1	1.3	3.8	0.9	2.4
11	1.3	2.3	2.7	2.0	3.1	2.4	2.1	2.6	3.3	3.7	2.8	2.2	2.0	2.4	3.0	3.2	3.3	3.1	3.5	3.7	4.2	4.6	4.7	5.0	5.0	1.3	3.1
12	4.7	4.6	4.1	1.9	1.8	2.7	2.5	1.7	1.4	1.6	1.2	0.3	-0.1	-0.7	-1.1	-1.4	-1.7	-2.2	-2.9	-3.0	-2.6	-1.8	-1.5	-2.2	4.7	-3.0	0.3
13	-3.5	-5.2	-5.4	-5.4	-5.0	-4.2	-3.8	-3.9	-3.6	-2.8	-1.8	-1.8	-1.3	0.6	0.3	1.4	0.9	2.0	2.1	2.6	3.0	3.4	3.3	3.5	3.5	-5.4	-1.0
14	3.5	4.1	4.1	4.4	4.3	4.2	4.2	4.3	3.7	3.3	3.4	3.2	3.5	3.7	4.0	3.9	3.8	3.8	3.7	3.6	3.6	3.5	3.6	3.6	4.4	3.2	3.8
15	4.1	4.7	4.5	5.4	5.8	5.7	5.6	5.6	6.1	6.3	6.2	4.6	2.0	4.6	4.6	4.6	4.4	4.0	2.3	1.5	2.1	2.0	1.5	0.3	6.3	0.3	4.1
16	0.1	0.2	0.3	0.3	0.6	0.9	1.3	1.4	0.8	0.4	0.8	0.9	0.5	1.1	0.8	1.6	2.7	2.2	1.9	1.0	0.2	-0.1	0.1	0.2	2.7	-0.1	0.8
17	0.2	0.8	1.1	1.3	1.4	1.9	2.5	2.1	1.7	1.8	2.3	2.7	3.4	3.4	3.3	3.0	2.7	2.3	2.3	2.2	2.1	2.3	3.0	2.9	3.4	0.2	2.2
18	3.0	2.3	2.0	2.3	2.4	2.3	2.8	2.2	3.6	3.8	3.8	3.4	3.0	2.8	3.0	2.6	2.4	1.9	0.9	0.5	0.6	0.2	0.2	0.5	3.8	0.2	2.2
19	0.6	1.2	4.0	3.3	2.7	2.2	1.8	1.6	1.1	0.6	0.7	1.1	1.8	2.1	2.1	2.1	2.1	2.3	2.4	2.3	1.8	1.4	1.2	1.0	4.0	0.6	1.8
20	0.7	0.5	0.4	0.2	0.3	0.4	0.4	0.4	0.1	0.4	1.1	1.5	1.9	1.4	0.9	0.9	0.8	0.8	0.8	0.2	-0.4	-1.0	-1.5	-2.2	1.9	-2.2	0.4
21	-2.1	-2.6	-3.0	-3.6	-3.9	-4.1	-4.4	-4.8	-4.9	-4.0	-3.4	-2.7	-2.5	-2.4	-2.3	-2.4	-2.3	-2.3	-2.4	-2.5	-2.5	-2.4	-2.3	-2.3	-2.1	-4.9	-3.0
22	-2.4	-2.6	-3.0	-3.1	-3.5	-4.1	-3.5	-3.6	-3.6	-3.4	-2.8	-2.2	-1.7	-1.6	-1.6	-1.5	-1.7	-2.2	-3.3	-3.9	-3.4	-3.2	-2.9	-3.0	-1.5	-4.1	-2.8
23	-3.1	-3.5	-3.4	-3.7	-3.6	-3.7	-3.8	-3.5	-3.4	-2.4	-1.6	-1.6	-1.3	-1.0	-1.5	-1.5	-1.5	-2.0	-2.5	-3.8	-4.1	-3.5	-3.4	-4.1	-1.0	-4.1	-2.8
24	-4.9	-5.4	-5.6	-5.8	-5.9	-6.4	-7.1	-7.1	-6.8	-6.6	-6.7	-5.9	-5.4	-5.2	-5.0	-4.7	-4.9	-5.7	-6.3	-7.0	-7.3	-7.4	-7.9	-8.1	-4.7	-8.1	-6.2
25	-8.4	-8.4	-7.7	-7.1	-6.8	-6.5	-6.7	-7.0	-6.5	-5.5	-4.9	-4.7	-4.0	-3.5	-0.9	0.8	0.3	-1.3	-2.4	-3.0	-3.0	-3.1	-3.3	-3.7	0.8	-8.4	-4.5
26	-3.9	-3.8	-3.9	-3.6	-3.5	-4.3	-5.0	-4.4	-4.3	-4.0	-3.6	-3.5	-3.3	-2.8	-2.4	-2.3	-2.5	-2.7	-3.4	-4.1	-4.4	-4.8	-5.2	-5.3	-2.3	-5.3	-3.8
27	-5.4	-5.6	-5.9	-6.2	-6.2	-6.4	-6.5	-6.5	-6.1	-5.9	-5.5	-5.7	-5.4	-5.8	-7.0	-7.6	-7.7	-8.0	-8.4	-8.4	-8.4	-8.8	-9.3	-9.5	-5.4	-9.5	-6.9
28	-9.5	-10.2	-10.2	-10.7	-11.0	-11.6	-11.9	-12.0	-11.7	-11.5	-10.7	-10.5	-9.8	-9.4	-9.5	-9.8	-9.8	-9.7	-9.8	-9.9	-9.7	-9.5	-10.1	-11.0	-9.4	-12.0	-10.4
Max.	**4.7**	**4.7**	**4.5**	**5.4**	**5.8**	**5.7**	**5.6**	**5.6**	**6.1**	**6.3**	**6.2**	**4.6**	**3.5**	**4.6**	**4.6**	**4.6**	**4.4**	**4.0**	**3.7**	**3.7**	**4.2**	**4.6**	**4.7**	**5.0**	**6.3**		
Min.	**-18.3**	**-19.2**	**-19.3**	**-19.4**	**-19.5**	**-18.7**	**-19.0**	**-19.1**	**-19.4**	**-18.9**	**-18.1**	**-17.5**	**-17.6**	**-17.8**	**-18.0**	**-18.0**	**-17.3**	**-18.8**	**-18.8**	**-19.0**	**-19.4**	**-19.3**	**-19.0**	**-18.0**		**-19.5**	
Avg.	**-3.0**	**-3.1**	**-3.1**	**-3.1**	**-3.2**	**-3.4**	**-3.5**	**-3.5**	**-3.4**	**-3.1**	**-2.8**	**-2.6**	**-2.5**	**-2.3**	**-2.1**	**-1.9**	**-1.9**	**-2.2**	**-2.5**	**-2.8**	**-2.7**	**-2.7**	**-2.7**	**-2.8**			**-2.7**

Total Hours in Month 672 **Hours Data Available** 649 **Data Recovery** 96.6%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-11.6	-11.3	-11.7	-11.9	-12.0	-12.0	-12.4	-12.6	-12.9	-12.0	-11.6	-10.9	-9.8	-8.3	-7.3	-6.9	-6.6	-6.7	-6.5	-6.8	-6.9	-6.8	-6.7	-6.8	-6.5	-12.9	-9.5
2	-6.8	-6.5	-6.3	-6.3	-6.4	-6.7	-6.9	-6.8	-7.2	-7.0	-6.6	-6.2	-5.8	-5.3	-4.3	-3.1	-2.4	-2.0	-1.5	-1.3	-1.0	-0.9	-1.1	-1.3	-0.9	-7.2	-4.6
3	-1.3	-1.3	-1.1	-0.7	-0.8	-0.9	-1.1	-0.6	-0.4	-0.3	-0.3	-0.5	-0.4	-0.4	-0.4	-0.2	-0.5	-0.3	-0.5	-0.7	-0.8	-1.0	-1.4	-1.5	-0.2	-1.5	-0.7
4	-1.4	-1.6	-1.6	-1.8	-2.1	-2.0	-1.8	-1.7	-1.7	-2.0	-1.6	-1.2	-0.3	0.4	0.0	-0.3	-0.4	-1.0	-1.2	-1.3	-1.2	-1.3	-1.4	-1.4	0.4	-2.1	-1.2
5	-1.3	-1.6	-1.1	-1.4	-1.3	-0.9	-0.6	-0.7	-1.0	-0.9	-0.1	0.6	0.5	0.3	0.2	0.5	0.4	0.3	0.0	-0.2	-0.5	-0.8	-1.0	-1.0	0.6	-1.6	-0.5
6	-1.1	-1.9	-2.1	-2.6	-2.9	-3.2	-3.6	-3.8	-3.5	-3.6	-3.4	-3.1	-3.1	-2.4	-2.7	-2.5	-2.8	-3.4	-4.5	-5.8	-6.0	-6.0	-5.8	-5.3	-1.1	-6.0	-3.5
7	-5.3	-5.3	-5.3	-5.4	-5.5	-5.4	-5.6	-5.7	-6.1	-6.4	-6.2	-5.3	-4.8	-5.1	-5.3	-5.4	-6.4	-6.9	-7.1	-7.4	-7.5	-7.7	-8.5	-8.8	-4.8	-8.8	-6.2
8	-9.3	-9.2	-9.4	-9.4	-10.8	-11.2	-11.0	-10.1	-10.1	-9.3	-8.8	-8.0	-7.1	-6.4	-6.7	-6.9	-7.7	-8.1	-8.1	-8.2	-8.0	-7.7	-7.7	-7.3	-6.4	-11.2	-8.6
9	-8.8	-8.6	-8.1	-7.7	-9.6	-11.5	-11.2	-10.5	-11.1	-10.8	-10.1	-9.8	-8.9	-9.1	-8.7	-8.4	-8.4	-8.2	-7.5	-7.7	-7.6	-7.6	-8.1	-8.4	-7.5	-11.5	-9.0
10	-9.2	-10.0	-10.3	-11.0	-11.1	-11.3	-11.6	-12.3	-10.9	-10.0	-8.7	-7.8	-6.7	-5.9	-5.5	-5.0	-4.3	-4.3	-4.2	-4.6	-4.7	-4.0	-3.9	-3.6	-3.6	-12.3	-7.5
11	-3.7	-3.7	-3.4	-3.5	-3.6	-4.0	-4.4	-4.5	-4.6	-3.8	-3.8	-3.8	-3.6	-3.0	-2.4	-2.2	-2.4	-2.8	-3.3	-3.5	-3.5	-3.7	-3.5	-3.2	-2.2	-4.6	-3.5
12	-3.0	-3.2	-3.0	-2.8	-2.6	-2.1	-2.3	-1.8	-1.6	-1.3	-1.0	-1.1	-0.6	-0.2	-0.4	-0.5	-0.1	0.3	0.3	0.0	0.0	-0.5	-0.7	-1.1	0.3	-3.2	-1.2
13	-1.3	-1.6	-1.9	-2.1	-3.2	-3.3	-3.7	-3.7	-2.7	-2.7	-1.9	-1.5	-1.2	-1.0	-1.1	-0.9	-1.0	-1.8	-2.1	-2.6	-3.5	-4.2	-5.3	-5.9	-0.9	-5.9	-2.5
14	-6.6	-5.4	-5.3	-5.3	-5.1	-5.3	-5.8	-5.8	-5.0	-4.4	-3.9	-2.9	-2.4	-1.8	-1.5	-1.1	-0.6	-1.4	-2.4	-3.7	-4.8	-5.5	-6.2	-6.5	-0.6	-6.6	-4.1
15	-6.1	-6.1	-6.0	-6.0	-6.1	-6.5	-6.9	-7.2	-7.1	-6.3	-5.5	-4.4	-3.8	-3.4	-3.0	-2.4	-2.2	-2.7	-3.0	-4.4	-4.7	-4.9	-4.6	-4.4	-2.2	-7.2	-4.9
16	-4.8	-4.8	-4.5	-4.6	-4.6	-4.5	-4.7	-5.0	-4.9	-4.4	-4.1	-3.6	-3.2	-2.9	-2.7	-2.2	-2.7	-2.9	-3.4	-4.6	-5.0	-4.9	-5.0	-5.5	-2.2	-5.5	-4.1
17	-5.7	-5.9	-6.5	-6.5	-7.0	-6.4	-6.7	-6.6	-5.9	-5.4	-5.1	-4.8	-4.8	-4.9	-5.0	-4.8	-4.6	-4.3	-4.2	-4.1	-4.4	-4.4	-4.1	-4.1	-4.1	-7.0	-5.3
18	-4.4	-4.3	-4.0	-4.2	-4.4	-4.1	-4.0	-3.9	-3.7	-3.4	-2.9	-2.3	-1.6	-1.8	-1.2	-0.8	-1.1	-1.4	-1.4	-1.6	-2.0	-2.2	-3.2	-3.5	-0.8	-4.4	-2.8
19	-3.1	-3.9	-4.0	-4.0	-4.7	-5.1	-5.3	-5.3	-4.3	-3.5	-3.3	-2.4	-1.6	-1.6	-1.1	-1.4	-1.4	-1.2	-1.1	-1.6	-2.8	-2.7	-2.4	-2.7	-1.1	-5.3	-2.9
20	-2.4	-2.2	-2.2	-2.1	-2.0	-2.2	-2.0	-1.7	-1.3	-1.0	-1.1	-0.6	-0.2	-0.2	-0.7	-0.6	0.5	0.5	0.4	0.6	0.2	0.3	0.3	-0.1	0.6	-2.4	-0.8
21	-0.3	-0.5	-1.3	-2.1	-1.9	-2.0	-2.1	-2.5	-2.7	-2.5	-2.2	-1.5	-0.8	-0.1	0.6	1.3	0.9	0.5	0.4	-0.6	-1.4	-2.0	-2.0	-2.0	1.3	-2.7	-1.1
22	-1.7	-2.1	-2.5	-2.8	-3.1	-3.1	-3.5	-4.2	-2.7	-3.1	-3.3	-1.5	-1.5	-1.2	-1.1	-0.6	-0.5	-1.1	-1.4	-1.8	-2.5	-2.7	-3.0	-3.3	-0.5	-4.2	-2.3
23	-3.5	-3.9	-4.0	-4.6	-4.9	-4.6	-4.4	-3.7	-3.0	-2.8	-2.4	-1.8	-1.0	-1.1	0.7	0.8	0.7	0.1	-0.9	-1.4	-3.2	-3.5	-3.6	-3.8	0.8	-4.9	-2.5
24	-3.9	-4.2	-4.7	-5.1	-5.1	-5.3	-5.6	-5.2	-4.8	-4.7	-3.5	-2.5	-1.7	-1.1	-0.5	-0.4	-0.3	-0.9	-1.6	-2.5	-2.9	-2.9	-2.8	-2.7	-0.3	-5.6	-3.1
25	-2.4	-2.2	-2.2	-2.6	-3.3	-3.9	-4.0	-4.3	-4.1	-3.7	-3.1	-2.0	-1.3	-0.9	-1.0	-0.7	-0.5	-0.9	-1.4	-2.1	-2.6	-2.6	-2.2	-2.1	-0.5	-4.3	-2.3
26	-2.3	-2.4	-2.4	-2.5	-2.5	-2.9	-3.7	-4.3	-4.5	-4.3	-3.0	-2.0	-1.5	-1.0	-0.6	-0.3	0.0	-1.0	-1.4	-2.3	-3.3	-3.6	-3.9	-4.0	0.0	-4.5	-2.5
27	-4.0	-3.8	-3.2	-3.4	-3.1	-3.3	-3.8	-2.4	-1.0	-0.7	0.7	1.4	1.7	1.6	1.8	1.9	2.3	1.5	1.1	0.9	-0.9	-2.5	-2.6	-2.1	2.3	-4.0	-0.9
28	-2.6	-2.0	-1.5	-1.0	-1.7	-1.0	-0.8	0.2	0.1	-0.5	0.8	1.2	1.5	1.5	1.4	1.9	2.0	1.3	1.1	0.4	-0.7	-1.5	-2.2	-2.4	2.0	-2.6	-0.2
29	-0.9	-0.5	-1.0	-0.7	-1.0	-1.3	-1.9	-1.8	-1.4	-0.8	0.2	0.8	1.5	1.8	1.3	1.6	1.8	1.0	0.5	0.0	-1.4	-2.8	-2.5	-1.8	1.8	-2.8	-0.4
30	-1.7	-1.8	-0.4	0.9	0.8	0.6	-0.1	-0.3	-0.3	1.0	1.0	1.7	0.9	1.3	1.2	0.8	0.8	0.8	0.9	1.1	0.9	0.7	1.0	0.9	1.7	-1.8	0.5
31	1.0	1.0	1.2	1.2	1.2	1.1	1.3	1.4	1.4	1.5	1.4	1.2	1.5	1.6	1.7	1.8	1.9	1.6	1.5	0.1	-0.4	-1.0	-1.2	-1.2	1.9	-1.2	1.0
Max.	**1.0**	**1.0**	**1.2**	**1.2**	**1.2**	**1.1**	**1.3**	**1.4**	**1.4**	**1.5**	**1.4**	**1.7**	**1.7**	**1.8**	**1.8**	**1.9**	**2.3**	**1.6**	**1.5**	**1.1**	**0.9**	**0.7**	**1.0**	**0.9**	**2.3**		
Min.	**-11.6**	**-11.3**	**-11.7**	**-11.9**	**-12.0**	**-12.0**	**-12.4**	**-12.6**	**-12.9**	**-12.0**	**-11.6**	**-10.9**	**-9.8**	**-9.1**	**-8.7**	**-8.4**	**-8.4**	**-8.2**	**-8.1**	**-8.2**	**-8.0**	**-7.7**	**-8.5**	**-8.8**		**-12.9**	
Avg.	**-3.9**	**-3.9**	**-3.9**	**-3.9**	**-4.2**	**-4.3**	**-4.5**	**-4.4**	**-4.2**	**-3.8**	**-3.3**	**-2.7**	**-2.3**	**-1.9**	**-1.7**	**-1.5**	**-1.5**	**-1.8**	**-2.0**	**-2.5**	**-3.0**	**-3.3**	**-3.4**	**-3.4**			**-3.1**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

April *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-1.2	-1.2	-1.0	-0.8	-0.5	-0.4	-0.4	-0.3	0.0	0.2	0.4	0.5	1.4	1.0	1.6	0.4	0.0	-0.6	-0.7	-0.7	-1.0	-1.2	-1.3	-1.4	1.6	-1.4	-0.3
2	-1.8	-1.5	-1.2	-1.3	-1.3	-1.7	-2.1	-2.2	-2.3	-1.9	-1.4	-0.7	-0.4	-0.1	0.1	-0.3	-0.4	-0.5	-0.7	-1.0	-1.1	-1.1	-1.3	-1.2	0.1	-2.3	-1.1
3	-2.0	-1.9	-1.1	-0.4	0.0	-0.1	0.2	0.5	0.5	1.2	1.5	1.1	1.0	0.9	1.3	1.9	1.8	1.6	1.7	1.7	1.6	2.0	2.2	2.1	2.2	-2.0	0.8
4	3.0	2.9	2.6	1.4	1.4	1.4	1.5	1.9	2.2	2.1	3.4	3.1	2.2	2.2	2.5	2.5	2.0	1.4	1.6	1.5	1.5	1.4	1.3	1.0	3.4	1.0	2.0
5	1.2	3.6	4.4	4.9	3.0	2.5	5.1	4.6	5.4	5.4	4.4	3.7	3.3	3.4	3.8	3.7	3.7	2.3	1.6	0.8	0.5	0.1	-0.5	-1.1	5.4	-1.1	2.9
6	-1.4	-1.7	-1.9	-2.2	-3.0	-3.8	-3.9	-3.4	-3.2	-2.1	-1.3	-0.9	-0.2	0.5	0.8	1.1	1.3	1.2	0.8	0.2	-0.6	-0.7	-0.5	-0.4	1.3	-3.9	-1.0
7	-0.1	0.1	0.2	0.5	0.8	1.7	1.9	2.0	1.8	1.7	2.0	3.4	3.6	4.0	4.4	4.4	4.8	4.5	3.9	4.2	3.7	3.6	3.8	3.8	4.8	-0.1	2.7
8	3.8	3.8	3.7	3.5	3.4	3.1	2.1	1.9	2.2	2.0	2.3	2.1	1.9	2.2	2.3	2.1	2.2	1.8	1.6	1.7	1.0	0.8	0.9	0.8	3.8	0.8	2.2
9	0.8	0.6	0.6	0.6	0.6	0.5	0.5	0.7	0.9	1.2	1.6	2.2	2.8	2.3	1.9	1.5	1.4	1.5	1.3	1.4	1.1	2.0	2.4	2.6	2.8	0.5	1.4
10	2.3	2.0	1.6	0.9	1.3	1.3	1.1	1.2	1.0	0.7	0.4	0.3	0.1	0.1	0.2	0.5	0.4	0.3	0.1	-0.1	-0.2	-0.4	-0.7	-0.9	2.3	-0.9	0.6
11	-1.2	-1.4	-1.9	-2.1	-1.5	-1.0	-1.8	-1.5	-1.2	-0.7	0.2	0.7	1.5	1.6	-0.2	-1.3	-1.1	-0.8	-0.9	-0.9	-0.7	-1.0	-1.0	-0.8	1.6	-2.1	-0.8
12	-0.6	-0.4	-0.3	-0.2	-0.3	-0.4	-0.4	0.0	0.2	0.2	0.5	0.7	0.6	0.5	0.4	0.4	0.3	0.5	0.4	0.4	0.4	0.6	1.0	1.0	1.0	-0.6	0.2
13	0.8	0.6	0.0	-0.1	-0.3	0.0	0.4	0.8	1.0	1.6	2.2	2.5	2.5	2.5	2.7	2.3	1.6	1.0	0.7	0.6	0.2	-0.1	0.0	0.2	2.7	-0.3	1.0
14	0.2	-0.1	-0.5	-0.9	-1.4	-2.2	-2.6	-2.7	-2.8	-2.7	-2.3	-2.1	-1.9	-1.6	-1.1	-0.6	-0.1	0.1	0.3	0.4	0.3	-0.3	-0.4	-0.6	0.4	-2.8	-1.1
15	-1.1	-1.9	-1.9	-2.4	-3.1	-3.2	-2.5	-2.4	-2.8	-3.4	-2.9	-3.3	-3.4	-2.6	-2.8	-2.4	-2.3	-2.7	-2.6	-2.9	-3.4	-4.3	-5.3	-5.1	-1.1	-5.3	-3.0
16	-5.6	-5.5	-5.3	-4.8	-3.8	-3.0	-2.8	-2.1	-1.6	-1.3	-1.0	-0.7	-0.6	0.0	0.3	0.4	-1.1	-1.3	-0.8	-0.4	-0.1	1.0	-0.1	-0.2	1.0	-5.6	-1.7
17	-0.5	-0.2	-0.1	0.2	0.2	0.2	0.4	-0.1	-0.2	0.6	0.8	1.3	2.7	2.0	2.1	2.0	1.9	2.4	2.9	2.5	1.8	1.3	0.8	1.0	2.9	-0.5	1.1
18	0.6	0.5	-0.2	-0.5	-1.0	-0.9	-0.4	0.6	1.3	1.9	2.7	2.9	3.2	3.5	3.6	3.7	3.7	3.1	2.5	4.0	4.0	3.7	3.1	2.5	4.0	-1.0	2.0
19	2.7	1.7	0.7	0.1	-0.4	-0.7	-0.5	0.3	1.1	1.5	1.5	1.7	1.8	2.2	2.7	2.7	2.2	1.5	0.8	0.3	-0.4	-1.3	-2.5	-1.9	2.7	-2.5	0.7
20	-2.9	-3.2	-2.4	-1.9	-1.5	-1.2	-0.7	-0.4	0.0	0.3	0.6	1.4	2.3	2.1	1.8	1.0	1.5	2.0	1.4	0.8	0.7	0.8	0.8	0.6	2.3	-3.2	0.2
21	0.6	0.5	0.7	0.6	0.7	0.9	1.1	1.1	1.1	1.4	2.2	1.9	1.9	2.3	3.7	4.5	4.0	3.3	2.3	1.6	2.2	2.8	2.8	2.9	4.5	0.5	2.0
22	2.7	2.5	1.6	1.8	1.5	1.2	1.3	1.7	1.7	2.1	1.5	2.1	2.9	3.8	4.2	4.4	3.7	3.3	3.1	3.0	2.7	2.2	2.0	1.7	4.4	1.2	2.4
23	0.7	0.8	1.0	1.1	0.9	0.5	0.7	0.6	0.5	0.7	2.2	3.4	3.1	4.5	5.1	4.4	4.5	4.7	4.2	4.8	4.6	4.4	4.4	4.5	5.1	0.5	2.8
24	4.2	3.3	2.6	2.1	2.3	1.8	2.2	2.0	2.2	3.2	3.6	3.3	2.9	3.1	3.2	3.0	2.9	2.5	1.9	1.1	0.5	0.2	-0.2	-0.7	4.2	-0.7	2.2
25	-1.2	-1.4	-2.0	-2.6	-2.5	-2.8	-2.0	-1.7	-1.3	-0.5	1.0	1.8	2.0	0.8	1.0	1.3	1.4	1.5	1.2	1.7	1.9	1.5	1.9	2.0	2.0	-2.8	0.1
26	1.8	2.0	2.8	2.7	2.6	2.3	2.6	3.1	3.9	4.3	4.6	5.0	5.2	5.3	5.6	5.9	6.0	5.9	5.8	5.7	5.4	5.0	4.3	4.4	6.0	1.8	4.3
27	5.1	4.9	4.5	4.5	4.5	4.6	4.7	5.0	5.4	6.0	6.5	6.1	6.4	6.4	6.7	7.6	7.5	6.9	5.9	5.2	4.8	3.5	3.5	3.9	7.6	3.5	5.4
28	3.8	4.2	4.2	3.6	3.0	3.1	3.1	2.9	3.0	1.8	0.4	1.5	2.1	2.2	2.7	2.7	2.7	2.8	3.1	2.6	2.2	0.9	0.5	0.1	4.2	0.1	2.5
29	-0.2	0.1	2.0	2.0	1.8	1.8	2.6	1.9	2.0	3.0	3.5	4.2	4.5	4.5	5.0	5.0	5.2	5.0	5.1	5.3	5.3	4.8	3.4	2.5	5.3	-0.2	3.3
30	1.9	1.4	1.6	1.1	0.8	0.7	0.9	1.4	2.6	2.8	3.7	4.4	5.1	5.6	5.6	5.3	4.1	4.3	4.1	4.4	4.2	3.7	3.6	3.3	5.6	0.7	3.2
Max.	**5.1**	**4.9**	**4.5**	**4.9**	**4.5**	**4.6**	**5.1**	**5.0**	**5.4**	**6.0**	**6.5**	**6.1**	**6.4**	**6.4**	**6.7**	**7.6**	**7.5**	**6.9**	**5.9**	**5.7**	**5.4**	**5.0**	**4.4**	**4.5**	**7.6**		
Min.	**-5.6**	**-5.5**	**-5.3**	**-4.8**	**-3.8**	**-3.8**	**-3.9**	**-3.4**	**-3.2**	**-3.4**	**-2.9**	**-3.3**	**-3.4**	**-2.6**	**-2.8**	**-2.4**	**-2.3**	**-2.7**	**-2.6**	**-2.9**	**-3.4**	**-4.3**	**-5.3**	**-5.1**		**-5.6**	
Avg.	**0.5**	**0.5**	**0.5**	**0.4**	**0.3**	**0.2**	**0.4**	**0.6**	**0.8**	**1.1**	**1.5**	**1.8**	**2.0**	**2.2**	**2.4**	**2.3**	**2.2**	**2.0**	**1.7**	**1.7**	**1.4**	**1.2**	**1.0**	**0.9**			**1.2**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.2	3.2	3.0	3.3	3.6	3.8	3.7	3.9	4.5	5.3	5.5	6.0	6.9	7.2	7.3	7.3	6.8	6.5	6.3	5.7	5.3	4.4	4.4	4.0	7.3	3.0	5.0
2	3.3	2.7	2.8	2.8	2.7	3.1	3.1	3.0	3.0	3.4	3.8	3.5	3.6	4.2	5.2	6.0	6.2	6.3	6.1	5.8	5.7	5.1	3.8	4.0	6.3	2.7	4.1
3	4.6	4.7	4.6	4.4	4.8	5.0	4.8	5.6	6.8	7.3	7.6	7.9	8.2	8.4	8.3	8.1	7.8	6.8	6.5	5.5	5.0	4.8	4.5	4.2	8.4	4.2	6.1
4	4.0	3.7	4.3	4.6	4.4	4.3	3.5	4.0	4.7	5.0	5.4	5.6	5.5	5.2	4.7	5.0	5.1	5.0	4.8	4.8	4.9	4.6	3.7	3.5	5.6	3.5	4.6
5	2.9	2.7	2.5	2.4	2.2	2.4	2.5	2.7	3.2	3.6	3.8	3.9	4.3	4.5	4.2	4.1	4.1	4.1	4.2	4.0	3.7	3.4	3.3	2.4	4.5	2.2	3.4
6	2.2	2.0	2.0	1.9	1.8	1.6	1.9	2.0	1.9	2.1	2.4	3.1	3.9	5.1	5.6	5.6	5.3	4.8	4.2	4.0	3.5	3.2	2.9	2.3	5.6	1.6	3.1
7	1.8	1.4	1.1	1.0	0.8	0.4	0.3	0.4	0.4	0.5	0.8	0.9	1.0	1.3	1.3	1.4	1.3	1.5	1.0	0.7	0.4	0.3	0.3	0.6	1.8	0.3	0.9
8	0.8	1.0	0.7	-0.4	-1.5	-0.5	0.1	0.5	1.2	1.4	0.9	1.4	1.5	2.3	3.1	3.5	3.8	4.0	4.3	4.2	4.3	4.9	4.6	4.2	4.9	-1.5	2.1
9	3.9	4.6	4.7	4.8	4.8	4.8	4.6	4.6	4.4	3.7	3.7	4.8	5.7	5.9	6.3	7.1	7.1	7.0	7.2	7.3	6.8	6.4	6.6	6.4	7.3	3.7	5.5
10	6.0	6.4	6.3	5.2	5.5	5.7	6.6	8.1	8.5	8.3	7.3	8.1	7.8	8.8	9.3	9.0	8.1	6.9	6.2	5.6	4.8	4.3	3.9	3.7	9.3	3.7	6.7
11	2.8	2.4	3.2	3.3	3.1	3.3	3.6	3.9	4.4	5.0	6.2	7.2	7.8	8.0	8.6	8.2	8.3	7.6	6.9	6.7	7.1	6.4	6.0	5.7	8.6	2.4	5.7
12	5.1	5.8	5.7	5.4	5.1	5.7	6.6	7.3	7.9	9.0	9.5	11.0	11.1	12.7	13.4	13.5	13.9	12.9	11.5	11.1	10.4	9.0	8.9	8.0	13.9	5.1	9.2
13	8.1	7.6	6.6	5.9	5.6	6.5	7.2	7.2	7.9	9.3	10.3	10.7	10.7	10.7	11.6	11.2	11.0	10.4	9.7	8.8	8.5	7.5	6.1	4.5	11.6	4.5	8.5
14	3.5	3.4	3.1	3.0	3.3	3.9	4.8	6.1	6.9	7.9	7.9	7.7	7.3	7.3	6.9	6.7	7.1	6.9	6.8	6.7	6.2	5.8	5.5	5.2	7.9	3.0	5.8
15	5.3	5.1	4.7	4.0	2.9	3.2	3.9	4.8	5.8	6.2	6.9	8.1	8.0	7.5	7.4	7.3	7.0	7.0	7.1	6.7	6.4	6.0	5.7	5.8	8.1	2.9	5.9
16	5.3	6.4	7.2	6.9	6.7	6.5	6.4	6.2	7.1	7.4	8.2	9.1	9.6	9.3	8.7	8.2	7.8	7.1	6.3	5.9	5.8	5.3	3.9	2.6	9.6	2.6	6.8
17	2.6	2.8	3.0	2.7	3.0	4.0	4.9	5.6	6.2	7.0	7.5	7.8	8.6	7.4	7.4	7.0	6.2	6.2	6.5	6.0	5.7	5.3	3.7	4.0	8.6	2.6	5.5
18	4.2	3.9	3.1	3.0	3.4	3.9	4.1	4.6	5.8	8.2	9.6	9.8	10.5	10.4	9.3	7.3	6.6	7.2	7.2	7.0	6.7	6.4	6.2	5.9	10.5	3.0	6.4
19	5.6	5.4	5.4	5.3	5.1	5.2	5.5	5.8	6.0	6.7	6.9	7.3	7.9	7.9	6.9	7.1	6.0	4.1	2.9	2.9	3.1	2.9	2.0	2.0	7.9	2.0	5.2
20	2.3	2.6	2.9	3.0	3.2	3.4	3.7	4.3	4.7	4.7	5.0	5.5	5.5	5.7	6.3	6.8	7.4	7.9	7.3	7.4	7.2	7.1	6.6	5.9	7.9	2.3	5.3
21	6.4	5.7	6.3	6.5	5.6	5.6	6.1	6.8	8.5	9.2	9.8	10.4	11.2	12.2	13.7	13.8	14.0	13.5	12.9	12.6	12.4	12.2	11.9	11.7	14.0	5.6	9.9
22	11.6	10.1	8.6	7.8	7.9	8.3	8.5	9.1	9.9	10.7	11.4	12.2	13.1	15.1	15.3	15.7	15.5	15.3	15.1	14.9	13.5	11.9	10.0	9.3	15.7	7.8	11.7
23	9.1	9.2	7.9	7.7	7.4	8.1	8.2	9.6	10.9	10.0	10.7	11.3	11.3	12.6	13.5	13.2	13.9	13.1	11.4	11.8	11.8	13.8	12.9	12.7	13.9	7.4	10.9
24	12.5	11.9	12.0	11.2	8.8	12.0	11.5	11.8	10.8	10.2	10.8	10.6	11.4	13.2	14.0	14.9	15.5	15.7	16.1	15.5	14.2	15.6	13.4	12.8	16.1	8.8	12.8
25	11.5	11.7	11.4	8.4	8.2	11.1	11.8	11.1	12.6	12.6	11.1	11.5	12.1	13.1	14.8	14.9	15.5	15.2	14.6	15.3	15.0	14.9	13.9	13.5	15.5	8.2	12.7
26	13.5	12.8	13.0	13.8	14.3	14.6	14.6	14.9	16.0	15.1	12.4	13.8	13.8	13.9	14.8	15.7	14.3	14.8	14.0	15.6	16.5	17.7	16.1	16.0	17.7	12.4	14.7
27	15.1	14.6	11.9	9.3	12.3	14.4	15.1	15.1	15.8	16.6	17.2	12.5	12.9	12.4	14.3	15.0	17.0	15.4	14.2	14.4	15.1	15.6	15.6	13.9	17.2	9.3	14.4
28	12.2	10.9	12.0	13.1	11.3	12.3	12.5	12.7	13.3	13.3	14.9	14.3	14.1	14.1	15.1	15.1	14.8	12.4	12.7	13.9	13.9	13.5	13.2	11.2	15.1	10.9	13.2
29	10.7	8.5	7.3	9.6	10.6	9.8	8.9	10.3	11.1	12.1	12.9	12.9	13.6	13.6	13.5	13.5	12.8	12.1	10.6	10.4	9.2	9.9	8.4	7.9	13.6	7.3	10.8
30	7.8	7.2	6.3	6.7	7.2	7.7	8.1	7.8	7.6	7.7	7.5	8.0	7.9	7.9	8.5	8.8	9.0	9.2	9.2	9.6	9.0	8.9	8.9	8.3	9.6	6.3	8.1
31	8.0	8.1	8.0	7.7	7.4	7.3	7.4	7.6	8.3	8.3	8.4	8.6	8.1	8.7	8.5	8.0	7.9	7.8	7.5	7.5	7.5	7.5	7.4	7.2	8.7	7.2	7.9
Max.	**15.1**	**14.6**	**13.0**	**13.8**	**14.3**	**14.6**	**15.1**	**15.1**	**16.0**	**16.6**	**17.2**	**14.3**	**14.1**	**15.1**	**15.3**	**15.7**	**17.0**	**15.7**	**16.1**	**15.6**	**16.5**	**17.7**	**16.1**	**16.0**	**17.7**		
Min.	**0.8**	**1.0**	**0.7**	**-0.4**	**-1.5**	**-0.5**	**0.1**	**0.4**	**0.4**	**0.5**	**0.8**	**0.9**	**1.0**	**1.3**	**1.3**	**1.4**	**1.3**	**1.5**	**1.0**	**0.7**	**0.4**	**0.3**	**0.3**	**0.6**		**-1.5**	
Avg.	**6.3**	**6.1**	**5.9**	**5.6**	**5.5**	**6.0**	**6.3**	**6.7**	**7.3**	**7.7**	**7.9**	**8.2**	**8.5**	**8.9**	**9.3**	**9.3**	**9.3**	**8.9**	**8.4**	**8.3**	**8.1**	**7.9**	**7.2**	**6.7**			**7.5**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.9	7.0	7.0	8.3	8.1	7.7	8.3	8.7	8.8	9.3	9.8	10.4	11.8	10.8	10.4	10.9	11.3	11.3	10.0	10.0	9.2	8.5	8.4	9.0	11.8	6.9	9.2
2	9.0	8.5	8.3	8.0	8.4	9.2	9.7	10.4	11.7	12.7	13.4	14.7	15.6	17.1	19.3	19.1	18.8	17.9	16.2	15.8	15.2	14.8	13.5	11.0	19.3	8.0	13.3
3	10.7	10.4	10.7	12.3	12.6	12.1	11.8	11.5	12.0	12.8	13.2	13.9	15.2	16.9	17.2	17.6	17.5	16.5	14.9	14.3	14.4	13.9	13.3	13.1	17.6	10.4	13.7
4	12.7	12.5	11.7	10.2	8.7	9.2	9.6	10.0	10.9	11.7	11.7	10.8	11.1	12.2	12.1	12.1	11.9	11.0	10.0	10.3	10.5	10.5	8.1	6.4	12.7	6.4	10.7
5	6.3	5.8	5.4	4.5	6.5	7.7	7.9	8.8	9.3	10.3	10.6	11.0	11.1	11.4	11.2	11.7	11.8	12.0	10.9	10.7	10.2	9.7	8.4	7.7	12.0	4.5	9.2
6	6.7	5.9	5.4	4.6	5.4	7.0	8.3	9.0	9.3	10.0	9.7	10.4	11.2	11.2	11.5	11.6	11.4	10.3	9.7	9.8	9.7	9.5	8.8	8.4	11.6	4.6	8.9
7	8.6	9.0	9.5	9.4	9.0	8.8	8.8	9.1	8.4	8.1	8.7	9.0	9.0	8.7	8.4	8.2	7.7	7.5	7.8	8.0	7.9	7.8	7.7	7.5	9.5	7.5	8.4
8	7.5	7.5	7.4	7.5	7.4	7.4	7.7	7.6	7.9	8.2	8.1	8.9	9.6	10.3	10.5	10.9	10.5	10.2	9.7	9.3	9.4	8.9	8.4	8.1	10.9	7.4	8.7
9	8.0	8.1	8.0	8.0	7.7	7.6	7.6	8.0	7.9	8.0	8.6	9.2	9.8	10.0	10.1	10.9	11.5	10.1	8.8	8.4	8.2	8.1	8.0	7.7	11.5	7.6	8.7
10	7.6	7.6	7.6	7.6	7.6	7.8	7.7	7.7	7.9	8.0	8.3	9.1	9.0	8.6	8.8	8.7	8.6	8.3	8.2	8.2	8.1	8.0	8.1	8.1	9.1	7.6	8.1
11	8.1	7.4	7.0	6.4	6.1	6.6	7.1	7.4	7.8	7.5	7.5	7.5	8.0	8.4	8.2	8.3	8.4	9.1	9.1	9.2	9.4	8.9	9.0	9.0	9.4	6.1	8.0
12	8.9	8.8	8.6	8.7	8.7	8.9	9.1	9.0	9.1	9.6	9.6	9.2	9.2	9.3	9.4	9.5	9.2	9.0	9.0	8.6	8.7	8.9	8.7	8.4	9.6	8.4	9.0
13	8.2	8.2	8.1	8.0	7.7	7.6	7.5	7.8	8.0	8.2	8.5	9.0	9.3	10.2	10.9	11.4	10.1	9.4	9.4	9.4	9.3	9.0	8.6	8.4	11.4	7.5	8.8
14	8.3	8.3	8.2	8.3	8.5	9.2	9.4	9.5	9.9	10.3	10.3	10.0	9.7	9.7	9.9	10.1	11.4	12.4	12.8	13.4	13.3	12.7	12.7	12.7	13.4	8.2	10.5
15	12.4	11.9	11.6	11.2	10.9	11.2	11.4	10.1	10.2	10.4	10.9	11.6	11.4	10.4	9.8	9.9	10.6	10.5	10.7	10.5	10.1	10.3	10.2	10.2	12.4	9.8	10.8
16	10.1	10.0	9.9	9.7	9.5	9.4	9.6	9.8	9.4	9.6	10.1	9.9	10.1	10.8	11.1	11.0	10.2	10.4	10.7	11.0	10.7	10.6	10.4	10.3	11.1	9.4	10.2
17	10.1	9.9	9.9	9.5	9.3	9.4	9.5	9.6	9.6	10.0	10.6	11.5	10.9	10.6	10.6	10.7	11.0	11.3	10.7	10.8	10.4	9.8	9.7	9.8	11.5	9.3	10.2
18	9.8	9.7	9.7	9.7	10.1	10.7	10.5	11.3	11.6	11.5	10.9	10.9	11.3	11.5	11.4	11.3	11.3	11.0	10.8	10.7	10.7	10.3	10.0	10.1	11.6	9.7	10.7
19	10.1	9.8	9.8	10.0	10.4	10.4	10.5	10.7	11.9	12.4	13.1	13.9	14.1	13.9	14.8	15.2	13.0	11.6	9.7	9.3	9.2	8.9	8.9	8.9	15.2	8.9	11.3
20	9.0	10.1	9.4	9.1	8.8	9.1	9.1	9.7	10.1	10.3	10.4	10.1	9.2	8.5	8.0	9.1	10.3	10.4	9.5	9.0	8.6	8.2	7.6	6.7	10.4	6.7	9.2
21	5.8	5.8	5.5	4.8	5.5	6.6	7.1	8.2	10.0	11.2	10.3	10.6	11.4	11.6	13.0	13.0	12.8	12.8	11.5	11.5	11.7	10.6	10.1	9.6	13.0	4.8	9.6
22	9.3	10.1	10.2	10.2	9.5	9.2	9.5	9.4	9.0	8.9	8.7	8.8	8.8	8.8	9.4	9.5	9.5	9.5	9.8	9.8	9.8	9.2	9.1	7.7	10.2	7.7	9.3
23	7.6	7.6	7.7	7.7	7.8	8.3	8.8	9.2	9.2	9.1	9.5	9.9	10.0	10.0	10.4	10.5	10.6	10.8	10.2	10.0	9.3	9.5	8.6	7.3	10.8	7.3	9.1
24	7.2	6.2	5.8	5.7	6.1	7.8	8.7	10.2	11.0	11.0	10.9	11.1	11.9	13.0	13.3	13.7	14.2	14.0	12.8	11.9	11.8	11.4	10.4	9.6	14.2	5.7	10.4
25	9.2	9.4	9.7	9.0	8.6	9.5	10.8	11.3	11.1	11.5	11.6	11.3	12.0	12.5	12.0	12.5	12.4	12.1	10.8	10.8	10.5	9.6	9.4	8.3	12.5	8.3	10.7
26	8.1	8.0	8.3	8.5	9.1	9.2	9.3	9.8	10.3	9.8	10.3	10.0	10.0	9.6	9.8	9.9	9.8	9.5	9.4	9.9	9.8	9.6	8.7	8.4	10.3	8.0	9.4
27	7.4	7.1	6.3	6.1	6.9	8.7	9.8	9.6	9.7	10.5	11.2	11.5	11.8	11.6	11.8	12.4	12.9	12.4	11.2	11.0	14.7	17.4	16.7	16.6	17.4	6.1	11.0
28	16.0	15.0	14.3	14.1	14.2	13.7	13.8	14.7	14.6	14.3	14.6	14.4	14.8	16.1	15.9	14.8	14.9	14.8	14.1	14.1	14.0	13.7	13.9	14.2	16.1	13.7	14.5
29	14.7	14.5	14.4	14.4	14.4	14.5	14.8	14.1	15.3	14.2	13.2	13.7	12.9	11.5	10.2	11.1	11.6	11.5	11.4	11.3	11.2	11.1	10.9	10.8	15.3	10.2	12.8
30	10.8	10.4	10.0	9.8	9.5	9.5	9.6	9.9	10.4	10.9	11.4	11.4	12.0	12.1	11.6	11.4	11.3	10.7	10.6	11.0	13.1	12.9	12.8	12.3	13.1	9.5	11.1
Max.	**16.0**	**15.0**	**14.4**	**14.4**	**14.4**	**14.5**	**14.8**	**14.7**	**15.3**	**14.3**	**14.6**	**14.7**	**15.6**	**17.1**	**19.3**	**19.1**	**18.8**	**17.9**	**16.2**	**15.8**	**15.2**	**17.4**	**16.7**	**16.6**	**19.3**		
Min.	**5.8**	**5.8**	**5.4**	**4.5**	**5.4**	**6.6**	**7.1**	**7.4**	**7.8**	**7.5**	**7.5**	**7.5**	**8.0**	**8.4**	**8.0**	**8.2**	**7.7**	**7.5**	**7.8**	**8.0**	**7.9**	**7.8**	**7.6**	**6.4**		**4.5**	
Avg.	**9.2**	**9.0**	**8.8**	**8.7**	**8.8**	**9.1**	**9.4**	**9.7**	**10.1**	**10.3**	**10.5**	**10.8**	**11.1**	**11.2**	**11.4**	**11.6**	**11.5**	**11.3**	**10.7**	**10.6**	**10.6**	**10.4**	**10.0**	**9.5**			**10.2**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 2 meters (deg. C)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	11.5	10.6	10.7	10.3	9.9	10.6	11.8	12.5	13.5	12.7	11.2	11.1	11.4	11.7	11.6	11.4	10.5	10.2	9.2	12.5	18.0	15.5	15.5	16.9	18.0	9.2	12.1
2	17.0	16.4	16.1	14.0	13.4	13.6	13.4	14.0	14.3	15.2	15.9	16.5	14.0	14.4	14.7	17.6	20.5	20.2	19.7	19.6	19.2	17.6	14.8	12.5	20.5	12.5	16.0
3	11.7	11.0	10.6	10.1	10.0	10.4	10.1	10.2	10.3	11.0	11.0	10.8	10.6	10.7	10.7	10.6	10.6	11.4	11.1	10.9	10.9	10.9	10.4	9.6	11.7	9.6	10.6
4	9.8	10.2	10.1	9.6	9.8	10.4	11.5	12.1	11.4	11.8	11.9	12.2	12.4	12.2	12.0	11.9	12.0	11.6	11.2	11.1	11.0	11.0	10.8	10.7	12.4	9.6	11.2
5	10.9	10.9	11.0	10.7	10.6	11.0	10.9	10.7	11.0	11.6	11.1	10.7	10.6	10.6	10.7	10.9	10.8	10.9	11.2	11.2	10.9	10.9	10.8	10.7	11.6	10.6	10.9
6	10.6	10.3	10.3	10.3	10.5	10.7	10.8	10.9	11.3	11.6	11.2	11.5	12.0	11.9	11.5	11.5	11.7	11.8	11.7	11.6	11.6	11.5	11.3	11.2	12.0	10.3	11.2
7	11.1	11.0	11.0	11.0	11.0	10.9	10.9	11.0	11.0	11.1	11.2	11.2	11.6	11.7	11.3	11.4	11.6	11.4	10.9	10.8	10.6	10.4	10.2	10.1	11.7	10.1	11.0
8	10.1	10.1	10.0	9.9	9.9	10.5	11.5	12.7	13.2	14.3	14.8	15.2	15.1	15.3	15.8	15.0	14.8	14.5	15.3	15.9	15.9	15.6	13.8	12.5	15.9	9.9	13.4
9	12.1	12.0	11.6	11.6	11.4	12.7	13.5	14.4	13.4	13.6	13.4	13.2	13.4	13.5	13.5	13.9	15.6	14.8	13.0	12.2	11.8	11.8	12.0	11.9	15.6	11.4	12.9
10	11.9	11.7	11.6	11.3	11.3	11.5	11.7	11.9	11.5	11.2	11.2	11.6	11.9	12.8	12.4	12.2	11.8	11.5	11.0	10.9	10.9	11.0	11.0	10.8	12.8	10.8	11.5
11	10.6	10.5	10.4	10.2	10.2	10.3	10.5	10.8	11.2	12.8	14.2	14.1	14.4	13.4	12.3	12.2	12.9	13.1	12.5	12.5	12.1	11.2	10.4	9.8	14.4	9.8	11.8
12	9.3	8.9	8.3	8.0	8.1	9.2	10.9	12.5	14.6	16.2	16.4	14.6	14.8	14.8	15.4	17.2	18.3	20.9	21.9	21.8	21.1	21.7	20.1	18.5	21.9	8.0	15.1
13	17.6	20.1	19.5	15.4	17.8	18.2	16.8	15.9	15.3	15.0	15.1	15.2	15.5	15.5	15.0	14.9	14.3	14.0	13.7	13.5	13.0	12.6	12.3	12.2	20.1	12.2	15.3
14	12.2	11.8	11.2	11.4	11.4	11.4	11.7	12.1	12.5	12.7	13.2	13.6	14.3	13.7	13.8	13.0	12.8	12.5	12.0	11.6	12.0	12.0	11.7	11.2	14.3	11.2	12.3
15	11.1	10.9	11.3	11.4	11.1	11.1	11.3	11.6	12.7	13.6	14.8	15.1	16.0	16.3	15.1	14.0	13.4	12.7	11.8	11.7	11.4	11.3	11.3	11.2	16.3	10.9	12.6
16	11.2	11.3	11.3	11.2	10.8	10.9	10.3	10.3	10.4	10.6	10.7	10.9	11.4	11.7	11.7	11.7	11.9	11.5	11.4	11.1	11.0	10.9	10.7	10.6	11.9	10.3	11.1
17	10.4	9.9	9.9	9.9	9.7	9.6	10.3	10.7	10.7	10.9	11.1	11.5	11.4	10.5	10.6	10.4	10.5	10.4	10.1	9.8	10.0	10.1	9.7	10.0	11.5	9.6	10.3
18	10.4	10.4	10.2	10.1	10.1	10.0	10.3	10.4	10.6	10.6	10.3	10.2	10.0	10.3	10.6	11.3	11.8	11.7	11.6	11.4	12.0	11.4	10.8	11.0	12.0	10.0	10.7
19	11.4	11.3	11.1	11.2	11.9	12.2	12.5	12.9	13.7	14.9	15.0	14.9	15.1	15.7	15.9	15.9	15.6	16.0	16.3	16.2	15.1	13.3	13.5	14.4	16.3	11.1	14.0
20	14.2	12.6	12.4	11.8	12.3	13.8	13.4	14.9	15.6	16.2	16.0	16.1	15.8	15.7	16.3	15.7	16.3	16.0	16.9	16.3	13.0	11.5	11.3	11.5	16.9	11.3	14.4
21	11.4	12.4	12.3	12.3	11.8	13.5	14.4	14.8	14.9	15.3	15.5	15.5	15.5	15.5	15.8	14.8	12.6	12.4	12.2	12.5	14.1	12.8	12.1	11.9	15.8	11.4	13.6
22	11.6	11.4	11.1	10.9	10.8	12.0	12.6	12.5	12.3	12.6	12.8	12.8	13.1	12.8	11.0	10.5	10.6	11.0	11.5	11.0	10.7	10.5	10.3	10.0	13.1	10.0	11.5
23	10.4	10.4	10.8	10.8	10.3	9.9	10.0	10.9	11.2	11.7	12.3	12.2	12.7	13.5	14.0	13.9	12.0	11.6	13.2	13.2	12.9	12.5	12.1	11.9	14.0	9.9	11.8
24	11.6	11.7	11.5	11.1	11.1	11.4	12.2	12.1	12.4	12.7	13.5	13.3	13.1	12.3	10.7	10.3	10.3	10.2	10.2	10.3	10.2	10.2	10.0	10.3	13.5	10.0	11.4
25	10.3	10.3	10.3	10.4	10.3	9.7	9.8	10.2	10.3	10.4	10.5	10.8	11.2	11.1	11.8	12.1	12.7	11.9	12.2	12.4	12.0	11.2	10.9	10.7	12.7	9.7	11.0
26	10.9	10.4	9.1	8.5	8.2	9.9	10.7	13.3	13.5	13.8	14.4	14.8	14.7	14.7	15.4	15.1	15.5	14.9	14.5	14.2	14.1	14.1	14.0	13.7	15.5	8.2	13.0
27	13.4	13.2	13.0	12.8	12.9	13.0	12.8	13.2	14.3	15.6	16.5	16.9	17.5	16.6	15.4	15.0	15.2	14.6	13.4	13.0	13.0	11.4	10.9	11.6	17.5	10.9	14.0
28	11.8	11.3	10.9	11.4	10.6	11.2	11.3	12.0	13.2	14.2	13.6	13.6	13.4	13.3	13.0	11.9	11.8	11.5	11.4	11.8	15.1	14.6	13.4	12.4	15.1	10.6	12.4
29	12.1	12.2	12.4	12.1	11.7	11.9	11.8	11.5	12.1	12.3	12.7	13.0	14.1	14.6	14.4	14.0	13.6	13.2	12.8	12.6	12.0	11.6	11.3	11.0	14.6	11.0	12.5
30	11.1	10.9	10.9	11.2	11.1	11.1	11.0	10.8	11.4	12.0	11.9	11.7	11.9	12.3	12.0	12.3	13.3	13.7	13.9	14.1	13.9	12.9	12.1	13.2	14.1	10.8	12.1
31	14.2	14.1	13.9	13.7	13.8	13.6	13.5	14.1	14.4	14.9	15.9	16.6	16.7	17.3	16.9	16.6	15.5	15.1	14.5	14.4	14.4	14.4	13.9	13.3	17.3	13.3	14.8
Max.	**17.6**	**20.1**	**19.5**	**15.4**	**17.8**	**18.2**	**16.8**	**15.9**	**15.6**	**16.2**	**16.5**	**16.9**	**17.5**	**17.3**	**16.9**	**17.6**	**20.5**	**20.9**	**21.9**	**21.8**	**21.1**	**21.7**	**20.1**	**18.5**	**21.9**		
Min.	**9.3**	**8.9**	**8.3**	**8.0**	**8.1**	**9.2**	**9.8**	**10.2**	**10.3**	**10.4**	**10.3**	**10.2**	**10.0**	**10.3**	**10.6**	**10.3**	**10.3**	**10.2**	**9.2**	**9.8**	**10.0**	**10.1**	**9.7**	**9.6**		**8.0**	
Avg.	**11.7**	**11.6**	**11.4**	**11.1**	**11.1**	**11.5**	**11.7**	**12.2**	**12.5**	**13.0**	**13.2**	**13.3**	**13.4**	**13.4**	**13.3**	**13.2**	**13.2**	**13.1**	**13.0**	**13.0**	**13.0**	**12.5**	**12.0**	**11.8**			**12.5**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	13.4	13.2	13.2	13.1	13.2	13.2	13.3	13.4	13.2	13.3	13.2	13.3	13.0	12.8	12.8	13.1	12.8	13.0	13.3	13.3	13.0	13.0	13.2	13.0	13.4	12.8	13.1
2	13.2	13.5	13.4	13.5	12.2	12.2	12.3	12.6	13.0	13.3	13.4	13.8	14.0	13.9	13.8	13.8	13.6	13.9	14.1	14.4	14.1	14.5	14.1	14.2	14.5	12.2	13.5
3	14.1	14.2	13.8	13.3	13.2	12.8	13.0	12.9	12.7	13.6	13.9	14.4	15.0	14.4	14.6	14.5	14.7	14.8	14.4	14.4	14.4	14.2	14.5	14.3	15.0	12.7	14.0
4	13.6	13.5	13.3	13.4	13.3	13.3	13.3	13.2	13.3	13.6	14.2	13.9					14.7	15.0	14.8	14.6	14.1	15.2	16.6	16.8	16.8	13.2	14.2
5	16.5	16.5	16.3	16.2	16.0	15.9	16.1	16.1	16.4	17.1	17.4	17.7	17.8	18.3	18.2	18.0	18.4	18.4	18.0	17.9	17.8	17.5	17.6	17.6	18.4	15.9	17.2
6	17.3	17.1	16.8	16.6	16.4	16.3	16.3	16.5	16.6	16.9	16.8	16.8	16.9	16.8	16.4	15.8	15.8	15.2	14.7	14.7	14.7	17.1	18.2	18.0	18.2	14.7	16.5
7	17.6	16.7	15.8	15.7	15.7	15.8	16.7	16.6	16.8	17.3	17.7	18.1	18.7	19.0	19.4	19.2	19.3	19.4	19.0	19.1	18.7	17.6	16.4	15.7	19.4	15.7	17.6
8	15.4	14.8	14.6	14.4	14.3	14.2	14.5	14.8	15.0	14.4	14.1	14.2	14.4	14.9	15.2	15.7	16.1	16.2	16.1	15.7	14.9	14.2	14.8	14.8	16.2	14.1	14.9
9	14.1	13.4	13.1	12.9	12.8	12.6	13.1	13.4	13.6	13.0	13.5	13.8	13.7	13.6	14.8	14.5	14.1	14.1	14.1	14.2	14.3	14.2	13.9	13.6	14.8	12.6	13.7
10	13.1	13.1	13.1	12.3	12.1	12.1	12.8	13.1	13.4	13.2	13.1	13.5	12.9	13.1	13.3	13.3	13.3	12.7	12.3	12.2	12.1	12.0	11.9	12.0	13.5	11.9	12.7
11	11.7	11.8	11.4	11.1	11.7	11.8	12.7	11.4	11.2	11.5	12.5	12.6	12.8	14.2	15.1	15.3	15.8	17.0	16.5	16.1	15.9	16.6	16.6	16.5	17.0	11.1	13.7
12	15.7	14.9	14.6	14.4	14.3	14.0	14.9	15.1	15.5	15.5	15.6	15.2	15.4	15.6	16.3	16.8	16.8	18.0	17.2	16.6	15.3	14.3	13.1	12.5	18.0	12.5	15.3
13	12.1	12.0	11.9	12.2	12.4	12.4	12.3	12.4	12.2	12.1	12.1	12.4	12.2	12.2	12.4	12.3	12.5	12.8	12.7	13.0	12.8	12.3	12.4	12.8	13.0	11.9	12.4
14	12.8	12.8	12.8	12.5	12.5	12.5	12.6	12.8	12.9	13.0	13.0	12.9	13.1	13.2	13.4	13.7	13.9	14.1	13.7	13.6	13.1	12.9	12.8	13.1	14.1	12.5	13.1
15	13.4	13.4	13.2	13.2	13.2	13.3	13.3	13.0	13.4	13.5	13.7	14.4	14.7	15.0	15.1	15.1	15.0	15.2	15.5	15.6	15.5	15.2	15.0	14.9	15.6	13.0	14.3
16	14.7	14.5	14.6	14.8	14.5	14.4	14.6	14.5	15.3	15.5	15.6	15.5	14.7	14.7	14.1	14.7	15.1	15.0	14.9	14.6	14.1	14.5	14.5	14.5	15.6	14.1	14.7
17	14.2	13.9	13.7	13.5	13.3	13.5	13.6	13.6	13.6	14.0	13.9	14.2	14.7	14.7	15.3	15.8	15.7	16.4	15.9	16.0	15.5	15.3	15.1	15.4	16.4	13.3	14.6
18	14.7	14.6	14.5	14.4	13.9	13.8	14.1	13.9	14.3	13.9	13.3	12.7	12.7	12.7	12.9	12.9	13.1	13.3	13.5	13.6	13.6	13.3	13.0	12.8	14.7	12.7	13.6
19	12.7	12.6	12.4	12.4	12.4	13.3	14.1	14.5	14.8	14.6	14.6	14.4	13.9	14.1	14.7	17.0	19.7	19.6	19.6	19.8	19.5	19.3	19.0	18.8	19.8	12.4	15.7
20	16.3	15.5	17.2	17.0	16.3	16.1	16.4	15.9	16.2	16.7	16.6	17.3	18.0	18.1	18.1	18.0	17.7	17.3	17.1	17.1	16.6	15.1	14.9	14.6	18.1	14.6	16.7
21	14.1	13.5	14.0	13.8	13.5	13.6	13.1	13.4	14.0	9.7	15.4	15.5	16.0	16.2	16.4	16.9	17.0	16.8	16.5	15.8	15.4	15.0	15.0	13.9	17.0	9.7	14.8
22	13.0	12.9	12.9	12.6	12.5	11.7	13.1	13.5	14.0	14.3	14.3	14.0	13.4	13.6	12.6	12.6	13.3	12.4	12.6	12.1	12.1	12.3	12.2	12.1	14.3	11.7	12.9
23	12.2	12.0	11.8	12.0	12.7	13.0	13.3	13.5	14.1	14.9	14.9	14.0	14.1	14.7	14.0	13.9	14.1	14.0	14.1	14.0	13.4	12.5	12.5	12.2	14.9	11.8	13.4
24	11.9	12.0	11.5	11.2	11.1	11.1	11.2	11.4	11.7	12.1	12.6	13.2	14.3	14.7	15.0	14.9	15.4	15.7	15.4	15.3	15.0	14.4	13.8	13.8	15.7	11.1	13.3
25	13.4	13.2	13.0	12.8	12.6	12.4	12.4	12.7	12.2	13.4	12.8	13.5	14.1	14.6	14.1	13.8	13.5	13.4	13.2	12.6	11.9	11.7	11.4	10.8	14.6	10.8	12.9
26	10.3	9.5	9.7	9.9	9.6	9.8	9.8	10.6	11.2	12.2	13.4	14.3	15.3	15.8	16.4	16.6	16.7	15.9	15.5	15.0	14.4	14.0	13.6	13.6	16.7	9.5	13.0
27	13.8	13.9	13.8	13.7	13.1	13.1	13.9	13.4	13.0	14.1	14.6	15.4	15.9	16.1	16.4	16.5	16.2	15.6	15.2	14.6	14.3	14.2	14.2	13.1	16.5	13.0	14.5
28	12.1	12.4	12.7	12.6	11.7	10.8	10.6	10.7	11.3	11.6	11.4	11.3	11.5	11.7	11.8	12.1	12.3	12.7	14.6	14.0	13.8	13.4	13.2	12.9	14.6	10.6	12.2
29	12.2	11.6	11.6	12.0	12.2	12.2	12.3	12.2	11.8	12.1	12.3	12.6	12.6	12.9	13.2	13.3	13.5	13.6	13.7	13.7	13.4	12.9	12.8	12.9	13.7	11.6	12.6
30	11.9	12.1	12.5	12.8	13.0	12.8	12.7	12.8	12.7	13.1	13.8	14.4	15.5	16.0	16.0	16.3	16.2	16.1	16.0	15.8	15.6	15.6	15.7	15.6	16.3	11.9	14.4
31	15.4	15.5	15.4	14.9	14.9	14.9	14.8	14.8	14.8	14.9	14.7	14.6	15.0	15.4	15.7	15.6	15.4	15.3	15.1	14.5	13.7	13.5	13.2	12.8	15.7	12.8	14.8
Max.	**17.6**	**17.1**	**17.2**	**17.0**	**16.4**	**16.3**	**16.7**	**16.6**	**16.8**	**17.3**	**17.7**	**18.1**	**18.7**	**19.0**	**19.4**	**19.2**	**19.7**	**19.6**	**19.6**	**19.8**	**19.5**	**19.3**	**19.0**	**18.8**	**19.8**		
Min.	**10.3**	**9.5**	**9.7**	**9.9**	**9.6**	**9.8**	**9.8**	**10.6**	**11.2**	**9.7**	**11.4**	**11.3**	**11.5**	**11.7**	**11.8**	**12.1**	**12.3**	**12.4**	**12.3**	**12.1**	**11.9**	**11.7**	**11.4**	**10.8**		**9.5**	
Avg.	**13.8**	**13.6**	**13.5**	**13.4**	**13.2**	**13.2**	**13.5**	**13.5**	**13.7**	**13.8**	**14.1**	**14.3**	**14.5**	**14.8**	**14.9**	**15.1**	**15.2**	**15.3**	**15.1**	**15.0**	**14.6**	**14.4**	**14.4**	**14.2**			**14.2**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	12.6	12.3	12.0	11.1	10.5	9.8	10.1	10.1	10.1	10.5	11.0	11.8	12.5	13.3	13.8	14.3	14.3	13.9	13.8	13.8	13.2	12.9	13.0	12.5	14.3	9.8	12.2
2	10.1	9.1	8.9	8.5	8.3	8.2	7.6	7.9	8.4	9.3	10.7	11.2	12.6	13.7	13.8	13.3	13.4	13.0	12.8	12.6	12.4	12.3	12.4	12.4	13.8	7.6	11.0
3	12.4	12.3	12.1	11.4	10.1	9.7	9.0	8.7	8.6	9.1	9.2	9.3	9.8	10.2	10.8	10.2	9.9	9.6	10.0	10.1	10.2	10.3	10.5	10.6	12.4	8.6	10.2
4	10.6	10.4	10.8	11.2	10.9	10.9	10.6	10.4	10.5	10.2	10.0	10.1	10.3	10.5	10.6	11.0	11.6	12.0	11.8	11.9	11.8	11.6	11.5	11.4	12.0	10.0	10.9
5	11.5	11.4	11.2	10.8	10.7	10.6	10.7	11.0	11.6	11.5	10.8	11.0	11.5	11.7	11.9	12.1	11.5	11.0	9.7	9.4	9.6	9.6	9.7	9.8	12.1	9.4	10.8
6	9.9	10.0	10.1	10.1	10.2	10.3	10.2	10.0	10.2	11.2	12.1	13.2	13.2	13.0	13.1	12.9	12.8	13.1	13.1	13.1	12.6	12.2	12.1	12.1	13.2	9.9	11.7
7	12.3	12.2	12.1	11.8	11.6	11.6	11.3	11.9	12.3	12.8	13.0	13.5	13.6	14.2	14.5	14.6	14.8	14.4	14.0	13.7	13.1	12.9	12.3	11.8	14.8	11.3	12.9
8	11.6	11.6	11.8	11.6	11.6	11.6	11.7	11.5	11.1	11.7	12.2	12.4	12.4	12.7	12.5	12.5	12.5	11.8	11.8	11.8	11.2	10.8	11.2	10.8	12.7	10.8	11.8
9	10.2	9.3	9.4	9.7	9.9	10.1	10.5	11.1	11.1	11.3	11.6	11.8	11.8	11.8	12.1	12.2	12.4	12.4	12.5	12.4	12.3	12.2	12.0	12.3	12.5	9.3	11.3
10	12.5	12.6	12.6	12.5	12.1	12.3	12.2	12.1	12.5	12.7	12.9	12.9	12.9	13.5	13.9	14.3	14.5	14.6	14.3	13.6	12.5	12.1	11.6	10.5	14.6	10.5	12.8
11	10.8	10.9	11.2	11.3	10.9	10.8	10.5	10.8	11.6	12.0	12.1	11.9	11.8	11.6	11.4	11.1	11.3	11.2	11.7	11.7	11.6	11.8	11.8	12.0	12.1	10.5	11.4
12	12.0	11.9	11.9	12.1	12.0	10.9	11.0	11.4	11.2	11.7	12.0	12.0	11.5	11.5	11.6	11.8	12.1	11.9	12.1	11.4	11.1	11.5	11.4	11.0	12.1	10.9	11.6
13	10.7	10.1	9.8	9.6	10.1	10.3	10.2	10.6	11.0	11.3	11.5	11.9	12.1	12.1	12.2	12.1	12.1	12.4	12.7	12.4	12.4	12.2	12.5	12.4	12.7	9.6	11.4
14	12.5	12.2	11.6	10.8	10.1	10.0	9.4	9.2	9.7	9.9	10.7	11.3	11.7	12.2	12.2	12.5	13.2	12.9	13.2	13.2	12.8	12.8	12.8	12.7	13.2	9.2	11.6
15	12.6	12.0	11.6	11.4	11.6	11.8	11.9	11.9	11.8	11.5	11.4	11.3	11.0	10.5	11.1	11.5	11.6	11.7	11.8	11.9	11.0	10.7	10.6	10.6	12.6	10.5	11.4
16	10.6	10.6	10.3	9.9	9.9	10.7	11.0	10.7	10.5	10.6	10.9	11.2	11.5	11.8	12.0	12.0	11.9	11.6	11.6	10.6	10.4	10.2	10.2	10.5	12.0	9.9	10.9
17	10.6	10.6	10.3	9.0	8.1	8.2	8.6	8.3	8.5	9.0	10.3	10.2	10.9	11.0	10.7	10.0	10.7	10.5	9.9	9.5	9.2	8.9	9.7	10.3	11.0	8.1	9.7
18	10.5	10.4	10.4	10.3	10.2	10.1	10.3	10.5	10.7	10.8	11.0	11.6	12.0	12.4	12.6	12.8	12.8	12.8	12.7	12.2	11.9	11.8	11.5	11.6	12.8	10.1	11.4
19	11.5	11.5	11.5	11.1	10.9	10.7	10.6	10.4	10.5	11.1	11.7	12.1	12.7	12.9	13.4	13.5	13.3	13.1	12.6	12.1	12.0	12.0	11.8	11.6	13.5	10.4	11.8
20	11.6	11.6	11.6	11.6	11.6	11.7	11.7	11.9	12.5	12.8	13.0	13.3	13.6	13.9	14.1	14.0	13.7	13.3	13.0	12.6	12.3	12.0	11.5	11.3	14.1	11.3	12.5
21	11.1	10.8	10.5	10.3	10.3	10.5	10.7	10.8	9.6	9.7	10.1	10.4	10.7	11.0	11.0	11.1	11.0	10.4	9.9	9.6	9.5	10.1	9.3	9.0	11.1	9.0	10.3
22	8.7	8.7	8.6	8.9	9.0	9.7	9.2	9.8	10.5	10.6	10.7	10.8	10.8	10.9	10.8	10.9	11.0	11.0	10.8	10.7	10.6	10.5	10.5	10.8	11.0	8.6	10.2
23	11.3	11.5	11.6	11.3	11.2	11.3	10.7	10.1	10.2	11.3	11.3	11.4	11.4	11.7	11.6	11.2	11.1	11.1	11.2	11.1	11.1	10.6	10.4	10.6	11.7	10.1	11.1
24	10.4	9.6	9.4	9.4	9.7	9.0	8.1	8.7	9.3	10.2	10.0	10.1	10.4	10.4	11.1	11.3	10.5	10.1	10.3	9.7	9.8	9.3	9.9	9.9	11.3	8.1	9.9
25	9.4	9.3	9.6	9.7	10.0	9.8	9.7	9.6	10.0	9.9	9.9	10.3	10.6	10.7	11.1	11.2	11.1	11.1	11.0	10.9	10.3	9.6	9.9	9.8	11.2	9.3	10.2
26	9.0	8.3	7.8	7.2	7.6	6.7	6.3	6.4	8.8	9.9	9.8	10.5	10.4	10.5	10.6	9.9	9.5	9.5	9.8	9.3	8.6	8.5	8.1	8.6	10.6	6.3	8.8
27	8.3	7.9	7.8	7.9	8.1	8.2	8.5	8.4	8.3	7.9	8.7	9.2	9.3	8.7	8.0	8.3	8.7	8.4	7.7	7.3	7.0	7.6	8.4	8.4	9.3	7.0	8.2
28	8.6	8.3	7.9	8.2	8.1	7.6	8.3	8.9	8.7	8.7	8.6	9.1	9.5	10.0	10.6	10.5	10.7	11.0	11.1	10.4	9.8	9.4	10.0	10.8	11.1	7.6	9.4
29	11.4	11.2	11.0	10.9	10.4	9.7	9.6	9.6	9.5	9.4	9.2	9.2	9.7	9.5	9.3	9.4	9.7	9.5	9.2	9.1	9.1	9.2	9.1	9.1	11.4	9.1	9.7
30	8.9	8.7	8.5	8.3	8.1	7.9	7.8	7.7	7.6	7.8	8.0	8.3	8.5	8.8	9.1	9.2	9.2	8.9	8.6	8.4	8.4	8.5	8.6	8.6	9.2	7.6	8.4
Max.	**12.6**	**12.6**	**12.6**	**12.5**	**12.1**	**12.3**	**12.2**	**12.1**	**12.5**	**12.8**	**13.0**	**13.5**	**13.6**	**14.2**	**14.5**	**14.6**	**14.8**	**14.6**	**14.3**	**13.8**	**13.2**	**12.9**	**13.0**	**12.7**	**14.8**		
Min.	**8.3**	**7.9**	**7.8**	**7.2**	**7.6**	**6.7**	**6.3**	**6.4**	**7.6**	**7.8**	**8.0**	**8.3**	**8.5**	**8.7**	**8.0**	**8.3**	**8.7**	**8.4**	**7.7**	**7.3**	**7.0**	**7.6**	**8.1**	**8.4**		**6.3**	
Avg.	**10.8**	**10.6**	**10.5**	**10.3**	**10.1**	**10.0**	**9.9**	**10.0**	**10.2**	**10.5**	**10.8**	**11.1**	**11.4**	**11.5**	**11.7**	**11.7**	**11.8**	**11.6**	**11.5**	**11.2**	**10.9**	**10.8**	**10.8**	**10.8**			**10.9**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.5	8.5	8.4	8.1	7.9	7.7	7.4	7.2	6.5	6.2	5.9	6.1	6.4	6.5	6.3	6.4	6.2	5.8	5.4	5.2	4.9	4.8	4.9	4.6	8.5	4.6	6.5
2	4.4	4.3	4.3	4.0	3.8	3.7	3.4	3.4	3.7	4.2	4.5	5.2	5.5	6.1	6.7	6.8	6.8	6.4	5.5	5.3	5.0	4.9	4.1	3.3	6.8	3.3	4.8
3	3.4	3.4	3.7	4.0	3.7	4.0	3.8	3.4	3.8	4.5	8.1	8.4	9.2	9.6	9.6	9.5	8.9	8.8	8.2	7.8	8.3	8.9	8.3	8.3	9.6	3.4	6.6
4	7.7	7.8	8.0	8.6	8.6	8.6	8.8	9.1	9.3	9.4	9.5	9.9	10.3	10.4	10.3	10.1	9.7	9.3	9.4	9.4	8.5	8.2	8.2	8.4	10.4	7.7	9.1
5	7.8	7.3	7.3	7.4	7.4	7.1	6.7	6.7	6.8	7.0	7.5	7.6	7.7	7.8	7.9	8.1	7.4	6.9	6.7	6.8	7.0	7.0	7.3	7.4	8.1	6.7	7.3
6	7.5	7.4	7.5	7.4	7.4	7.3	7.2	7.0	7.4	7.6	7.8	8.4	9.3	9.8	10.4	10.9	10.3	9.7	8.5	7.9	7.3	6.9	6.1	5.7	10.9	5.7	8.0
7	5.8	6.3	7.4	7.9	8.5	8.5	8.7	8.7	9.1	9.1	9.3	8.8	8.5	8.2	7.9	7.7	7.4	7.2	7.2	7.3	7.3	7.2	7.0	6.7	9.3	5.8	7.8
8	6.4	6.2	6.0	5.8	5.7	5.6	5.2	4.8	4.8	4.6	4.6	4.6	4.6	4.6	4.8	5.0	5.2	4.8	4.7	4.7	4.6	4.4	4.2	4.1	6.4	4.1	5.0
9	4.1	3.8	3.6	3.7	4.0	3.6	3.8	4.1	4.5	5.0	5.2	5.0	5.4	6.0	6.8	6.9	6.8	7.0	6.8	6.8	6.4	5.8	5.6	5.3	7.0	3.6	5.3
10	5.3	5.0	4.8	4.7	5.5	5.8	5.9	6.0	6.4	5.4	4.8	5.2	5.6	5.7	5.9	6.2	6.7	6.6	6.1	6.0	5.7	5.5	5.5	5.5	6.7	4.7	5.7
11	4.9	4.8	5.3	5.6	5.3	5.7	6.0	6.2	5.7	5.6	5.6	5.9	6.9	7.2	6.6	6.2	5.5	4.7	4.4	3.7	3.5	3.1	2.7	2.5	7.2	2.5	5.2
12	2.5	2.6	2.5	2.2	2.0	1.5	1.1	0.9	0.8	1.2	1.2	1.8	1.9	2.1	2.2	2.4	2.4	2.3	2.2	1.9	1.6	1.7	2.4	2.5	2.6	0.8	1.9
13	2.4	2.5	3.0	2.4	1.6	1.4	1.6	1.1	1.3	2.1	2.9	4.4	4.8	4.7	4.6	4.3	4.1	4.0	4.0	3.9	3.3	3.6	4.0	3.8	4.8	1.1	3.2
14	3.7	3.7	3.8	3.8	3.6	3.0	2.7	2.5	2.8	3.3	3.8	5.0	6.0	7.1	7.7	8.2	8.0	7.6	7.5	7.7	7.7	7.3	6.2	5.5	8.2	2.5	5.3
15	5.6	5.6	5.7	5.7	5.7	5.6	5.7	5.8	5.5	5.8	6.2	6.4	6.6	6.8	7.1	7.0	7.3	6.8	6.5	5.4	4.6	4.1	3.2	3.8	7.3	3.2	5.8
16	3.6	3.8	3.8	4.6	6.0	6.0	5.3	4.8	4.7	6.1	6.7	6.3	6.6	6.9	7.2	7.2	7.3	6.9	6.9	6.7	6.8	6.3	5.7	5.5	7.3	3.6	5.9
17	5.7	6.1	6.4	5.4	5.1	5.3	7.0	7.6	8.0	8.3	8.2	8.1	8.3	8.8	7.9	8.1	7.9	6.9	5.8	5.0	5.0	5.0	4.7	4.2	8.8	4.2	6.6
18	4.0	4.8	5.2	4.7	4.5	4.2	4.6	4.8	4.9	5.4	5.7	5.7	5.8	6.1	6.4	6.8	6.8	6.3	6.5	7.1	6.1	5.2	5.0	4.8	7.1	4.0	5.5
19	4.5	4.7	4.7	5.5	6.0	6.0	6.5	8.0	8.1	8.3	8.1	8.1	8.1	8.2	8.2	8.4	8.1	7.8	7.4	7.3	7.2	7.1	6.7	6.5	8.4	4.5	7.1
20	6.9	7.1	7.1	6.8	7.0	7.1	7.3	7.2	7.3	8.0	8.7	8.6	9.7	10.0	9.9	9.6	9.4	9.5	9.4	9.5	9.5	9.6	9.9	9.4	10.0	6.8	8.5
21	8.3	8.1	8.3	7.9	7.8	8.0	7.7	6.7	6.0	5.9	5.7	5.4	5.2	5.0	5.0	4.8	4.6	4.4	4.3	4.6	4.7	4.6	4.6	4.4	8.3	4.3	5.9
22	4.1	4.3	4.5	4.4	4.3	4.1	4.0	4.3	4.0	3.7	3.5	3.4	3.3	3.3	3.2	2.9	2.9	3.1	3.4	3.1	2.7	2.5	2.7	2.7	4.5	2.5	3.5
23	2.8	2.9	2.7	2.8	2.7	2.7	2.6	2.5	2.5	2.6	2.6	2.3	1.7	1.3	1.1	0.8	0.8	0.5	0.3	0.6	0.9	0.6	0.2	0.3	2.9	0.2	1.7
24	0.2	-0.4	-0.9	-1.2	-1.0	-0.8	-0.4	0.4	0.9	1.2	1.7	2.1	2.6	3.4	3.6	3.7	3.4	3.6	3.7	4.0	3.7	3.1	3.0	2.8	4.0	-1.2	1.8
25	2.7	2.3	2.2	2.0	1.3	1.1	0.8	0.6	0.7	0.9	0.6	0.8	1.1	1.4	1.6	1.8	1.4	0.7	0.7	0.7	0.4	0.1	0.4	0.0	2.7	0.0	1.1
26	-0.3	0.0	-0.3	-0.3	-0.5	-0.7	-0.4	-0.3	-0.3	0.5	0.8	1.7	2.7	3.0	3.4	3.3	3.0	2.4	2.0	1.5	1.0	1.0	0.7	-0.1	3.4	-0.7	1.0
27	-0.1	-0.4	-0.6	-0.8	-0.7	-1.1	-1.0	-1.2	-1.2	-0.6	0.0	1.1	1.6	2.2	2.7	3.0	2.5	1.3	0.9	0.4	-0.3	-0.5	-1.0	-1.2	3.0	-1.2	0.2
28	-1.2	-0.6	-1.1	-1.4	-1.3	-1.7	-1.1	-1.7	-1.9	-1.5	-0.8	-0.1	0.8	1.4	1.7	1.4	0.9	0.3	0.0	0.4	0.2	0.2	0.5	0.3	1.7	-1.9	-0.3
29	0.2	0.3	0.3	0.0	-0.2	-0.5	-0.5	-0.8	-0.8	-0.4	0.6	1.3	1.6	1.8	2.0	2.0	1.9	1.9	1.6	1.5	1.4	1.4	1.4	1.5	2.0	-0.8	0.8
30	1.5	1.5	1.6	1.4	1.2	0.9	0.9	0.8	0.7	0.5	0.6	0.7	1.1	1.4	1.6	1.3	1.1	1.1	0.6	0.2	0.1	-0.1	-0.2	-0.4	1.6	-0.4	0.8
31	-0.4	-0.6	-0.8	-0.9	-1.0	-1.1	-1.3	-1.5	-1.9	-1.7	-1.7	-1.8	-1.5	-1.5	-1.8	-1.4	-1.6	-2.0	-2.1	-2.2	-2.3	-2.6	-2.8	-3.2	-0.4	-3.2	-1.7
Max.	**8.5**	**8.5**	**8.4**	**8.6**	**8.6**	**8.6**	**8.8**	**9.1**	**9.3**	**9.4**	**9.5**	**9.9**	**10.3**	**10.4**	**10.4**	**10.9**	**10.3**	**9.7**	**9.4**	**9.5**	**9.5**	**9.6**	**9.9**	**9.4**	**10.9**		
Min.	**-1.2**	**-0.6**	**-1.1**	**-1.4**	**-1.3**	**-1.7**	**-1.3**	**-1.7**	**-1.9**	**-1.7**	**-1.7**	**-1.8**	**-1.5**	**-1.5**	**-1.8**	**-1.4**	**-1.6**	**-2.0**	**-2.1**	**-2.2**	**-2.3**	**-2.6**	**-2.8**	**-3.2**		**-3.2**	
Avg.	**4.0**	**4.0**	**4.0**	**3.9**	**3.9**	**3.8**	**3.9**	**3.8**	**3.9**	**4.1**	**4.4**	**4.7**	**5.1**	**5.3**	**5.4**	**5.5**	**5.3**	**4.9**	**4.7**	**4.5**	**4.3**	**4.1**	**3.9**	**3.7**			**4.4**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-3.1	-2.9	-2.4	-2.3	-2.6	-2.5	-2.5	-2.5	-2.7	-2.2	-1.7	-1.0	-0.5	-0.3	-0.1	-0.1	-0.2	-0.4	-0.6	-0.5	-0.6	-0.8	-1.0	-1.0	-0.1	-3.1	-1.4
2	-1.2	-1.2	-0.9	-0.7	-1.1	-1.4	-1.8	-2.1	-2.3	-1.3	-1.4	-1.1	0.0	0.9	1.3	1.8	1.8	1.5	1.6	1.5	1.1	0.8	0.8	0.4	1.8	-2.3	-0.1
3	0.7	0.4	0.6	0.9	0.9	0.0	0.2	-0.2	-0.5	-0.6	-0.9	-1.4	-2.8	-3.6	-4.6	-4.7	-4.7	-5.3	-5.6	-5.6	-5.7	-5.8	-5.5	-5.9	0.9	-5.9	-2.5
4	-6.1	-6.5	-6.9	-6.9	-6.7	-6.1	-5.9	-5.7	-5.9	-6.2	-6.3	-6.0	-5.5	-4.9	-4.9	-5.1	-5.1	-5.0	-5.3	-5.4	-5.4	-5.8	-6.3	-6.6	-4.9	-6.9	-5.9
5	-6.7	-7.2	-7.2	-7.2	-7.0	-6.8	-6.9	-6.7	-6.3	-6.2	-6.0	-5.5	-5.1	-3.8	-3.2	-3.2	-3.1	-3.3	-3.5	-3.4	-4.1	-3.7	-3.9	-4.0	-3.1	-7.2	-5.2
6	-3.7	-3.9	-4.3	-4.9	-4.8	-4.2	-3.0	-1.4	-0.1	0.3	0.4	0.6	-0.5	-1.3	-1.4	-1.6	-1.8	-2.1	-2.5	-2.8	-3.7	-4.3	-4.7	-5.9	0.6	-5.9	-2.6
7	-6.4	-6.6	-6.4	-6.9	-7.8	-7.8	-8.3	-8.7	-8.6	-8.9	-8.7	-8.3	-8.0	-7.7	-7.0	-6.6	-6.6	-7.2	-7.1	-7.2	-7.4	-7.6	-7.5	-7.1	-6.4	-8.9	-7.5
8	-6.9	-6.7	-6.7	-6.9	-7.3	-7.3	-7.1	-7.2	-7.0	-6.4	-5.7	-5.0	-4.5	-4.0	-3.5	-3.4	-4.0	-4.4	-4.2	-4.1	-4.3	-4.2	-3.9	-3.6	-3.4	-7.3	-5.3
9	-3.4	-3.2	-3.3	-3.6	-3.7	-3.8	-3.7	-3.5	-3.3	-3.0	-2.6	-2.3	-2.2	-2.0	-1.9	-2.1	-2.3	-2.7	-3.0	-3.1	-3.2	-3.0	-2.6	-2.7	-1.9	-3.8	-2.9
10	-2.7	-2.7	-2.3	-2.2	-2.5	-2.7	-2.4	-2.2	-3.0	-3.0	-3.0	-2.9	-2.9	-2.8	-3.2	-3.5	-3.7	-4.2	-4.4	-4.5	-4.5	-4.1	-3.8	-3.7	-2.2	-4.5	-3.2
11	-3.8	-3.9	-4.1	-4.4	-5.1	-5.3	-5.4	-5.4	-5.4	-5.6	-5.3	-5.0	-5.0	-4.9	-4.8	-5.0	-5.2	-5.2	-5.2	-5.1	-4.9	-4.5	-4.2	-3.9	-3.8	-5.6	-4.9
12	-3.9	-3.8	-3.7	-3.1	-2.6	-2.3	-2.2	-1.8	-1.2	-1.0	-0.3	-0.1	-0.1	0.1	0.0	-0.1	-0.7	-2.0	-2.4	-2.6	-2.7	-2.8	-2.7	-2.3	0.1	-3.9	-1.8
13	-2.3	-2.1	-2.2	-2.0	-2.1	-2.4	-2.5	-2.6	-2.5	-2.5	-2.5	-2.3	-2.2	-2.2	-2.2	-2.2	-2.2	-2.4	-2.5	-2.2	-1.1	-1.4	-2.5	-2.2	-1.1	-2.6	-2.2
14	-2.6	-2.5	-2.5	-2.1	-1.9	-2.0	-1.2	-1.2	-0.5	0.1	1.1	1.3	2.0	2.4	3.0	3.2	3.1	2.8	2.7	2.6	2.3	2.6	3.2	3.7	3.7	-2.6	0.8
15	4.0	4.2	4.4	4.2	4.0	3.5	2.7	2.9	3.1	2.3	2.3	2.1	3.2	4.5	4.3	4.3	3.9	3.6	3.0	2.7	1.7	0.6	0.2	0.0	4.5	0.0	3.0
16	0.3	2.1	2.7	2.0	1.4	1.2	0.9	1.7	2.6	2.8	2.8	2.7	2.9	3.0	3.2	3.3	2.9	2.7	3.0	3.7	3.4	3.1	4.0	3.2	4.0	0.3	2.6
17	3.3	3.7	3.4	3.3	3.1	2.7	2.9	2.8	2.5	2.6	2.6	2.9	3.9	4.5	4.7	4.0	3.4	2.9	2.4	2.1	1.1	0.7	0.7	1.6	4.7	0.7	2.8
18	3.1	2.3	3.1	3.7	2.3	2.2	2.6	3.0	3.3	3.7	3.8	3.9	3.8	3.6	3.5	3.9	4.3	4.0	4.0	3.8	0.1	-1.4	-1.7	-1.7	4.3	-1.7	2.6
19	-1.7	-1.5	-1.1	-1.3	-1.8	-1.9	-1.5	-1.3	-1.6	-2.0	-2.2	-2.2	-2.6	-3.0	-3.2	-3.3	-3.5	-3.6	-3.8	-4.1	-4.1	-4.4	-4.6	-4.8	-1.1	-4.8	-2.7
20	-5.1	-5.4	-5.5	-5.3	-5.1	-4.9	-4.7	-4.6	-4.0	-3.6	-2.4	-1.8	-1.3	-1.2	-1.5	-2.0	-2.5	-2.9	-3.0	-3.1	-3.0	-3.0	-3.1	-3.1	-1.2	-5.5	-3.4
21	-3.5	-3.7	-3.8	-3.7	-2.6	-2.1	-2.0	-2.1	-2.1	-2.3	-2.6	-3.0	-3.5	-3.9	-4.1	-4.1	-4.4	-5.0	-5.3	-5.5	-6.0	-6.2	-5.9	-6.0	-2.0	-6.2	-3.9
22	-6.4	-6.9	-7.2	-7.4	-7.6	-8.0	-7.7	-7.5	-7.3	-6.9	-6.8	-6.7	-6.7	-6.9	-6.7	-6.4	-6.9	-7.0	-7.0	-6.4	-6.2	-6.4	-6.5	-6.7	-6.2	-8.0	-6.9
23	-7.1	-7.3	-7.5	-8.1	-8.6	-9.5	-10.6	-11.4	-12.3	-13.6	-13.4	-13.6	-14.2	-14.4	-14.6	-14.8	-14.8	-14.8	-14.9	-14.8	-14.6	-14.3	-14.4	-14.6	-7.1	-14.9	-12.4
24	-14.6	-14.4	-14.3	-13.9	-13.6	-13.6	-13.1	-13.2	-13.2	-13.0	-12.8	-12.8	-12.8	-13.0	-13.2	-13.6	-14.5	-15.0	-15.8	-15.7	-15.6	-15.3	-15.3	-15.4	-12.8	-15.8	-14.1
25	-15.4	-15.4	-15.3	-15.2	-14.9	-15.0	-14.9	-15.1	-15.4	-15.4	-15.1	-14.6	-14.2	-14.2	-14.1	-13.9	-13.7	-13.2	-12.8	-12.7	-12.6	-12.4	-12.1	-11.7	-11.7	-15.4	-14.1
26	-11.5	-11.2	-10.9	-10.7	-10.0	-9.9	-9.8	-9.6	-9.1	-8.8	-8.4	-8.1	-8.0	-7.9	-8.0	-8.1	-8.3	-8.3	-8.5	-8.4	-8.9	-9.1	-9.4	-9.3	-7.9	-11.5	-9.2
27	-9.5	-9.5	-9.6	-9.8	-9.8	-10.1	-10.0	-9.9	-10.2	-9.9	-9.6	-9.3	-8.9	-8.8	-8.2	-8.1	-8.5	-9.0	-9.4	-9.4	-9.2	-8.5	-8.2	-8.1	-8.1	-10.2	-9.2
28	-8.0	-7.8	-7.3	-7.5	-7.6	-8.1	-8.0	-8.2	-8.0	-7.7	-6.9	-6.2	-5.7	-5.3	-5.0	-4.9	-4.9	-5.0	-5.0	-5.1	-5.3	-5.3	-5.2	-4.9	-4.9	-8.2	-6.4
29	-5.0	-4.9	-5.3	-5.3	-5.4	-5.3	-5.4	-5.2	-5.1	-5.1	-5.0	-3.3	-0.7	-1.1	-0.7	-0.1	0.1	-0.3	-0.4	0.0	0.3	0.2	0.1	0.2	0.3	-5.4	-2.6
30	0.7	0.7	0.3	0.6	0.4	0.1	0.5	0.1	-0.1	0.2	1.1	0.3	-0.3	-0.4	-0.1	-0.1	-0.6	-0.9	-1.1	-1.4	-1.1	-1.0	-1.6	-1.6	1.1	-1.6	-0.2
Max.	**4.0**	**4.2**	**4.4**	**4.2**	**4.0**	**3.5**	**2.9**	**3.0**	**3.3**	**3.7**	**3.8**	**3.9**	**3.9**	**4.5**	**4.7**	**4.3**	**4.3**	**4.0**	**4.0**	**3.8**	**3.4**	**3.1**	**4.0**	**3.7**	**4.7**		
Min.	**-15.4**	**-15.4**	**-15.3**	**-15.2**	**-14.9**	**-15.0**	**-14.9**	**-15.1**	**-15.4**	**-15.4**	**-15.1**	**-14.6**	**-14.2**	**-14.4**	**-14.6**	**-14.8**	**-14.8**	**-15.0**	**-15.8**	**-15.7**	**-15.6**	**-15.3**	**-15.3**	**-15.4**		**-15.8**	
Avg.	**-4.3**	**-4.3**	**-4.2**	**-4.2**	**-4.3**	**-4.4**	**-4.4**	**-4.3**	**-4.2**	**-4.1**	**-3.8**	**-3.6**	**-3.4**	**-3.3**	**-3.2**	**-3.2**	**-3.4**	**-3.7**	**-3.9**	**-3.9**	**-4.1**	**-4.2**	**-4.3**	**-4.3**			**-4.0**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-1.9	-1.9	-2.0	-2.0	-2.1	-2.8	-3.4	-3.7	-4.2	-4.3	-4.5	-3.9	-3.8	-4.2	-4.2	-4.5	-5.0	-4.1	-5.2	-5.1	-5.4	-5.1	-4.7	-4.9	-1.9	-5.4	-3.9
2	-5.2	-5.6	-5.0	-5.1	-5.2	-4.9	-4.9	-5.6	-7.6	-8.5	-8.8	-9.0	-8.8	-8.8	-8.9	-9.3	-9.7	-10.2	-10.4	-10.1	-10.2	-10.3	-10.9	-11.1	-4.9	-11.1	-8.1
3	-11.3	-11.5	-11.6	-11.9	-11.6	-11.3	-11.5	-11.6	-11.6	-11.8	-11.8	-11.6	-11.4	-11.5	-11.4	-11.4	-11.3	-10.8	-11.1	-11.4	-11.7	-12.0	-12.1	-12.1	-10.8	-12.1	-11.5
4	-12.1	-11.8	-11.4	-11.1	-10.3	-9.8	-9.2	-7.3	-6.8	-6.6	-6.8	-6.8	-6.6	-6.1	-5.7	-5.3	-4.8	-4.8	-5.1	-5.2	-4.5	-4.5	-3.4	-3.5	-3.4	-12.1	-7.1
5	-4.3	-4.1	-4.3	-4.1	-2.2	-3.2	-1.8	-0.6	0.5	1.0	0.5	0.4	0.1	0.4	0.4	0.8	0.9	1.0	1.4	2.0	2.9	3.1	2.6	2.7	3.1	-4.3	-0.2
6	3.0	3.4	3.5	2.8	2.5	2.7	3.3	3.5	3.4	2.7	3.1	2.9	3.3	3.2	2.4	1.0	1.2	1.7	1.5	2.0	2.5	2.9	3.7	4.7	4.7	1.0	2.8
7	4.6	4.1	3.2	2.9	3.4	3.8	3.7	3.6	3.3	3.2	3.6	3.5	3.3	3.0	2.9	3.0	3.4	4.0	4.5	4.4	4.4	4.1	4.3	4.4	4.6	2.9	3.7
8	4.5	5.3	5.3	4.6	3.7	3.5	3.3	3.1	3.2	3.2	4.8	6.0	6.2	6.0	5.6	5.7	5.6	5.6	5.7	5.8	5.7	5.8	5.8	5.7	6.2	3.1	5.0
9	5.6	5.7	6.0	5.9	5.8	5.8	5.6	5.5	3.9	3.2	3.6	4.5	5.2	5.7	6.2	5.5	6.0	6.0	5.9	5.0	4.0	4.1	4.2	4.2	6.2	3.2	5.1
10	3.8	3.1	3.6	3.6	3.7	3.9	3.5	3.5	3.4	3.6	4.9	5.1	5.1	5.6	5.9	5.5	4.9	4.7	4.8	4.4	3.6	2.9	2.6	3.1	5.9	2.6	4.1
11	3.3	3.1	2.7	2.1	2.2	3.2	2.2	0.4	-0.7	-0.8	-1.1	-2.0	-2.6	-3.0	-3.6	-4.3	-4.6	-5.0	-5.2	-5.3	-5.3	-5.3	-5.1	-5.0	3.3	-5.3	-1.6
12	-5.0	-5.6	-5.9	-5.7	-5.7	-5.2	-5.3	-5.3	-5.3	-5.0	-4.4	-3.7	-2.5	-2.8	-3.0	-1.9	-2.8	-2.4	-4.0	-4.2	-4.8	-5.2	-4.4	-4.3	-1.9	-5.9	-4.4
13	-4.2	-3.6	-3.6	-3.6	-3.8	-3.4	-3.0	-2.7	-2.4	-2.4	-1.9	-1.7	-1.5	-1.5	-1.1	-1.0	-0.6	0.3	0.5	0.4	0.3	0.7	0.9	1.1	1.1	-4.2	-1.6
14	1.2	1.3	1.5	1.8	1.9	2.2	2.6	2.8	3.1	3.5	3.8	4.2	4.5	4.5	4.5	3.4	1.7	1.3	1.1	1.0	0.9	1.3	1.5	2.0	4.5	0.9	2.4
15	2.5	3.5	3.8	4.5	4.7	4.4	4.5	3.9	4.5	5.0	4.8	4.4	4.0	4.4	4.3	4.8	5.0	5.1	5.7	5.3	5.4	7.0	7.3	7.3	7.3	2.5	4.8
16	7.2	7.1	7.0	6.8	6.8	6.7	6.7	6.6	6.6	6.6	6.7	6.4	6.0	5.8	5.5	4.8	4.3	3.3	2.4	2.1	1.5	2.1	2.5	2.4	7.2	1.5	5.2
17	2.4	1.6	1.1	1.2	1.3	1.3	1.3	1.4	1.4	1.5	1.6	2.5	4.7	5.5	5.9	5.7	4.9	4.7	4.5	5.0	5.4	6.2	5.9	5.7	6.2	1.1	3.4
18	5.7	6.0	6.4	6.5	6.5	6.9	5.4	4.9	5.3	5.5	5.6	6.5	7.1	7.1	7.3	7.8	8.2	7.7	7.4	7.6	7.3	7.2	6.8	7.1	8.2	4.9	6.6
19	7.5	7.7	7.7	7.6	7.5	7.2	7.0	6.5	6.5	6.6	6.6	6.8	7.0	6.8	6.7	5.9	4.8	4.5	5.5	5.8	5.6	4.9	4.2	4.5	7.7	4.2	6.3
20	4.2	3.2	4.1	4.5	4.2	4.3	3.8	2.6	1.3	0.8	0.9	1.8	1.7	2.2	2.0	2.0	1.5	0.8	0.0	0.2	0.6	0.5	-0.1	0.3	4.5	-0.1	2.0
21	0.8	-0.2	-0.2	0.3	0.4	0.3	0.2	0.2	0.1	0.8	0.9	0.7	0.3	-0.2	-0.1	0.1	0.1	0.2	0.5	0.6	0.8	0.7	0.3	0.2	0.9	-0.2	0.3
22	0.1	0.0	0.1	0.2	0.0	-0.1	-0.2	-0.3	-0.4	-0.2	-0.1	0.1	-0.2	-0.1	0.2	0.5	0.7	0.9	1.3	1.2	1.2	1.2	1.1	1.3	1.3	-0.4	0.4
23	1.3	1.1	1.1	1.1	0.9	1.0	1.0	0.8	0.8	0.7	0.7	0.6	0.7	0.8	0.9	0.9	0.8	0.6	0.8	0.9	1.1	1.3	1.6	1.6	1.6	0.6	1.0
24	1.7	1.9	1.5	1.8	1.8	2.0	2.2	2.1	2.3	2.5	1.9	2.4	2.6	2.9	1.8	1.9	1.9	3.4	4.0	4.3	4.3	4.2	3.5	3.5	4.3	1.5	2.6
25	3.5	3.5	3.9	3.5	3.6	3.1	2.9	2.9	3.6	4.2	4.2	4.9	4.8	4.8	4.9	5.3	5.6	5.6	5.6	5.8	5.8	5.7	5.2	4.6	5.8	2.9	4.5
26	3.6	2.2	2.5	2.9	2.9	2.8	3.0	3.4	4.5	4.9	4.0	4.2	4.4	4.5	4.5	4.5	4.5	4.8	4.3	4.5	5.5	5.2	5.1	5.4	5.5	2.2	4.1
27	5.8	6.1	6.3	6.3	6.3	6.7	6.5	5.8	6.4	7.4	7.3	7.6	7.5	7.5	6.5	6.8	7.3	7.6	7.9	8.3	8.0	7.6	7.0	6.2	8.3	5.8	6.9
28	6.4	6.0	6.2	6.5	5.9	6.0	5.0	5.1	5.9	5.8	5.8	6.3	6.5	6.5	6.6	6.5	6.4	6.5	6.8	6.7	6.4	5.9	4.7	4.1	6.8	4.1	6.0
29	3.3	3.1	2.7	2.2	2.2	2.8	3.1	3.2	3.0	3.5	3.3	3.7	4.2	4.2	3.8	3.1	2.9	2.9	2.9	3.3	4.2	4.9	5.1	5.4	5.4	2.2	3.5
30	5.3	5.3	5.6	5.8	5.9	6.1	6.3	5.2	5.4	5.2	4.9	5.2	6.9	7.1	7.3	7.8	7.7	7.2	7.3	7.2	7.0	7.0	7.0	6.8	7.8	4.9	6.4
31	6.7	6.7	6.6	6.2	5.6	4.9	5.1	5.1	5.1	4.6	5.1	5.2	5.4	4.9	5.2	4.9	4.9	4.3	4.4	4.3	4.5	4.3	4.3	3.9	6.7	3.9	5.1
Max.	**7.5**	**7.7**	**7.7**	**7.6**	**7.5**	**7.2**	**7.0**	**6.6**	**6.6**	**7.4**	**7.3**	**7.6**	**7.5**	**7.5**	**7.3**	**7.8**	**8.2**	**7.7**	**7.9**	**8.3**	**8.0**	**7.6**	**7.3**	**7.3**	**8.3**		
Min.	**-12.1**	**-11.8**	**-11.6**	**-11.9**	**-11.6**	**-11.3**	**-11.5**	**-11.6**	**-11.6**	**-11.8**	**-11.8**	**-11.6**	**-11.4**	**-11.5**	**-11.4**	**-11.4**	**-11.3**	**-10.8**	**-11.1**	**-11.4**	**-11.7**	**-12.0**	**-12.1**	**-12.1**		**-12.1**	
Avg.	**1.6**	**1.5**	**1.6**	**1.5**	**1.6**	**1.6**	**1.6**	**1.4**	**1.4**	**1.5**	**1.6**	**1.8**	**2.1**	**2.1**	**2.0**	**2.0**	**1.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.9**	**1.8**	**1.8**			**1.7**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.5	2.4	2.0	2.5	3.5	3.6	4.0	3.9	3.8	4.1	4.2	3.8	3.9	4.2	4.0	3.9	4.0	4.2	4.2	4.1	4.2	3.5	3.3	3.5	4.2	2.0	3.7
2	4.0	3.7	3.5	3.2	3.5	3.9	4.2	4.4	3.5	2.4	2.0	2.4	3.2	2.8	3.2	3.4	3.2	2.7	2.0	1.8	1.9	2.1	2.0	2.4	4.4	1.8	3.0
3	1.9	2.0	1.3	1.1	1.5	1.7	2.0	2.5	2.3	2.7	2.3	3.2	3.1	3.1	3.2	3.4	3.3	3.3	3.5	3.2	3.7	3.7	3.0	2.8	3.7	1.1	2.7
4	3.2	3.5	2.6	1.4	0.9	0.4	0.0	-0.5	-1.0	-1.1	-0.4	-0.5	-0.5	-0.5	-0.5	-0.3	-0.4	-0.8	-0.9	-0.9	-0.5	-0.3	-0.2	0.0	3.5	-1.1	0.1
5	1.0	2.9	3.7	3.6	3.3	3.6	3.6	3.0	2.3	1.0	0.4	1.0	1.0	0.5	0.3	0.6	0.2	-0.8	-1.1	-1.3	-1.5	-1.6	-2.2	-2.1	3.7	-2.2	0.9
6	-2.1	-2.3	-1.6	-2.4	-2.7	-2.7	-2.4	-2.3	-2.4	-2.3	-1.8	-0.7	-1.3	-1.0	-0.8	-0.7	-0.6	-0.8	-0.7	-0.6	-0.8	-0.8	-0.9	-1.2	-0.6	-2.7	-1.5
7	-0.1	-1.2	-1.6	-1.7	-2.0	-2.2	-2.0	-1.6	-1.2	-0.5	3.2	4.8	4.7	3.7	2.6	2.8	3.1	2.8	2.9	3.9	4.0	3.8	3.6	3.5	4.8	-2.2	1.5
8	4.2	4.7	4.7	4.6	4.8	4.4	4.1	4.2	4.6	4.9	5.4	5.0	5.2	5.3	3.8	3.6	2.8	2.4	2.0	1.8	1.2	0.7	0.8	0.4	5.4	0.4	3.6
9	0.4	0.8	0.9	0.7	0.5	0.5	0.6	0.7	0.6	0.5	0.6	0.7	0.8	0.9	0.8	0.7	0.8	0.5	0.0	-0.4	-0.2	-0.2	0.1	0.2	0.9	-0.4	0.5
10	0.2	0.2	0.1	0.0	-0.1	0.4	0.6	0.4	0.3	0.5	0.9	0.9	0.8	1.0	0.8	0.4	-0.5	-1.2	-1.5	-1.8	-1.8	-2.1	-2.1	-2.1	1.0	-2.1	-0.2
11	-2.3	-2.5	-2.1	-2.2	-2.0	-2.4	-2.8	-2.8	-2.8	-2.7	-2.3	-2.0	-1.8	-1.7	-1.6	-1.5	-1.5	-1.6	-1.8	-2.2	-2.7	-2.6	-2.7	-2.6	-1.5	-2.8	-2.2
12	-2.6	-2.4	-2.9	-2.9	-2.9	-3.2	-3.9	-4.0	-3.9	-4.0	-4.3	-4.1	-4.1	-4.1	-4.3	-4.6	-4.8	-5.1	-5.3	-5.3	-5.4	-5.5	-5.6	-5.6	-2.4	-5.6	-4.2
13	-5.5	-5.7	-5.9	-6.3	-6.4	-6.4	-6.7	-7.1	-7.3	-7.5	-7.5	-7.3	-7.1	-7.2	-7.4	-7.6	-7.9	-8.5	-8.9	-8.8	-8.8	-8.6	-8.7	-8.6	-5.5	-8.9	-7.4
14	-8.3	-8.0	-7.7	-7.3	-6.5	-5.1	-4.1	-3.8	-3.9	-3.9	-4.1	-3.9	-4.0	-3.8	-3.7	-4.3	-4.4	-4.3	-4.3	-4.4	-4.5	-4.4	-4.4	-4.4	-3.7	-8.3	-4.9
15	-4.3	-4.1	-3.9	-3.5	-3.2	-3.1	-3.2	-2.0	-1.2	-1.2	-0.2	-0.6	0.0	0.2	0.4	0.8	1.2	0.6	0.7	0.7	0.8	1.1	1.0	1.3	1.3	-4.3	-0.9
16	1.4	1.5	1.8	2.2	2.4	2.6	2.6	2.6	2.6	2.8	2.9					1.9	1.1	0.5	-0.1	-0.3	-0.7	-1.0	-1.2	-1.7	2.9	-1.7	1.2
17	-2.1	-1.3	-1.3	-1.3	-1.0	-1.1	-0.7	-0.8	-1.1	-1.3	-1.6	-1.4	-1.4	-1.4	-0.1	-0.2	-0.4	-1.0	-1.1	-2.1	-4.2	-5.9	-6.9	-7.2	-0.1	-7.2	-2.0
18	-7.3	-7.2	-7.0	-6.8	-7.0	-7.3	-7.3	-7.7	-7.9	-8.2	-8.0	-7.8	-7.7	-7.7	-7.5	-7.3	-7.7	-8.4	-8.6	-9.1	-9.2	-9.2	-9.3	-9.5	-6.8	-9.5	-7.9
19	-9.9	-10.1	-9.9	-9.7	-10.0	-10.7	-10.8	-11.0	-11.2	-11.3	-11.2	-11.1	-11.6	-11.5	-11.3	-11.5	-11.6	-11.5	-11.5	-11.6	-12.1	-11.5	-11.1	-11.1	-9.7	-12.1	-11.0
20	-11.4	-11.2	-10.7	-10.5	-10.0	-10.0	-10.1	-10.2	-10.2	-10.5	-10.4	-10.1	-9.7	-9.3	-8.8	-8.6	-8.5	-8.4	-8.7	-8.8	-8.8	-8.8	-8.8	-8.7	-8.4	-11.4	-9.6
21	-8.7	-8.5	-8.0	-7.2	-6.7	-6.7	-5.7	-5.4	-4.7	-4.6	-5.0	-5.4	-5.3	-5.5	-6.2	-7.1	-7.4	-9.0	-9.5	-10.0	-12.9	-14.3	-15.7	-17.2	-4.6	-17.2	-8.2
22	-19.1	-20.4	-21.4	-21.8	-22.5	-23.3	-23.6	-23.8	-23.4	-23.4	-23.4	-23.5	-23.4	-22.7	-22.6	-22.6	-22.3	-22.2	-21.7	-21.6	-21.1	-20.8	-20.4	-20.1	-19.1	-23.8	-22.1
23	-20.1	-20.0	-19.3	-19.5	-19.5	-19.2	-19.2	-19.3	-19.0	-18.6	-18.6	-18.9	-18.5	-18.8	-18.8	-18.7	-19.1	-19.2	-19.0	-19.2	-18.9	-18.6	-18.5	-18.6	-18.5	-20.1	-19.0
24	-18.1	-18.2	-18.0	-18.2	-18.2	-18.4	-18.6	-18.2	-18.1	-18.3	-18.0	-17.8	-17.0	-16.6	-16.2	-16.2	-16.6	-17.1	-17.3	-17.4	-17.6	-17.8	-17.9	-17.8	-16.2	-18.6	-17.6
25	-18.0	-17.9	-18.2	-18.4	-18.4	-18.4	-18.3	-18.3	-18.3	-17.9	-17.1	-16.3	-15.3	-14.6	-14.2	-14.3	-15.5	-16.4	-17.1	-17.8	-18.2	-18.8	-19.1	-19.1	-14.2	-19.1	-17.3
26	-19.1	-19.0	-19.1	-19.2	-19.4	-19.6	-19.7	-20.0	-20.3	-20.1	-19.6	-19.5	-19.3	-18.6	-18.4	-17.9	-17.9	-18.3	-18.4	-18.4	-18.0	-18.1	-18.7	-18.3	-17.9	-20.3	-19.0
27	-19.1	-18.3	-19.3	-20.7	-21.3	-22.1	-22.3	-22.7	-22.6	-22.1	-22.3	-22.2	-22.9	-22.9	-23.1	-23.5	-24.1	-23.8	-23.5	-23.8	-23.5	-22.6	-22.9	-22.5	-18.3	-24.1	-22.2
28	-22.5	-22.4	-22.4	-22.5	-22.8	-22.6	-22.5	-22.1	-21.9	-21.8	-21.2	-22.0	-21.5	-20.8	-20.6	-20.6	-21.0	-21.1	-21.5	-21.4	-21.0	-20.9	-21.3	-21.7	-20.6	-22.8	-21.7
29	-21.4	-21.5	-21.4	-21.4	-21.3	-21.0	-20.7	-20.7	-20.9	-21.1	-20.8	-20.4	-20.1	-19.3	-18.6	-18.1	-17.9	-18.8	-18.9	-18.7	-19.0	-19.3	-19.4	-19.2	-17.9	-21.5	-20.0
30	-18.8	-19.0	-19.2	-19.5	-19.2	-18.9	-18.6	-18.2	-18.6	-18.7	-18.9	-18.3	-17.8	-16.6	-15.6	-14.7	-14.3	-14.4	-14.2	-13.5	-11.9	-10.6	-9.9	-8.6	-8.6	-19.5	-16.2
31	-8.1	-8.0	-8.1	-7.9	-8.3	-8.7	-8.5	-8.6	-9.4	-10.7	-11.7	-11.8	-11.5	-11.4	-12.0	-11.9	-11.9	-12.1	-13.2	-14.6	-15.4	-15.8	-16.4	-16.7	-7.9	-16.7	-11.4
Max.	**4.2**	**4.7**	**4.7**	**4.6**	**4.8**	**4.4**	**4.2**	**4.4**	**4.6**	**4.9**	**5.4**	**5.0**	**5.2**	**5.3**	**4.0**	**3.9**	**4.0**	**4.2**	**4.2**	**4.1**	**4.2**	**3.8**	**3.6**	**3.5**	**5.4**		
Min.	**-22.5**	**-22.4**	**-22.4**	**-22.5**	**-22.8**	**-23.3**	**-23.6**	**-23.8**	**-23.4**	**-23.4**	**-23.4**	**-23.5**	**-23.4**	**-22.9**	**-23.1**	**-23.5**	**-24.1**	**-23.8**	**-23.5**	**-23.8**	**-23.5**	**-22.6**	**-22.9**	**-22.5**		**-24.1**	
Avg.	**-7.4**	**-7.3**	**-7.4**	**-7.5**	**-7.4**	**-7.5**	**-7.4**	**-7.4**	**-7.5**	**-7.5**	**-7.3**	**-7.5**	**-7.3**	**-7.1**	**-7.1**	**-6.8**	**-7.0**	**-7.3**	**-7.5**	**-7.7**	**-7.8**	**-7.9**	**-8.1**	**-8.1**			**-7.4**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-16.6	-16.8	-16.5	-16.6	-16.2	-15.7	-15.7	-16.1	-16.5	-17.9	-18.0	-17.5	-17.2	-17.4	-18.0	-18.1	-17.4	-18.9	-18.9	-19.4	-19.6	-19.3	-18.9	-17.9	-15.7	-19.6	-17.5
2	-18.2	-19.0	-19.2	-19.2	-19.4	-18.6	-18.8	-18.9	-19.2	-18.7	-17.7	-17.0	-18.6	-18.7	-18.2	-17.6	-17.7	-18.4	-18.0	-17.8	-17.8	-16.8	-15.0	-13.3	-13.3	-19.4	-18.0
3	-12.9	-12.0	-12.0	-11.7	-11.4	-10.9	-10.7	-10.4	-10.2	-9.8	-9.7	-9.7	-9.6	-9.4	-8.8	-8.0	-7.9	-7.6	-7.3	-7.1	-7.0	-7.0	-6.6	-6.2	-6.2	-12.9	-9.3
4	-5.9	-6.0	-5.9	-6.1	-6.2	-5.3	-4.8	-4.8	-4.5	-4.1	-3.6	-3.2	-3.1	-3.2	-3.3	-3.3	-3.0	-2.9	-2.9	-3.1	-3.0	-2.8	-2.7	-3.0	-2.7	-6.2	-4.0
5	-3.0	-2.8	-2.5	-2.4	-2.6	-2.8	-2.5	-2.1	-2.2	-1.2	-1.0	-1.4	-0.9	-0.2	0.3	1.4	1.7	2.1	1.0	0.7	0.7	0.2	0.4	0.8	2.1	-3.0	-0.8
6	1.2	1.3	1.0	1.1	1.5																				1.5	1.0	1.2
7					-3.4	-3.4	-4.1	-2.9	-2.0	-2.5	-2.9	-3.0	-3.5	-3.9	-4.1	-4.2	-4.3	-4.0	-4.5	-4.4	-4.2	-4.1	-3.8	-3.6	-2.0	-4.5	-3.6
8	-3.0	-2.8	-4.9	-4.9	-6.3	-6.4	-6.2	-5.9	-5.1	-2.0	-2.0	-2.0	-1.9	-1.7	-0.9	-0.7	-1.1	-1.5	-1.1	-1.2	-0.5	-0.2	0.1	0.5	0.5	-6.4	-2.6
9	0.6	0.5	0.3	-0.2	-0.9	-0.8	-1.7	-1.4	-1.5	-1.7	-1.4	-1.0	-0.1	0.5	0.9	1.4	2.1	2.7	2.6	2.7	3.0	2.0	2.6	2.6	3.0	-1.7	0.6
10	2.3	2.7	3.1	3.9	2.7	2.2	1.5	1.3	1.2	1.1	1.8	2.9	2.5	2.4	3.4	3.9	3.6	3.6	3.5	3.6	3.8	3.6	3.3	1.4	3.9	1.1	2.7
11	1.3	2.5	3.0	2.2	3.3	2.5	2.2	2.8	3.6	4.1	3.1	2.3	2.2	2.5	3.2	3.4	3.4	3.3	3.8	3.9	4.5	5.0	5.0	5.4	5.4	1.3	3.3
12	5.3	5.1	4.6	2.5	2.2	3.1	2.8	2.0	1.7	1.8	1.3	0.4	0.0	-0.7	-1.2	-1.6	-1.8	-2.2	-3.0	-3.0	-2.5	-1.6	-1.2	-1.9	5.3	-3.0	0.5
13	-3.0	-4.1	-4.2	-4.2	-3.7	-3.1	-3.0	-3.1	-3.2	-2.4	-1.7	-1.7	-1.2	0.8	0.6	1.7	1.1	2.2	2.3	2.9	3.5	3.9	3.8	3.8	3.9	-4.2	-0.5
14	3.9	4.4	4.4	4.7	4.6	4.5	4.5	4.5	3.9	3.6	3.5	3.2	3.5	3.7	4.0	4.0	4.0	4.0	3.9	3.8	3.8	3.6	3.8	3.8	4.7	3.2	4.0
15	4.3	4.9	4.8	5.7	6.0	6.0	5.9	5.9	6.4	6.7	6.5	4.7	2.0	4.7	4.7	4.7	4.5	4.2	2.5	1.6	2.1	2.1	1.7	0.4	6.7	0.4	4.3
16	0.1	0.3	0.4	0.5	0.9	1.2	1.6	1.8	1.2	1.0	2.1	2.1	1.4	1.6	1.5	2.2	2.5	2.2	1.8	1.1	0.3	0.0	0.2	0.3	2.5	0.0	1.2
17	0.3	0.9	1.2	1.4	1.5	1.9	2.6	2.2	1.8	1.8	2.2	2.7	3.3	3.5	3.3	3.1	2.8	2.4	2.5	2.4	2.4	2.6	3.4	3.2	3.5	0.3	2.3
18	3.3	2.6	2.2	2.6	2.7	2.5	3.2	2.4	3.7	3.9	3.9	3.5	3.1	2.8	3.0	2.7	2.5	2.0	1.0	0.6	0.6	0.2	0.2	0.5	3.9	0.2	2.3
19	0.6	1.3	3.0	2.7	2.2	1.8	1.6	1.4	1.0	0.4	0.5	1.0	1.7	2.1	2.2	2.2	2.3	2.4	2.6	2.5	2.1	1.6	1.4	1.2	3.0	0.4	1.7
20	0.9	0.6	0.5	0.4	0.6	0.6	0.6	0.6	0.3	0.5	0.8	1.1	1.2	1.1	0.7	0.8	0.8	0.8	0.9	0.3	-0.4	-0.9	-1.5	-2.2	1.2	-2.2	0.4
21	-2.1	-2.6	-2.9	-3.6	-3.9	-4.1	-4.4	-4.8	-4.9	-4.1	-3.4	-2.6	-2.6	-2.5	-2.4	-2.5	-2.5	-2.3	-2.3	-2.3	-2.1	-2.0	-1.8	-1.8	-1.8	-4.9	-2.9
22	-2.0	-2.4	-2.3	-2.5	-3.0	-3.4	-3.5	-3.6	-3.5	-3.5	-2.9	-2.2	-1.6	-1.6	-1.2	-1.1	-1.6	-2.2	-3.0	-3.5	-3.2	-3.0	-2.6	-2.7	-1.1	-3.6	-2.6
23	-2.7	-3.4	-3.2	-3.5	-3.5	-3.7	-3.9	-3.6	-3.4	-2.8	-1.5	-1.4	-1.4	-1.1	-1.4	-1.5	-1.4	-2.0	-2.4	-3.0	-3.5	-3.1	-3.1	-3.7	-1.1	-3.9	-2.7
24	-4.4	-4.9	-5.1	-5.5	-5.5	-6.1	-6.7	-6.9	-6.8	-6.8	-6.8	-5.8	-4.8	-4.4	-4.3	-3.9	-4.2	-5.6	-6.3	-6.7	-7.1	-7.2	-7.5	-7.6	-3.9	-7.6	-5.9
25	-7.9	-7.9	-7.6	-6.9	-6.6	-6.4	-6.8	-7.1	-6.7	-5.9	-5.1	-4.7	-4.4	-3.7	-1.2	0.7	0.4	-1.0	-2.2	-2.7	-2.8	-2.8	-3.0	-3.5	0.7	-7.9	-4.4
26	-3.8	-3.7	-3.7	-3.2	-3.1	-3.9	-4.3	-4.0	-3.9	-4.0	-3.7	-3.7	-3.6	-3.1	-2.7	-2.6	-2.7	-2.7	-3.2	-3.8	-4.3	-4.8	-5.3	-5.4	-2.6	-5.4	-3.7
27	-5.4	-5.7	-6.0	-6.3	-6.4	-6.5	-6.5	-6.5	-6.3	-6.1	-5.7	-5.9	-5.7	-6.3	-7.0	-7.6	-7.7	-8.0	-8.3	-8.3	-8.2	-8.5	-9.1	-9.4	-5.4	-9.4	-7.0
28	-9.2	-9.9	-9.9	-10.4	-10.7	-11.3	-11.6	-11.8	-11.6	-11.5	-10.7	-10.6	-9.8	-9.4	-9.4	-9.8	-9.8	-9.7	-9.8	-9.8	-9.6	-9.3	-9.9	-10.7	-9.2	-11.8	-10.3
Max.	**5.3**	**5.1**	**4.8**	**5.7**	**6.0**	**6.0**	**5.9**	**5.9**	**6.4**	**6.7**	**6.5**	**4.7**	**3.5**	**4.7**	**4.7**	**4.7**	**4.5**	**4.2**	**3.9**	**3.9**	**4.5**	**5.0**	**5.0**	**5.4**	**6.7**		
Min.	**-18.2**	**-19.0**	**-19.2**	**-19.2**	**-19.4**	**-18.6**	**-18.8**	**-18.9**	**-19.2**	**-18.7**	**-18.0**	**-17.5**	**-18.6**	**-18.7**	**-18.2**	**-18.1**	**-17.7**	**-18.9**	**-18.9**	**-19.4**	**-19.6**	**-19.3**	**-18.9**	**-17.9**		**-19.6**	
Avg.	**-2.8**	**-2.9**	**-2.9**	**-2.9**	**-3.0**	**-3.2**	**-3.3**	**-3.3**	**-3.2**	**-3.0**	**-2.7**	**-2.6**	**-2.6**	**-2.3**	**-2.1**	**-1.9**	**-1.9**	**-2.1**	**-2.4**	**-2.6**	**-2.5**	**-2.5**	**-2.5**	**-2.5**			**-2.5**

Total Hours in Month 672 **Hours Data Available** 649 **Data Recovery** 96.6%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-11.3	-11.1	-11.4	-11.9	-12.1	-12.2	-12.5	-12.7	-12.6	-12.2	-12.0	-11.3	-10.2	-8.6	-7.6	-7.2	-6.8	-6.8	-6.6	-6.9	-6.9	-6.8	-6.7	-6.7	-6.6	-12.7	-9.6
2	-6.7	-6.5	-6.3	-6.3	-6.4	-6.8	-7.0	-7.0	-7.4	-7.3	-6.7	-6.3	-5.9	-5.5	-4.6	-3.3	-2.5	-2.2	-1.6	-1.3	-1.0	-0.9	-1.1	-1.3	-0.9	-7.4	-4.7
3	-1.3	-1.3	-1.1	-0.7	-0.8	-0.9	-1.1	-0.6	-0.4	-0.4	-0.4	-0.5	-0.5	-0.4	-0.4	-0.2	-0.5	-0.4	-0.5	-0.7	-0.7	-1.0	-1.5	-1.5	-0.2	-1.5	-0.7
4	-1.4	-1.6	-1.7	-1.8	-2.2	-2.1	-1.8	-1.7	-1.7	-2.1	-1.6	-1.3	-0.3	0.3	0.1	-0.3	-0.3	-0.9	-1.3	-1.3	-1.2	-1.3	-1.4	-1.5	0.3	-2.2	-1.3
5	-1.3	-1.6	-1.1	-1.4	-1.3	-1.0	-0.7	-0.8	-1.1	-1.1	-0.9	-0.4	-0.3	-0.3	-0.5	-0.2	-0.2	0.0	0.0	0.0	-0.3	-0.5	-0.6	-0.5	0.0	-1.6	-0.7
6	-0.9	-1.7	-1.9	-2.5	-2.7	-3.1	-3.4	-3.6	-3.5	-3.7	-3.4	-2.9	-2.9	-1.9	-2.3	-2.1	-2.2	-3.4	-4.3	-5.0	-5.3	-5.6	-5.6	-5.3	-0.9	-5.6	-3.3
7	-5.3	-5.3	-5.2	-5.4	-5.4	-5.3	-5.6	-5.7	-6.0	-6.3	-6.1	-5.2	-4.7	-5.0	-5.1	-5.3	-6.3	-6.9	-7.1	-7.3	-7.3	-7.5	-8.4	-8.8	-4.7	-8.8	-6.1
8	-9.2	-9.2	-9.4	-9.4	-10.8	-11.2	-11.0	-10.1	-10.2	-9.4	-8.9	-8.2	-7.4	-6.6	-7.0	-7.2	-8.0	-8.3	-8.3	-8.1	-8.0	-7.6	-7.5	-7.2	-6.6	-11.2	-8.7
9	-8.7	-8.5	-8.0	-7.4	-9.5	-11.6	-11.2	-10.4	-11.1	-10.9	-10.3	-10.1	-9.2	-9.2	-9.0	-8.6	-8.4	-8.2	-7.4	-7.5	-7.4	-7.3	-7.8	-8.1	-7.3	-11.6	-9.0
10	-9.0	-9.9	-10.2	-10.8	-11.0	-11.3	-11.4	-11.7	-11.0	-10.0	-8.7	-7.3	-5.9	-4.7	-4.5	-3.6	-3.6	-4.4	-4.1	-4.5	-4.5	-3.7	-3.7	-3.4	-3.4	-11.7	-7.2
11	-3.5	-3.5	-3.2	-3.3	-3.5	-3.8	-4.4	-4.4	-4.6	-3.8	-3.7	-3.8	-3.6	-3.0	-2.5	-2.2	-2.3	-2.7	-3.3	-3.5	-3.5	-3.7	-3.4	-3.1	-2.2	-4.6	-3.4
12	-3.0	-3.2	-3.0	-2.8	-2.6	-2.1	-2.1	-1.7	-1.5	-1.2	-0.9	-1.0	-0.5	-0.2	-0.3	-0.5	-0.1	0.4	0.5	0.2	0.2	-0.4	-0.5	-0.8	0.5	-3.2	-1.1
13	-1.1	-1.3	-1.4	-1.6	-2.4	-2.6	-3.2	-3.5	-2.8	-2.5	-1.5	-1.2	-0.8	-0.3	-0.6	-0.1	-0.6	-2.0	-2.5	-2.7	-2.9	-3.3	-4.4	-4.9	-0.1	-4.9	-2.1
14	-5.2	-4.3	-4.2	-4.3	-4.4	-4.6	-5.1	-5.3	-4.9	-4.3	-3.9	-2.4	-1.5	-1.0	-0.7	-0.4	0.3	-1.2	-2.3	-3.5	-4.6	-5.3	-5.9	-6.2	0.3	-6.2	-3.6
15	-5.8	-6.0	-6.0	-6.0	-6.1	-6.4	-6.8	-6.9	-7.2	-6.3	-5.5	-3.5	-1.7	-1.6	-0.7	-0.5	-1.5	-3.0	-3.2	-4.2	-4.2	-4.4	-4.2	-4.1	-0.5	-7.2	-4.4
16	-4.4	-4.4	-4.2	-4.3	-4.4	-4.3	-4.5	-4.8	-4.9	-4.4	-4.1	-3.5	-3.1	-2.6	-2.3	-1.8	-2.5	-2.9	-3.4	-4.4	-4.6	-4.6	-4.7	-5.1	-1.8	-5.1	-3.9
17	-5.2	-5.4	-5.9	-6.3	-6.9	-6.4	-6.5	-6.4	-5.9	-5.6	-5.2	-4.8	-4.8	-5.0	-5.2	-5.0	-4.7	-4.4	-4.3	-4.1	-4.4	-4.4	-4.1	-4.1	-4.1	-6.9	-5.2
18	-4.4	-4.3	-4.1	-4.2	-4.4	-4.1	-4.1	-3.9	-3.8	-3.6	-3.1	-2.5	-1.7	-1.9	-1.3	-0.9	-1.0	-1.4	-1.5	-1.6	-1.9	-2.0	-2.7	-2.9	-0.9	-4.4	-2.8
19	-2.8	-3.4	-3.5	-3.6	-4.0	-4.3	-4.6	-5.1	-4.6	-3.3	-2.9	-1.9	-1.0	-1.3	-1.2	-1.3	-1.5	-1.4	-1.4	-1.6	-2.4	-2.3	-2.3	-2.6	-1.0	-5.1	-2.7
20	-2.4	-2.2	-2.3	-2.2	-2.0	-2.2	-2.0	-1.8	-1.2	-1.0	-0.9	0.0	0.4	0.4	-0.7	-0.6	0.6	0.6	0.4	0.6	0.3	0.4	0.4	0.0	0.6	-2.4	-0.7
21	-0.3	-0.5	-1.2	-2.1	-1.8	-1.9	-2.1	-2.5	-2.7	-2.5	-2.2	-1.4	-0.2	0.6	1.9	2.8	1.5	0.6	0.5	-0.4	-1.1	-1.6	-1.6	-1.7	2.8	-2.7	-0.8
22	-1.5	-1.9	-2.3	-2.6	-2.9	-2.9	-3.5	-4.3	-2.8	-3.0	-3.5	-1.6	-1.8	-1.5	-1.4	-0.9	-0.8	-1.0	-1.1	-1.4	-2.1	-2.5	-2.7	-3.1	-0.8	-4.3	-2.2
23	-3.2	-3.4	-3.5	-3.6	-3.7	-3.4	-3.6	-3.6	-3.1	-3.0	-2.6	-2.2	-1.7	-1.5	-0.2	-0.1	0.2	0.2	-0.7	-1.2	-3.0	-3.4	-3.4	-3.6	0.2	-3.7	-2.4
24	-3.8	-4.2	-4.7	-5.1	-5.1	-5.3	-5.6	-5.2	-5.0	-4.9	-3.9	-3.1	-2.5	-1.7	-1.1	-0.8	-0.7	-0.9	-1.5	-2.4	-2.7	-2.8	-2.8	-2.7	-0.7	-5.6	-3.3
25	-2.5	-2.2	-2.2	-2.7	-3.4	-4.0	-4.1	-4.4	-4.3	-3.8	-3.1	-1.3	-0.3	0.7	0.3	0.1	0.1	-0.7	-1.4	-2.1	-2.4	-2.4	-2.1	-2.1	0.7	-4.4	-2.1
26	-2.1	-2.4	-2.4	-2.5	-2.4	-2.9	-3.7	-4.4	-4.6	-4.4	-3.1	-1.4	-0.3	0.6	0.3	0.8	1.3	-0.7	-1.8	-2.2	-3.0	-3.4	-3.7	-3.7	1.3	-4.6	-2.2
27	-3.6	-3.5	-3.0	-3.1	-2.9	-2.9	-3.2	-2.7	-0.6	0.3	2.2	2.8	2.7	2.6	2.6	2.4	2.6	1.6	1.0	0.6	-0.1	-1.1	-1.2	-1.2	2.8	-3.6	-0.3
28	-1.6	-1.0	-1.1	-0.5	-1.1	-0.4	-0.3	0.5	0.9	-0.1	1.2	2.5	1.9	2.1	1.7	2.3	2.5	1.4	1.1	0.6	-0.4	-0.5	-1.0	-1.4	2.5	-1.6	0.4
29	-0.1	0.3	-0.2	-0.3	-0.6	-1.0	-1.5	-1.8	-1.2	-0.7	0.3	1.4	3.0	3.3	1.7	1.7	1.8	1.1	0.2	-0.2	-0.9	-1.4	-1.1	-1.2	3.3	-1.8	0.1
30	-1.3	-1.3	0.0	1.1	1.0	0.8	-0.1	-0.3	-0.4	0.9	0.8	1.3	0.9	1.0	1.0	0.7	0.5	0.5	0.6	0.9	0.8	0.7	1.1	1.0	1.3	-1.3	0.5
31	1.1	1.1	1.3	1.3	1.3	1.2	1.3	1.5	1.9	2.2	1.9	1.6	1.7	1.9	1.6	1.5	1.7	1.5	1.5	0.2	-0.4	-0.9	-1.2	-1.2	2.2	-1.2	1.1
Max.	**1.1**	**1.1**	**1.3**	**1.3**	**1.3**	**1.2**	**1.3**	**1.5**	**1.9**	**2.2**	**2.2**	**2.8**	**3.0**	**3.3**	**2.6**	**2.8**	**2.6**	**1.6**	**1.5**	**0.9**	**0.8**	**0.7**	**1.1**	**1.0**	**3.3**		
Min.	**-11.3**	**-11.1**	**-11.4**	**-11.9**	**-12.1**	**-12.2**	**-12.5**	**-12.7**	**-12.6**	**-12.2**	**-12.0**	**-11.3**	**-10.2**	**-9.2**	**-9.0**	**-8.6**	**-8.4**	**-8.3**	**-8.3**	**-8.1**	**-8.0**	**-7.6**	**-8.4**	**-8.8**		**-12.7**	
Avg.	**-3.6**	**-3.7**	**-3.7**	**-3.8**	**-4.0**	**-4.2**	**-4.4**	**-4.4**	**-4.1**	**-3.8**	**-3.3**	**-2.6**	**-2.0**	**-1.6**	**-1.5**	**-1.3**	**-1.3**	**-1.8**	**-2.1**	**-2.4**	**-2.8**	**-3.0**	**-3.1**	**-3.2**			**-3.0**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

April *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-1.2	-1.2	-1.0	-0.7	-0.5	-0.5	-0.5	-0.4	-0.3	-0.2	-0.1	-0.1	0.4	-0.1	0.1	0.2	0.1	-0.6	-0.9	-0.9	-0.9	-0.9	-1.1	-1.2	0.4	-1.2	-0.5
2	-1.5	-1.2	-1.1	-1.3	-1.2	-1.6	-2.1	-2.2	-2.3	-1.6	-1.2	0.4	1.2	1.4	1.6	1.1	0.1	-0.4	-0.7	-1.1	-0.9	-1.1	-1.3	-1.2	1.6	-2.3	-0.8
3	-2.1	-1.9	-1.1	-0.4	0.0	-0.1	0.2	0.4	0.3	0.8	1.3	0.8	0.7	0.7	0.8	1.5	1.5	1.4	1.6	1.5	1.7	2.0	2.1	2.2	2.2	-2.1	0.7
4	3.0	3.0	2.7	1.5	1.5	1.5	1.6	2.0	2.1	2.2	3.2	3.7	3.0	3.1	3.2	3.2	2.9	2.2	2.0	1.7	1.6	1.6	1.5	1.3	3.7	1.3	2.3
5	1.7	3.9	4.6	5.1	3.5	3.0	5.3	4.9	5.5	5.7	4.6	3.8	3.4	3.4	3.9	3.8	3.8	2.6	1.7	0.9	0.6	0.3	-0.3	-0.9	5.7	-0.9	3.1
6	-1.1	-1.4	-1.6	-2.0	-2.7	-3.5	-3.8	-3.5	-3.1	-2.1	-0.7	0.1	0.9	1.6	1.4	1.9	1.9	1.4	0.8	0.2	-0.2	-0.3	-0.3	-0.2	1.9	-3.8	-0.7
7	0.0	0.2	0.3	0.5	1.0	2.0	2.2	2.0	2.1	2.3	2.5	3.8	4.1	5.0	5.7	5.2	5.2	4.8	4.1	4.1	3.9	3.9	4.1	4.0	5.7	0.0	3.0
8	4.0	4.0	3.8	3.6	3.5	3.3	2.3	1.7	2.1	1.8	2.1	2.1	1.9	2.0	2.0	2.0	2.0	1.9	1.4	1.6	1.0	0.8	1.0	0.9	4.0	0.8	2.2
9	0.8	0.7	0.7	0.7	0.6	0.5	0.5	0.6	0.8	1.2	1.9	3.6	4.5	3.0	2.1	1.5	1.3	1.3	1.2	1.1	1.2	2.4	2.8	2.8	4.5	0.5	1.6
10	2.5	2.0	1.6	1.1	1.5	1.5	1.1	1.2	0.9	0.7	0.2	0.0	-0.1	-0.1	0.0	0.3	0.3	0.3	0.1	-0.2	-0.2	-0.2	-0.6	-0.8	2.5	-0.8	0.5
11	-1.0	-1.3	-1.5	-1.8	-1.1	-0.5	-1.8	-1.5	-1.3	-0.8	0.1	0.6	1.5	1.6	0.1	-1.4	-1.2	-0.8	-0.9	-0.9	-0.8	-1.0	-1.0	-0.7	1.6	-1.8	-0.7
12	-0.6	-0.4	-0.4	-0.2	-0.3	-0.4	-0.4	-0.1	0.2	0.1	0.4	0.6	0.6	0.4	0.3	0.4	0.5	1.0	0.6	0.4	0.4	0.9	1.2	1.1	1.2	-0.6	0.2
13	0.8	0.7	0.1	0.0	-0.2	0.1	0.5	0.8	1.0	1.6	2.2	2.6	2.5	2.4	2.6	2.1	1.4	1.0	0.7	0.6	0.3	0.1	0.2	0.4	2.6	-0.2	1.0
14	0.5	0.2	-0.3	-0.7	-1.2	-2.0	-2.5	-2.6	-2.7	-2.7	-2.3	-2.1	-2.0	-1.6	-1.2	-0.7	-0.2	0.1	0.3	0.4	0.3	-0.1	-0.3	-0.4	0.5	-2.7	-1.0
15	-0.9	-1.7	-1.7	-2.2	-3.0	-2.9	-2.5	-2.3	-2.6	-3.4	-2.9	-3.3	-3.5	-2.5	-2.8	-2.3	-2.2	-2.6	-2.6	-2.9	-3.4	-3.8	-4.5	-4.8	-0.9	-4.8	-2.8
16	-5.2	-5.2	-4.8	-4.3	-3.3	-2.8	-2.7	-2.1	-1.6	-1.4	-1.0	-0.7	-0.7	-0.2	0.2	0.4	-1.1	-1.5	-0.9	-0.5	-0.1	1.0	0.0	-0.2	1.0	-5.2	-1.6
17	-0.5	-0.3	-0.1	0.2	0.2	0.2	0.4	-0.1	-0.3	0.2	0.6	1.1	2.6	2.1	2.1	2.1	2.3	2.4	2.8	2.5	2.0	1.6	1.0	1.2	2.8	-0.5	1.1
18	0.8	0.6	0.1	-0.1	-0.5	-0.4	-0.5	0.6	1.8	2.9	4.4	4.6	4.6	4.1	4.1	3.8	4.3	3.6	2.2	3.4	4.0	4.0	3.6	3.1	4.6	-0.5	2.5
19	2.9	1.9	0.9	0.4	-0.2	-0.4	-0.4	0.4	1.4	1.8	1.6	2.2	2.1	2.3	3.7	3.8	2.9	1.9	0.6	0.0	-0.7	-1.0	-1.7	-1.6	3.8	-1.7	1.0
20	-2.1	-2.4	-2.2	-1.9	-1.6	-1.3	-0.9	-0.5	0.1	0.3	0.3	1.6	2.5	2.1	1.8	1.2	1.1	1.6	1.3	0.6	0.6	0.8	0.8	0.6	2.5	-2.4	0.2
21	0.6	0.5	0.7	0.7	0.7	0.9	1.0	0.8	0.8	1.0	1.9	1.6	1.6	1.9	3.3	4.2	4.1	3.3	2.4	1.5	2.0	2.8	2.8	2.9	4.2	0.5	1.8
22	2.7	2.4	1.6	1.7	1.5	1.2	1.1	1.5	1.6	1.9	1.6	2.5	3.4	5.0	4.6	4.3	3.7	3.1	2.7	2.7	2.5	2.2	2.2	1.7	5.0	1.1	2.5
23	0.6	0.7	1.0	1.1	0.9	0.5	0.6	0.5	0.4	0.5	1.5	2.9	3.0	3.9	4.6	3.8	3.5	3.7	3.1	3.3	3.4	3.6	3.6	3.8	4.6	0.4	2.3
24	3.9	3.4	2.6	2.3	2.2	1.8	1.9	2.0	1.9	2.9	3.5	3.3	2.8	2.9	3.0	2.8	2.8	2.5	1.7	0.9	0.4	0.1	-0.2	-0.6	3.9	-0.6	2.1
25	-1.0	-1.1	-1.4	-1.7	-1.9	-2.4	-2.1	-1.8	-1.4	-0.6	0.8	1.8	2.2	0.8	0.6	0.9	0.9	1.1	0.9	1.4	1.5	1.5	2.0	2.1	2.2	-2.4	0.1
26	1.8	2.1	2.8	2.8	2.6	2.3	2.5	2.9	3.8	4.2	4.5	4.9	5.3	5.4	5.7	6.0	6.1	6.1	5.9	5.7	5.5	5.3	4.7	4.8	6.1	1.8	4.3
27	5.4	5.2	4.9	4.9	4.8	4.8	4.7	5.1	5.4	6.0	6.6	6.3	6.8	7.4	7.8	8.5	8.5	7.6	5.7	5.1	4.5	4.5	4.4	4.6	8.5	4.4	5.8
28	4.4	4.8	4.7	4.0	3.4	3.4	3.1	2.8	3.1	2.2	0.7	1.3	2.3	2.7	3.0	3.5	3.1	3.2	3.0	2.3	2.1	1.7	1.5	1.1	4.8	0.7	2.8
29	0.8	0.9	2.3	2.3	2.0	2.0	2.7	2.1	2.0	2.9	3.5	4.4	4.9	4.8	5.3	5.2	5.3	5.2	5.0	5.1	5.2	5.1	3.8	3.1	5.3	0.8	3.6
30	2.4	2.0	2.1	1.8	1.4	0.8	0.8	1.2	2.5	2.5	3.1	4.4	5.4	5.6	5.2	4.9	4.2	4.3	3.8	4.2	4.2	3.9	3.8	3.5	5.6	0.8	3.2
Max.	**5.4**	**5.2**	**4.9**	**5.1**	**4.8**	**4.8**	**5.3**	**5.1**	**5.5**	**6.0**	**6.6**	**6.3**	**6.8**	**7.4**	**7.8**	**8.5**	**8.5**	**7.6**	**5.9**	**5.7**	**5.5**	**5.3**	**4.7**	**4.8**	**8.5**		
Min.	**-5.2**	**-5.2**	**-4.8**	**-4.3**	**-3.3**	**-3.5**	**-3.8**	**-3.5**	**-3.1**	**-3.4**	**-2.9**	**-3.3**	**-3.5**	**-2.5**	**-2.8**	**-2.3**	**-2.2**	**-2.6**	**-2.6**	**-2.9**	**-3.4**	**-3.8**	**-4.5**	**-4.8**		**-5.2**	
Avg.	**0.7**	**0.7**	**0.7**	**0.6**	**0.5**	**0.4**	**0.4**	**0.5**	**0.8**	**1.1**	**1.5**	**2.0**	**2.3**	**2.4**	**2.5**	**2.5**	**2.3**	**2.0**	**1.6**	**1.5**	**1.4**	**1.4**	**1.2**	**1.1**			**1.3**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.4	3.4	3.3	3.5	3.8	3.9	3.7	3.9	4.4	5.2	5.5	5.9	6.7	7.1	7.2	7.2	6.9	6.6	6.5	5.8	5.5	4.6	4.5	4.1	7.2	3.3	5.1
2	3.5	2.8	2.9	2.9	2.8	3.1	3.1	3.0	2.9	3.2	3.7	3.4	3.4	3.9	5.1	5.9	6.2	6.2	6.2	5.9	5.7	5.2	4.0	4.3	6.2	2.8	4.1
3	4.9	5.0	4.9	4.7	5.1	5.2	4.8	5.5	6.7	7.1	7.3	7.5	7.9	8.1	8.2	8.1	7.9	6.8	6.4	5.6	5.1	5.1	4.8	4.4	8.2	4.4	6.1
4	4.2	3.9	4.5	4.9	4.8	4.4	3.6	3.6	4.6	4.9	5.2	5.6	5.5	5.2	4.7	4.8	5.0	4.9	4.7	4.7	4.8	4.8	3.9	3.7	5.6	3.6	4.6
5	3.2	2.8	2.7	2.5	2.4	2.7	2.6	2.9	3.1	3.5	3.7	3.7	4.1	4.4	4.1	3.8	3.9	3.9	3.8	3.8	3.6	3.4	3.3	2.4	4.4	2.4	3.3
6	2.1	1.9	2.0	1.9	1.8	1.6	1.8	1.9	1.8	2.0	2.2	3.3	3.9	4.6	4.6	4.1	4.0	3.8	3.4	3.3	3.0	2.8	2.6	2.1	4.6	1.6	2.8
7	1.7	1.4	1.2	1.0	0.8	0.4	0.3	0.3	0.4	0.3	0.6	0.7	0.8	1.0	1.2	1.1	0.9	1.0	0.8	0.6	0.3	0.3	0.3	0.7	1.7	0.3	0.8
8	1.0	1.2	1.0	0.0	-0.7	-0.6	0.0	0.3	0.9	1.2	0.8	1.0	1.1	2.1	2.8	3.4	3.6	3.9	4.2	4.2	4.2	4.9	4.7	4.2	4.9	-0.7	2.1
9	3.9	4.7	4.8	4.8	4.9	4.8	4.7	4.5	4.4	3.7	3.6	4.6	5.5	5.7	6.0	6.9	6.8	6.8	7.0	7.3	6.9	6.5	6.7	6.5	7.3	3.6	5.5
10	6.2	6.6	6.5	5.4	5.7	5.8	6.5	7.8	8.5	8.5	7.5	8.5	7.7	8.7	9.8	10.0	8.6	6.9	6.5	5.7	4.9	4.4	4.1	3.8	10.0	3.8	6.8
11	3.2	2.9	3.2	3.3	3.2	3.3	3.4	3.6	4.1	4.5	5.4	6.6	7.7	8.1	8.4	8.2	8.1	7.6	6.5	6.4	6.9	6.4	6.1	6.1	8.4	2.9	5.5
12	5.7	6.1	6.3	6.1	5.7	5.6	6.4	7.3	7.7	8.6	9.0	10.1	11.2	12.1	12.9	13.2	13.6	13.5	11.3	11.1	10.4	9.4	9.8	8.8	13.6	5.6	9.2
13	8.7	8.3	7.6	7.1	6.5	6.6	7.3	7.2	7.5	8.6	9.7	10.4	10.4	10.9	11.8	11.8	11.6	11.3	9.8	8.6	8.6	8.1	7.3	5.5	11.8	5.5	8.8
14	4.5	4.4	4.5	4.0	4.1	3.8	4.7	5.9	6.9	7.4	7.2	7.2	7.1	6.9	6.5	6.3	6.5	6.7	6.4	6.6	6.1	5.8	5.5	5.4	7.4	3.8	5.8
15	5.5	5.3	5.0	4.6	3.8	3.1	3.3	4.3	5.7	6.2	6.8	8.1	7.3	7.1	7.0	7.0	6.8	6.8	6.8	6.7	6.3	6.0	6.0	6.2	8.1	3.1	5.9
16	5.8	6.7	7.4	7.1	6.8	6.5	6.4	6.1	6.9	7.1	7.7	8.5	8.6	8.2	7.6	7.6	7.2	6.9	6.1	5.8	5.4	5.1	4.8	3.7	8.6	3.7	6.7
17	3.9	3.8	3.7	3.3	3.5	3.9	4.7	5.4	5.8	6.4	7.0	6.6	6.5	6.4	6.3	6.3	5.8	5.9	6.5	6.1	5.6	5.3	4.3	4.8	7.0	3.3	5.3
18	4.9	4.4	3.9	3.5	3.7	3.8	4.2	4.2	5.8	7.3	8.1	8.7	9.4	9.2	8.2	7.1	6.3	6.9	7.0	6.9	6.7	6.5	6.3	6.0	9.4	3.5	6.2
19	5.7	5.5	5.5	5.5	5.3	5.2	5.5	5.8	5.9	6.4	7.5	7.1	7.4	7.0	6.6	6.8	6.0	4.2	2.9	2.8	3.0	3.0	2.1	2.1	7.5	2.1	5.2
20	2.3	2.6	3.0	3.3	3.6	3.7	3.9	4.2	4.5	4.6	4.8	5.3	5.3	5.4	5.9	6.5	7.0	7.8	7.4	7.4	7.1	7.3	7.2	6.3	7.8	2.3	5.3
21	6.7	6.0	6.5	6.7	5.8	5.5	5.9	6.7	8.1	9.0	9.5	10.1	10.8	11.9	12.8	12.8	13.2	13.2	12.8	12.5	12.4	12.2	12.1	11.9	13.2	5.5	9.8
22	11.8	10.3	8.9	8.2	8.1	8.3	8.5	9.0	9.7	10.4	11.1	12.4	13.2	14.7	14.9	15.3	15.3	15.3	15.1	14.9	13.9	12.5	10.7	10.3	15.3	8.1	11.8
23	9.8	9.8	8.9	8.9	8.1	8.8	8.8	9.9	11.9	11.7	10.9	11.7	11.5	12.6	13.7	13.4	13.5	13.5	11.3	10.9	11.6	13.9	13.6	13.5	13.9	8.1	11.3
24	13.3	12.6	12.7	12.1	10.1	12.2	13.2	13.0	12.5	11.8	12.5	11.7	12.6	13.8	15.0	15.7	15.9	15.9	15.5	15.8	14.9	15.7	14.3	13.9	15.9	10.1	13.6
25	13.0	12.7	12.6	9.6	8.7	10.6	13.4	12.7	14.3	13.9	11.7	13.9	13.8	13.6	15.3	15.5	16.2	16.3	14.4	14.5	14.9	15.2	14.7	14.1	16.3	8.7	13.6
26	14.3	13.7	14.0	14.8	15.1	14.7	14.8	15.0	15.8	16.1	14.4	14.9	14.9	16.1	16.4	17.2	15.4	15.9	14.3	15.2	16.7	18.4	17.1	17.1	18.4	13.7	15.5
27	16.3	15.8	13.6	11.2	13.7	14.4	15.2	15.1	15.7	16.6	17.5	15.2	15.2	16.2	15.7	16.7	18.1	17.0	15.8	16.7	16.4	15.8	16.4	14.9	18.1	11.2	15.6
28	13.1	11.8	13.4	14.7	12.3	12.6	13.6	13.7	14.8	13.7	15.4	13.8	14.1	14.1	15.0	15.2	15.5	13.7	12.6	13.5	13.7	13.7	13.7	11.8	15.5	11.8	13.7
29	11.6	10.2	9.1	11.1	11.2	10.7	9.0	10.2	11.6	12.1	13.4	13.1	13.7	14.0	13.8	13.1	13.3	12.3	10.7	10.2	9.4	9.4	9.0	8.7	14.0	8.7	11.3
30	8.7	8.4	7.5	7.3	7.5	7.5	7.9	7.6	7.2	7.3	7.4	7.7	7.9	8.0	8.3	8.8	9.2	9.3	9.1	9.5	9.2	8.8	8.8	8.3	9.5	7.2	8.2
31	8.1	8.2	8.0	7.8	7.5	7.4	7.4	7.5	8.1	8.4	8.1	8.4	7.8	8.2	8.2	7.8	7.6	7.8	7.5	7.4	7.4	7.4	7.4	7.3	8.4	7.3	7.8
Max.	**16.3**	**15.8**	**14.0**	**14.8**	**15.1**	**14.7**	**15.2**	**15.1**	**15.8**	**16.6**	**17.5**	**15.2**	**15.2**	**16.2**	**16.4**	**17.2**	**18.1**	**17.0**	**15.8**	**16.7**	**16.7**	**18.4**	**17.1**	**17.1**	**18.4**		
Min.	**1.0**	**1.2**	**1.0**	**0.0**	**-0.7**	**-0.6**	**0.0**	**0.3**	**0.4**	**0.3**	**0.6**	**0.7**	**0.8**	**1.0**	**1.2**	**1.1**	**0.9**	**1.0**	**0.8**	**0.6**	**0.3**	**0.3**	**0.3**	**0.7**		**-0.7**	
Avg.	**6.8**	**6.6**	**6.4**	**6.2**	**6.0**	**6.1**	**6.4**	**6.7**	**7.4**	**7.7**	**7.9**	**8.2**	**8.5**	**8.9**	**9.2**	**9.3**	**9.2**	**9.0**	**8.4**	**8.3**	**8.1**	**8.0**	**7.6**	**7.2**			**7.7**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	7.2	7.3	7.7	8.7	8.3	7.8	8.1	8.6	9.0	9.4	10.4	10.0	10.2	9.8	9.1	9.4	10.3	11.1	9.9	9.6	9.3	8.8	8.9	9.8	11.1	7.2	9.1
2	9.4	8.9	8.9	8.8	8.9	9.3	9.7	10.1	11.2	12.2	12.7	13.8	14.9	16.8	18.2	17.7	17.7	17.4	16.4	16.0	15.7	15.5	14.6	13.2	18.2	8.8	13.2
3	13.0	12.6	12.7	13.4	13.1	12.3	11.8	11.5	11.5	11.9	12.7	13.6	14.5	15.6	16.2	16.7	16.8	16.3	15.1	14.6	14.7	14.2	13.6	13.4	16.8	11.5	13.8
4	13.0	12.8	12.1	10.7	8.9	9.2	9.4	9.6	10.4	12.0	11.8	10.1	10.4	10.9	10.7	10.7	10.6	10.4	9.8	10.0	10.3	10.7	9.9	8.2	13.0	8.2	10.5
5	7.3	6.8	6.7	6.5	7.7	8.6	7.8	8.4	9.5	10.9	10.5	10.6	10.6	10.7	10.5	10.8	10.9	11.2	10.8	10.5	10.1	9.9	9.3	9.5	11.2	6.5	9.4
6	8.0	7.3	7.3	7.1	6.0	7.1	8.2	9.5	10.7	9.9	9.8	10.1	10.9	11.1	11.4	11.4	11.1	10.1	9.4	9.7	9.6	9.5	9.1	9.1	11.4	6.0	9.3
7	9.1	9.2	9.6	9.5	9.1	8.8	8.8	9.0	8.5	8.1	8.6	8.9	8.9	8.7	8.3	8.2	7.7	7.5	7.7	7.9	7.9	7.7	7.7	7.6	9.6	7.5	8.5
8	7.7	7.8	7.7	7.8	7.7	7.8	7.8	7.7	7.9	8.2	8.1	8.9	9.6	10.1	10.4	10.9	10.6	10.4	10.0	9.5	9.6	9.2	8.6	8.7	10.9	7.7	8.9
9	8.8	8.9	8.8	8.4	8.1	8.0	7.9	8.0	7.9	8.0	8.5	9.2	9.7	10.0	10.0	10.8	11.5	10.4	8.8	8.3	8.1	8.2	8.1	7.8	11.5	7.8	8.8
10	7.8	7.7	7.6	7.6	7.7	7.8	7.7	7.6	7.8	7.9	8.1	8.9	9.0	8.6	8.7	8.6	8.5	8.4	8.1	8.1	8.0	8.0	8.1	8.1	9.0	7.6	8.1
11	8.2	7.7	7.1	6.7	6.4	6.6	7.0	7.3	7.7	7.6	7.5	7.4	7.9	8.4	8.0	8.1	8.2	8.9	9.0	9.1	9.4	9.2	9.3	9.2	9.4	6.4	8.0
12	9.0	8.9	8.7	8.8	8.8	8.9	9.1	8.9	8.9	9.2	9.4	9.1	9.1	9.2	9.4	9.6	9.2	8.8	8.9	8.5	8.5	8.6	8.4	8.2	9.6	8.2	8.9
13	8.1	8.1	8.0	7.9	7.5	7.4	7.4	7.6	7.8	8.1	8.3	8.6	8.8	9.4	10.1	10.6	9.8	9.1	9.1	9.0	9.0	8.8	8.6	8.4	10.6	7.4	8.5
14	8.4	8.4	8.3	8.4	8.6	9.0	9.3	9.3	9.7	10.2	10.3	10.0	9.7	9.5	9.8	10.4	11.1	11.8	12.6	12.8	12.9	12.6	12.5	12.5	12.9	8.3	10.3
15	12.3	11.8	11.5	11.5	11.4	11.4	11.6	10.3	10.1	10.5	10.9	11.5	11.3	10.2	9.6	9.8	10.4	10.6	10.5	10.7	10.3	10.2	10.2	10.3	12.3	9.6	10.8
16	10.1	10.0	10.0	9.9	9.6	9.4	9.5	9.7	9.4	9.6	10.0	9.9	9.9	10.4	10.6	10.8	10.2	10.2	10.4	10.5	10.5	10.3	10.3	10.3	10.8	9.4	10.1
17	10.0	9.9	9.8	9.4	9.3	9.3	9.3	9.4	9.3	9.6	10.0	10.9	10.5	10.3	10.2	10.3	10.5	11.0	10.4	10.5	10.3	9.8	9.7	9.8	11.0	9.3	10.0
18	9.7	9.8	9.8	9.8	10.1	10.4	10.2	10.7	11.1	11.1	10.8	10.7	11.0	11.3	11.2	11.0	10.9	10.7	10.6	10.5	10.5	10.4	10.1	10.2	11.3	9.7	10.5
19	10.2	9.9	9.9	10.2	10.3	10.3	10.4	10.5	11.8	12.4	13.2	13.7	14.1	14.0	14.6	15.3	13.6	11.8	9.9	9.3	9.1	9.0	9.1	9.1	15.3	9.0	11.3
20	9.7	10.9	9.9	9.4	9.1	9.4	9.3	9.6	10.1	10.2	10.2	10.1	9.2	8.5	7.8	8.7	9.7	10.0	9.3	8.6	8.4	8.1	7.9	7.6	10.9	7.6	9.2
21	7.0	6.6	6.1	5.8	5.9	6.5	6.6	7.4	9.0	10.5	10.3	10.1	10.8	10.9	11.8	12.0	12.1	12.3	11.6	11.3	11.7	11.1	10.2	10.1	12.3	5.8	9.5
22	10.0	10.2	10.2	10.4	9.9	9.5	9.5	9.5	9.1	8.8	8.7	8.8	8.9	8.6	9.2	9.4	9.5	9.4	9.6	9.7	9.6	9.2	9.2	8.5	10.4	8.5	9.4
23	8.0	7.8	7.9	7.8	8.1	8.3	8.6	8.8	9.1	8.9	9.1	9.9	10.1	9.7	9.8	9.9	9.9	10.3	9.9	9.9	9.6	9.4	9.0	8.4	10.3	7.8	9.1
24	8.5	7.8	7.3	6.9	6.8	7.9	8.6	9.7	10.9	12.0	10.9	10.7	11.5	13.0	13.0	13.3	13.8	13.9	13.1	11.9	12.0	11.9	11.4	11.2	13.9	6.8	10.7
25	10.4	11.0	11.1	10.6	9.4	9.6	10.8	11.1	11.0	11.5	11.3	11.2	11.4	11.4	11.5	11.8	11.9	11.6	10.7	10.6	10.5	9.9	9.5	9.5	11.9	9.4	10.8
26	9.3	8.9	9.1	9.2	9.3	9.2	9.2	9.5	10.1	9.7	10.0	9.6	9.6	9.4	9.5	9.9	9.7	9.5	9.5	9.7	9.8	9.7	9.4	9.2	10.1	8.9	9.5
27	8.5	8.3	7.4	7.1	7.3	8.9	9.8	10.4	10.3	11.1	10.6	10.5	10.6	10.7	11.0	11.5	12.3	12.1	11.1	11.0	14.2	17.5	16.9	16.8	17.5	7.1	11.1
28	16.2	15.2	14.5	14.3	14.3	13.9	13.9	14.6	14.5	13.9	14.1	14.2	14.3	15.1	15.1	14.1	14.2	14.5	14.1	14.2	14.2	13.9	14.1	14.6	16.2	13.9	14.4
29	15.0	14.9	14.7	14.6	14.5	14.6	14.8	14.2	14.9	14.7	13.6	13.3	13.0	11.3	9.9	10.9	11.5	11.5	11.3	11.3	11.2	11.1	10.9	10.9	15.0	9.9	12.8
30	10.9	10.5	10.2	9.9	9.6	9.5	9.6	9.8	10.2	10.7	11.3	11.2	11.3	11.7	11.1	10.9	11.0	10.5	10.3	10.6	13.0	13.0	13.0	12.7	13.0	9.5	10.9
Max.	**16.2**	**15.2**	**14.7**	**14.6**	**14.5**	**14.6**	**14.8**	**14.6**	**14.9**	**14.7**	**14.1**	**14.2**	**14.9**	**16.8**	**18.2**	**17.7**	**17.7**	**17.4**	**16.4**	**16.0**	**15.7**	**17.5**	**16.9**	**16.8**	**18.2**		
Min.	**7.0**	**6.6**	**6.1**	**5.8**	**5.9**	**6.5**	**6.6**	**7.3**	**7.7**	**7.6**	**7.5**	**7.4**	**7.9**	**8.4**	**7.8**	**8.1**	**7.7**	**7.5**	**7.7**	**7.9**	**7.9**	**7.7**	**7.7**	**7.6**		**5.8**	
Avg.	**9.7**	**9.5**	**9.4**	**9.2**	**9.1**	**9.2**	**9.4**	**9.6**	**10.0**	**10.3**	**10.4**	**10.5**	**10.7**	**10.8**	**10.9**	**11.1**	**11.2**	**11.1**	**10.6**	**10.5**	**10.6**	**10.5**	**10.3**	**10.1**			**10.2**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature at 10 meters (deg. C)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	11.9	11.2	11.2	10.8	10.3	10.7	11.9	12.2	13.0	14.1	11.8	10.6	10.6	10.6	10.4	10.3	9.5	9.4	8.8	11.8	18.1	16.7	16.1	17.3	18.1	8.8	12.0
2	17.3	16.7	16.5	14.5	13.9	13.8	13.5	13.7	13.6	13.9	15.6	16.8	14.7	14.8	14.6	16.5	20.4	20.1	19.9	19.9	19.8	18.3	15.9	12.5	20.4	12.5	16.1
3	11.7	11.1	10.5	10.2	10.2	10.3	9.9	9.8	9.9	10.2	10.4	10.5	10.3	10.2	10.2	10.2	10.3	11.1	11.0	10.9	10.7	11.0	10.6	10.6	11.7	9.8	10.5
4	11.0	11.4	11.2	10.8	10.5	10.9	11.5	12.5	12.6	11.8	11.9	11.9	11.8	11.8	11.6	11.4	11.6	11.5	11.0	10.9	10.9	10.8	10.8	11.1	12.6	10.5	11.4
5	11.5	11.3	11.0	10.4	10.4	10.8	10.9	10.5	10.7	11.2	10.8	10.4	10.3	10.3	10.4	10.5	10.5	10.6	10.8	10.9	10.8	10.8	10.6	10.5	11.5	10.3	10.7
6	10.5	10.4	10.4	10.4	10.4	10.5	10.6	10.7	11.0	11.2	11.2	11.4	12.0	11.8	11.3	11.3	11.4	11.5	11.6	11.5	11.5	11.3	11.3	11.1	12.0	10.4	11.1
7	11.0	11.0	11.0	11.0	11.0	10.9	10.8	10.8	10.9	10.9	10.9	10.9	11.3	11.6	11.1	11.1	11.3	11.1	10.8	10.5	10.5	10.3	10.1	10.0	11.6	10.0	10.9
8	10.0	10.2	10.1	10.1	10.1	10.4	11.2	12.4	12.9	13.8	14.3	14.7	14.7	14.8	15.4	15.1	14.2	14.3	15.0	15.8	15.9	15.7	14.5	13.2	15.9	10.0	13.3
9	13.0	12.7	12.5	12.4	12.2	12.9	13.4	14.0	14.4	14.6	13.8	13.1	13.2	13.2	13.3	14.0	15.2	15.4	13.3	12.2	11.7	11.8	11.9	11.9	15.4	11.7	13.2
10	11.8	11.7	11.6	11.4	11.5	11.6	11.6	11.9	11.5	11.3	11.2	11.5	11.7	12.8	12.5	12.2	11.8	11.6	11.0	10.8	10.8	10.9	10.9	10.7	12.8	10.7	11.5
11	10.5	10.4	10.3	10.2	10.2	10.3	10.4	10.6	11.0	12.3	14.4	14.4	14.7	13.7	12.3	12.1	12.8	13.5	12.8	12.5	12.2	11.7	11.2	10.9	14.7	10.2	11.9
12	10.5	10.4	10.0	9.7	9.1	9.3	10.9	12.1	13.9	15.7	17.2	15.2	14.5	14.6	15.2	17.3	18.9	21.0	22.0	21.9	21.4	21.7	20.8	19.4	22.0	9.1	15.5
13	18.9	20.6	20.0	16.3	18.6	18.5	17.0	16.2	15.3	14.9	14.9	15.1	15.3	15.3	14.9	14.6	14.1	13.9	13.7	13.6	13.1	12.6	12.3	12.3	20.6	12.3	15.5
14	12.2	11.8	11.2	11.5	11.4	11.5	11.7	12.1	12.3	12.6	12.9	13.2	13.9	13.6	13.6	12.8	12.6	12.3	11.9	11.7	12.1	12.0	11.8	11.4	13.9	11.2	12.3
15	11.2	11.1	11.4	11.6	11.2	11.0	11.3	11.5	12.5	13.2	14.2	14.6	15.4	15.7	14.1	13.4	13.1	12.7	11.9	11.6	11.4	11.3	11.3	11.4	15.7	11.0	12.4
16	11.5	11.6	11.7	11.5	11.0	11.1	10.1	10.2	10.3	10.4	10.7	10.9	11.3	11.6	11.5	11.6	11.9	11.5	11.3	11.2	11.2	11.0	10.9	10.8	11.9	10.1	11.1
17	10.6	10.0	10.1	10.2	10.0	9.9	10.4	10.9	10.6	10.9	11.1	11.5	11.6	10.6	10.3	10.2	10.3	10.2	10.0	9.8	9.9	10.0	9.7	10.1	11.6	9.7	10.4
18	10.7	10.7	10.3	10.3	10.3	10.0	10.2	10.3	10.5	10.4	10.2	10.0	9.8	10.0	10.3	10.9	11.5	11.6	11.8	11.4	12.2	11.9	11.2	11.7	12.2	9.8	10.8
19	12.0	11.8	11.5	11.6	12.2	12.5	12.7	13.0	13.8	14.7	15.0	15.0	15.1	15.6	15.9	16.0	15.7	16.0	16.4	16.4	15.9	13.9	14.5	15.3	16.4	11.5	14.3
20	15.1	14.5	14.1	13.1	12.9	14.6	13.5	15.1	15.8	16.4	16.2	16.3	16.1	15.8	16.5	15.9	16.5	16.4	17.1	16.8	13.8	11.4	11.4	11.6	17.1	11.4	14.9
21	11.6	13.1	13.0	13.1	12.3	13.7	14.8	15.3	15.2	15.5	15.7	15.7	15.7	15.6	15.9	15.5	12.7	12.5	12.2	12.3	14.5	13.1	12.1	12.2	15.9	11.6	13.9
22	11.8	11.4	11.1	11.1	11.0	12.2	12.8	12.6	12.4	12.6	12.8	12.8	13.0	12.8	11.1	10.4	10.3	10.4	10.7	10.7	10.5	10.4	10.3	10.2	13.0	10.2	11.5
23	10.7	10.7	11.1	11.1	10.3	10.1	10.2	10.8	11.1	11.6	12.3	12.3	12.7	13.4	14.0	14.1	12.3	11.3	12.9	13.2	13.1	12.8	12.6	12.7	14.1	10.1	12.0
24	12.6	12.5	12.1	11.7	11.7	12.1	12.5	12.4	12.6	12.9	13.5	13.6	13.2	12.6	10.8	10.2	10.1	10.1	10.0	10.1	10.1	10.1	10.0	10.7	13.6	10.0	11.6
25	10.6	10.6	10.6	10.7	10.5	9.7	9.6	9.9	9.9	10.1	10.4	10.8	11.1	10.8	11.4	11.7	12.3	12.0	12.1	12.4	12.3	12.1	11.6	11.6	12.4	9.6	11.0
26	11.6	11.1	10.2	9.7	9.7	10.2	10.6	13.1	13.6	13.8	14.2	14.6	14.5	14.6	15.1	15.1	15.4	15.0	14.5	14.2	14.2	14.2	14.2	13.9	15.4	9.7	13.2
27	13.7	13.5	13.3	13.1	13.2	13.3	13.0	12.9	13.6	14.8	15.9	17.1	17.2	17.6	15.4	15.3	15.0	14.3	13.2	13.0	13.1	12.6	12.3	12.7	17.6	12.3	14.1
28	12.3	11.7	11.0	11.8	10.9	11.3	11.2	11.8	12.5	13.3	13.7	13.2	12.8	12.1	12.0	11.4	11.5	11.3	11.2	11.4	14.8	14.9	13.6	12.4	14.9	10.9	12.3
29	12.3	12.3	12.5	12.2	11.6	11.8	11.8	11.2	11.8	12.2	12.5	12.6	13.4	13.8	13.9	13.7	13.4	13.2	12.6	12.5	12.0	11.5	11.3	11.2	13.9	11.2	12.4
30	11.3	11.1	11.1	11.2	11.2	11.2	11.0	10.7	11.3	11.7	11.7	11.6	11.7	12.2	12.0	12.2	12.9	13.6	14.0	14.2	14.3	13.7	13.6	14.1	14.3	10.7	12.2
31	14.4	14.3	14.1	14.0	14.1	14.0	13.8	14.3	14.5	14.8	15.7	16.2	16.2	16.8	16.7	16.4	15.6	15.1	14.6	14.4	14.5	14.5	14.1	13.4	16.8	13.4	14.8
Max.	**18.9**	**20.6**	**20.0**	**16.3**	**18.6**	**18.5**	**17.0**	**16.2**	**15.8**	**16.4**	**17.2**	**17.1**	**17.2**	**17.6**	**16.7**	**17.3**	**20.4**	**21.0**	**22.0**	**21.9**	**21.4**	**21.7**	**20.8**	**19.4**	**22.0**		
Min.	**10.0**	**10.0**	**10.0**	**9.7**	**9.1**	**9.3**	**9.6**	**9.8**	**9.9**	**10.1**	**10.2**	**10.0**	**9.8**	**10.0**	**10.2**	**10.2**	**9.5**	**9.4**	**8.8**	**9.8**	**9.9**	**10.0**	**9.7**	**10.0**		**8.8**	
Avg.	**12.1**	**12.0**	**11.8**	**11.5**	**11.4**	**11.6**	**11.8**	**12.1**	**12.4**	**12.8**	**13.1**	**13.2**	**13.2**	**13.2**	**13.0**	**13.0**	**13.1**	**13.0**	**12.9**	**12.9**	**13.1**	**12.7**	**12.4**	**12.2**			**12.5**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1																											
2																											
3																											
4																	0.03	0.05	-0.01	0.11	0.48	1.45	0.66	0.31	1.45	-0.01	0.38
5	0.19	0.18	0.19	0.23	0.26	0.23	0.09	-0.07	-0.13	-0.41	-0.63	-0.87	-1.60	-1.28	-1.14	-1.02	-0.86	-0.03	0.25	0.37	0.45	0.49	0.41	0.35	0.49	-1.60	-0.18
6	0.30	0.31	0.34	0.34	0.32	0.35	0.15	-0.04	-0.24	-0.53	-1.59	-1.48	-1.38	-1.85	-1.56	-2.16	-1.34	-1.00	0.04	0.75	1.14	1.87	0.91	0.99	1.87	-2.16	-0.22
7	0.90	1.19	1.41	1.60	1.62	1.53	0.19	-0.03	-0.22	-0.19	-0.27	-0.51	-0.58	-0.63	-0.72	-0.43	-0.20	0.01	0.36	0.46	0.49	0.50	0.61	0.64	1.62	-0.72	0.32
8	0.70	0.84	1.02	1.17	1.47	1.30	0.50	-0.51	-1.21	-1.11	-1.11	-1.21	-1.50	-1.66	-1.66	-1.64	-1.54	-0.93	0.09	0.50	1.12	1.20	1.81	1.88	1.88	-1.66	-0.02
9	1.47	1.30	1.54	1.46	1.20	0.80	0.12	-0.99	-0.82	-0.69	-1.09	-1.15	-1.53	-1.75	-1.40	-1.59	-1.53	-0.98	-0.11	0.23	0.72	1.55	1.72	1.45	1.72	-1.75	0.00
10	1.31	0.77	0.78	1.30	1.39	1.30	0.34	-0.64	-0.78	-0.65	-1.25	-1.53	-1.69	-1.71	-1.85	-2.03	-1.80	-1.18	-0.61	-0.10	0.71	1.68	1.42	1.08	1.68	-2.03	-0.16
11	0.75	1.06	0.48	0.83	1.11	0.64	0.64	-0.40	-0.51	-0.72	-1.09	-1.49	-1.83	-1.99	-1.77	-1.83	-1.73	-0.66	0.37	0.90	1.52	1.76	1.31	2.28	2.28	-1.99	-0.01
12	1.46	1.43	1.36	1.55	1.43	1.22	0.68	-0.57	-0.20	-0.41	-0.87	-1.22	-1.50	-1.55	-1.32	-1.55	-1.50	-0.55	0.31	0.36	0.37	0.24	-0.38	-0.33	1.55	-1.55	-0.06
13	-0.23	-0.21	-0.16	-0.06	-0.17	-0.18	-0.24	-0.20	-0.38	-0.43	-0.67	-0.81	-0.71	-0.74	-0.97	-1.04	-0.97	-0.87	-0.52	-0.32	-0.07	0.38	0.44	0.19	0.44	-1.04	-0.37
14	0.14	0.07	0.01	-0.02	0.00	-0.05	-0.01	-0.15	-0.26	-0.32	-0.53	-0.77	-1.19	-1.51	-1.84	-1.87	-1.90	-1.02	-0.08	0.07	0.43	1.11	1.10	0.56	1.11	-1.90	-0.33
15	0.29	0.20	0.16	0.12	0.09	0.10	0.10	-0.11	-0.24	-0.42	-0.13	-0.09	-0.20	-0.55	-1.13	-0.92	-1.26	-0.57	-0.11	0.10	0.12	0.20	0.13	0.14	0.29	-1.26	-0.17
16	0.49	0.50	0.40	0.55	0.54	0.38	0.37	0.10	0.20	0.11	0.19	-0.16	0.00	0.06	0.10	0.18	0.06	0.11	0.17	0.19	0.18	0.38	0.42	0.40	0.55	-0.16	0.25
17	0.26	0.35	0.30	0.26	0.25	0.33	0.34	0.25	0.24	0.39	0.29	0.19	0.24	0.29	0.21	0.22	0.22	0.25	0.39	0.36	0.33	0.48	0.55	0.45	0.55	0.19	0.31
18	0.33	0.38	0.53	0.41	0.31	0.40	0.40	0.31	-0.02	-0.18	-0.19	-0.13	-0.40	-0.32	-0.18	-0.18	-0.26	-0.21	-0.21	-0.11	-0.12	0.14	0.43	0.55	0.55	-0.40	0.07
19	0.92	0.66	0.66	0.86	0.82	1.05	0.78	-0.30	-0.75	-0.69	-0.74	-1.10	-1.28	-1.28	-1.26	-0.79	-0.16	0.13	0.37	0.41	0.46	0.47	0.47	0.67	1.05	-1.28	0.02
20	0.69	1.25	0.59	0.44	0.43	0.59	0.65	0.11	0.01	-0.28	-0.59	-0.73	-0.39	-0.68	-0.30	-0.22	-0.09	0.06	0.25	0.46	0.25	0.16	0.19	0.31	1.25	-0.73	0.13
21	0.36	0.10	0.19	0.09	0.10	0.09	0.04	0.25	0.25	-0.30	-0.95	-1.12	-1.18	-1.34	-1.43	-1.31	-0.78	0.55	1.02	1.42	1.87	1.96	1.86	2.00	2.00	-1.43	0.15
22	2.03	2.08	1.89	2.14	1.83	0.92	1.26	0.64	0.43	0.40	0.37	-0.01	-0.21	0.09	0.37	0.31	0.37	0.13	0.49	0.30	0.08	-0.20	-0.26	-0.21	2.14	-0.26	0.63
23	-0.12	-0.11	-0.03	-0.03	0.00	-0.04	-0.03	-0.03	-0.41	-0.64	-0.24	0.08	-0.41	-1.13	-1.06	-1.18	-0.95	0.23	0.87	0.92	0.86	1.35	1.21	0.78	1.35	-1.18	-0.01
24	0.53	0.81	0.75	0.31	0.35	0.25	0.39	0.43	-0.24	-0.92	-0.46	-0.56	-0.43	-0.34	-0.12	0.04	-1.17	0.05	0.28	0.45	0.57	0.78	1.00	0.88	1.00	-1.17	0.15
25	0.76	0.66	0.61	0.90	0.73	0.41	0.33	-0.01	-0.73	-0.27	-1.44	-1.28	-0.91	-0.89	-1.27	-1.12	-1.28	-0.46	0.10	0.71	1.27	1.17	1.23	1.10	1.27	-1.44	0.01
26	0.92	1.22	1.77	1.66	1.32	1.07	0.77	0.06	-1.02	-1.24	-1.23	-1.71	-1.16	-1.53	-0.96	-1.00	-0.41	0.86	1.32	1.22	0.59	0.29	0.20	0.22	1.77	-1.71	0.14
27	0.25	0.25	0.27	0.27	0.58	0.76	0.53	-0.10	-0.80	-0.77	-1.15	-0.88	-0.99	-1.40	-1.69	-1.22	-0.44	-0.03	0.05	0.02	0.17	0.19	0.15	0.29	0.76	-1.69	-0.24
28	0.63	0.70	0.75	0.53	0.30	0.19	0.21	0.16	-0.06	-0.12	-0.25	-0.44	-0.48	-0.56	-0.56	-0.37	-0.39	-0.17	0.08	-0.10	0.18	0.12	0.13	0.12	0.75	-0.56	0.03
29	-0.03	0.14	0.07	0.11	0.13	0.08	0.14	0.07	0.31	0.30	0.12	0.04	-0.07	-0.17	-0.32	-0.10	-0.01	0.03	0.15	0.23	0.32	0.09	0.26	0.37	0.37	-0.32	0.09
30	0.49	0.42	0.39	0.40	0.31	0.29	0.26	0.21	-0.03	-0.40	-0.93	-1.04	-0.58	-1.48	-0.67	-0.67	-0.29	0.03	0.21	0.22	0.29	0.35	0.36	0.31	0.49	-1.48	-0.06
31	0.29	0.37	0.35	0.29	0.36	0.31	0.43	0.23	0.10	0.03	-0.02	-0.35	-0.45	-0.87	-1.04	-0.95	-0.74	0.01	0.10	0.15	0.17	0.31	0.34	0.33	0.43	-1.04	-0.01
Max.	**2.03**	**2.08**	**1.89**	**2.14**	**1.83**	**1.53**	**1.26**	**0.64**	**0.43**	**0.40**	**0.37**	**0.19**	**0.24**	**0.29**	**0.37**	**0.31**	**0.37**	**0.86**	**1.32**	**1.42**	**1.87**	**1.96**	**1.86**	**2.28**	**2.28**		
Min.	**-0.23**	**-0.21**	**-0.16**	**-0.06**	**-0.17**	**-0.18**	**-0.24**	**-0.99**	**-1.21**	**-1.24**	**-1.59**	**-1.71**	**-1.83**	**-1.99**	**-1.85**	**-2.16**	**-1.90**	**-1.18**	**-0.61**	**-0.32**	**-0.12**	**-0.20**	**-0.38**	**-0.33**		**-2.16**	
Avg.	**0.60**	**0.63**	**0.61**	**0.66**	**0.63**	**0.53**	**0.35**	**-0.05**	**-0.28**	**-0.39**	**-0.61**	**-0.75**	**-0.83**	**-0.99**	**-0.95**	**-0.90**	**-0.75**	**-0.22**	**0.20**	**0.37**	**0.53**	**0.73**	**0.67**	**0.65**			**0.03**

Total Hours in Month 744 **Hours Data Available** 656 **Data Recovery** 88.2%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.38	0.42	0.41	0.48	0.37	0.92	0.65	0.26	-0.31	-0.82	-1.45	-1.64	-1.45	-0.92	-1.11	-1.03	-0.72	0.18	0.40	0.51	0.82	0.45	0.41	0.40	0.92	-1.64	-0.10
2	0.73	1.21	1.60	1.21	1.23	1.25	1.24	0.11	-0.93	-1.39	-1.13	-1.24	-1.05	-1.03	-1.07	-0.42	-0.24	-0.12	0.10	0.14	0.22	0.29	0.26	0.23	1.60	-1.39	0.05
3	0.24	0.24	0.42	0.29	-0.10	0.34	0.42	0.26	0.14	0.26	0.19	0.21	0.44	0.52	0.33	0.26	0.15	0.05	0.24	0.19	0.21	0.23	0.25	0.19	0.52	-0.10	0.25
4	0.13	0.16	0.39	0.41	0.42	0.41	0.25	0.22	0.21	0.02	-0.17	-0.27	-0.25	-0.28	-0.32	-0.42	-0.49	-0.18	-0.06	0.07	0.19	0.44	0.59	0.26	0.59	-0.49	0.07
5	0.18	0.25	0.57	0.86	0.52	0.31	0.49	0.10	0.16	0.20	0.09	0.05	0.04	-0.03	0.08	-0.02	-0.40	-0.50	-0.89	-0.36	-0.23	-0.19	-0.14	-0.14	0.86	-0.89	0.04
6	-0.13	-0.12	-0.12	-0.13	-0.07	-0.09	-0.12	-0.07	-0.30	-1.03	-0.80	-0.25	-0.60	-0.32	-0.58	0.04	-0.02	0.17	0.58	0.39	0.14	0.18	0.32	0.28	0.58	-1.03	-0.11
7	0.29	0.29	0.21	0.11	0.12	0.13	0.16	0.28	0.20	-0.06	-0.64	-1.07	-0.32	-0.69	-1.18	-0.58	-0.46	0.23	0.22	0.18	0.30	0.34	0.29	0.19	0.34	-1.18	-0.06
8	0.23	0.15	0.17	0.15	0.20	0.24	0.31	0.14	-0.65	-0.79	-1.22	-0.92	-0.95	-0.89	-1.00	-0.61	-0.29	-0.31	-0.02	0.41	0.55	0.61	0.77	0.40	0.77	-1.22	-0.14
9	0.25	-0.04	0.09	0.11	0.15	0.11	0.21	0.25	0.02	-0.03	-0.13	-0.14	-0.17	-0.12	-0.12	-0.13	-0.13	-0.12	-0.01	-0.05	0.06	0.13	0.62	0.86	0.86	-0.17	0.07
10	0.83	0.68	0.66	0.54	0.20	0.24	0.22	0.12	0.06	-0.17	-0.57	-0.73	-0.87	-0.68	-1.04	-0.78	-0.25	0.50	1.19	1.14	1.11	1.26	1.57	1.14	1.57	-1.04	0.27
11	1.39	0.83	0.62	0.49	0.46	0.21	0.11	0.35	0.03	0.16	0.03	0.03	0.07	0.09	0.04	0.10	0.01	0.04	-0.02	-0.12	-0.12	0.02	0.02	0.01	1.39	-0.12	0.20
12	-0.02	-0.01	0.01	0.08	0.06	0.21	0.51	0.45	0.08	-0.49	-0.16	-0.17	0.01	0.09	0.33	0.40	0.32	0.22	0.12	-0.08	0.11	0.25	0.20	0.13	0.51	-0.49	0.11
13	0.05	0.08	0.12	0.44	0.90	0.66	0.65	0.52	-0.01	-0.11	-0.29	-0.65	-0.56	-0.60	-0.17	-0.10	-0.05	0.09	0.20	0.22	0.36	0.48	0.39	0.36	0.90	-0.65	0.12
14	0.46	0.67	0.89	0.63	0.74	1.00	1.33	0.98	-0.48	-0.99	-0.98	-0.94	-1.12	-1.41	-1.07	-1.31	-0.63	-0.05	0.08	0.10	0.09	0.21	0.23	0.18	1.33	-1.41	-0.06
15	0.12	-0.05	-0.16	-0.17	-0.13	-0.15	-0.13	-0.12	-0.13	-0.15	-0.13	-0.15	-0.16	-0.14	-0.05	-0.10	-0.12	-0.11	-0.09	-0.03	-0.02	-0.02	-0.03	0.08	0.12	-0.17	-0.09
16	0.10	-0.02	-0.05	0.39	0.58	0.70	0.39	0.31	0.21	0.19	0.19	0.02	-0.09	-0.31	-0.57	-0.73	-0.50	0.03	0.36	0.80	1.38	1.39	1.16	1.08	1.39	-0.73	0.29
17	0.43	0.43	0.47	0.50	0.68	0.73	0.72	0.24	0.16	-0.06	-0.34	-0.35	-0.57	-0.96	-0.53	-0.20	-0.26	0.32	0.46	0.83	1.19	0.92	0.82	0.46	1.19	-0.96	0.25
18	0.46	0.42	0.35	0.30	0.22	0.19	0.24	0.22	0.04	-0.32	-0.44	-0.71	-1.18	-1.16	-0.76	-0.55	-0.36	0.28	0.26	0.51	0.64	0.55	0.67	0.64	0.67	-1.18	0.02
19	0.59	0.74	0.53	0.60	0.50	0.22	0.20	0.16	0.10	-0.08	-0.28	-0.50	-1.24	-0.84	-1.35	-0.82	-0.43	0.24	0.42	0.25	0.24	0.23	0.27	0.25	0.74	-1.35	0.00
20	0.28	0.28	0.28	0.27	0.30	0.29	0.34	0.28	-0.04	-0.38	-0.63	-0.83	-0.89	-0.77	-0.79	-0.71	-0.28	0.49	0.68	0.74	0.75	0.77	0.74	0.81	0.81	-0.89	0.08
21	0.55	0.36	0.22	0.16	0.24	0.38	0.35	0.17	0.08	0.00	-0.28	-0.62	-0.75	-0.50	-0.48	-0.13	0.26	0.16	0.01	0.14	0.48	1.07	0.56	0.50	1.07	-0.75	0.12
22	0.68	0.62	0.35	0.37	0.34	0.54	-0.08	0.13	0.22	0.12	0.20	0.23	0.17	0.09	-0.01	0.00	0.03	0.02	-0.04	-0.05	-0.05	0.02	0.16	0.65	0.68	-0.08	0.20
23	1.07	1.08	1.01	1.03	1.18	1.19	0.88	0.82	0.72	0.24	-0.13	0.02	0.07	0.03	0.03	-0.07	-0.10	-0.05	0.02	-0.02	-0.03	0.12	0.35	0.23	1.19	-0.13	0.40
24	0.22	0.13	0.18	0.13	0.15	0.17	0.18	0.11	0.09	-0.10	-0.01	0.02	0.04	0.07	-0.24	0.04	0.14	0.19	0.16	0.09	0.28	0.08	0.20	0.20	0.28	-0.24	0.11
25	0.19	0.17	0.19	0.17	0.26	0.14	0.23	0.12	0.03	-0.10	-0.81	-1.23	-0.42	-0.61	-0.60	-0.31	-0.31	0.08	0.10	0.18	0.30	1.10	0.65	0.43	1.10	-1.23	0.00
26	0.83	1.18	1.10	1.39	1.94	0.70	0.20	0.26	0.35	-0.01	0.19	0.04	-0.70	-0.43	0.05	0.25	0.27	0.30	0.33	0.32	0.39	0.38	0.32	0.54	1.94	-0.70	0.42
27	0.36	0.31	0.33	0.33	0.40	0.42	0.48	0.49	0.47	0.30	0.10	0.11	0.16	0.02	-0.25	0.04	0.21	0.27	0.31	0.23	0.36	0.36	0.53	0.42	0.53	-0.25	0.28
28	0.30	0.28	0.29	0.39	0.34	0.34	0.71	0.74	0.43	0.39	0.17	-0.06	-0.44	-0.48	-0.22	-0.43	-0.07	0.10	0.36	0.53	0.50	0.45	0.62	0.44	0.74	-0.48	0.24
29	0.35	0.36	0.43	0.49	0.23	0.14	0.13	0.11	0.10	-0.02	-0.07	-0.16	-0.57	-0.60	-0.36	-0.33	-0.25	0.00	0.11	0.14	0.18	0.18	0.20	0.14	0.49	-0.60	0.04
30	0.13	0.12	0.09	0.11	0.12	0.08	0.14	0.14	-0.14	-0.34	-0.37	-0.40	-0.44	-0.50	-0.42	-0.38	0.01	0.17	0.23	0.26	0.26	0.26	0.31	0.30	0.31	-0.50	-0.01
Max.	**1.39**	**1.21**	**1.60**	**1.39**	**1.94**	**1.25**	**1.33**	**0.98**	**0.72**	**0.39**	**0.20**	**0.23**	**0.44**	**0.52**	**0.33**	**0.40**	**0.32**	**0.50**	**1.19**	**1.14**	**1.38**	**1.39**	**1.57**	**1.14**	**1.94**		
Min.	**-0.13**	**-0.12**	**-0.16**	**-0.17**	**-0.13**	**-0.15**	**-0.13**	**-0.12**	**-0.93**	**-1.39**	**-1.45**	**-1.64**	**-1.45**	**-1.41**	**-1.35**	**-1.31**	**-0.72**	**-0.50**	**-0.89**	**-0.36**	**-0.23**	**-0.19**	**-0.14**	**-0.14**		**-1.64**	
Avg.	**0.39**	**0.37**	**0.39**	**0.40**	**0.42**	**0.40**	**0.38**	**0.27**	**0.03**	**-0.18**	**-0.33**	**-0.41**	**-0.46**	**-0.45**	**-0.45**	**-0.30**	**-0.17**	**0.09**	**0.19**	**0.26**	**0.35**	**0.42**	**0.44**	**0.39**			**0.10**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.31	0.29	0.21	0.16	0.13	0.12	0.10	0.06	-0.02	-0.10	-0.17	-0.26	-0.29	-0.43	-0.32	-0.46	-0.37	0.09	0.13	0.14	0.23	0.44	0.50	0.43	0.50	-0.46	0.04
2	0.31	0.28	0.29	0.24	0.29	0.22	0.19	0.19	0.03	-0.19	-0.42	-0.35	-0.43	-1.10	-0.92	-0.76	-0.35	0.79	1.03	0.56	0.31	0.34	0.82	0.92	1.03	-1.10	0.10
3	0.98	1.01	0.79	0.36	0.17	-0.04	-0.08	0.06	0.10	0.09	-0.01	0.15	-0.01	0.07	0.01	0.25	0.17	0.24	0.18	0.46	0.73	0.73	0.40	0.47	1.01	-0.08	0.30
4	0.31	0.58	0.50	0.51	0.41	0.41	0.41	0.34	0.28	0.24	0.12	0.07	0.05	0.09	-0.01	0.04	0.04	0.09	0.18	0.16	0.07	0.10	0.10	0.14	0.58	-0.01	0.22
5	0.10	0.18	0.23	0.09	0.11	0.09	0.21	0.24	0.31	0.35	0.40	0.35	0.39	0.26	0.03	0.38	0.07	0.06	0.04	-0.01	0.22	0.17	0.25	0.25	0.40	-0.01	0.20
6	0.21	0.16	0.14	0.09	0.14	0.32	0.51	0.56	0.42	-0.50	-0.72	-0.99	-0.70	-0.63	-0.52	-0.29	0.45	0.91	0.75	0.87	0.92	1.14	0.81	0.41	1.14	-0.99	0.19
7	0.50	0.54	0.51	0.42	0.45	0.46	0.55	0.32	0.22	0.16	-0.10	-0.04	0.18	0.09	0.17	0.22	0.12	0.11	0.14	0.19	0.21	0.20	0.18	0.20	0.55	-0.10	0.25
8	0.00	-0.06	-0.04	-0.01	0.02	0.08	0.04	0.09	0.03	-0.10	-0.08	-0.14	-0.23	-0.24	-0.35	-0.10	0.10	-0.15	0.00	0.27	0.36	0.40	0.45	0.67	0.67	-0.35	0.04
9	0.61	0.81	0.76	0.83	0.84	1.09	0.94	0.85	0.71	0.56	0.33	0.13	0.08	-0.08	-0.09	-0.02	0.08	0.07	0.19	0.24	0.20	0.18	0.16	0.18	1.09	-0.09	0.40
10	0.25	0.24	0.25	0.25	0.34	0.17	0.18	0.21	0.09	-0.13	-0.23	-0.33	-0.55	-0.66	-0.62	-0.40	-0.08	0.48	0.65	0.42	0.80	0.33	0.26	0.34	0.80	-0.66	0.09
11	0.06	0.11	0.16	0.14	0.17	0.30	0.32	0.33	0.26	-0.12	-0.58	-0.38	-0.42	-0.19	-0.10	-0.10	-0.06	-0.06	0.04	0.10	0.20	0.24	0.34	0.32	0.34	-0.58	0.05
12	0.25	0.38	0.25	0.28	0.26	0.21	0.23	0.23	0.15	-0.23	-0.31	-0.60	-0.71	-0.58	-0.51	-0.53	-0.27	0.00	0.30	0.37	0.20	0.15	0.20	0.19	0.38	-0.71	0.00
13	0.20	0.22	0.34	0.48	0.87	0.62	0.43	0.46	0.72	-0.02	-0.19	-0.45	-0.45	-0.68	-0.51	-0.31	0.01	0.13	0.24	0.83	0.90	0.96	0.68	0.66	0.96	-0.68	0.26
14	0.59	0.58	0.40	0.22	0.05	0.10	0.19	0.20	0.10	-0.21	-0.36	-0.28	-0.33	-0.31	-0.32	-0.13	-0.07	0.06	0.20	0.22	0.20	0.08	-0.02	0.00	0.59	-0.36	0.05
15	0.07	0.07	0.06	0.09	0.10	0.16	0.18	0.17	0.15	0.04	-0.12	-0.29	-0.39	-0.45	-0.61	-0.57	-0.19	0.23	1.02	1.22	1.12	0.77	0.93	1.21	1.22	-0.61	0.21
16	1.44	2.12	2.07	1.76	0.47	0.25	0.35	0.87	0.80	-0.03	-0.37	-0.43	-0.66	-0.29	-0.63	-0.20	-0.03	0.13	0.28	0.36	0.14	0.36	0.34	0.20	2.12	-0.66	0.39
17	0.32	0.25	0.29	0.20	0.06	0.13	0.24	0.15	0.30	0.33	0.12	0.06	0.07	0.20	-0.22	-0.03	0.03	0.00	0.03	-0.02	-0.03	0.11	0.12	0.03	0.33	-0.22	0.11
18	-0.18	-0.05	0.02	-0.14	-0.14	-0.30	-0.21	-0.08	0.03	0.09	0.04	-0.10	-0.21	-0.26	-0.11	-0.18	-0.04	0.22	0.10	0.15	0.02	0.26	0.88	0.72	0.88	-0.30	0.02
19	0.52	0.30	0.23	0.46	0.30	0.45	0.42	0.29	0.25	0.28	0.15	0.11	0.08	0.08	0.18	0.22	0.14	0.13	0.09	-0.10	0.01	0.18	0.16	0.16	0.52	-0.10	0.21
20	0.25	0.30	0.33	0.28	0.38	0.50	0.43	0.41	0.40	0.45	0.15	-0.03	0.14	0.12	0.12	0.10	0.13	0.16	0.21	0.21	0.18	0.19	0.20	0.13	0.50	-0.03	0.24
21	0.09	0.15	0.17	0.13	0.22	0.22	0.12	0.19	0.41	0.52	0.13	-0.07	-0.04	-0.02	-0.10	-0.14	-0.18	-0.06	-0.04	0.07	-0.02	0.05	0.27	0.19	0.52	-0.18	0.09
22	0.13	0.20	0.39	0.23	0.22	0.14	0.16	0.17	0.13	0.03	-0.05	-0.16	-0.27	-0.37	-0.24	-0.27	-0.22	0.13	0.54	0.34	0.08	0.15	0.00	0.08	0.54	-0.37	0.06
23	0.12	0.07	0.06	0.07	-0.01	0.23	0.17	0.08	0.09	0.02	-0.06	-0.04	0.01	0.05	0.09	0.06	-0.01	-0.10	0.12	0.24	0.32	0.11	0.28	0.43	0.43	-0.10	0.10
24	0.62	0.49	0.70	1.11	0.80	0.60	0.69	0.50	0.20	0.09	-0.19	-0.33	-0.25	-0.15	-0.05	0.07	0.21	0.24	0.25	0.29	0.30	0.22	0.26	0.25	1.11	-0.33	0.29
25	0.23	0.19	0.24	0.24	0.24	0.22	0.23	0.20	0.26	-0.23	-0.40	-0.36	-0.44	-0.39	-0.30	-0.19	0.26	0.83	0.91	0.25	0.40	0.55	0.55	0.41	0.91	-0.44	0.16
26	0.55	0.52	0.52	0.53	0.68	0.83	0.70	0.41	0.59	0.09	-0.31	-0.28	-0.29	-0.24	-0.17	-0.06	0.26	0.50	0.37	0.69	1.02	0.72	0.53	0.65	1.02	-0.31	0.37
27	0.72	0.66	0.52	0.56	0.65	0.51	0.55	0.58	0.62	0.10	-0.34	-0.24	-0.30	-0.24	-0.66	-0.81	0.42	1.16	1.19	1.06	0.71	0.70	0.64	0.84	1.19	-0.81	0.40
28	0.91	1.14	0.72	0.81	0.84	0.51	0.66	0.38	0.47	0.25	-0.32	-0.36	-0.34	-0.30	-0.34	-0.23	0.37	0.91	0.75	0.27	0.36	0.45	0.34	0.39	1.14	-0.36	0.36
29	0.29	0.20	0.20	0.29	0.36	0.60	0.34	0.22	0.15	0.10	-0.10	-0.20	-0.29	-0.22	-0.20	-0.13	-0.04	0.04	0.09	0.14	0.14	0.18	0.14	0.11	0.60	-0.29	0.10
30	0.14	0.12	0.11	0.07	0.13	0.13	0.18	0.11	0.11	0.01	-0.09	-0.26	-0.32	-0.33	-0.22	-0.10	-0.01	0.05	0.15	0.13	0.17	0.16	0.19	0.25	0.25	-0.33	0.04
31	0.25	0.22	0.20	0.18	0.17	0.17	0.15	0.13	0.15	-0.01	-0.19	-0.14	-0.17	-0.20	-0.10	-0.05	0.08	0.15	0.16	0.18	0.22	0.26	0.20	0.35	0.35	-0.20	0.10
Max.	**1.44**	**2.12**	**2.07**	**1.76**	**0.87**	**1.09**	**0.94**	**0.87**	**0.80**	**0.56**	**0.40**	**0.35**	**0.39**	**0.26**	**0.18**	**0.38**	**0.45**	**1.16**	**1.19**	**1.22**	**1.12**	**1.14**	**0.93**	**1.21**	**2.12**		
Min.	**-0.18**	**-0.06**	**-0.04**	**-0.14**	**-0.14**	**-0.30**	**-0.21**	**-0.08**	**-0.02**	**-0.50**	**-0.72**	**-0.99**	**-0.71**	**-1.10**	**-0.92**	**-0.81**	**-0.37**	**-0.15**	**-0.04**	**-0.10**	**-0.03**	**0.05**	**-0.02**	**0.00**		**-1.10**	
Avg.	**0.36**	**0.40**	**0.37**	**0.35**	**0.31**	**0.31**	**0.31**	**0.29**	**0.27**	**0.06**	**-0.14**	**-0.20**	**-0.23**	**-0.24**	**-0.24**	**-0.15**	**0.03**	**0.24**	**0.33**	**0.33**	**0.34**	**0.35**	**0.36**	**0.37**			**0.18**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.31	0.25	-0.02	0.26	0.53	0.47	0.35	0.33	0.07	0.12	-0.15	-0.22	-0.30	-0.32	-0.29	-0.17	0.07	-0.01	0.01	0.02	0.03	0.04	0.05	0.12	0.53	-0.32	0.06
2	0.12	0.11	0.10	0.13	0.19	0.22	0.08	0.19	0.46	0.07	-0.30	-0.29	-0.34	-0.35	-0.16	-0.09	0.19	0.29	0.49	0.52	0.44	0.68	0.51	0.87	0.87	-0.35	0.17
3	0.77	0.88	0.92	0.44	0.31	0.48	0.41	0.12	0.19	0.12	-0.13	-0.32	-0.26	-0.25	-0.11	-0.04	0.06	0.10	0.16	0.14	0.18	0.17	0.16	0.12	0.92	-0.32	0.19
4	0.11	0.10	0.12	0.13	0.19	0.20	0.18	0.15	0.17	0.07	-0.10	-0.16	-0.20	-0.17	-0.10	-0.13	0.02	0.11	0.09	0.14	0.16	0.15	0.32	0.16	0.32	-0.20	0.07
5	0.24	0.59	0.35	0.18	0.15	0.17	0.15	0.20	0.15	0.12	-0.13	-0.14	-0.24	-0.27	-0.39	-0.32	0.07	0.18	-0.02	0.20	-0.03	0.24	0.16	0.23	0.59	-0.39	0.08
6	0.02	0.02	-0.09	-0.22	-0.11	0.02	0.04	0.06	0.16	0.23	0.81	0.78	-0.11	-0.25	-0.33	-0.22	-0.03	0.07	0.08	0.17	0.15	0.34	0.46	0.22	0.81	-0.33	0.09
7	0.27	0.47	0.31	0.05	0.08	0.26	0.32	1.00	0.25	0.17	0.03	-0.16	-0.28	-0.25	-0.17	0.02	0.12	0.22	0.18	0.19	0.22	0.21	0.11	0.08	1.00	-0.28	0.15
8	0.02	0.00	-0.03	-0.11	-0.05	0.00	-0.03	-0.09	-0.01	-0.02	0.00	-0.09	-0.19	-0.17	-0.22	-0.08	0.23	0.80	1.04	0.52	0.43	0.53	0.36	0.32	1.04	-0.22	0.13
9	0.24	0.24	0.15	0.12	-0.02	0.04	0.04	0.05	0.05	0.05	-0.03	-0.14	-0.18	-0.21	-0.12	-0.13	-0.10	-0.16	-0.10	-0.14	-0.06	0.13	0.16	0.09	0.24	-0.21	0.00
10	0.04	0.05	0.08	0.15	0.21	0.20	0.14	0.06	0.17	0.14	0.04	0.05	0.02	0.03	0.07	0.07	0.12	0.16	0.16	0.17	0.15	0.15	0.01	0.07	0.21	0.01	0.10
11	-0.02	-0.08	-0.04	-0.14	-0.13	-0.08	-0.10	-0.05	-0.04	-0.11	-0.17	-0.21	-0.24	-0.20	-0.20	-0.31	-0.17	-0.05	-0.09	0.00	0.09	0.14	0.04	-0.04	0.14	-0.31	-0.09
12	-0.01	0.03	-0.01	0.15	0.21	0.12	0.17	0.15	0.13	0.07	-0.04	-0.18	-0.26	-0.06	-0.08	0.05	0.29	0.28	0.45	0.70	0.73	0.56	0.61	0.50	0.73	-0.26	0.19
13	0.67	0.70	0.30	0.07	0.09	0.20	0.10	0.12	0.10	0.20	0.03	-0.18	-0.23	-0.26	-0.23	-0.13	-0.01	0.11	0.17	0.26	0.50	0.35	0.33	0.65	0.70	-0.26	0.16
14	0.38	0.50	0.32	0.40	0.15	0.18	0.13	0.11	0.20	0.20	0.10	0.06	0.02	-0.11	0.03	0.10	0.13	0.15	0.15	0.13	0.13	0.15	0.21	0.18	0.50	-0.11	0.17
15	0.19	0.20	0.22	0.19	0.23	0.28	0.23	0.41	0.48	0.32	-0.12	-0.13	-0.12	0.06	0.12	0.15	0.40	0.65	0.33	0.43	0.26	0.40	0.32	0.24	0.65	-0.13	0.24
16	0.28	0.27	0.10	-0.02	0.01	0.04	0.01	0.30	0.28	0.17	0.11	0.07	0.07	0.05	0.08	0.07	0.00	0.10	0.14	0.29	0.17	0.11	0.28	0.08	0.30	-0.02	0.13
17	0.21	0.17	0.16	0.08	0.03	-0.05	-0.01	0.02	-0.02	0.07	0.10	0.02	0.09	0.17	0.09	0.08	0.10	0.10	0.21	0.39	0.21	0.10	-0.01	0.25	0.39	-0.05	0.11
18	0.17	0.07	0.21	0.16	-0.05	0.03	0.12	0.18	0.19	0.17	-0.11	-0.04	-0.03	-0.02	-0.01	0.10	0.15	0.08	0.16	0.15	-0.08	-0.07	-0.05	-0.07	0.21	-0.11	0.06
19	-0.02	0.07	0.02	-0.12	-0.02	0.05	0.10	-0.09	-0.15	-0.16	-0.16	-0.20	-0.35	-0.39	-0.38	-0.37	-0.31	-0.27	-0.29	-0.22	-0.14	0.18	0.55	0.67	0.67	-0.39	-0.08
20	0.59	0.45	0.34	0.25	0.01	-0.02	-0.04	-0.06	-0.04	-0.06	0.03	0.03	0.02	0.01	-0.05	-0.16	-0.21	-0.15	-0.12	-0.07	-0.01	0.01	0.18	0.23	0.59	-0.21	0.05
21	0.29	0.47	0.68	0.56	0.66	0.55	0.45	0.40	0.28	0.21	0.09	0.03	-0.05	-0.10	-0.06	0.02	0.08	0.09	0.11	0.04	0.00	0.16	0.37	0.29	0.68	-0.10	0.23
22	0.09	-0.04	0.03	0.19	0.29	0.70	0.40	0.13	0.34	0.18	0.11	0.09	-0.17	-0.20	-0.16	0.00	0.11	0.29	0.26	0.11	0.12	0.09	0.11	0.09	0.70	-0.20	0.13
23	0.09	0.09	0.07	0.11	0.10	0.09	0.09	0.08	0.00	-0.02	0.00	-0.10	-0.14	-0.11	-0.12	-0.09	-0.03	0.01	0.03	0.04	0.10	0.12	0.07	0.04	0.12	-0.14	0.02
24	0.05	0.07	0.03	0.06	0.09	0.10	0.12	0.10	0.11	0.02	-0.26	-0.38	-0.30	-0.43	-0.42	-0.35	-0.30	-0.29	-0.16	-0.08	-0.04	-0.03	-0.03	0.02	0.12	-0.43	-0.10
25	0.04	0.02	0.02	0.05	0.04	0.03	0.06	0.04	0.06	0.06	0.00	0.00	-0.02	0.01	0.02	-0.01	0.03	0.06	0.06	0.10	0.11	0.13	0.11	0.09	0.13	-0.02	0.05
26	0.10	0.10	0.08	0.11	0.10	0.11	0.19	0.20	0.21	0.19	0.11	0.06	0.09	0.06	0.12	0.10	0.16	0.19	0.14	0.13	0.08	0.17	0.22	0.22	0.22	0.06	0.13
27	0.08	0.10	0.06	0.17	0.26	0.55	0.62	0.29	0.14	0.02	-0.19	-0.23	-0.20	-0.16	-0.02	0.14	0.17	0.30	0.40	0.51	0.60	0.72	0.67	0.78	0.78	-0.23	0.24
28	0.54	0.57	0.60	0.67	0.43	0.43	0.56	0.62	0.67	0.60	0.27	-0.04	-0.14	-0.18	-0.16	-0.09	0.01	-0.03	0.01	-0.04	0.20	0.26	0.16	0.27	0.67	-0.18	0.26
29	0.27	0.09	0.07	0.19	0.02	0.15	0.06	0.01	-0.06	-0.04	-0.01	0.04	-0.02	-0.04	-0.03	0.02	0.19	0.28	0.35	0.83	0.50	0.35	0.61	0.81	0.83	-0.06	0.19
30	0.73	0.78	0.69	0.70	0.73	1.13	1.04	0.76	0.61	0.72	0.21	-0.03	-0.18	-0.29	-0.15	0.06	0.12	0.31	0.31	0.26	0.20	0.20	0.27	0.24	1.13	-0.29	0.39
Max.	**0.77**	**0.88**	**0.92**	**0.70**	**0.73**	**1.13**	**1.04**	**1.00**	**0.67**	**0.72**	**0.81**	**0.78**	**0.09**	**0.17**	**0.12**	**0.15**	**0.40**	**0.80**	**1.04**	**0.83**	**0.73**	**0.72**	**0.67**	**0.87**	**1.13**		
Min.	**-0.02**	**-0.08**	**-0.09**	**-0.22**	**-0.13**	**-0.08**	**-0.10**	**-0.09**	**-0.15**	**-0.16**	**-0.30**	**-0.38**	**-0.35**	**-0.43**	**-0.42**	**-0.37**	**-0.31**	**-0.29**	**-0.29**	**-0.22**	**-0.14**	**-0.07**	**-0.05**	**-0.07**		**-0.43**	
Avg.	**0.23**	**0.24**	**0.19**	**0.16**	**0.16**	**0.22**	**0.20**	**0.19**	**0.17**	**0.13**	**0.01**	**-0.07**	**-0.14**	**-0.15**	**-0.11**	**-0.06**	**0.06**	**0.13**	**0.16**	**0.20**	**0.18**	**0.22**	**0.24**	**0.26**			**0.12**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.21	0.25	0.30	0.24	0.20	0.16	0.22	0.23	0.16	0.25	0.04	-0.02	0.00	0.00	0.00	0.02	0.01	0.26	0.24	0.25	0.15	0.17	0.22	0.17	0.30	-0.02	0.15
2	0.18	0.15	0.20	0.12	0.16	0.13	0.06	0.05	0.01	0.08	0.00	-0.12	-0.20	-0.45	-0.30	-0.23	-0.11	-0.08	-0.03	0.00	-0.02	0.01	-0.02	-0.03	0.20	-0.45	-0.02
3	-0.18	-0.19	-0.12	-0.01	0.12	0.10	0.10	0.10	0.13	0.11	0.07	0.02	-0.02	0.02	0.06	0.10	0.17	0.18	0.25	0.11	0.05	0.42	0.05	0.16	0.42	-0.19	0.07
4	0.21	0.06	0.12	-0.23	-0.14	-0.28	-0.23	-0.08	-0.01	0.18	0.22	0.01	-0.06	-0.07	-0.10	-0.12	-0.13	-0.14	-0.12	-0.08	-0.03	-0.02	0.05	-0.04	0.22	-0.28	-0.04
5	-0.12	-0.04	-0.09	-0.08	0.21	-0.09	0.09	0.12	0.23	0.10	0.03	0.04	0.06	0.09	0.08	0.09	0.08	0.09	0.13	0.13	0.12	0.08	0.10	0.16	0.23	-0.12	0.07
6	0.12	0.20	0.16	0.13	0.13	0.17	0.21	0.19	0.19	0.10	0.16	0.06	-0.01	0.09	0.24	0.09	0.18	0.17	-0.01	0.06	0.05	0.15	0.13	-0.10	0.24	-0.10	0.12
7	-0.02	0.06	0.09	0.19	0.21	0.24	0.21	0.19	0.15	0.18	0.16	0.13	-0.01	-0.19	-0.15	-0.05	0.15	0.22	0.20	0.11	0.10	0.11	0.33	0.41	0.41	-0.19	0.13
8	0.42	0.37	0.27	0.19	0.13	0.36	0.62	0.62	0.75	0.59	0.97	0.44	0.26	-0.01	0.10	0.10	0.12	0.32	0.38	0.18	0.10	0.11	0.13	0.11	0.97	-0.01	0.32
9	0.14	0.08	0.10	0.02	0.01	0.04	-0.02	-0.02	-0.17	-0.09	-0.06	-0.15	-0.17	-0.14	0.11	0.20	0.30	0.34	0.57	0.73	0.57	0.65	1.06	0.57	1.06	-0.17	0.19
10	0.56	0.59	0.65	0.50	0.44	0.39	0.31	0.39	0.43	0.56	0.36	0.12	0.06	0.05	0.08	0.01	0.18	0.17	0.08	-0.02	-0.05	-0.08	-0.02	-0.01	0.65	-0.08	0.24
11	-0.01	-0.02	-0.09	-0.07	0.03	0.19	-0.10	-0.09	-0.04	-0.11	-0.14	-0.13	-0.06	-0.08	-0.11	-0.19	-0.12	-0.10	-0.09	-0.06	-0.07	-0.05	-0.05	-0.11	0.19	-0.19	-0.07
12	-0.25	-0.23	-0.13	0.07	0.17	0.20	0.30	0.33	0.28	0.46	0.17	-0.05	0.03	-0.16	-0.15	0.09	0.31	0.25	0.30	0.39	0.37	0.70	0.64	0.59	0.70	-0.25	0.19
13	0.38	0.42	0.68	0.41	0.39	0.58	0.44	0.13	0.08	0.06	0.05	0.03	0.01	-0.01	0.01	0.07	0.15	0.13	0.09	0.06	0.08	0.09	0.09	0.10	0.68	-0.01	0.19
14	0.08	0.08	0.09	0.10	0.09	0.12	0.11	0.12	0.13	0.13	0.15	0.12	0.11	0.13	0.11	-0.04	0.00	0.10	0.09	0.04	0.02	0.07	0.07	0.06	0.15	-0.04	0.09
15	0.12	0.18	0.19	0.13	0.04	0.03	0.12	0.11	0.26	0.27	0.21	-0.13	-0.21	-0.19	-0.12	0.03	0.18	0.23	0.27	0.13	0.15	0.32	0.25	0.22	0.32	-0.21	0.12
16	0.07	-0.08	-0.09	-0.08	-0.07	-0.02	-0.01	0.01	-0.01	0.03	0.06	0.06	0.14	-0.10	-0.20	-0.07	-0.02	-0.15	-0.16	-0.10	-0.11	0.00	-0.13	-0.04	0.14	-0.20	-0.05
17	-0.04	-0.07	-0.06	0.00	0.04	0.03	0.04	0.04	0.06	0.09	-0.06	-0.02	0.18	0.15	0.19	0.12	0.05	0.13	0.16	0.33	0.39	0.34	0.22	0.23	0.39	-0.07	0.11
18	0.25	0.27	0.28	0.22	0.25	0.22	0.09	0.16	0.20	0.17	0.22	0.20	0.21	0.20	0.25	0.25	0.21	0.21	0.23	0.23	0.18	0.14	0.19	0.20	0.28	0.09	0.21
19	0.20	0.19	0.16	0.17	0.15	0.12	0.16	0.12	0.12	0.13	0.13	0.18	0.15	0.28	0.23	0.25	0.38	0.54	0.61	0.44	0.51	0.22	0.68	0.60	0.68	0.12	0.28
20	0.62	0.61	0.69	0.47	0.35	0.64	0.48	0.74	0.51	0.72	0.83	0.21	-0.01	0.09	0.04	0.10	0.18	0.36	0.62	0.41	0.62	0.65	0.44	0.55	0.83	-0.01	0.46
21	0.52	0.21	0.37	0.52	0.28	0.20	0.20	0.35	0.54	0.49	0.16	0.11	-0.01	-0.12	-0.09	-0.04	-0.01	0.01	-0.03	0.06	0.11	0.01	-0.08	-0.07	0.54	-0.12	0.15
22	0.04	0.13	0.08	-0.01	-0.05	-0.05	0.05	0.27	0.27	0.13	0.06	-0.06	-0.14	-0.13	-0.08	-0.02	0.01	0.06	0.12	0.07	0.05	0.06	0.04	0.11	0.27	-0.14	0.04
23	0.11	0.12	0.21	0.20	0.23	0.16	0.16	0.05	0.04	0.00	-0.10	-0.18	-0.19	-0.18	-0.11	-0.08	-0.08	-0.09	-0.05	-0.08	-0.09	-0.03	-0.06	-0.11	0.23	-0.19	-0.01
24	-0.12	-0.15	-0.11	0.05	0.06	0.13	0.11	0.09	0.09	0.10	-0.03	0.08	0.14	0.19	0.04	0.07	0.15	0.34	0.21	0.16	0.14	0.11	0.06	0.16	0.34	-0.15	0.08
25	0.05	0.12	0.09	0.14	0.16	0.09	0.08	0.11	0.26	0.25	0.20	0.12	0.11	0.08	0.10	0.12	0.14	0.12	0.11	0.13	0.10	0.11	0.16	0.18	0.26	0.05	0.13
26	0.07	0.03	0.14	0.04	0.05	0.08	0.18	0.36	0.42	0.33	-0.22	-0.17	0.07	0.10	0.09	0.10	0.17	0.16	0.12	0.20	0.25	0.18	0.21	0.22	0.42	-0.22	0.13
27	0.23	0.25	0.24	0.28	0.25	0.26	0.21	0.20	0.32	0.33	0.19	0.19	0.20	0.25	0.38	0.33	0.32	0.19	0.25	0.20	0.20	0.18	0.14	0.20	0.38	0.14	0.24
28	0.20	0.16	0.18	0.14	0.11	0.11	0.02	0.42	0.31	0.19	0.18	0.12	0.09	0.12	0.13	0.15	0.16	0.18	0.20	0.13	0.14	0.09	0.02	0.00	0.42	0.00	0.15
29	0.09	0.11	0.10	0.04	0.11	0.19	0.18	0.24	0.26	0.21	0.19	0.15	0.20	0.13	-0.06	-0.03	0.03	0.00	-0.04	0.00	-0.01	0.04	0.09	0.25	0.26	-0.06	0.10
30	0.28	0.25	0.29	0.28	0.28	0.32	0.26	0.12	0.48	0.34	0.43	0.61	0.52	0.19	0.19	0.24	0.26	0.23	0.28	0.23	0.23	0.25	0.27	0.24	0.61	0.12	0.29
31	0.22	0.20	0.20	0.25	0.17	0.21	0.18	0.18	0.19	0.14	0.18	0.13	0.17	0.15	0.09	0.20	0.24	0.28	0.27	0.23	0.16	0.15	0.11	0.04	0.28	0.04	0.18
Max.	**0.62**	**0.61**	**0.69**	**0.52**	**0.44**	**0.64**	**0.62**	**0.74**	**0.75**	**0.72**	**0.97**	**0.61**	**0.52**	**0.28**	**0.38**	**0.33**	**0.38**	**0.54**	**0.62**	**0.73**	**0.62**	**0.70**	**1.06**	**0.60**	**1.06**		
Min.	**-0.25**	**-0.23**	**-0.13**	**-0.23**	**-0.14**	**-0.28**	**-0.23**	**-0.09**	**-0.17**	**-0.11**	**-0.22**	**-0.18**	**-0.21**	**-0.45**	**-0.30**	**-0.23**	**-0.13**	**-0.15**	**-0.16**	**-0.10**	**-0.11**	**-0.08**	**-0.13**	**-0.11**		**-0.45**	
Avg.	**0.15**	**0.14**	**0.17**	**0.14**	**0.15**	**0.16**	**0.16**	**0.19**	**0.21**	**0.21**	**0.16**	**0.07**	**0.05**	**0.02**	**0.03**	**0.06**	**0.12**	**0.15**	**0.17**	**0.15**	**0.14**	**0.17**	**0.17**	**0.16**			**0.14**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-0.02	-0.09	0.09	0.24	0.30	0.21	0.18	0.13	0.13	0.18	0.14	0.12	0.06	0.06	0.06	0.06	0.10	0.16	0.16	0.15	0.13	0.05	0.02	0.14	0.30	-0.09	0.11
2	0.11	0.05	0.04	0.09	0.19	0.12	0.14	0.10	0.01	-0.06	0.01	0.12	0.15	0.08	0.07	0.10	0.08	0.01	0.06	0.05	0.12	0.19	0.15	0.21	0.21	-0.06	0.09
3	0.09	0.03	-0.03	0.10	0.12	-0.01	0.13	0.21	0.22	0.28	0.17	0.30	0.14	0.16	0.13	0.17	0.22	0.18	0.21	0.21	0.27	0.20	0.05	0.23	0.30	-0.03	0.16
4	0.35	0.38	0.33	0.57	0.41	0.34	0.41	0.81	1.02	1.19	0.43	-0.03	-0.09	-0.09	-0.01	0.20	0.25	0.21	0.61	0.58	0.19	0.19	0.19	0.23	1.19	-0.09	0.36
5	0.45	0.51	0.35	0.19	0.24	0.25	0.16	0.19	0.14	0.40	0.41	0.19	0.05	0.06	0.20	0.51	0.64	0.61	0.38	0.30	0.61	0.61	0.63	1.13	1.13	0.05	0.38
6	0.93	0.80	0.61	0.50	0.62	0.58	0.30	0.39	0.48	0.51	0.44	0.11	-0.13	-0.13	-0.15	-0.06	0.12	0.23	0.19	0.09	0.20	0.46	0.26	0.20	0.93	-0.15	0.31
7	0.16	0.25	0.71	0.43	0.59	0.66	0.62	0.65	0.21	0.25	0.52	0.24	0.12	0.06	-0.01	0.06	0.07	0.17	0.24	0.22	0.12	0.10	0.07	0.10	0.71	-0.01	0.28
8	0.18	0.16	0.13	0.13	0.12	0.06	0.09	0.16	0.30	0.24	0.23	0.13	0.11	0.08	0.06	0.33	0.16	0.35	0.78	0.35	0.28	0.34	0.27	0.30	0.78	0.06	0.22
9	0.56	0.60	0.36	0.31	0.44	0.26	0.39	0.54	0.20	0.20	0.29	0.27	-0.04	-0.11	-0.06	0.05	0.51	0.43	0.28	0.60	0.58	0.41	0.56	0.24	0.60	-0.11	0.33
10	0.17	0.13	0.05	-0.02	-0.04	0.19	0.33	0.46	0.68	0.71	0.35	0.21	-0.05	0.07	0.14	0.09	0.07	-0.01	-0.03	0.03	0.11	0.01	0.14	0.14	0.71	-0.05	0.16
11	0.33	0.33	0.24	0.29	0.23	-0.11	-0.16	-0.09	-0.01	0.04	0.03	-0.10	-0.18	-0.17	-0.17	0.00	0.07	0.14	0.15	-0.04	0.00	0.08	0.17	0.15	0.33	-0.18	0.05
12	0.23	0.28	-0.09	0.00	0.02	-0.07	-0.08	-0.02	0.03	0.27	0.32	-0.06	-0.17	-0.24	-0.21	-0.17	-0.13	-0.05	0.05	0.12	0.07	0.06	0.13	0.12	0.32	-0.24	0.02
13	0.17	0.13	0.10	0.19	0.27	0.19	0.18	0.20	0.33	0.33	0.40	0.02	-0.17	-0.22	-0.20	-0.08	0.08	0.21	0.40	0.41	0.36	0.14	0.28	0.17	0.41	-0.22	0.16
14	0.02	-0.11	-0.04	0.01	-0.09	0.01	0.01	0.00	0.05	-0.04	-0.09	-0.14	-0.17	-0.20	-0.17	-0.12	-0.09	-0.06	-0.03	-0.01	-0.08	-0.07	-0.02	-0.01	0.05	-0.20	-0.06
15	0.00	-0.03	-0.06	-0.05	-0.04	-0.06	-0.05	0.20	0.22	0.21	0.27	0.05	0.04	0.00	0.06	0.08	0.08	0.04	0.13	0.09	0.14	0.12	0.11	0.14	0.27	-0.06	0.07
16	0.13	0.14	0.16	0.16	0.15	0.15	0.16	0.15	0.17	0.16	0.03					0.06	0.08	0.18	0.39	0.41	0.45	0.64	0.53	0.31	0.64	0.03	0.23
17	0.56	1.13	0.65	0.56	0.71	0.83	0.58	0.23	0.26	0.07	0.03	-0.01	-0.08	-0.07	0.09	0.07	0.06	0.18	0.16	0.18	-0.01	-0.11	-0.14	-0.11	1.13	-0.14	0.24
18	-0.09	-0.12	-0.09	0.02	-0.01	-0.18	0.04	0.23	-0.01	0.15	0.28	-0.11	-0.15	-0.26	-0.20	-0.13	0.04	0.25	0.55	0.88	1.09	0.96	0.69	0.33	1.09	-0.26	0.17
19	0.61	0.46	0.17	0.15	0.20	0.71	0.70	0.49	0.11	0.04	-0.08	-0.29	-0.31	-0.31	-0.26	-0.22	-0.16	-0.14	-0.09	0.03	0.42	0.30	-0.04	-0.08	0.71	-0.31	0.10
20	0.14	0.10	0.00	0.08	0.23	0.02	0.12	0.29	0.28	0.27	0.31	0.08	-0.03	-0.11	-0.13	-0.08	-0.04	0.03	-0.04	-0.08	-0.10	-0.10	-0.11	-0.08	0.31	-0.13	0.04
21	-0.10	-0.07	-0.09	-0.01	-0.08	-0.16	-0.02	-0.04	0.03	-0.08	-0.13	-0.15	-0.14	-0.16	-0.18	-0.17	-0.20	-0.27	-0.21	-0.05	0.19	0.31	0.27	0.20	0.31	-0.27	-0.05
22	0.06	0.00	-0.07	-0.10	-0.08	-0.05	-0.06	0.00	0.01	0.05	0.01	-0.05	-0.03	0.03	0.01	0.03	0.05	0.09	0.13	0.11	0.13	0.12	0.13	0.10	0.13	-0.10	0.03
23	0.07	0.09	0.03	-0.09	-0.19	-0.19	-0.13	-0.16	-0.17	-0.26	-0.31	-0.43	-0.41	-0.41	-0.50	-0.34	-0.13	-0.07	-0.04	-0.08	-0.11	-0.04	-0.10	-0.09	0.09	-0.50	-0.17
24	-0.07	-0.09	0.01	0.00	0.00	-0.04	-0.12	-0.13	-0.14	-0.10	-0.22	-0.35	-0.44	-0.46	-0.38	-0.31	-0.08	-0.11	-0.10	-0.14	-0.09	-0.05	-0.04	-0.03	0.01	-0.46	-0.14
25	0.02	-0.04	0.06	0.10	0.07	0.08	0.10	0.27	0.18	0.21	0.08	-0.52	-0.65	-0.69	-0.71	-0.59	-0.22	-0.02	-0.06	-0.09	-0.12	-0.26	-0.25	-0.34	0.27	-0.71	-0.14
26	-0.32	-0.26	-0.26	-0.24	-0.25	-0.22	-0.22	-0.24	-0.30	-0.42	-0.49	-0.68	-0.65	-0.58	-0.49	-0.43	-0.30	-0.23	-0.28	-0.28	-0.16	-0.02	-0.11	-0.09	-0.02	-0.68	-0.31
27	-0.06	-0.12	0.08	0.02	-0.02	-0.01	-0.08	-0.01	0.02	-0.12	-0.11	-0.06	-0.19	-0.12	-0.04	0.03	0.09	0.08	0.13	0.18	0.07	0.10	0.13	0.14	0.18	-0.19	0.00
28	0.13	0.13	0.16	0.16	0.16	0.17	0.27	0.12	0.13	0.14	0.29	0.14	0.03	-0.44	-2.66	-0.87	-0.52	-0.23	-0.23	-0.28	-0.22	-0.14	-0.15	-0.24	0.29	-2.66	-0.17
29	-0.31	-0.33	-0.60	-0.56	-0.56	-0.51	-0.36	-0.33	-0.27	-0.27	-0.38	-0.57	-0.70	-0.70	-0.58	-0.57	-0.36	-0.24	-0.34	-0.30	-0.34	-0.31	-0.33	-0.32	-0.24	-0.70	-0.42
30	-0.35	-0.40	-0.49	-0.61	-0.53	-0.39	-0.44	-0.37	-0.26	-0.17	-0.16	-0.11	-0.97	-0.91	-0.91	-0.94	-0.54	0.14	0.39	0.92	0.12	0.24	0.25	0.65	0.92	-0.97	-0.24
31	0.68	0.79	0.68	0.77	0.57	0.47	0.64	0.76	0.20	-0.03	-0.29	-0.34	-0.29	-0.59	-0.72	-0.74	-0.31	-0.10	0.15	0.02	-0.26	-0.18	-0.14	-0.10	0.79	-0.74	0.07
Max.	**0.93**	**1.13**	**0.71**	**0.77**	**0.71**	**0.83**	**0.70**	**0.81**	**1.02**	**1.19**	**0.52**	**0.30**	**0.15**	**0.16**	**0.20**	**0.51**	**0.64**	**0.61**	**0.78**	**0.92**	**1.09**	**0.96**	**0.69**	**1.13**	**1.19**		
Min.	**-0.35**	**-0.40**	**-0.60**	**-0.61**	**-0.56**	**-0.51**	**-0.44**	**-0.37**	**-0.30**	**-0.42**	**-0.49**	**-0.68**	**-0.97**	**-0.91**	**-2.66**	**-0.94**	**-0.54**	**-0.27**	**-0.34**	**-0.30**	**-0.34**	**-0.31**	**-0.33**	**-0.34**		**-2.66**	
Avg.	**0.16**	**0.16**	**0.10**	**0.11**	**0.12**	**0.11**	**0.12**	**0.17**	**0.14**	**0.14**	**0.09**	**-0.07**	**-0.18**	**-0.21**	**-0.26**	**-0.13**	**-0.01**	**0.07**	**0.13**	**0.15**	**0.13**	**0.14**	**0.12**	**0.12**			**0.06**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-0.07	-0.24	-0.35	-0.47	-0.45	0.27	0.25	0.22	0.24	0.24	0.14	-0.01	-0.16	-0.16	-0.06	-0.03	-0.05	-0.10	-0.15	-0.43	-0.24	-0.06	0.03	0.10	0.27	-0.47	-0.06
2	0.08	0.15	0.11	0.13	0.08	0.17	0.21	0.17	0.22	0.21	0.16	-0.36	-1.01	-0.83	-0.68	-0.68	-0.40	-0.33	-0.20	0.28	-0.03	-0.20	0.05	0.28	0.28	-1.01	-0.10
3	0.19	0.13	0.05	0.02	0.03	0.00	-0.02	0.00	0.01	0.00	-0.03	-0.19	-0.12	-0.15	-0.21	-0.13	-0.09	0.04	0.01	0.02	0.03	0.05	0.02	0.03	0.19	-0.21	-0.01
4	0.04	0.05	0.02	0.04	0.05	0.02	0.05	0.04	0.05	0.07	0.11	-0.03	-0.08	-0.06	-0.05	-0.02	0.00	0.03	0.07	0.09	0.10	0.12	0.13	0.12	0.13	-0.08	0.04
5	0.05	0.07	0.11	0.14	0.15	0.09	0.09	0.15	0.10	0.19	0.19	0.12	0.16	0.01	0.16	0.11	0.18	0.15	0.10	0.08	0.05	-0.02	0.05	0.02	0.19	-0.02	0.10
6	0.09	-0.02	-0.07	-0.04	0.06																				0.09	-0.07	0.01
7					0.35	0.94	1.09	0.74	0.40	0.19	0.11	-0.15	-0.26	-0.26	-0.31	-0.51	-0.09	0.26	0.25	0.11	0.11	0.23	0.43	0.19	1.09	-0.51	0.19
8	0.29	0.38	1.05	0.63	0.91	0.72	0.81	1.00	0.70	0.74	0.16	0.24	-0.13	0.08	0.01	-0.02	0.09	0.17	-0.02	0.15	0.12	0.13	0.11	0.14	1.05	-0.13	0.35
9	0.17	0.16	0.15	0.10	0.07	0.06	0.04	0.07	0.08	0.05	0.07	0.08	0.15	0.17	0.01	0.23	0.27	0.28	0.17	0.17	0.17	0.13	0.23	0.25	0.28	0.01	0.14
10	0.19	0.40	0.39	0.35	0.22	0.18	0.21	0.21	0.24	0.25	0.58	0.87	0.76	0.78	0.67	0.17	0.10	0.30	0.28	0.28	0.32	0.26	0.25	0.12	0.87	0.10	0.35
11	0.05	0.25	0.31	0.24	0.23	0.19	0.19	0.24	0.24	0.33	0.22	0.14	0.14	0.11	0.19	0.12	0.09	0.15	0.23	0.19	0.25	0.35	0.34	0.43	0.43	0.05	0.22
12	0.55	0.54	0.57	0.61	0.42	0.40	0.26	0.29	0.26	0.17	0.10	0.09	0.07	0.00	-0.11	-0.17	-0.10	-0.04	-0.05	0.04	0.12	0.23	0.28	0.29	0.61	-0.17	0.20
13	0.52	1.05	1.13	1.13	1.25	1.08	0.88	0.77	0.42	0.32	0.13	0.13	0.11	0.22	0.31	0.27	0.21	0.23	0.19	0.32	0.49	0.51	0.45	0.37	1.25	0.11	0.52
14	0.38	0.28	0.28	0.28	0.24	0.23	0.32	0.21	0.27	0.23	0.07	0.07	0.03	0.04	0.07	0.09	0.15	0.15	0.25	0.20	0.21	0.16	0.22	0.21	0.38	0.03	0.19
15	0.21	0.25	0.37	0.29	0.29	0.30	0.30	0.29	0.32	0.43	0.35	0.15	0.06	0.08	0.11	0.12	0.17	0.22	0.27	0.12	0.07	0.13	0.17	0.08	0.43	0.06	0.21
16	0.03	0.06	0.14	0.20	0.33	0.29	0.33	0.32	0.39	0.58	1.23	1.20	0.90	0.51	0.69	0.62	-0.20	0.00	-0.04	0.04	0.10	0.10	0.10	0.10	1.23	-0.20	0.33
17	0.12	0.13	0.06	0.10	0.10	0.07	0.08	0.09	0.04	-0.02	-0.10	-0.09	-0.12	0.10	0.00	0.12	0.14	0.11	0.25	0.26	0.35	0.30	0.33	0.31	0.35	-0.12	0.11
18	0.31	0.34	0.26	0.28	0.29	0.20	0.34	0.25	0.18	0.09	0.08	0.09	0.07	0.02	0.04	0.07	0.08	0.16	0.09	0.02	-0.01	-0.04	-0.05	-0.01	0.34	-0.05	0.13
19	0.01	0.02	-1.04	-0.64	-0.46	-0.33	-0.23	-0.19	-0.18	-0.17	-0.23	-0.18	-0.11	0.04	0.02	0.10	0.12	0.12	0.15	0.17	0.21	0.16	0.23	0.24	0.24	-1.04	-0.09
20	0.20	0.16	0.09	0.16	0.21	0.23	0.15	0.14	0.21	0.05	-0.38	-0.41	-0.71	-0.32	-0.25	-0.13	0.04	0.01	0.04	0.07	0.04	0.07	0.05	0.05	0.23	-0.71	-0.01
21	0.03	0.07	0.10	0.00	-0.03	0.02	0.05	0.06	-0.07	-0.06	0.00	0.12	-0.09	-0.12	-0.05	-0.02	-0.11	-0.06	0.08	0.17	0.38	0.39	0.50	0.44	0.50	-0.12	0.08
22	0.33	0.22	0.61	0.61	0.54	0.64	0.04	0.01	0.04	-0.09	-0.07	-0.02	0.13	-0.01	0.42	0.35	0.11	-0.02	0.23	0.38	0.24	0.20	0.22	0.30	0.64	-0.09	0.23
23	0.39	0.09	0.24	0.17	0.11	-0.01	-0.10	-0.15	-0.02	-0.41	0.03	0.22	-0.05	-0.11	0.11	0.01	0.10	0.04	0.19	0.78	0.65	0.34	0.31	0.40	0.78	-0.41	0.14
24	0.50	0.50	0.41	0.29	0.37	0.31	0.36	0.21	-0.01	-0.18	-0.15	0.10	0.57	0.83	0.76	0.78	0.71	0.10	0.01	0.28	0.23	0.22	0.40	0.54	0.83	-0.18	0.34
25	0.49	0.49	0.19	0.22	0.15	0.05	-0.10	-0.11	-0.14	-0.43	-0.25	0.03	-0.36	-0.18	-0.31	-0.13	0.14	0.24	0.21	0.24	0.23	0.28	0.38	0.21	0.49	-0.43	0.06
26	0.08	0.11	0.19	0.41	0.44	0.40	0.69	0.33	0.46	0.03	-0.10	-0.21	-0.29	-0.33	-0.36	-0.25	-0.15	-0.02	0.12	0.30	0.09	-0.07	-0.10	-0.10	0.69	-0.36	0.07
27	-0.10	-0.11	-0.10	-0.12	-0.15	-0.09	-0.05	-0.05	-0.18	-0.16	-0.19	-0.21	-0.28	-0.46	-0.07	-0.04	-0.05	-0.01	0.09	0.13	0.14	0.24	0.18	0.14	0.24	-0.46	-0.06
28	0.32	0.29	0.30	0.30	0.27	0.27	0.29	0.23	0.09	0.01	-0.05	-0.05	-0.07	0.02	0.07	0.02	-0.03	0.01	0.03	0.12	0.06	0.22	0.22	0.24	0.32	-0.07	0.13
Max.	**0.55**	**1.05**	**1.13**	**1.13**	**1.25**	**1.08**	**1.09**	**1.00**	**0.70**	**0.74**	**1.23**	**1.20**	**0.90**	**0.83**	**0.76**	**0.78**	**0.71**	**0.30**	**0.28**	**0.78**	**0.65**	**0.51**	**0.50**	**0.54**	**1.25**		
Min.	**-0.10**	**-0.24**	**-1.04**	**-0.64**	**-0.46**	**-0.33**	**-0.23**	**-0.19**	**-0.18**	**-0.43**	**-0.38**	**-0.41**	**-1.01**	**-0.83**	**-0.68**	**-0.68**	**-0.40**	**-0.33**	**-0.20**	**-0.43**	**-0.24**	**-0.20**	**-0.10**	**-0.10**		**-1.04**	
Avg.	**0.20**	**0.21**	**0.21**	**0.20**	**0.22**	**0.25**	**0.24**	**0.21**	**0.16**	**0.10**	**0.08**	**0.06**	**-0.03**	**0.00**	**0.04**	**0.04**	**0.05**	**0.08**	**0.10**	**0.17**	**0.17**	**0.16**	**0.20**	**0.20**			**0.14**

Total Hours in Month 672 **Hours Data Available** 649 **Data Recovery** 96.6%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.26	0.24	0.25	-0.01	-0.14	-0.19	-0.12	-0.11	0.25	-0.23	-0.37	-0.40	-0.39	-0.31	-0.35	-0.35	-0.20	-0.06	-0.15	-0.08	-0.04	-0.05	-0.01	0.03	0.26	-0.40	-0.10
2	0.10	-0.02	-0.07	-0.03	-0.02	-0.05	-0.06	-0.17	-0.18	-0.22	-0.18	-0.15	-0.13	-0.17	-0.22	-0.24	-0.16	-0.18	-0.13	0.00	0.01	0.00	-0.01	0.00	0.10	-0.24	-0.09
3	-0.03	0.00	-0.01	0.03	0.01	-0.01	-0.01	0.00	-0.02	-0.04	-0.04	-0.04	-0.06	-0.04	-0.03	0.08	0.05	-0.08	0.06	0.02	0.04	0.00	-0.06	-0.03	0.08	-0.08	-0.01
4	-0.01	-0.02	-0.03	-0.01	-0.05	-0.03	0.01	0.03	0.05	-0.08	-0.08	-0.12	-0.04	-0.08	0.15	-0.01	0.07	0.09	-0.11	-0.02	0.01	0.01	-0.01	-0.01	0.15	-0.12	-0.01
5	-0.03	-0.05	-0.01	-0.02	-0.05	-0.08	-0.11	-0.06	-0.06	-0.18	-0.79	-0.94	-0.77	-0.65	-0.71	-0.75	-0.67	-0.38	-0.03	0.20	0.23	0.32	0.42	0.44	0.44	-0.94	-0.20
6	0.25	0.15	0.18	0.16	0.18	0.11	0.25	0.18	0.08	-0.09	0.00	0.13	0.20	0.51	0.35	0.33	0.53	0.06	0.19	0.76	0.69	0.44	0.23	-0.03	0.76	-0.09	0.24
7	-0.07	-0.02	0.07	-0.01	0.07	0.05	0.03	0.05	0.11	0.10	0.10	0.08	0.11	0.11	0.23	0.19	0.10	-0.03	0.01	0.11	0.20	0.13	0.08	0.03	0.23	-0.07	0.08
8	0.02	0.06	0.04	0.01	0.04	-0.01	0.00	0.03	-0.09	-0.08	-0.10	-0.23	-0.23	-0.22	-0.30	-0.30	-0.24	-0.20	-0.14	0.04	0.06	0.15	0.13	0.16	0.16	-0.30	-0.06
9	0.09	0.13	0.16	0.30	0.10	-0.02	0.08	0.12	0.04	-0.12	-0.18	-0.23	-0.28	-0.15	-0.24	-0.12	-0.05	-0.04	0.04	0.15	0.20	0.23	0.27	0.32	0.32	-0.28	0.03
10	0.17	0.15	0.15	0.16	0.12	0.08	0.14	0.65	-0.06	0.03	0.04	0.46	0.72	1.22	1.03	1.40	0.80	-0.12	0.04	0.13	0.18	0.20	0.18	0.19	1.40	-0.12	0.33
11	0.18	0.19	0.15	0.13	0.14	0.13	0.07	0.07	-0.01	-0.04	0.05	0.02	-0.05	-0.06	-0.04	0.06	0.08	0.09	0.03	0.04	0.05	0.04	0.06	0.07	0.19	-0.06	0.06
12	0.05	0.06	0.05	0.06	0.06	0.04	0.14	0.12	0.07	0.02	0.14	0.02	0.06	0.03	0.10	0.06	0.00	0.14	0.14	0.16	0.23	0.15	0.23	0.30	0.30	0.00	0.10
13	0.27	0.35	0.45	0.54	0.76	0.71	0.58	0.25	-0.09	0.22	0.50	0.28	0.41	0.66	0.46	0.78	0.46	-0.14	-0.37	-0.11	0.54	0.88	0.94	1.02	1.02	-0.37	0.43
14	1.41	1.18	1.12	1.02	0.69	0.67	0.72	0.51	0.02	0.08	0.01	0.51	0.82	0.77	0.82	0.67	0.92	0.23	0.03	0.13	0.26	0.19	0.26	0.30	1.41	0.01	0.56
15	0.37	0.11	0.07	-0.04	-0.07	0.08	0.17	0.29	-0.10	0.00	0.00	0.87	2.07	1.77	2.24	1.86	0.68	-0.22	-0.17	0.27	0.54	0.53	0.38	0.36	2.24	-0.22	0.50
16	0.46	0.35	0.29	0.30	0.22	0.25	0.22	0.21	0.04	0.05	-0.04	0.08	0.12	0.30	0.33	0.44	0.15	0.03	0.05	0.24	0.34	0.37	0.36	0.40	0.46	-0.04	0.23
17	0.41	0.49	0.55	0.21	0.07	0.05	0.13	0.14	-0.04	-0.11	-0.08	-0.01	-0.06	-0.06	-0.13	-0.17	-0.10	-0.12	-0.07	-0.04	-0.06	0.01	-0.02	0.00	0.55	-0.17	0.04
18	0.00	-0.02	-0.03	0.00	-0.05	-0.04	-0.04	-0.04	-0.17	-0.16	-0.20	-0.21	-0.13	-0.09	-0.13	-0.08	0.08	0.01	-0.04	0.02	0.12	0.17	0.57	0.63	0.63	-0.21	0.01
19	0.27	0.55	0.50	0.43	0.68	0.77	0.68	0.20	-0.22	0.20	0.38	0.54	0.64	0.25	-0.12	0.11	-0.02	-0.16	-0.21	-0.04	0.43	0.33	0.08	0.09	0.77	-0.22	0.26
20	-0.03	-0.03	-0.03	-0.04	-0.03	0.00	0.00	-0.15	0.04	-0.06	0.14	0.62	0.63	0.63	-0.01	0.04	0.03	0.06	-0.03	-0.01	0.13	0.13	0.11	0.13	0.63	-0.15	0.09
21	0.10	0.08	0.06	0.02	0.08	0.08	0.04	-0.03	-0.07	0.01	-0.05	0.08	0.51	0.64	1.24	1.54	0.63	0.15	0.07	0.18	0.27	0.50	0.44	0.35	1.54	-0.07	0.29
22	0.24	0.17	0.19	0.20	0.15	0.17	0.07	-0.13	-0.06	0.08	-0.22	-0.17	-0.27	-0.27	-0.26	-0.30	-0.30	0.06	0.21	0.42	0.46	0.29	0.27	0.26	0.46	-0.30	0.05
23	0.29	0.49	0.46	1.00	1.15	1.14	0.76	0.13	-0.18	-0.22	-0.27	-0.35	-0.64	-0.40	-0.91	-0.87	-0.53	0.09	0.16	0.17	0.13	0.12	0.19	0.17	1.15	-0.91	0.09
24	0.11	0.04	0.00	-0.02	-0.02	0.00	-0.02	0.01	-0.16	-0.26	-0.43	-0.62	-0.84	-0.66	-0.61	-0.41	-0.38	0.08	0.10	0.10	0.20	0.09	0.03	-0.01	0.20	-0.84	-0.15
25	0.00	0.00	-0.03	-0.10	-0.09	-0.12	-0.05	-0.13	-0.19	-0.17	-0.03	0.74	1.05	1.55	1.24	0.79	0.66	0.23	0.03	0.01	0.22	0.20	0.07	0.05	1.55	-0.19	0.25
26	0.15	0.08	0.04	0.04	0.04	0.08	0.04	-0.13	-0.04	-0.11	-0.14	0.58	1.16	1.55	0.89	1.14	1.38	0.32	-0.42	0.07	0.27	0.22	0.25	0.35	1.55	-0.42	0.32
27	0.41	0.29	0.24	0.24	0.14	0.34	0.62	-0.33	0.41	1.01	1.57	1.45	1.03	0.97	0.77	0.47	0.29	0.05	-0.14	-0.25	0.76	1.47	1.36	0.82	1.57	-0.33	0.58
28	1.03	1.08	0.49	0.46	0.65	0.58	0.46	0.24	0.74	0.39	0.46	1.32	0.43	0.65	0.36	0.43	0.57	0.09	-0.02	0.20	0.26	1.00	1.22	0.94	1.32	-0.02	0.58
29	0.73	0.79	0.83	0.46	0.37	0.34	0.35	-0.03	0.14	0.08	0.11	0.67	1.50	1.52	0.39	0.12	0.01	0.10	-0.29	-0.11	0.53	1.37	1.41	0.65	1.52	-0.29	0.50
30	0.39	0.53	0.37	0.17	0.16	0.12	0.05	-0.04	-0.13	-0.18	-0.20	-0.32	-0.08	-0.30	-0.15	-0.19	-0.30	-0.29	-0.31	-0.19	-0.01	0.03	0.12	0.08	0.53	-0.32	-0.03
31	0.12	0.08	0.04	0.06	0.06	0.07	0.08	0.08	0.52	0.69	0.47	0.40	0.21	0.32	-0.04	-0.31	-0.29	-0.08	0.01	0.09	0.06	0.03	0.00	-0.01	0.69	-0.31	0.11
Max.	**1.41**	**1.18**	**1.12**	**1.02**	**1.15**	**1.14**	**0.76**	**0.65**	**0.74**	**1.01**	**1.57**	**1.45**	**2.07**	**1.77**	**2.24**	**1.86**	**1.38**	**0.32**	**0.21**	**0.76**	**0.76**	**1.47**	**1.41**	**1.02**	**2.24**		
Min.	**-0.07**	**-0.05**	**-0.07**	**-0.10**	**-0.14**	**-0.19**	**-0.12**	**-0.33**	**-0.22**	**-0.26**	**-0.79**	**-0.94**	**-0.84**	**-0.66**	**-0.91**	**-0.87**	**-0.67**	**-0.38**	**-0.42**	**-0.25**	**-0.06**	**-0.05**	**-0.06**	**-0.03**		**-0.94**	
Avg.	**0.25**	**0.24**	**0.21**	**0.18**	**0.17**	**0.17**	**0.17**	**0.06**	**0.02**	**0.02**	**0.02**	**0.16**	**0.25**	**0.32**	**0.21**	**0.21**	**0.14**	**-0.01**	**-0.05**	**0.09**	**0.24**	**0.31**	**0.31**	**0.26**			**0.16**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	-0.03	-0.02	-0.02	0.02	-0.02	-0.11	-0.10	-0.13	-0.34	-0.44	-0.50	-0.60	-1.03	-1.10	-1.56	-0.13	0.08	-0.01	-0.16	-0.15	0.05	0.25	0.21	0.21	0.25	-1.56	-0.23
2	0.35	0.22	0.13	0.08	0.02	0.08	0.05	0.06	0.03	0.29	0.28	1.07	1.61	1.54	1.48	1.38	0.55	0.13	-0.06	-0.08	0.13	0.04	-0.02	-0.01	1.61	-0.08	0.39
3	-0.04	-0.04	0.03	0.00	0.01	0.00	-0.01	-0.09	-0.22	-0.39	-0.19	-0.25	-0.26	-0.24	-0.48	-0.37	-0.29	-0.15	-0.07	-0.19	0.13	0.02	-0.03	0.04	0.13	-0.48	-0.13
4	0.04	0.15	0.12	0.13	0.16	0.09	0.11	0.07	-0.05	0.13	-0.24	0.59	0.71	0.87	0.72	0.74	0.92	0.76	0.42	0.12	0.02	0.21	0.22	0.29	0.92	-0.24	0.31
5	0.49	0.34	0.18	0.14	0.44	0.50	0.18	0.24	0.17	0.28	0.23	0.12	0.09	0.07	0.10	0.09	0.05	0.23	0.13	0.14	0.10	0.19	0.19	0.21	0.50	0.05	0.20
6	0.26	0.29	0.31	0.19	0.29	0.30	0.13	-0.08	0.07	0.00	0.58	1.00	1.06	1.11	0.60	0.75	0.61	0.22	0.04	0.00	0.37	0.39	0.18	0.19	1.11	-0.08	0.37
7	0.10	0.15	0.11	0.07	0.19	0.32	0.22	0.08	0.28	0.62	0.52	0.35	0.52	1.02	1.28	0.81	0.42	0.35	0.21	-0.07	0.20	0.25	0.23	0.19	1.28	-0.07	0.35
8	0.19	0.18	0.16	0.18	0.16	0.17	0.16	-0.17	-0.16	-0.16	-0.20	0.00	-0.02	-0.27	-0.24	-0.12	-0.20	0.11	-0.17	-0.03	0.01	-0.04	0.06	0.03	0.19	-0.27	-0.02
9	0.08	0.07	0.12	0.11	0.04	0.03	0.02	-0.13	-0.02	0.01	0.22	1.36	1.75	0.63	0.15	0.02	-0.09	-0.17	-0.10	-0.31	0.13	0.39	0.40	0.21	1.75	-0.31	0.20
10	0.18	0.00	0.03	0.18	0.20	0.15	-0.05	0.02	-0.09	-0.08	-0.19	-0.28	-0.21	-0.21	-0.26	-0.16	-0.08	-0.01	-0.02	-0.04	0.06	0.13	0.14	0.18	0.20	-0.28	-0.02
11	0.27	0.15	0.39	0.29	0.44	0.52	0.06	0.00	-0.05	-0.08	-0.09	-0.12	-0.02	0.06	0.30	-0.14	-0.15	-0.06	-0.07	-0.07	-0.03	0.01	0.00	0.02	0.52	-0.15	0.07
12	-0.01	0.01	-0.01	0.01	-0.02	-0.02	-0.04	-0.13	-0.09	-0.04	-0.09	-0.09	-0.04	-0.08	-0.12	-0.03	0.14	0.50	0.21	-0.06	-0.03	0.29	0.22	0.09	0.50	-0.13	0.02
13	0.06	0.09	0.11	0.12	0.13	0.13	0.08	-0.02	0.01	0.01	0.07	0.13	0.00	-0.10	-0.11	-0.13	-0.25	-0.04	0.03	0.02	0.06	0.12	0.17	0.23	0.23	-0.25	0.04
14	0.25	0.27	0.27	0.24	0.26	0.25	0.14	0.10	0.10	-0.01	-0.05	0.05	-0.08	-0.06	-0.04	-0.08	-0.09	0.02	0.02	-0.03	0.05	0.18	0.18	0.22	0.27	-0.09	0.09
15	0.20	0.18	0.22	0.18	0.19	0.31	-0.05	0.08	0.24	0.01	-0.03	0.04	-0.15	0.03	-0.08	0.10	0.13	0.10	0.00	-0.02	-0.03	0.56	0.79	0.32	0.79	-0.15	0.14
16	0.47	0.23	0.44	0.51	0.47	0.24	0.04	-0.01	-0.04	-0.02	-0.05	-0.05	-0.10	-0.15	-0.08	-0.03	-0.03	-0.20	-0.07	-0.14	-0.03	0.02	0.01	-0.04	0.51	-0.20	0.06
17	-0.05	-0.04	-0.05	-0.01	-0.03	-0.01	-0.07	0.01	-0.11	-0.46	-0.23	-0.24	-0.06	0.10	0.03	0.15	0.46	0.01	-0.13	-0.02	0.24	0.30	0.20	0.19	0.46	-0.46	0.01
18	0.18	0.12	0.28	0.33	0.51	0.54	-0.17	-0.01	0.48	1.02	1.68	1.78	1.35	0.60	0.50	0.15	0.59	0.55	-0.28	-0.57	0.03	0.31	0.46	0.53	1.78	-0.57	0.46
19	0.23	0.27	0.25	0.25	0.27	0.24	0.10	0.07	0.37	0.35	0.14	0.51	0.36	0.10	0.98	1.13	0.68	0.43	-0.26	-0.31	-0.29	0.34	0.76	0.36	1.13	-0.31	0.31
20	0.77	0.80	0.30	0.00	-0.07	-0.07	-0.18	-0.11	0.02	-0.05	-0.28	0.18	0.23	0.04	0.02	0.22	-0.40	-0.36	-0.09	-0.21	-0.09	-0.02	0.00	0.00	0.80	-0.40	0.03
21	0.01	-0.01	0.06	0.08	0.04	0.01	-0.06	-0.24	-0.26	-0.35	-0.33	-0.30	-0.35	-0.40	-0.38	-0.24	0.05	-0.01	0.13	-0.14	-0.18	0.06	0.00	-0.02	0.13	-0.40	-0.12
22	-0.01	-0.11	-0.04	-0.03	-0.07	-0.04	-0.16	-0.26	-0.06	-0.19	0.17	0.36	0.50	1.20	0.38	-0.11	0.02	-0.28	-0.38	-0.30	-0.25	0.04	0.25	-0.01	1.20	-0.38	0.03
23	-0.09	-0.09	-0.01	-0.02	-0.02	-0.04	-0.14	-0.12	-0.08	-0.15	-0.71	-0.53	-0.09	-0.58	-0.42	-0.60	-1.06	-1.02	-1.10	-1.58	-1.20	-0.73	-0.76	-0.72	-0.01	-1.58	-0.49
24	-0.28	0.01	0.03	0.15	-0.04	0.07	-0.26	-0.03	-0.37	-0.30	-0.08	0.04	-0.08	-0.22	-0.16	-0.18	-0.14	-0.01	-0.22	-0.18	-0.10	-0.05	0.04	0.12	0.15	-0.37	-0.09
25	0.16	0.22	0.59	0.84	0.60	0.37	-0.08	-0.14	-0.15	-0.11	-0.25	0.02	0.22	0.07	-0.42	-0.43	-0.49	-0.37	-0.38	-0.32	-0.40	0.03	0.10	0.07	0.84	-0.49	-0.01
26	0.03	0.08	0.05	0.03	0.02	-0.05	-0.08	-0.23	-0.09	-0.11	-0.05	-0.06	0.07	0.08	0.09	0.08	0.10	0.16	0.05	0.03	0.08	0.31	0.40	0.37	0.40	-0.23	0.06
27	0.35	0.35	0.37	0.35	0.31	0.20	0.04	0.05	0.00	0.00	0.05	0.13	0.41	0.96	1.07	0.91	0.96	0.71	-0.21	-0.06	-0.38	0.98	0.92	0.71	1.07	-0.38	0.38
28	0.60	0.55	0.52	0.43	0.38	0.31	0.05	-0.02	0.07	0.33	0.25	-0.22	0.18	0.51	0.24	0.80	0.40	0.39	-0.10	-0.33	-0.04	0.83	0.95	1.02	1.02	-0.33	0.34
29	1.00	0.76	0.32	0.30	0.28	0.14	0.06	0.17	-0.05	-0.07	-0.03	0.23	0.41	0.35	0.30	0.24	0.13	0.17	-0.10	-0.15	-0.04	0.31	0.47	0.55	1.00	-0.15	0.24
30	0.50	0.58	0.47	0.62	0.61	0.15	-0.06	-0.23	-0.14	-0.33	-0.55	0.06	0.26	0.03	-0.39	-0.44	0.14	0.01	-0.32	-0.13	-0.08	0.14	0.27	0.19	0.62	-0.55	0.06
Max.	**1.00**	**0.80**	**0.59**	**0.84**	**0.61**	**0.54**	**0.22**	**0.24**	**0.48**	**1.02**	**1.68**	**1.78**	**1.75**	**1.54**	**1.48**	**1.38**	**0.96**	**0.76**	**0.42**	**0.14**	**0.37**	**0.98**	**0.95**	**1.02**	**1.78**		
Min.	**-0.28**	**-0.11**	**-0.05**	**-0.03**	**-0.07**	**-0.11**	**-0.26**	**-0.26**	**-0.37**	**-0.46**	**-0.71**	**-0.60**	**-1.03**	**-1.10**	**-1.56**	**-0.60**	**-1.06**	**-1.02**	**-1.10**	**-1.58**	**-1.20**	**-0.73**	**-0.76**	**-0.72**		**-1.58**	
Avg.	**0.21**	**0.19**	**0.19**	**0.19**	**0.19**	**0.16**	**0.00**	**-0.04**	**-0.02**	**-0.01**	**0.00**	**0.18**	**0.24**	**0.20**	**0.12**	**0.15**	**0.11**	**0.07**	**-0.10**	**-0.17**	**-0.05**	**0.19**	**0.23**	**0.19**			**0.10**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.23	0.26	0.26	0.17	0.20	0.13	0.07	-0.05	-0.04	-0.09	-0.01	-0.11	-0.18	-0.15	-0.13	-0.04	0.09	0.12	0.16	0.11	0.21	0.15	0.14	0.12	0.26	-0.18	0.07
2	0.12	0.11	0.13	0.14	0.12	0.08	-0.02	-0.03	-0.03	-0.17	-0.16	-0.16	-0.16	-0.30	-0.13	-0.11	-0.04	-0.03	0.05	0.05	0.03	0.14	0.17	0.29	0.29	-0.30	0.00
3	0.32	0.33	0.30	0.32	0.30	0.19	0.03	-0.11	-0.10	-0.22	-0.30	-0.36	-0.29	-0.23	-0.07	0.01	0.05	-0.01	-0.07	0.15	0.11	0.32	0.28	0.23	0.33	-0.36	0.05
4	0.21	0.16	0.22	0.27	0.41	0.16	0.10	-0.34	-0.18	-0.06	-0.18	0.01	0.10	-0.05	0.03	-0.17	-0.12	-0.06	-0.09	-0.10	-0.04	0.14	0.20	0.18	0.41	-0.34	0.03
5	0.21	0.15	0.15	0.08	0.22	0.25	0.16	0.18	-0.11	-0.17	-0.17	-0.21	-0.23	-0.14	-0.05	-0.24	-0.25	-0.24	-0.36	-0.16	-0.08	-0.03	0.02	-0.05	0.25	-0.36	-0.04
6	-0.19	-0.05	0.04	0.08	-0.02	-0.06	-0.14	-0.12	-0.09	-0.09	-0.19	0.15	-0.04	-0.43	-0.91	-1.43	-1.27	-0.96	-0.80	-0.63	-0.51	-0.44	-0.31	-0.15	0.15	-1.43	-0.36
7	-0.04	0.03	0.04	0.02	0.02	-0.01	-0.05	-0.05	-0.07	-0.13	-0.17	-0.19	-0.15	-0.24	-0.08	-0.32	-0.39	-0.41	-0.15	-0.06	-0.07	-0.03	0.08	0.15	0.15	-0.41	-0.10
8	0.22	0.24	0.30	0.42	0.79	-0.03	-0.09	-0.22	-0.31	-0.16	-0.14	-0.40	-0.37	-0.24	-0.28	-0.10	-0.17	-0.12	-0.11	0.00	-0.13	0.04	0.10	0.07	0.79	-0.40	-0.03
9	0.07	0.10	0.08	0.08	0.09	0.05	0.02	-0.06	0.01	0.02	-0.09	-0.17	-0.21	-0.23	-0.33	-0.26	-0.24	-0.19	-0.15	-0.01	0.07	0.09	0.16	0.15	0.16	-0.33	-0.04
10	0.12	0.12	0.19	0.12	0.19	0.07	-0.16	-0.22	-0.07	0.19	0.25	0.33	-0.03	-0.07	0.49	1.04	0.43	0.00	0.32	0.09	0.06	0.03	0.20	0.10	1.04	-0.22	0.16
11	0.39	0.45	-0.03	-0.04	0.10	-0.01	-0.19	-0.24	-0.35	-0.53	-0.81	-0.57	-0.11	0.09	-0.28	0.02	-0.26	0.01	-0.47	-0.24	-0.25	-0.03	0.08	0.41	0.45	-0.81	-0.12
12	0.59	0.32	0.57	0.67	0.55	-0.10	-0.23	-0.07	-0.25	-0.43	-0.50	-0.87	0.13	-0.54	-0.48	-0.30	-0.23	0.61	-0.19	0.01	-0.08	0.31	0.93	0.83	0.93	-0.87	0.05
13	0.60	0.74	0.97	1.24	0.96	0.05	0.10	0.03	-0.37	-0.63	-0.66	-0.31	-0.31	0.19	0.20	0.63	0.62	0.91	0.09	-0.27	0.09	0.60	1.23	0.96	1.24	-0.66	0.32
14	0.95	0.98	1.39	0.96	0.81	-0.03	-0.12	-0.21	-0.01	-0.51	-0.70	-0.55	-0.17	-0.45	-0.43	-0.40	-0.61	-0.28	-0.39	-0.12	-0.09	-0.03	0.09	0.17	1.39	-0.70	0.01
15	0.17	0.27	0.33	0.54	0.86	-0.11	-0.55	-0.44	-0.13	0.00	-0.06	0.01	-0.67	-0.38	-0.44	-0.28	-0.18	-0.20	-0.23	0.02	-0.09	-0.02	0.30	0.43	0.86	-0.67	-0.04
16	0.48	0.35	0.21	0.19	0.13	0.03	-0.05	-0.09	-0.17	-0.33	-0.51	-0.70	-0.97	-1.18	-1.12	-0.63	-0.55	-0.23	-0.21	-0.13	-0.44	-0.16	0.97	1.15	1.15	-1.18	-0.16
17	1.30	0.96	0.75	0.58	0.56	-0.06	-0.14	-0.21	-0.40	-0.58	-0.43	-1.21	-2.12	-1.06	-1.17	-0.74	-0.39	-0.28	-0.02	0.08	-0.12	-0.02	0.60	0.78	1.30	-2.12	-0.14
18	0.64	0.49	0.80	0.56	0.22	-0.07	0.05	-0.40	0.02	-0.99	-1.45	-1.12	-1.09	-1.21	-1.09	-0.22	-0.26	-0.35	-0.18	-0.04	0.02	0.04	0.15	0.13	0.80	-1.45	-0.22
19	0.10	0.10	0.12	0.18	0.16	0.00	-0.01	0.03	-0.03	-0.26	0.62	-0.24	-0.44	-0.86	-0.22	-0.28	-0.01	0.05	-0.03	-0.16	-0.14	0.10	0.15	0.08	0.62	-0.86	-0.04
20	0.02	0.09	0.16	0.35	0.42	0.25	0.21	-0.13	-0.23	-0.18	-0.23	-0.21	-0.20	-0.27	-0.35	-0.34	-0.34	-0.13	0.08	-0.08	-0.10	0.20	0.67	0.48	0.67	-0.35	0.01
21	0.28	0.24	0.28	0.22	0.16	-0.12	-0.14	-0.15	-0.35	-0.16	-0.25	-0.29	-0.42	-0.29	-0.91	-0.97	-0.79	-0.35	-0.08	-0.08	-0.02	0.00	0.23	0.21	0.28	-0.97	-0.16
22	0.23	0.28	0.25	0.34	0.20	0.03	-0.04	-0.15	-0.21	-0.29	-0.29	0.16	0.06	-0.40	-0.39	-0.38	-0.20	0.02	-0.01	-0.02	0.42	0.51	0.72	1.09	1.09	-0.40	0.08
23	0.74	0.67	1.06	1.22	0.66	0.72	0.68	0.26	1.03	1.72	0.14	0.38	0.19	0.05	0.18	0.25	-0.41	0.44	-0.07	-0.94	-0.27	0.13	0.72	0.80	1.72	-0.94	0.43
24	0.78	0.65	0.78	0.98	1.25	0.16	1.73	1.24	1.75	1.52	1.71	1.17	1.21	0.54	0.97	0.81	0.33	0.25	-0.60	0.24	0.65	0.11	0.94	1.13	1.75	-0.60	0.84
25	1.50	1.07	1.19	1.13	0.47	-0.46	1.53	1.53	1.69	1.33	0.67	2.39	1.73	0.51	0.54	0.58	0.64	1.01	-0.22	-0.80	-0.14	0.28	0.73	0.57	2.39	-0.80	0.81
26	0.75	0.94	0.96	1.01	0.77	0.17	0.22	0.11	-0.22	0.99	1.95	1.12	1.11	2.14	1.67	1.51	1.04	1.14	0.26	-0.39	0.20	0.72	0.95	1.11	2.14	-0.39	0.84
27	1.13	1.19	1.67	1.87	1.38	-0.01	0.13	-0.03	-0.05	-0.02	0.30	2.66	2.31	3.75	1.37	1.65	1.07	1.61	1.61	2.24	1.36	0.16	0.73	0.99	3.75	-0.05	1.21
28	0.86	0.88	1.46	1.60	0.92	0.31	1.15	0.97	1.46	0.47	0.53	-0.46	-0.01	-0.03	-0.13	0.14	0.71	1.33	-0.15	-0.32	-0.24	0.19	0.46	0.55	1.60	-0.46	0.53
29	0.97	1.68	1.84	1.53	0.53	0.93	0.13	-0.17	0.51	0.03	0.50	0.15	0.09	0.36	0.34	-0.41	0.51	0.17	0.10	-0.15	0.17	-0.50	0.57	0.87	1.84	-0.50	0.45
30	0.91	1.12	1.17	0.66	0.27	-0.17	-0.19	-0.16	-0.40	-0.41	-0.05	-0.27	-0.02	0.01	-0.17	0.02	0.15	0.01	-0.06	-0.09	0.17	-0.09	-0.10	0.05	1.17	-0.41	0.10
31	0.08	0.09	0.03	0.11	0.10	0.08	0.02	-0.17	-0.25	0.17	-0.34	-0.23	-0.35	-0.44	-0.32	-0.18	-0.25	-0.05	-0.04	-0.13	-0.12	-0.12	0.00	0.09	0.17	-0.44	-0.09
Max.	**1.50**	**1.68**	**1.84**	**1.87**	**1.38**	**0.93**	**1.73**	**1.53**	**1.75**	**1.72**	**1.95**	**2.66**	**2.31**	**3.75**	**1.67**	**1.65**	**1.07**	**1.61**	**1.61**	**2.24**	**1.36**	**0.72**	**1.23**	**1.15**	**3.75**		
Min.	**-0.19**	**-0.05**	**-0.03**	**-0.04**	**-0.02**	**-0.46**	**-0.55**	**-0.44**	**-0.40**	**-0.99**	**-1.45**	**-1.21**	**-2.12**	**-1.21**	**-1.17**	**-1.43**	**-1.27**	**-0.96**	**-0.80**	**-0.94**	**-0.51**	**-0.50**	**-0.31**	**-0.15**		**-2.12**	
Avg.	**0.48**	**0.48**	**0.57**	**0.57**	**0.44**	**0.08**	**0.14**	**0.02**	**0.07**	**0.00**	**-0.03**	**0.00**	**-0.05**	**-0.05**	**-0.12**	**-0.04**	**-0.04**	**0.12**	**-0.06**	**-0.06**	**0.02**	**0.09**	**0.39**	**0.45**			**0.14**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.25	0.36	0.63	0.43	0.21	0.03	-0.21	-0.14	0.21	0.04	0.58	-0.46	-1.60	-0.99	-1.28	-1.51	-0.97	-0.25	-0.16	-0.36	0.16	0.32	0.57	0.72	0.72	-1.60	-0.14
2	0.46	0.39	0.59	0.80	0.47	0.12	-0.07	-0.27	-0.46	-0.49	-0.71	-0.90	-0.63	-0.31	-1.13	-1.39	-1.08	-0.42	0.18	0.26	0.50	0.69	1.08	2.22	2.22	-1.39	0.00
3	2.33	2.16	2.01	1.05	0.46	0.26	0.04	-0.07	-0.51	-0.93	-0.46	-0.32	-0.73	-1.31	-0.99	-0.81	-0.72	-0.23	0.17	0.28	0.25	0.23	0.35	0.27	2.33	-1.31	0.12
4	0.32	0.26	0.37	0.52	0.25	-0.03	-0.21	-0.38	-0.45	0.37	0.05	-0.73	-0.73	-1.31	-1.40	-1.45	-1.25	-0.61	-0.27	-0.28	-0.17	0.19	1.90	1.84	1.90	-1.45	-0.13
5	1.05	1.00	1.26	2.04	1.18	0.90	-0.07	-0.48	0.18	0.54	-0.14	-0.35	-0.52	-0.78	-0.69	-0.97	-0.93	-0.72	-0.16	-0.19	-0.06	0.17	0.92	1.77	2.04	-0.97	0.21
6	1.31	1.39	1.96	2.44	0.63	0.11	-0.12	0.48	1.38	-0.06	0.08	-0.29	-0.33	-0.08	-0.06	-0.26	-0.25	-0.15	-0.24	-0.14	-0.10	-0.06	0.33	0.65	2.44	-0.33	0.36
7	0.52	0.23	0.12	0.13	0.09	0.03	-0.08	-0.10	0.11	0.01	-0.15	-0.10	-0.07	0.01	-0.06	0.00	0.01	-0.04	-0.12	-0.05	0.08	-0.09	0.03	0.12	0.52	-0.15	0.03
8	0.13	0.33	0.25	0.31	0.29	0.35	0.12	0.13	0.05	0.04	0.00	-0.08	0.05	-0.14	-0.04	0.02	0.10	0.18	0.33	0.21	0.22	0.28	0.20	0.59	0.59	-0.14	0.16
9	0.81	0.86	0.74	0.49	0.43	0.38	0.29	-0.01	0.01	-0.04	-0.07	-0.06	-0.12	-0.03	-0.09	-0.10	-0.01	0.34	-0.06	-0.10	-0.05	0.06	0.03	0.03	0.86	-0.12	0.16
10	0.15	0.06	0.03	0.06	0.12	0.06	-0.03	-0.15	-0.11	-0.08	-0.22	-0.23	-0.03	-0.05	-0.14	-0.06	-0.11	0.04	-0.04	-0.06	-0.04	-0.03	0.06	0.06	0.15	-0.23	-0.03
11	0.10	0.24	0.16	0.30	0.26	-0.01	-0.06	-0.11	-0.07	0.08	0.02	-0.11	-0.14	-0.02	-0.18	-0.21	-0.22	-0.19	-0.08	-0.16	0.03	0.31	0.31	0.20	0.31	-0.22	0.02
12	0.11	0.14	0.10	0.13	0.13	0.00	-0.02	-0.10	-0.16	-0.42	-0.19	-0.16	-0.06	-0.10	-0.08	0.07	0.00	-0.23	-0.13	-0.07	-0.17	-0.29	-0.24	-0.15	0.14	-0.42	-0.08
13	-0.08	-0.09	-0.10	-0.11	-0.17	-0.22	-0.09	-0.15	-0.19	-0.07	-0.14	-0.41	-0.57	-0.85	-0.82	-0.79	-0.39	-0.34	-0.30	-0.36	-0.34	-0.15	0.04	0.03	0.04	-0.85	-0.28
14	0.13	0.14	0.11	0.04	0.01	-0.20	-0.12	-0.13	-0.18	-0.07	-0.05	0.06	-0.08	-0.18	-0.10	0.37	-0.34	-0.63	-0.27	-0.55	-0.44	-0.08	-0.22	-0.17	0.37	-0.63	-0.12
15	-0.19	-0.09	-0.02	0.23	0.45	0.20	0.13	0.21	-0.14	0.15	0.00	-0.07	-0.16	-0.19	-0.24	-0.12	-0.15	0.09	-0.23	0.18	0.17	-0.14	-0.04	0.07	0.45	-0.24	0.00
16	0.06	0.04	0.12	0.16	0.09	-0.06	-0.10	-0.09	-0.01	-0.09	-0.08	0.04	-0.19	-0.39	-0.45	-0.26	-0.09	-0.20	-0.33	-0.52	-0.21	-0.30	-0.11	0.00	0.16	-0.52	-0.12
17	-0.04	0.01	-0.06	-0.04	-0.06	-0.13	-0.19	-0.22	-0.33	-0.46	-0.62	-0.58	-0.39	-0.33	-0.43	-0.41	-0.53	-0.30	-0.30	-0.28	-0.09	-0.01	0.04	-0.01	0.04	-0.62	-0.24
18	-0.04	0.09	0.09	0.08	-0.05	-0.30	-0.27	-0.55	-0.49	-0.37	-0.16	-0.17	-0.30	-0.20	-0.17	-0.31	-0.35	-0.24	-0.25	-0.15	-0.16	0.04	0.14	0.10	0.14	-0.55	-0.17
19	0.06	0.10	0.12	0.20	-0.06	-0.12	-0.09	-0.19	-0.11	0.04	0.01	-0.17	0.04	0.10	-0.16	0.06	0.61	0.19	0.18	-0.07	-0.14	0.08	0.20	0.18	0.61	-0.19	0.04
20	0.70	0.79	0.53	0.28	0.36	0.35	0.12	-0.05	-0.04	-0.12	-0.12	0.00	-0.02	-0.01	-0.15	-0.37	-0.58	-0.36	-0.15	-0.44	-0.27	-0.04	0.31	0.91	0.91	-0.58	0.07
21	1.18	0.78	0.63	1.00	0.45	-0.09	-0.47	-0.79	-1.07	-0.65	0.05	-0.53	-0.66	-0.74	-1.14	-0.94	-0.74	-0.48	0.14	-0.15	-0.01	0.46	0.12	0.45	1.18	-1.14	-0.13
22	0.68	0.12	0.04	0.19	0.45	0.27	-0.01	0.13	0.14	-0.02	-0.04	0.01	0.09	-0.25	-0.24	-0.20	-0.03	-0.13	-0.21	-0.18	-0.17	-0.01	0.08	0.73	0.73	-0.25	0.06
23	0.37	0.23	0.22	0.12	0.34	-0.03	-0.19	-0.36	-0.08	-0.27	-0.39	-0.03	0.10	-0.30	-0.56	-0.66	-0.65	-0.55	-0.28	-0.15	0.34	-0.14	0.34	1.10	1.10	-0.66	-0.06
24	1.28	1.54	1.50	1.22	0.66	0.18	-0.18	-0.51	-0.09	1.04	0.01	-0.37	-0.44	0.01	-0.27	-0.35	-0.34	-0.13	0.35	0.03	0.12	0.46	1.04	1.56	1.56	-0.51	0.35
25	1.20	1.66	1.45	1.65	0.81	0.02	0.00	-0.22	-0.17	-0.07	-0.21	-0.08	-0.58	-1.09	-0.50	-0.61	-0.48	-0.55	-0.17	-0.12	-0.05	0.28	0.15	1.18	1.66	-1.09	0.15
26	1.19	0.95	0.80	0.64	0.23	0.07	-0.14	-0.24	-0.23	-0.07	-0.26	-0.37	-0.35	-0.19	-0.25	0.07	-0.07	0.00	0.07	-0.17	0.07	0.09	0.65	0.78	1.19	-0.37	0.13
27	1.07	1.20	1.03	1.03	0.38	0.18	-0.04	0.72	0.58	0.58	-0.59	-1.03	-1.12	-0.92	-0.88	-0.88	-0.60	-0.29	-0.09	0.02	-0.54	0.11	0.21	0.25	1.20	-1.12	0.02
28	0.22	0.20	0.22	0.22	0.14	0.18	0.08	-0.06	-0.12	-0.40	-0.57	-0.19	-0.49	-0.95	-0.77	-0.66	-0.67	-0.35	0.01	0.07	0.18	0.17	0.22	0.41	0.41	-0.95	-0.12
29	0.37	0.45	0.32	0.29	0.10	0.10	0.09	0.14	-0.34	0.52	0.39	-0.41	0.05	-0.18	-0.26	-0.25	-0.11	-0.02	-0.04	0.00	-0.01	-0.07	0.00	0.03	0.52	-0.41	0.05
30	0.05	0.10	0.18	0.20	0.06	0.00	-0.06	-0.10	-0.16	-0.20	-0.03	-0.12	-0.62	-0.34	-0.45	-0.55	-0.28	-0.21	-0.28	-0.43	-0.09	0.07	0.26	0.40	0.40	-0.62	-0.11
Max.	**2.33**	**2.16**	**2.01**	**2.44**	**1.18**	**0.90**	**0.29**	**0.72**	**1.38**	**1.04**	**0.58**	**0.06**	**0.10**	**0.10**	**-0.04**	**0.37**	**0.61**	**0.34**	**0.35**	**0.28**	**0.50**	**0.69**	**1.90**	**2.22**	**2.44**		
Min.	**-0.19**	**-0.09**	**-0.10**	**-0.11**	**-0.17**	**-0.30**	**-0.47**	**-0.79**	**-1.07**	**-0.93**	**-0.71**	**-1.03**	**-1.60**	**-1.31**	**-1.40**	**-1.51**	**-1.25**	**-0.72**	**-0.33**	**-0.55**	**-0.54**	**-0.30**	**-0.24**	**-0.17**		**-1.60**	
Avg.	**0.53**	**0.52**	**0.51**	**0.54**	**0.29**	**0.09**	**-0.06**	**-0.12**	**-0.10**	**-0.05**	**-0.13**	**-0.27**	**-0.35**	**-0.40**	**-0.47**	**-0.45**	**-0.37**	**-0.23**	**-0.09**	**-0.13**	**-0.03**	**0.09**	**0.30**	**0.54**			**0.01**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Temperature Difference (deg. C)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.39	0.57	0.45	0.52	0.39	0.05	0.04	-0.28	-0.47	1.38	0.58	-0.42	-0.77	-1.12	-1.16	-1.04	-1.01	-0.84	-0.38	-0.67	0.05	1.17	0.60	0.42	1.38	-1.16	-0.06
2	0.30	0.35	0.49	0.50	0.46	0.27	0.05	-0.29	-0.65	-1.22	-0.27	0.36	0.69	0.39	-0.10	-1.15	-0.16	-0.15	0.10	0.34	0.65	0.66	1.07	0.08	1.07	-1.22	0.12
3	0.08	0.06	-0.09	0.10	0.24	-0.11	-0.23	-0.34	-0.38	-0.80	-0.55	-0.31	-0.32	-0.51	-0.51	-0.38	-0.33	-0.24	-0.09	-0.07	-0.20	0.08	0.19	0.99	0.99	-0.80	-0.15
4	1.16	1.19	1.11	1.20	0.73	0.45	-0.05	0.45	1.21	-0.04	-0.03	-0.36	-0.61	-0.36	-0.39	-0.42	-0.40	-0.12	-0.24	-0.20	-0.16	-0.18	0.06	0.45	1.21	-0.61	0.19
5	0.60	0.42	0.01	-0.28	-0.17	-0.17	0.00	-0.23	-0.30	-0.37	-0.32	-0.27	-0.23	-0.24	-0.32	-0.34	-0.29	-0.28	-0.33	-0.22	-0.11	-0.16	-0.17	-0.16	0.60	-0.37	-0.16
6	-0.11	0.03	0.10	0.06	-0.08	-0.17	-0.16	-0.24	-0.37	-0.38	-0.03	-0.09	-0.03	-0.07	-0.22	-0.24	-0.23	-0.24	-0.15	-0.05	-0.05	-0.12	-0.09	-0.07	0.10	-0.38	-0.12
7	-0.06	-0.05	0.01	0.00	0.00	-0.02	-0.12	-0.17	-0.14	-0.20	-0.28	-0.32	-0.37	-0.18	-0.19	-0.31	-0.29	-0.26	-0.12	-0.25	-0.15	-0.16	-0.11	-0.08	0.01	-0.37	-0.16
8	-0.04	0.06	0.14	0.24	0.22	-0.10	-0.31	-0.23	-0.37	-0.57	-0.55	-0.42	-0.43	-0.51	-0.41	0.13	-0.66	-0.21	-0.28	-0.02	-0.05	0.08	0.70	0.71	0.71	-0.66	-0.12
9	0.84	0.69	0.83	0.78	0.72	0.18	-0.05	-0.41	0.98	0.95	0.42	-0.13	-0.25	-0.31	-0.16	0.09	-0.42	0.64	0.28	-0.03	-0.09	-0.05	-0.05	-0.07	0.98	-0.42	0.23
10	-0.06	-0.06	-0.02	0.07	0.19	0.10	-0.06	0.08	0.02	0.08	-0.05	-0.07	-0.23	-0.03	0.08	-0.05	-0.01	0.04	0.03	-0.09	-0.07	-0.10	-0.05	-0.11	0.19	-0.23	-0.01
11	-0.11	-0.12	-0.06	0.03	0.04	-0.05	-0.11	-0.17	-0.20	-0.56	0.24	0.28	0.28	0.33	-0.02	-0.10	-0.11	0.38	0.25	0.03	0.07	0.57	0.74	1.05	1.05	-0.56	0.11
12	1.26	1.51	1.68	1.79	1.03	0.16	-0.01	-0.37	-0.71	-0.58	0.80	0.64	-0.24	-0.14	-0.22	0.12	0.58	0.09	0.04	0.15	0.35	-0.01	0.77	0.90	1.79	-0.71	0.40
13	1.28	0.46	0.49	0.97	0.75	0.29	0.22	0.25	0.01	-0.11	-0.20	-0.10	-0.14	-0.23	-0.08	-0.31	-0.19	-0.09	0.02	0.05	0.12	0.04	0.00	0.07	1.28	-0.31	0.15
14	0.06	0.03	-0.02	0.03	0.03	0.06	-0.03	0.02	-0.13	-0.19	-0.33	-0.41	-0.39	-0.12	-0.27	-0.13	-0.20	-0.13	-0.09	0.07	0.09	0.10	0.12	0.15	0.15	-0.41	-0.07
15	0.11	0.12	0.10	0.14	0.08	-0.10	0.01	-0.10	-0.23	-0.46	-0.63	-0.47	-0.52	-0.68	-1.03	-0.54	-0.24	0.02	0.09	-0.07	-0.05	-0.04	0.02	0.19	0.19	-1.03	-0.18
16	0.37	0.37	0.33	0.26	0.24	0.14	-0.15	-0.05	-0.18	-0.14	-0.08	-0.03	-0.05	-0.07	-0.22	-0.17	-0.01	-0.09	-0.03	0.09	0.13	0.08	0.18	0.24	0.37	-0.22	0.05
17	0.20	0.06	0.26	0.32	0.25	0.26	0.13	0.15	-0.05	0.05	0.01	0.02	0.16	0.08	-0.21	-0.16	-0.26	-0.21	-0.03	-0.09	-0.08	-0.11	0.02	0.18	0.32	-0.26	0.04
18	0.30	0.23	0.15	0.18	0.23	-0.01	-0.07	-0.07	-0.12	-0.20	-0.12	-0.14	-0.15	-0.31	-0.38	-0.39	-0.26	-0.07	0.14	-0.01	0.21	0.55	0.37	0.69	0.69	-0.39	0.03
19	0.52	0.53	0.41	0.44	0.33	0.37	0.12	0.17	0.12	-0.12	-0.01	0.05	0.07	-0.05	0.03	0.05	0.07	-0.02	0.08	0.18	0.73	0.51	1.01	0.99	1.01	-0.12	0.27
20	0.92	1.85	1.74	1.24	0.57	0.80	0.07	0.21	0.22	0.23	0.22	0.15	0.31	0.13	0.22	0.15	0.27	0.39	0.24	0.50	0.77	-0.05	0.02	0.15	1.85	-0.05	0.47
21	0.20	0.77	0.68	0.76	0.57	0.24	0.36	0.47	0.32	0.19	0.17	0.20	0.15	0.16	0.09	0.69	0.12	0.07	0.02	-0.14	0.45	0.34	0.09	0.22	0.77	-0.14	0.30
22	0.13	-0.01	0.05	0.14	0.23	0.28	0.26	0.19	0.15	-0.08	-0.03	-0.04	-0.05	0.06	0.09	-0.15	-0.32	-0.62	-0.82	-0.28	-0.18	-0.14	0.04	0.19	0.28	-0.82	-0.04
23	0.27	0.26	0.26	0.33	-0.03	0.18	0.20	-0.11	-0.09	-0.11	0.00	0.12	0.05	-0.02	-0.03	0.13	0.30	-0.26	-0.27	0.05	0.17	0.27	0.55	0.81	0.81	-0.27	0.13
24	0.96	0.78	0.61	0.54	0.54	0.66	0.26	0.28	0.21	0.23	0.03	0.25	0.06	0.37	0.11	-0.08	-0.14	-0.11	-0.21	-0.19	-0.07	-0.16	0.03	0.47	0.96	-0.21	0.23
25	0.29	0.25	0.27	0.28	0.18	0.02	-0.20	-0.33	-0.31	-0.26	-0.14	-0.07	-0.14	-0.33	-0.44	-0.48	-0.41	0.12	-0.06	-0.01	0.23	0.89	0.75	0.90	0.90	-0.48	0.04
26	0.68	0.75	1.12	1.23	1.48	0.32	-0.15	-0.19	0.09	0.01	-0.21	-0.15	-0.20	-0.14	-0.23	-0.09	-0.13	0.05	0.07	0.06	0.10	0.11	0.24	0.25	1.48	-0.23	0.21
27	0.29	0.26	0.27	0.27	0.30	0.23	0.19	-0.22	-0.66	-0.81	-0.52	0.16	-0.24	0.96	-0.02	0.29	-0.19	-0.23	-0.19	0.01	0.05	1.20	1.37	1.14	1.37	-0.81	0.16
28	0.48	0.32	0.17	0.43	0.38	0.14	-0.02	-0.27	-0.65	-0.89	0.12	-0.45	-0.64	-1.24	-0.92	-0.52	-0.28	-0.26	-0.26	-0.34	-0.30	0.30	0.13	0.03	0.48	-1.24	-0.19
29	0.17	0.15	0.12	0.11	-0.06	-0.07	0.03	-0.34	-0.34	-0.15	-0.20	-0.37	-0.74	-0.72	-0.54	-0.31	-0.20	-0.07	-0.16	-0.13	0.01	-0.05	0.03	0.15	0.17	-0.74	-0.15
30	0.19	0.18	0.22	0.03	0.04	0.07	-0.02	-0.14	-0.19	-0.29	-0.18	-0.10	-0.13	-0.10	0.00	-0.13	-0.35	-0.18	0.05	0.10	0.38	0.83	1.48	0.87	1.48	-0.35	0.11
31	0.28	0.27	0.27	0.31	0.34	0.34	0.28	0.21	0.10	-0.10	-0.24	-0.36	-0.43	-0.54	-0.19	-0.16	0.04	-0.02	0.03	0.01	0.06	0.07	0.18	0.10	0.34	-0.54	0.03
Max.	**1.28**	**1.85**	**1.74**	**1.79**	**1.48**	**0.80**	**0.36**	**0.47**	**1.21**	**1.38**	**0.80**	**0.64**	**0.69**	**0.96**	**0.22**	**0.69**	**0.58**	**0.64**	**0.28**	**0.50**	**0.77**	**1.20**	**1.48**	**1.14**	**1.85**		
Min.	**-0.11**	**-0.12**	**-0.09**	**-0.28**	**-0.17**	**-0.17**	**-0.31**	**-0.41**	**-0.71**	**-1.22**	**-0.63**	**-0.47**	**-0.77**	**-1.24**	**-1.16**	**-1.15**	**-1.01**	**-0.84**	**-0.82**	**-0.67**	**-0.30**	**-0.18**	**-0.17**	**-0.16**		**-1.24**	
Avg.	**0.39**	**0.40**	**0.39**	**0.42**	**0.33**	**0.16**	**0.02**	**-0.07**	**-0.10**	**-0.18**	**-0.08**	**-0.09**	**-0.18**	**-0.18**	**-0.25**	**-0.19**	**-0.18**	**-0.09**	**-0.07**	**-0.04**	**0.10**	**0.21**	**0.33**	**0.38**			**0.06**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	93.3	94.0	94.4	95.0	95.5	95.5	95.4	94.5	92.7	92.3	92.9	93.3	94.4	96.7	97.6	96.1	97.3	97.0	96.1	93.4	91.3	90.8	89.7	91.9	97.6	89.7	94.2
2	91.2	89.7	87.6	86.7	94.6	95.0	94.7	91.5	89.8	87.2	86.9	83.9	85.3	85.1	82.5	81.5	82.8	77.4	74.9	71.4	73.5	69.1	74.1	74.9	95.0	69.1	83.8
3	76.2	73.0	75.3	79.8	78.7	83.0	82.7	86.2	89.9	85.2	81.0	78.2	75.3	79.2	79.3	81.5	80.0	81.7	84.0	85.4	87.7	88.3	83.0	82.1	89.9	73.0	81.5
4	87.8	89.7	90.4	91.8	91.3	90.6	88.6	89.5	88.7	85.3	81.3	84.0					69.9	80.0	84.1	88.1	88.9	84.3	71.7	71.0	91.8	69.9	84.8
5	71.2	70.7	71.5	72.4	73.6	73.7	72.0	72.5	70.9	66.7	65.2	63.4	64.1	61.6	63.6	65.5	62.2	61.7	63.7	63.7	64.2	66.9	64.7	65.1	73.7	61.6	67.1
6	66.5	65.9	65.3	64.7	64.5	63.9	62.8	61.8	61.6	60.9	64.3	66.2	65.3	63.6	66.2	70.2	74.4	77.7	83.6	86.0	86.2	69.7	57.5	58.1	86.2	57.5	67.8
7	59.8	65.9	71.9	74.9	76.4	76.9	64.9	64.3	62.1	57.7	54.0	52.4	49.8	49.3	48.4	50.3	52.0	52.6	55.3	54.6	57.5	66.4	74.0	77.5	77.5	48.4	61.2
8	79.9	83.6	85.3	86.4	87.9	88.1	85.2	79.5	77.8	83.7	84.2	82.0	79.9	77.0	78.0	76.2	77.1	76.2	78.2	83.2	86.4	92.1	92.5	92.9	92.9	76.2	83.1
9	92.3	93.4	94.4	95.5	96.2	96.3	95.4	89.6	89.6	94.9	90.7	88.2	87.1	87.7	79.2	79.7	80.5	82.3	83.8	82.3	82.0	84.8	89.6	87.2	96.3	79.2	88.4
10	91.7	92.1	89.8	91.4	94.1	95.4	94.1	87.8	85.5	88.2	87.9	85.5	87.2	84.6	82.7	83.2	85.5	90.9	94.3	94.6	94.4	95.0	96.0	96.7	96.7	82.7	90.4
11	96.5	97.1	96.8	97.1	97.5	97.4	96.7	97.9	98.4	97.9	93.8	91.5	89.4	80.7	78.6	81.3	80.5	74.8	82.5	85.9	89.7	89.7	85.6	89.8	98.4	74.8	90.3
12	92.7	92.9	94.7	95.2	95.9	96.1	94.3	89.8	89.9	86.3	83.6	85.6	83.2	82.2	79.1	74.5	75.7	65.4	71.0	75.9	84.2	92.0	94.5	95.4	96.1	65.4	86.3
13	95.8	96.3	96.5	96.9	97.1	97.1	97.2	97.3	97.4	97.2	95.4	93.1	94.4	92.5	89.6	89.2	88.1	86.9	89.3	88.6	89.3	90.8	92.2	90.9	97.4	86.9	93.3
14	89.5	89.0	88.5	88.4	88.4	88.1	87.4	86.4	85.6	84.1	83.4	81.5	79.9	77.6	75.3	74.0	73.7	76.8	81.4	85.0	87.2	89.9	92.3	91.6	92.3	73.7	84.4
15	89.0	88.1	88.3	88.9	89.9	91.0	91.8	93.6	93.0	93.2	92.5	85.7	82.3	79.5	78.6	76.6	77.8	78.9	75.3	76.4	76.1	78.3	81.3	83.3	93.6	75.3	84.6
16	86.2	88.5	88.1	86.7	87.9	88.1	85.5	86.9	81.5	80.1	80.8	77.3	83.8	85.2	90.5	85.8	82.7	82.9	83.5	85.5	86.1	83.9	81.6	81.7	90.5	77.3	84.6
17	85.0	89.4	90.1	92.0	92.3	91.4	90.2	89.3	89.6	88.4	89.6	86.5	83.5	85.9	80.6	75.3	74.9	71.7	76.5	75.3	78.5	80.6	81.6	78.7	92.3	71.7	84.0
18	83.2	83.9	85.3	84.4	88.1	88.9	85.7	88.7	88.1	89.0	92.0	93.5	94.4	95.2	94.6	95.3	95.2	94.3	93.6	94.4	94.3	94.3	94.6	95.3	95.3	83.2	91.1
19	95.6	96.3	96.3	96.7	96.9	97.2	94.0	86.3	84.4	86.2	86.3	86.8	87.8	86.1	83.5	75.7	62.7	62.1	61.1	56.7	53.9	50.9	49.1	53.7	97.2	49.1	78.6
20	67.2	72.2	53.4	51.1	54.4	55.5	51.4	57.6	53.8	51.6	55.5	49.5	43.1	46.3	49.5	51.3	58.2	61.2	60.8	62.3	66.6	76.4	77.9	81.1	81.1	43.1	58.7
21	85.7	85.1	76.9	77.3	79.8	78.0	80.2	77.6	71.6		61.6	53.8	48.1	46.8	45.1	44.6	45.7	50.2	51.3	55.1	56.1	58.6	59.1	66.2	85.7	44.6	63.2
22	72.5	73.5	71.4	73.3	74.7	77.4	66.1	64.1	60.1	63.3	63.9	69.4	69.3	64.0	74.8	82.4	78.4	82.5	84.0	88.2	91.2	91.3	91.4	91.7	91.7	60.1	75.8
23	94.0	94.9	95.6	95.5	95.2	95.1	94.9	93.8	84.3	76.5	75.5	73.0	73.6	67.2	74.5	75.2	76.7	79.9	84.4	80.6	80.9	83.7	86.0	86.2	95.6	67.2	84.0
24	88.3	88.0	89.8	92.3	92.3	92.8	92.1	92.4	91.9	84.4	81.8	79.8	74.7	73.0	71.1	71.0	64.8	60.8	62.0	60.9	61.9	63.0	66.6	65.5	92.8	60.8	77.6
25	67.0	66.8	66.6	67.0	64.5	60.2	58.8	58.0	65.0	49.1	61.7	57.5	49.3	47.2	55.2	60.1	65.5	67.4	69.7	75.3	79.6	81.3	82.7	86.1	86.1	47.2	65.1
26	86.4	88.2	91.3	90.9	88.0	88.0	86.5	84.8	74.7	67.2	61.3	54.7	50.1	48.1	42.5	39.5	37.8	45.9	48.6	53.8	57.4	55.3	55.7	54.9	91.3	37.8	64.6
27	53.7	52.7	53.1	53.2	59.4	57.2	51.3	60.6	62.1	56.1	53.0	50.4	45.8	46.4	46.8	47.2	50.0	51.5	50.4	53.6	56.4	56.7	54.2	63.0	63.0	45.8	53.5
28	74.3	76.6	75.7	78.0	84.5	89.3	91.9	93.3	92.4	92.9	94.3	95.8	94.8	92.8	92.0	92.9	92.8	90.9	73.3	67.3	68.2	67.8	68.0	68.6	95.8	67.3	83.7
29	73.2	78.4	78.2	74.9	72.9	70.8	70.9	74.3	80.7	80.5	80.7	76.1	74.8	74.1	72.2	70.9	69.5	69.8	68.4	66.6	70.6	74.9	73.1	72.7	80.7	66.6	73.7
30	78.3	78.4	77.1	74.3	71.2	72.5	72.9	71.1	73.5	71.2	66.6	64.8	58.0	56.3	57.4	56.1	56.7	59.0	58.3	57.0	56.5	55.3	54.3	55.4	78.4	54.3	64.7
31	57.1	55.8	55.5	56.6	55.3	53.8	55.3	56.1	55.1	51.9	51.2	54.7	52.9	50.3	48.5	47.4	48.0	49.6	50.4	51.1	53.0	53.0	52.3	51.9	57.1	47.4	52.8
Max.	**96.5**	**97.1**	**96.8**	**97.1**	**97.5**	**97.4**	**97.2**	**97.9**	**98.4**	**97.9**	**95.4**	**95.8**	**94.8**	**96.7**	**97.6**	**96.1**	**97.3**	**97.0**	**96.1**	**94.6**	**94.4**	**95.0**	**96.0**	**96.7**	**98.4**		
Min.	**53.7**	**52.7**	**53.1**	**51.1**	**54.4**	**53.8**	**51.3**	**56.1**	**53.8**	**49.1**	**51.2**	**49.5**	**43.1**	**46.3**	**42.5**	**39.5**	37.8	45.9	**48.6**	**51.1**	**53.0**	**50.9**	**49.1**	**51.9**		**37.8**	
Avg.	**81.3**	**82.3**	**81.8**	**82.2**	**83.2**	**83.4**	**81.6**	**81.2**	**80.1**	**78.3**	**77.2**	**75.4**	**73.4**	**72.1**	**71.9**	**71.7**	**71.5**	**72.3**	**73.3**	**74.1**	**75.8**	**76.6**	**76.3**	**77.5**			**77.3**

Total Hours in Month 744 **Hours Data Available** 739 **Data Recovery** 99.3%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	51.6	51.9	54.0	65.4	71.3	73.5	72.8	70.6	67.2	63.2	58.9	53.3	47.1	41.3	37.9	35.1	38.0	43.0	45.0	42.8	45.4	43.3	41.3	46.9	73.5	35.1	52.5
2	68.9	74.4	77.0	80.9	82.2	83.2	84.3	82.1	75.9	72.4	64.8	60.7	58.6	45.5	44.7	46.8	43.5	59.2	65.0	70.7	72.8	74.1	74.2	72.6	84.3	43.5	68.1
3	73.2	78.5	80.7	81.8	76.1	77.1	79.7	82.3	82.1	82.1	85.5	88.3	87.4	85.7	80.4	88.3	89.2	92.1	91.2	91.6	92.1	92.1	91.1	90.3	92.1	73.2	85.0
4	90.2	92.1	90.0	86.9	88.2	88.0	89.5	90.9	90.8	92.2	93.5	94.8	94.3	93.2	93.8	93.3	86.7	87.2	89.6	88.6	88.4	88.4	90.0	90.8	94.8	86.7	90.5
5	90.7	91.1	91.6	92.6	94.3	94.7	94.7	92.7	85.0	85.4	91.8	92.6	91.9	92.0	91.3	88.7	91.5	91.6	88.7	90.5	93.1	94.7	95.3	95.4	95.4	85.0	91.7
6	95.8	96.3	96.6	96.8	96.8	96.8	95.9	96.0	94.4	79.7	74.3	69.9	68.5	68.7	66.4	72.8	75.2	68.8	71.4	67.4	68.8	71.7	72.9	73.0	96.8	66.4	80.6
7	72.9	71.8	72.4	75.0	75.8	76.5	81.0	78.5	74.6	70.5	68.8	65.0	64.8	60.4	58.0	57.8	57.9	64.8	69.0	71.8	72.7	72.6	71.9	71.7	81.0	57.8	69.8
8	68.8	67.2	67.6	70.0	70.1	68.6	67.7	71.2	73.9	70.4	69.0	66.7	69.9	70.8	75.1	75.7	76.0	79.3	76.9	73.6	84.1	82.4	79.9	84.3	84.3	66.7	73.3
9	85.3	91.2	95.5	96.4	96.5	96.6	97.1	96.6	96.6	96.7	96.2	96.1	96.4	96.9	97.3	97.5	97.7	97.6	97.2	97.5	97.6	97.6	95.3	89.2	97.7	85.3	95.8
10	81.4	76.4	74.8	74.4	76.5	73.5	73.3	74.2	71.5	71.0	68.6	66.2	64.8	62.0	62.5	62.4	60.6	62.1	71.5	75.4	80.5	81.5	85.9	89.8	89.8	60.6	72.5
11	92.2	89.7	87.1	85.8	88.3	89.1	90.6	89.7	82.3	78.1	77.8	83.3	83.7	87.6	89.7	92.9	92.8	93.9	92.2	92.4	92.7	93.1	93.0	93.7	93.9	77.8	88.8
12	94.5	94.8	95.0	94.5	92.4	77.2	71.8	69.1	70.1	63.7	58.7	62.7	70.3	73.4	77.4	79.3	77.2	76.3	71.5	76.2	80.7	73.8	67.4	71.1	95.0	58.7	76.6
13	71.8	75.5	78.3	81.4	79.4	75.5	75.6	71.8	66.0	64.8	63.9	62.7	62.9	63.7	63.3	62.9	60.7	55.9	51.7	51.5	52.8	59.9	52.1	54.1	81.4	51.5	64.9
14	55.0	59.5	64.9	71.7	76.7	79.4	82.8	84.9	75.8	72.7	67.9	69.2	70.3	66.6	71.0	72.3	71.8	80.3	77.2	77.5	81.2	78.5	76.6	78.6	84.9	55.0	73.4
15	79.6	86.1	90.5	92.4	93.7	95.0	95.6	95.9	95.9	95.7	96.0	96.3	95.9	94.8	95.3	95.7	95.9	96.1	96.3	96.2	95.0	95.4	96.8	97.3	97.3	79.6	94.3
16	97.5	97.6	97.7	94.2	88.1	79.3	71.1	70.3	69.8	70.2	68.2	64.2	60.8	61.2	62.2	62.3	64.4	68.4	68.6	72.4	75.3	76.8	78.1	75.7	97.7	60.8	74.8
17	71.6	69.7	72.1	83.6	88.8	89.6	88.2	88.2	89.9	87.8	78.4	80.4	73.7	71.5	76.4	82.1	76.2	81.7	85.2	84.1	86.9	89.2	78.8	70.1	89.9	69.7	81.0
18	69.3	70.2	67.3	67.5	68.7	69.0	67.4	65.6	64.2	63.1	62.1	60.1	59.5	58.3	57.3	57.3	56.4	57.6	55.9	58.1	58.3	56.6	56.5	55.4	70.2	55.4	61.7
19	55.6	56.7	55.7	57.5	57.3	56.1	56.2	58.9	59.1	55.4	54.0	54.8	54.4	55.7	52.4	51.7	52.1	53.8	53.4	52.9	53.4	53.3	53.5	54.2	59.1	51.7	54.9
20	54.2	53.4	53.9	54.8	55.4	55.0	55.4	54.0	51.5	51.7	52.9	52.0	50.7	50.2	48.9	49.3	50.8	52.9	53.7	54.4	53.7	54.5	56.5	56.4	56.5	48.9	53.2
21	60.6	65.2	65.6	66.7	65.8	62.6	62.0	64.0	76.2	75.4	74.3	71.4	67.4	71.5	74.3	77.8	80.1	86.3	89.2	89.0	88.4	86.5	87.7	90.4	90.4	60.6	74.9
22	91.4	92.5	93.0	91.4	88.4	84.5	90.1	95.1	95.9	95.9	96.4	97.3	97.5	97.6	97.6	97.6	97.6	97.5	97.5	97.6	97.7	97.8	97.9	97.7	97.9	84.5	95.1
23	96.5	91.2	86.7	86.8	84.9	83.4	84.7	88.4	87.9	85.1	85.1	83.1	85.7	87.5	87.1	90.6	93.5	94.7	94.8	95.1	94.8				96.5	83.1	88.9
24																											
25												62.7	64.5	64.0	61.5	61.9	63.7	64.3	65.5	65.3	68.7	77.3	71.9	68.8	77.3	61.5	66.2
26	73.2	81.9	85.9	87.2	87.7	89.4	90.7	89.0	79.1	74.8	77.8	73.3	71.4	67.5	64.8	74.7	79.1	77.5	75.0	79.7	86.5	88.4	90.6	88.7	90.7	64.8	80.6
27	89.1	89.9	90.0	89.9	89.1	87.5	84.8	84.9	85.7	85.4	77.1	73.3	70.4	74.6	78.3	75.6	74.2	77.3	84.7	84.1	87.7	87.3	78.1	78.8	90.0	70.4	82.4
28	77.0	79.9	84.2	84.1	88.1	91.9	91.0	86.1	87.7	90.0	92.4	89.1	85.0	80.1	75.4	82.8	81.5	80.1	77.7	85.0	89.7	91.0	86.3	77.3	92.4	75.4	84.7
29	72.5	75.9	77.0	75.6	74.2	74.9	69.8	67.6	68.3	68.3	69.0	69.2	65.6	70.0	69.9	67.5	63.7	66.2	68.3	70.1	69.8	68.9	68.2	67.8	77.0	63.7	69.9
30	68.1	69.1	71.9	72.4	73.3	74.0	72.5	72.1	71.1	66.7	63.9	62.0	60.4	59.4	58.0	57.9	60.6	62.9	64.2	65.2	66.6	66.4	63.5	62.8	74.0	57.9	66.0
Max.	**97.5**	**97.6**	**97.7**	**96.8**	**96.8**	**96.8**	**97.1**	**96.6**	**96.6**	**96.7**	**96.4**	**97.3**	**97.5**	**97.6**	**97.6**	**97.6**	**97.7**	**97.6**	**97.5**	**97.6**	**97.7**	**97.8**	**97.9**	**97.7**	**97.9**		
Min.	**51.6**	**51.9**	**53.9**	**54.8**	**55.4**	**55.0**	**55.4**	**54.0**	**51.5**	**51.7**	**52.9**	**52.0**	**47.1**	**41.3**	**37.9**	**35.1**	38.0	43.0	**45.0**	**42.8**	**45.4**	**43.3**	**41.3**	**46.9**		**35.1**	
Avg.	**76.7**	**78.2**	**79.2**	**80.6**	**81.0**	**80.1**	**79.9**	**79.7**	**78.2**	**76.0**	**74.5**	**73.1**	**72.2**	**71.4**	**71.3**	**72.8**	**72.7**	**74.8**	**75.4**	**76.4**	**78.5**	**78.3**	**76.8**	**76.5**			**76.4**

Total Hours in Month 720 **Hours Data Available** 682 **Data Recovery** 94.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	62.7	63.0	63.9	63.4	62.9	61.8	62.0	60.5	60.1	59.2	60.0	58.2	56.8	57.1	58.3	58.5	58.3	59.9	60.2	60.1	60.9	60.4	60.1	60.4	63.9	56.8	60.3
2	58.3	57.6	56.7	56.2	56.2	54.7	55.3	53.7	51.9	48.1	48.0	44.4	43.1	44.1	42.1	42.1	43.9	48.2	52.6	48.3	45.8	45.1	56.5	66.6	66.6	42.1	50.8
3	66.5	67.2	68.7	65.6	77.5	83.2	83.5	88.7	93.8	93.4	77.9	74.4	68.7	67.5	65.9	67.7	69.0	70.7	75.5	82.1	81.6	75.9	81.7	78.9	93.8	65.6	76.1
4	82.0	81.0	78.9	70.4	66.9	64.9	62.2	60.3	56.6	55.6	54.9	52.4	51.9	51.6	51.5	54.7	58.6	60.4	56.4	56.7	65.9	66.3	65.6	67.1	82.0	51.5	62.2
5	74.8	76.8	76.9	76.9	78.9	83.1	88.1	90.3	89.3	88.4	86.6	87.9	87.3	89.5	90.5	89.7	91.0	91.6	93.4	96.1	92.9	92.4	91.9	91.7	96.1	74.8	87.3
6	92.8	94.5	95.1	95.6	96.0	95.8	95.8	95.9	95.8	91.0	89.6	85.1	79.1	79.5	74.6	67.4	73.7	81.0	83.0	85.1	86.8	88.9	90.6	93.6	96.0	67.4	87.8
7	93.6	92.4	90.2	89.7	85.1	83.6	80.2	79.1	73.8	73.6	75.5	82.2	86.9	89.4	89.2	88.8	89.9	91.5	92.0	91.3	90.4	90.3	91.4	92.5	93.6	73.6	86.8
8	94.7	95.8	96.1	96.4	96.7	97.1	97.5	97.4	97.7	97.6	97.7	96.8	96.6	95.2	95.7	95.0	93.5	93.9	94.5	95.5	95.8	95.8	95.9	95.7	97.7	93.5	96.0
9	96.1	95.9	96.4	96.8	97.0	97.0	97.4	97.3	96.6	94.2	91.0	92.4	90.9	81.1	69.8	68.6	68.3	68.5	68.1	66.6	68.2	70.6	68.7	67.8	97.4	66.6	83.6
10	66.9	67.1	65.8	65.5	57.2	54.2	52.6	51.0	51.1	66.4	73.8	70.1	65.5	65.0	66.2	66.8	68.6	72.1	73.2	75.7	79.2	79.6	81.0	83.1	83.1	51.0	67.4
11	87.4	91.3	91.5	89.4	90.7	88.5	82.3	78.2	83.2	88.5	84.0	82.0	71.9	65.5	69.3	72.7	74.6	71.1	70.1	65.1	66.6	69.4	68.2	65.4	91.5	65.1	77.8
12	69.3	69.7	66.2	66.2	66.2	64.0	63.4	61.8	60.5	59.7	58.3	59.0	56.6	54.5	53.3	52.6	52.7	53.8	54.2	52.6	50.0	46.0	39.2	39.1	69.7	39.1	57.0
13	39.0	39.5	37.8	53.4	61.9	61.3	65.1	64.1	65.4	62.9	57.2	49.3	53.8	56.2	58.5	59.2	60.4	59.0	60.5	64.3	68.0	68.0	70.7	72.0	72.0	37.8	58.6
14	73.0	68.3	71.6	77.2	83.8	86.8	90.6	92.9	93.2	91.0	90.9	87.8	83.3	74.3	69.0	66.9	75.5	77.0	74.6	74.7	74.0	73.5	80.2	83.8	93.2	66.9	79.7
15	81.6	79.7	78.4	77.6	77.0	75.9	72.3	68.8	70.1	68.7	67.6	66.3	66.5	65.3	65.4	70.3	67.7	71.6	74.7	75.2	84.0	85.3	88.3	90.9	90.9	65.3	74.6
16	89.2	89.0	88.8	80.7	58.7	55.0	60.8	64.8	61.6	49.4	44.6	47.0	45.4	47.8	50.3	52.1	54.8	59.4	64.8	69.4	71.6	72.5	76.8	80.2	89.2	44.6	63.9
17	79.6	78.5	77.5	87.2	92.2	93.3	95.0	89.8	86.6	86.1	89.9	92.4	92.5	86.4	84.2	68.5	66.7	69.2	76.6	80.8	79.1	79.5	80.7	84.6	95.0	66.7	83.2
18	87.5	84.2	81.7	84.4	83.9	85.8	79.8	75.7	72.9	66.3	60.6	62.5	60.6	58.7	58.3	56.0	60.7	68.5	74.9	72.4	76.7	82.9	85.4	87.4	87.5	56.0	73.7
19	87.4	86.1	87.1	81.0	78.3	81.4	81.0	81.4	77.4	76.2	80.5	80.4	81.3	82.4	82.2	80.7	81.6	84.6	86.4	84.3	89.0	91.1	93.1	93.4	93.4	76.2	83.7
20	93.7	93.3	93.7	94.6	94.2	92.9	92.2	91.8	90.4	85.1	75.4	73.4	64.9	61.3	60.5	61.0	61.1	59.8	57.3	54.4	51.2	47.3	42.2	47.0	94.6	42.2	72.4
21	60.2	58.7	60.1	65.5	64.9	61.6	65.7	74.5	82.1	87.9	90.0	90.6	92.6	92.8	94.4	94.9	94.4	94.4	92.8	84.0	79.2	77.1	75.3	72.8	94.9	58.7	79.4
22	69.2	68.1	60.2	59.3	59.3	56.7	56.9	53.4	54.6	55.2	55.6	57.3	58.9	61.3	60.8	63.6	63.8	62.1	58.0	56.7	57.1	56.3	53.6	49.7	69.2	49.7	58.7
23	48.8	46.3	48.2	50.6	54.3	56.0	56.4	54.4	54.0	54.7	56.0	66.4	72.5	76.7	77.6	80.3	84.9	90.8	92.1	93.2	93.0	90.9	89.4	87.0	93.2	46.3	69.8
24	90.4	91.8	91.7	93.1	94.5	91.6	89.6	88.2	82.9	80.3	77.2	69.4	69.8	64.4	55.0	51.6	51.6	47.8	45.4	42.9	42.8	45.9	44.6	45.1	94.5	42.8	68.7
25	46.1	48.7	48.1	50.1	61.0	58.0	58.9	58.8	58.2	64.6	67.3	68.0	64.1	62.4	61.8	62.1	65.4	70.7	76.5	76.6	78.6	79.8	80.9	79.6	80.9	46.1	64.4
26	80.2	81.0	80.2	79.4	80.3	81.5	81.0	78.4	80.0	76.4	73.9	66.4	57.7	57.2	54.6	53.6	57.0	59.6	58.0	61.9	70.4	72.6	76.7	78.7	81.5	53.6	70.7
27	81.5	81.5	81.7	83.3	82.3	84.6	83.7	84.9	83.5	79.3	75.5	66.7	59.4	51.6	51.2	48.0	56.5	65.4	65.8	65.0	68.9	69.6	71.4	74.6	84.9	48.0	71.5
28	73.8	70.0	71.9	74.9	74.0	74.6	70.5	73.4	74.5	76.4	77.4	72.2	69.5	61.4	54.6	55.3	60.7	66.4	70.5	72.8	70.0	70.2	73.7	72.0	77.4	54.6	70.0
29	70.0	67.8	68.2	70.6	71.1	71.6	74.4	75.1	73.9	70.2	65.1	60.8	65.5	62.8	62.4	61.9	62.5	66.5	66.6	64.2	62.1	63.1	63.6	62.9	75.1	60.8	66.8
30	61.9	61.4	59.1	61.6	60.4	61.0	63.0	60.8	64.9	70.7	72.5	74.7	73.4	70.5	66.0	64.9	65.7	66.6	68.6	69.5	69.3	68.9	68.9	69.9	74.7	59.1	66.4
31	69.2	68.6	68.4	67.6	66.4	64.3	61.7	58.9	60.7	60.1	59.9	55.1	50.6	48.5	50.6	46.5	45.6	48.2	47.0	46.4	48.1	50.1	58.1	60.9	69.2	45.6	56.7
Max.	**96.1**	**95.9**	**96.4**	**96.8**	**97.0**	**97.1**	**97.5**	**97.4**	**97.7**	**97.6**	**97.7**	**96.8**	**96.6**	**95.2**	**95.7**	**95.0**	**94.4**	**94.4**	**94.5**	**96.1**	**95.8**	**95.8**	**95.9**	**95.7**	**97.7**		
Min.	**39.0**	**39.5**	**37.8**	**50.1**	**54.3**	**54.2**	**52.6**	**51.0**	**51.1**	**48.1**	**44.6**	**44.4**	**43.1**	**44.1**	**42.1**	**42.1**	43.9	47.8	**45.4**	**42.9**	**42.8**	**45.1**	**39.2**	**39.1**		**37.8**	
Avg.	**75.1**	**74.7**	**74.2**	**75.0**	**75.2**	**74.9**	**74.8**	**74.3**	**74.1**	**73.5**	**72.1**	**70.7**	**69.0**	**67.2**	**65.9**	**65.2**	**67.1**	**69.4**	**70.5**	**70.4**	**71.5**	**71.8**	**73.0**	**74.0**			**71.8**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	64.7	67.2	71.6	67.6	68.5	72.5	72.1	73.9	74.1	75.6	73.9	72.9	69.9	67.1	65.7	52.8	42.0	51.8	62.8	62.5	63.3	61.7	61.4	63.3	75.6	42.0	65.8
2	66.3	65.7	62.2	63.1	66.9	72.8	74.8	78.6	80.8	77.0	75.6	74.7	73.4	66.1	62.9	60.7	61.8	62.5	60.2	60.8	63.1	64.1	61.9	66.0	80.8	60.2	67.6
3	64.5	68.0	67.3	57.1	56.0	66.6	57.8	57.3	52.8	46.1	37.2	35.2	34.2	37.0	38.7	37.0	36.1	37.6	37.3	35.0	34.7	38.8	32.7	32.9	68.0	32.7	45.8
4	34.2	35.2	36.8	37.2	37.4	34.1	33.1	42.5	34.9	36.5	35.5	36.5	34.7	32.9	33.9	34.7	34.8	33.2	33.9	34.0	32.8	34.5	41.5	57.7	57.7	32.8	36.3
5	51.0	54.7	55.0	40.4	35.7	36.5	36.8	41.1	41.4	36.9	31.3	30.1	31.4	29.8	29.4	30.8	29.9	29.8	33.2	31.6	38.6	38.6	40.0	45.6	55.0	29.4	37.5
6	55.1	64.1	75.2	88.7	92.7	94.2	96.0	97.2	97.5	96.7	87.0	60.5	56.3	61.7	62.2	61.6	61.9	65.4	63.2	60.4	56.1	54.4	54.2	55.4	97.5	54.2	71.6
7	50.9	48.9	42.9	45.2	38.7	33.8	37.4	49.0	70.2	59.1	55.4	55.0	57.5	57.0	53.2	50.4	57.9	57.1	57.4	57.0	54.7	54.3	51.5	51.0	70.2	33.8	51.9
8	50.1	52.7	51.9	61.5	68.8	66.1	70.5	78.9	80.1	79.4	72.1	66.2	67.6	63.6	61.3	64.4	72.6	77.8	79.3	80.2	81.9	82.4	81.0	79.4	82.4	50.1	70.4
9	79.1	79.5	81.8	85.3	89.9	91.4	92.6	93.4	93.8	94.3	93.3	86.7	82.1	77.6	78.1	79.6	81.2	84.9	87.3	89.5	90.3	85.6	77.3	72.4	94.3	72.4	85.3
10	74.9	73.6	70.3	67.0	65.4	63.7	63.1	63.1	62.7	60.7	59.5	58.4	57.9	55.7	56.7	58.3	58.3	59.6	60.0	61.5	63.1	65.5	69.4	71.0	74.9	55.7	63.3
11	74.5	76.0	75.3	78.2	83.3	85.5	87.3	88.5	89.4	91.0	91.5	89.2	89.6	85.9	84.5	90.2	92.6	93.5	93.8	93.7	93.3	93.1	93.2	93.5	93.8	74.5	87.8
12	93.4	93.5	93.5	92.7	92.2	91.5	90.9	91.9	92.5	89.7	86.3	83.7	80.9	81.1	79.9	82.3	83.0	87.1	90.6	92.2	92.6	93.6	94.1	94.2	94.2	79.9	89.3
13	93.2	92.8	92.6	90.1	87.2	86.2	85.5	84.6	83.7	81.2	81.5	76.7	77.5	77.9	78.4	79.3	82.1	83.4	85.4	84.5	78.1	76.3	83.6	81.1	93.2	76.3	83.5
14	84.5	83.6	82.9	72.3	72.1	72.0	67.5	66.2	56.9	56.9	54.5	56.8	63.5	65.7	61.5	60.1	60.1	61.8	63.0	65.5	67.5	68.2	67.0	64.8	84.5	54.5	66.4
15	64.5	63.5	58.7	62.0	62.9	70.1	78.9	78.8	76.6	81.2	85.5	84.3	77.8	66.5	70.0	69.3	72.7	71.9	72.4	72.4	76.6	83.1	86.0	87.3	87.3	58.7	73.9
16	86.2	78.2	77.5	86.8	93.3	94.4	93.6	89.1	78.2	76.9	78.5	80.6	82.2	84.5	83.5	83.0	85.0	89.6	90.2	89.1	88.6	90.1	90.9	89.5	94.4	76.9	85.8
17	91.0	88.4	89.9	91.0	93.0	94.7	96.1	96.3	96.4	96.7	96.9	97.1	88.5	74.8	67.3	65.2	65.6	67.2	69.2	71.7	78.8	81.4	84.2	82.7	97.1	65.2	84.3
18	78.8	88.3	90.7	89.6	91.8	94.8	94.8	94.6	93.9	92.1	88.6	89.0	89.4	89.7	89.8	88.4	86.2	88.9	91.1	86.3	80.8	75.9	71.3	68.8	94.8	68.8	87.2
19	68.5	71.4	70.9	71.9	68.3	70.5	71.4	67.0	68.5	64.7	63.5	63.1	67.2	67.2	63.8	62.8	58.8	59.8	59.3	59.0	58.4	58.8	58.8	64.4	71.9	58.4	64.9
20	65.1	68.4	68.7	71.1	78.7	85.7	82.8	83.9	87.0	94.1	83.5	72.4	69.6	70.4	77.4	93.0	96.2	96.8	97.4	97.5	97.6	97.6	97.7	97.7	97.7	65.1	84.6
21	97.4	97.5	97.4	97.6	94.0	84.3	78.5	74.9	73.0	70.4	67.0	67.8	66.8	66.6	62.6	59.6	57.1	55.9	53.1	55.6	59.4	58.1	58.3	60.9	97.6	53.1	71.4
22	62.3	59.8	62.4	64.7	66.8	67.1	64.1	60.2	55.1	46.5	46.1	48.6	56.5	60.9	62.5	62.5	64.3	69.0	66.5	52.2	46.7	45.8	44.2	43.6	69.0	43.6	57.4
23	44.1	44.8	45.1	46.6	46.3	48.0	54.1	57.4	59.1	61.4	54.9	55.2	56.1	54.7	54.3	53.2	49.6	47.6	51.2	50.1	48.8	47.6	48.7	51.2	61.4	44.1	51.3
24	50.0	50.9	49.2	47.7	47.0	48.6	48.9	49.4	50.0	48.9	58.7	64.9	58.6	61.5	64.0	65.1	64.0	62.1	55.2	51.5	51.3	49.3	48.5	49.2	65.1	47.0	53.9
25	49.9	51.0	51.1	51.6	51.5	49.9	49.0	48.0	48.2	49.8	49.6	47.8	48.8	49.6	49.7	50.5	54.6	54.4	51.6	46.4	45.3	47.8	48.6	47.6	54.6	45.3	49.7
26	50.0	51.6	56.1	53.2	51.2	49.8	46.1	45.0	44.3	43.4	42.5	42.6	44.9	46.4	48.7	51.5	51.3	54.8	58.0	59.0	67.9	69.7	70.0	73.4	73.4	42.5	53.0
27	73.1	73.8	74.9	75.8	74.4	74.7	75.6	77.1	79.4	79.7	79.3	78.5	76.7	77.8	72.8	71.2	75.8	78.6	78.5	77.7	76.8	79.2	76.7	75.8	79.7	71.2	76.4
28	79.6	76.3	75.9	79.2	81.2	79.8	79.2	81.1	78.6	79.4	75.8	68.8	69.2	70.4	72.9	72.6	72.5	75.0	77.6	77.6	78.7	81.2	81.6	83.3	83.3	68.8	77.0
29	82.9	81.3	83.5	84.6	82.9	83.1	83.8	79.8	78.9	81.9	84.1	84.4	71.8	74.9	74.5	67.2	64.0	64.0	62.9	57.4	51.5	52.6	56.9	56.7	84.6	51.5	72.7
30	52.5	54.4	59.1	54.2	53.7	56.8	53.3	54.3	53.1	50.3	43.4	52.8	60.6	60.7	54.1	46.4	46.8	45.9	45.2	45.3	43.2	41.7	45.9	45.4	60.7	41.7	50.8
Max.	**97.4**	**97.5**	**97.4**	**97.6**	**94.0**	**94.8**	**96.1**	**97.2**	**97.5**	**96.7**	**96.9**	**97.1**	**89.6**	**89.7**	**89.8**	**93.0**	**96.2**	**96.8**	**97.4**	**97.5**	**97.6**	**97.6**	**97.7**	**97.7**	**97.7**		
Min.	**34.2**	**35.2**	**36.8**	**37.2**	**35.7**	**33.8**	**33.1**	**41.1**	**34.9**	**36.5**	**31.3**	**30.1**	**31.4**	**29.8**	**29.4**	**30.8**	29.9	29.8	**33.2**	**31.6**	**32.8**	**34.5**	**32.7**	**32.9**		**29.4**	
Avg.	**67.7**	**68.5**	**69.0**	**69.1**	**69.7**	**70.6**	**70.5**	**71.4**	**71.0**	**69.9**	**67.8**	**66.0**	**65.4**	**64.5**	**63.8**	**63.4**	**64.0**	**65.6**	**66.2**	**65.2**	**65.3**	**65.7**	**65.9**	**66.9**			**67.2**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	48.0	45.3	45.7	45.7	44.1	50.6	52.3	53.3	56.8	55.4	66.6	60.4	49.8	51.2	48.1	53.6	64.4	45.5	57.6	52.5	57.9	55.9	52.3	54.1	66.6	44.1	52.8
2	58.7	60.4	59.6	61.4	62.6	58.0	56.7	64.3	57.3	58.9	60.0	60.0	60.1	66.1	65.9	65.1	63.2	67.4	65.6	64.2	60.7	57.7	57.8	62.0	67.4	56.7	61.4
3	64.9	65.7	62.9	58.2	55.1	51.2	52.5	53.6	52.8	54.2	57.0	55.0	55.9	55.1	55.8	53.5	55.3	53.8	59.2	68.2	70.2	68.1	70.9	72.0	72.0	51.2	59.2
4	72.0	77.7	81.2	86.9	83.1	84.1	88.5	86.2	84.2	77.7	76.3	74.2	70.3	67.3	67.2	72.2	76.7	85.7	93.1	94.3	94.0	93.6	89.9	86.6	94.3	67.2	81.8
5	89.9	91.3	93.6	91.7	90.7	89.8	87.5	81.3	78.8	78.6	85.0	85.5	87.9	86.7	86.8	86.8	87.3	87.6	84.7	80.7	73.8	74.3	80.5	81.9	93.6	73.8	85.1
6	83.1	81.3	81.9	86.5	88.9	89.1	87.2	84.2	84.1	89.3	88.7	88.7	86.6	87.9	92.1	97.8	98.4	98.3	97.4	96.8	93.9	92.6	90.8	84.3	98.4	81.3	89.6
7	87.0	87.4	89.5	93.9	93.6	93.3	92.5	92.8	93.6	93.9	92.3	92.6	90.6	88.9	89.7	91.0	94.8	92.7	90.0	91.7	91.6	91.1	93.5	94.0	94.8	87.0	91.8
8	94.5	94.3	94.2	92.7	94.5	95.7	96.1	97.1	97.6	97.5	87.6	80.0	79.9	84.3	84.6	85.3	87.1	87.3	87.0	87.1	87.6	87.9	87.2	86.3	97.6	79.9	89.7
9	87.3	86.7	87.9	90.1	92.8	94.0	94.5	93.0	90.1	94.7	94.5	87.6	80.3	75.5	71.3	74.6	71.5	69.6	72.2	76.5	83.1	83.5	85.8	85.1	94.7	69.6	84.3
10	87.7	90.2	92.0	90.5	89.3	87.8	88.0	89.0	88.6	88.1	82.3	83.5	83.0	77.2	73.0	77.3	86.8	88.1	89.4	89.5	89.7	91.2	92.2	91.3	92.2	73.0	86.9
11	90.6	91.6	92.7	94.8	95.0	95.0	90.5	86.0	82.9	76.8	71.2	71.2	70.5	69.3	67.3	65.9	64.6	67.0	66.2	65.2	64.3	65.9	68.3	69.9	95.0	64.3	76.8
12	69.1	70.0	67.9	62.2	59.4	53.7	54.8	53.4	54.1	54.0	49.8	44.2	39.9	50.4	49.9	39.9	50.3	48.0	65.1	61.3	64.5	67.3	67.7	69.5	70.0	39.9	56.9
13	71.0	70.2	70.0	70.1	73.2	62.3	61.3	59.3	59.5	60.6	56.4	58.6	63.7	67.4	67.8	66.0	62.7	56.8	56.1	58.8	60.6	56.5	56.2	58.5	73.2	56.1	62.6
14	61.3	63.9	63.7	64.4	63.0	61.0	57.4	57.2	57.1	55.9	55.8	56.2	55.6	57.2	59.8	73.2	87.3	91.3	93.5	94.9	95.6	94.4	94.0	92.4	95.6	55.6	71.1
15	92.7	89.4	89.1	86.2	81.9	79.9	78.5	86.1	86.6	84.2	82.2	84.1	86.5	83.9	84.8	84.1	86.3	86.8	86.8	88.1	90.8	89.3	88.8	90.4	92.7	78.5	86.1
16	91.1	91.5	93.5	94.2	95.4	96.6	97.6	98.2	99.2	99.5	99.5	99.3	96.0	93.8	95.7	96.3	96.9	97.5	98.0	98.3	98.6	96.6	89.7	92.3	99.5	89.7	96.1
17	93.4	96.8	98.1	98.7	99.0	99.1	99.2	99.2	99.0	99.1	97.4	94.5	90.1	85.5	82.3	84.4	89.0	90.9	90.8	86.5	82.1	75.1	76.5	75.4	99.2	75.1	90.9
18	73.2	67.9	64.3	62.9	64.2	63.1	79.5	85.5	83.5	83.8	84.0	78.2	75.5	76.4	74.0	69.6	66.6	69.0	69.7	66.9	68.0	71.2	75.1	72.0	85.5	62.9	72.7
19	67.0	64.2	64.2	65.1	65.4	66.7	67.8	69.7	68.8	67.3	66.0	64.1	61.1	63.9	64.1	68.2	76.2	75.2	67.1	62.7	63.4	66.9	69.4	66.1	76.2	61.1	66.7
20	67.5	72.5	66.3	61.9	61.3	60.0	63.0	72.8	82.0	86.1	87.4	84.7	82.6	80.1	84.6	81.8	83.2	87.3	90.7	89.8	81.5	81.2	85.9	83.2	90.7	60.0	78.2
21	84.1	87.1	87.0	88.5	88.3	88.1	86.1	84.4	84.1	85.4	82.7	85.0	89.4	95.5	97.4	97.6	97.1	97.1	97.0	95.0	92.8	92.0	93.7	94.0	97.6	82.7	90.4
22	91.9	92.4	91.5	91.7	92.5	93.6	93.8	93.1	91.1	88.6	89.2	90.7	96.1	99.1	99.5	99.8	99.2	99.1	99.1	98.8	98.8	98.2	97.8	97.8	99.8	88.6	95.1
23	97.4	97.2	97.5	97.5	97.7	97.8	97.7	97.7	97.8	97.8	97.2	96.7	96.6	97.1	97.2	97.0	97.4	97.4	97.7	97.1	96.1	94.5	91.4	89.6	97.8	89.6	96.6
24	88.0	85.3	90.8	90.4	89.4	85.9	82.0	82.4	81.0	79.0	82.5	79.4	79.5	78.7	89.2	89.6	89.8	82.4	76.8	75.6	76.6	78.1	84.6	83.8	90.8	75.6	83.4
25	83.4	84.1	82.1	86.8	87.2	88.2	88.3	88.3	83.5	79.4	79.7	74.4	73.4	71.2	70.1	65.1	61.9	63.6	63.9	62.1	62.9	64.3	70.0	75.3	88.3	61.9	75.4
26	84.0	91.5	92.0	90.6	91.3	92.3	92.2	88.0	78.6	74.9	77.5	74.3	74.7	75.1	73.6	73.4	73.2	71.3	74.7	72.7	65.8	66.5	65.2	63.5	92.3	63.5	78.2
27	61.5	59.5	57.9	55.9	55.9	51.2	52.9	56.7	52.4	48.7	50.1	48.6	49.9	49.9	58.3	53.4	47.5	44.1	44.8	46.4	47.2	47.5	56.4	62.5	62.5	44.1	52.5
28	60.1	63.4	59.6	58.7	61.3	61.5	72.2	70.8	62.6	62.2	61.4	56.4	54.8	54.5	53.5	53.7	52.6	49.6	47.2	47.9	50.1	57.2	68.3	75.4	75.4	47.2	59.0
29	85.0	87.6	89.4	91.8	92.7	92.5	91.5	91.6	92.4	91.0	92.0	89.4	84.9	85.9	86.4	90.1	91.3	91.4	91.1	88.9	78.6	70.7	68.2	65.5	92.7	65.5	86.7
30	65.9	65.3	60.6	56.5	52.2	48.2	45.4	57.1	53.0	55.9	59.9	58.6	48.6	47.2	47.2	42.5	43.7	47.4	47.1	47.2	47.6	46.1	47.2	48.6	65.9	42.5	51.6
31	50.2	50.7	52.5	56.2	59.7	62.2	57.9	57.5	59.9	65.4	63.2	63.6	64.3	69.3	63.7	65.8	65.6	66.1	66.5	66.5	66.3	67.3	64.7	70.1	70.1	50.2	62.3
Max.	**97.4**	**97.2**	**98.1**	**98.7**	**99.0**	**99.1**	**99.2**	**99.2**	**99.2**	**99.5**	**99.5**	**99.3**	**96.6**	**99.1**	**99.5**	**99.8**	**99.2**	**99.1**	**99.1**	**98.8**	**98.8**	**98.2**	**97.8**	**97.8**	**99.8**		
Min.	**48.0**	**45.3**	**45.7**	**45.7**	**44.1**	**48.2**	**45.4**	**53.3**	**52.4**	**48.7**	**49.8**	**44.2**	**39.9**	**47.2**	**47.2**	**39.9**	43.7	44.1	**44.8**	**46.4**	**47.2**	**46.1**	**47.2**	**48.6**		**39.9**	
Avg.	**77.5**	**78.1**	**78.0**	**78.1**	**78.1**	**77.2**	**77.6**	**78.4**	**77.2**	**76.9**	**76.6**	**74.8**	**73.5**	**73.9**	**74.2**	**74.7**	**76.4**	**76.0**	**77.0**	**76.5**	**76.0**	**75.6**	**76.8**	**77.2**			**76.5**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	76.0	86.7	92.0	88.8	78.9	76.3	70.7	69.4	68.7	66.2	64.1	67.6	67.9	64.2	67.9	66.5	65.2	61.2	60.5	61.2	64.8	72.7	74.9	73.0	92.0	60.5	71.1
2	68.9	70.0	73.1	75.5	70.5	66.4	64.6	64.0	75.1	84.6	88.2	86.8	79.9	84.2	79.3	76.4	77.8	82.4	88.9	90.1	90.7	88.2	89.3	85.8	90.7	64.0	79.2
3	89.5	86.2	89.4	93.2	87.7	84.3	84.6	78.4	80.0	75.3	80.5	72.5	73.1	73.6	70.9	67.3	68.7	67.3	66.5	69.5	65.0	64.7	73.7	74.7	93.2	64.7	76.5
4	70.3	64.5	70.5	78.1	81.2	84.0	84.7	86.2	88.7	88.5	87.4	90.2	90.4	89.1	85.7	83.7	82.4	83.6	87.9	87.5	84.8	84.0	83.9	80.3	90.4	64.5	83.2
5	69.3	55.3	47.2	49.1	53.3	51.6	51.3	55.8	67.4	76.0	78.4	76.0	76.5	81.6	79.3	79.0	81.6	85.1	87.5	87.4	83.7	84.9	85.2	87.8	87.8	47.2	72.1
6	86.9	85.2	87.4	87.3	86.9	87.5	87.3	85.0	85.3	84.8	85.0	82.0	83.9	82.7	82.5	78.7	78.7	77.3	78.2	83.3	84.2	82.3	84.6	86.8	87.5	77.3	83.9
7	88.1	87.3	91.1	92.1	91.7	94.0	95.4	96.4	96.0	90.5	70.2	59.4	61.5	70.2	82.3	81.8	79.9	81.8	77.3	68.3	67.7	71.5	74.3	76.7	96.4	59.4	81.1
8	68.9	64.2	65.3	66.0	67.5	72.7	75.7	72.9	66.2	63.0	60.6	65.9	64.1	62.2	72.3	75.5	76.0	75.9	80.1	81.2	84.4	87.9	88.7	88.7	88.7	60.6	72.7
9	88.3	85.9	82.5	83.2	85.0	85.8	81.9	82.3	84.7	84.9	85.0	85.2	83.6	84.5	83.7	82.6	84.3	85.4	86.8	89.4	92.1	91.3	91.5	91.4	92.1	81.9	85.9
10	91.6	92.2	92.7	94.0	95.8	96.7	95.8	95.5	95.9	96.2	94.2	93.6	90.4	86.5	84.8	84.6	85.0	85.8	85.7	85.5	85.2	83.9	83.7	82.1	96.7	82.1	89.9
11	82.2	84.0	82.2	80.3	79.3	82.2	88.3	92.4	92.0	92.2	88.0	84.3	84.3	82.5	83.1	81.2	82.7	82.9	84.4	87.8	89.2	88.9	88.3	87.9	92.4	79.3	85.4
12	86.8	86.6	85.1	85.5	83.9	83.3	83.3	80.8	77.3	74.9	72.6	69.7	69.6	69.4	69.6	70.1	71.0	72.0	72.4	73.9	73.3	72.9	74.4	73.4	86.8	69.4	76.3
13	74.8	73.4	73.1	71.9	73.7	72.6	71.7	72.5	74.5	77.2	74.8	73.4	71.6	70.8	72.4	68.1	70.3	74.5	72.7	72.9	75.2	72.7	75.8	77.5	77.5	68.1	73.3
14	78.7	81.5	84.7	86.8	88.2	86.1	80.1	80.8	79.3	79.4	79.4	79.6	78.5	78.0	77.4	90.1	95.4	94.5	93.2	91.3	95.0	94.5	92.8	90.2	95.4	77.4	85.6
15	90.7	90.7	91.5	89.5	88.3	86.5	86.9	82.7	78.9	79.1	75.2	76.4	74.3	74.1	72.0	70.2	65.8	70.7	68.7	69.8	68.1	65.2	66.9	65.2	91.5	65.2	77.0
16	64.2	65.0	64.1	64.1	64.1	61.9	61.8	60.3	58.8	55.7	55.4	49.3	52.1	54.6	57.8	64.6	71.1	73.5	76.3	81.0	84.0	88.9	89.5	91.4	91.4	49.3	67.1
17	91.6	94.4	89.5	87.8	84.9	85.2	84.5	81.3	82.2	80.1	79.2	75.1	72.1	67.8	57.7	54.9	50.4	50.1	44.4	46.0	55.7	70.8	75.1	76.5	94.4	44.4	72.4
18	77.2	78.4	76.3	74.2	74.8	77.7	70.7	71.2	76.4	75.1	66.6	68.5	69.1	68.6	67.7	71.3	72.7	75.4	76.4	74.5	78.8	77.0	76.2	76.3	78.8	66.6	73.8
19	76.0	76.8	76.4	71.1	67.2	61.1	65.0	62.8	70.2	70.3	64.4	60.6	63.8	62.3	60.1	65.0	67.5	68.3	68.9	72.1	75.7	82.2	83.6	83.2	83.6	60.1	69.8
20	83.1	84.2	82.9	82.0	77.9	79.0	74.2	75.9	77.1	80.5	79.9	78.1	74.9	73.8	71.1	65.7	64.8	60.2	72.4	84.4	87.8	89.8	91.9	92.0	92.0	60.2	78.5
21	91.4	91.5	92.5	91.6	93.1	95.1	96.4	95.4	96.4	96.8	96.6	95.8	95.1	94.8	94.4	94.0	94.4	93.9	93.8	89.1	85.6	83.8	79.9	76.8	96.8	76.8	92.0
22	76.8	75.5	75.1	74.8	72.6	71.8	70.7	68.1	64.2	64.8	59.0	58.7	57.9	56.3	54.8	52.5	52.5	52.0	49.0	49.8	51.7	52.0	51.0	50.5	76.8	49.0	60.9
23	56.8	59.3	65.5	72.4	74.6	76.3	74.8	75.6	75.2	79.3	80.4	78.2	77.1	76.9	73.1	74.4	75.8	78.1	76.8	78.5	77.6	76.5	76.5	76.6	80.4	56.8	74.4
24	76.3	74.8	73.3	73.8	73.5	74.4	75.6	74.9	76.4	79.2	78.3	78.1	74.4	72.8	72.1	72.3	73.6	77.4	76.9	76.7	75.5	74.4	75.3	75.3	79.2	72.1	75.2
25	76.0	77.7	77.0	75.9	76.5	77.8	79.3	79.2	79.0	79.5	80.4	79.5	75.8	71.7	70.0	71.6	75.6	80.3	82.6	84.9	85.8	87.0	87.7	87.6	87.7	70.0	79.1
26	87.1	86.1	86.1	85.3	83.6	83.8	83.5	83.3	82.6	85.9	87.0	86.2	84.2	80.8	76.1	76.1	76.8	77.3	76.6	76.5	74.1	75.3	78.0	75.6	87.1	74.1	81.2
27	77.3	58.0	50.6	53.3	53.4	55.3	53.4	49.7	49.1	55.0	45.7	43.0	41.3	40.2	40.2	41.0	40.6	41.2	40.0	40.4	40.4	40.5	40.7	40.9	77.3	40.0	47.1
28	43.0	43.9	43.3	43.1	43.5	42.4	41.2	38.6	38.3	39.0	38.2	39.9	39.1	39.3	56.6	69.9	77.8	83.2	82.6	80.7	80.8	82.1	83.0	85.8	85.8	38.2	56.5
29	87.3	86.6	86.6	85.9	85.7	85.7	85.7	85.6	85.4	85.1	85.7	86.4	86.6	87.4	88.0	88.2	87.7	87.1	87.1	87.3	86.9	86.8	86.8	87.1	88.2	85.1	86.6
30	87.5	87.3	87.4	87.1	87.1	87.6	87.7	87.9	87.4	87.3	87.0	87.9	88.8	89.8	90.4	91.2	90.7	90.4	90.3	90.9	92.9	93.3	93.5	93.2	93.5	87.0	89.4
31	92.2	90.9	90.2	86.0	84.1	83.0	75.4	76.3	83.4	84.7	87.9	87.8	90.4	91.7	90.7	89.2	89.1	86.6	83.7	87.8	89.9	87.3	86.6	85.2	92.2	75.4	86.7
Max.	**92.2**	**94.4**	**92.7**	**94.0**	**95.8**	**96.7**	**96.4**	**96.4**	**96.4**	**96.8**	**96.6**	**95.8**	**95.1**	**94.8**	**94.4**	**94.0**	**95.4**	**94.5**	**93.8**	**91.3**	**95.0**	**94.5**	**93.5**	**93.2**	**96.8**		
Min.	**43.0**	**43.9**	**43.3**	**43.1**	**43.5**	**42.4**	**41.2**	**38.6**	**38.3**	**39.0**	**38.2**	**39.9**	**39.1**	**39.3**	**40.2**	**41.0**	40.6	41.2	**40.0**	**40.4**	**40.4**	**40.5**	**40.7**	**40.9**		**38.2**	
Avg.	**79.2**	**78.2**	**78.2**	**78.4**	**77.7**	**77.7**	**76.8**	**76.2**	**77.2**	**77.8**	**76.0**	**74.7**	**73.9**	**73.6**	**73.7**	**74.1**	**75.0**	**76.0**	**76.4**	**77.4**	**78.3**	**79.1**	**80.1**	**79.9**			**76.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	83.7	89.0	90.4	91.0	88.8	70.0	59.8	57.0	54.1	53.8	52.8	50.3	46.8	42.7	44.3	42.7	38.5	49.0	58.2	66.5	61.3	52.9	39.1	35.3	91.0	35.3	59.1
2	34.6	35.8	36.3	37.0	37.2	33.6	33.0	33.3	33.1	31.6	31.6	31.7	51.8	63.6	65.0	61.2	70.9	79.0	76.4	73.5	75.1	79.8	69.0	66.2	79.8	31.6	51.7
3	63.7	70.6	68.7	68.8	67.7	69.2	69.4	68.1	66.7	67.0	71.6	78.3	78.7	78.4	76.6	75.3	76.5	76.3	75.3	76.2	77.1	81.5	74.3	74.2	81.5	63.7	72.9
4	71.8	68.1	72.0	81.4	82.3	66.3	60.9	62.2	60.5	57.9	56.4	56.0	56.5	62.9	72.4	76.1	70.7	72.4	79.4	85.7	88.3	87.3	88.7	94.5	94.5	56.0	72.1
5	96.5	95.7	93.0	91.5	91.7	94.7	91.9	88.3	89.6	79.8	84.3	95.6	93.0	86.2	85.0	77.2	74.0	71.3	85.7	88.7	91.5	96.9	98.1	96.9	98.1	71.3	89.0
6	97.1	95.9	95.4	95.9	96.8	96.9	97.4	99.0	98.8	98.7	99.4	99.9	99.7	99.5	98.7	98.8	96.6	98.5	99.3	99.6	99.8	99.8	99.6	99.0	99.9	95.4	98.3
7	98.8	98.7	98.3	97.8	97.8	97.9	97.7	96.9	90.8	90.0	85.0	81.2	78.4	78.7	78.3	79.5	81.0	78.4	78.0	72.9	69.9	65.9	59.1	50.5	98.8	50.5	83.4
8	49.0	51.0	65.6	67.7	75.0	74.7	72.0	70.8	64.0	43.0	54.9	66.7	62.6	50.1	39.0	41.0	47.3	51.0	49.5	56.3	58.1	58.1	60.0	63.2	75.0	39.0	57.9
9	64.3	63.7	65.9	73.5	80.0	80.8	90.3	86.3	90.3	96.2	97.0	96.8	93.8	91.1	88.3	86.9	80.0	79.4	83.2	86.6	84.7	89.7	87.2	88.0	97.0	63.7	84.3
10	90.8	87.6	82.3	76.1	87.2	91.2	95.8	97.5	98.6	99.1	99.2	97.3	98.0	98.8	98.6	97.1	92.0	88.4	89.8	88.8	89.0	90.8	87.6	95.5	99.2	76.1	92.4
11	95.6	90.8	84.9	87.1	78.2	85.2	91.1	88.9	87.0	85.6	90.0	92.4	93.6	93.3	90.7	89.9	89.5	91.0	90.8	92.5	91.3	89.3	90.0	88.5	95.6	78.2	89.5
12	89.1	89.8	90.8	95.2	93.8	91.0	84.6	84.2	85.3	80.0	75.8	76.8	76.1	76.5	77.4	78.3	77.0	76.0	75.0	72.2	67.7	62.8	61.4	64.1	95.2	61.4	79.2
13	77.0	83.7	86.6	85.4	80.5	73.8	78.9	82.8	78.0	73.2	71.4	76.5	69.1	60.4	84.5	85.2	87.3	85.4	87.7	87.1	83.5	79.7	80.8	82.2	87.7	60.4	80.0
14	84.3	81.2	77.8	73.2	72.6	70.9	69.6	70.0	71.0	76.6	74.9	74.1	70.0	71.0	67.8	67.1	66.1	63.4	63.4	64.2	61.5	60.7	59.2	58.1	84.3	58.1	69.5
15	54.0	47.1	47.5	37.4	35.5	35.6	35.8	33.9	29.2	28.9	30.6	46.4	69.4	50.2	59.2	61.0	65.8	70.4	87.5	93.5	91.7	93.7	94.6	98.0	98.0	28.9	58.2
16	99.2	99.7	99.6	99.9	99.9	100.0	99.9	99.8	99.8	100.0	99.8	99.5	99.6	98.1	97.9	94.2	86.6	87.9	89.3	91.3	94.5	95.2	91.0	88.2	100.0	86.6	96.3
17	86.7	80.5	75.8	73.2	71.5	68.0	64.5	78.4	85.0	83.4	81.4	82.3	79.7	79.9	81.2	84.8	86.9	88.5	87.6	88.7	89.2	88.7	83.4	84.3	89.2	64.5	81.4
18	84.8	89.2	92.3	90.3	88.8	89.6	85.0	89.4	82.2	82.2	84.9	90.2	93.6	95.6	91.0	91.7	91.2	92.9	96.1	97.2	98.2	98.7	99.4	99.5	99.5	82.2	91.4
19	99.3	96.6	72.9	77.5	77.7	78.0	79.1	76.3	74.7	73.4	69.8	66.0	62.0	59.5	61.9	67.1	70.0	72.1	71.6	71.2	70.7	70.8	69.3	68.9	99.3	59.5	73.2
20	68.5	70.7	72.7	72.4	71.5	71.5	71.7	70.5	70.7	67.6	63.7	62.6	62.7	66.2	73.8	74.7	78.9	81.2	77.4	71.7	76.2	77.3	78.1	83.6	83.6	62.6	72.3
21	71.9	64.2	60.4	69.7	68.6	65.3	61.5	57.4	53.6	47.7	44.4	46.7	53.1	57.3	59.1	63.2	62.6	61.6	65.5	67.2	66.3	64.9	64.0	65.1	71.9	44.4	60.9
22	66.6	66.7	64.9	63.4	65.2	67.6	69.6	68.4	66.5	63.9	60.5	56.4	54.5	54.1	54.2	54.7	54.4	55.2	60.4	65.1	69.0	69.0	67.8	70.1	70.1	54.1	62.8
23	70.7	77.5	81.2	83.3	87.4	92.3	95.0	96.4	96.0	83.7	71.1	67.0	64.1	62.6	62.4	60.2	58.8	58.5	57.4	68.4	61.1	50.0	47.1	57.9	96.4	47.1	71.3
24	63.5	63.6	67.0	64.4	62.3	70.4	74.2	75.4	75.3	75.3	75.8	67.4	61.6	59.0	58.3	54.4	52.5	56.0	63.6	69.5	75.2	73.6	73.2	72.8	75.8	52.5	66.8
25	69.7	68.4	68.1	62.9	64.8	70.1	83.4	89.8	92.3	94.6	95.5	96.2	96.1	94.2	86.0	71.3	58.0	45.4	53.2	53.3	52.0	51.0	54.3	64.8	96.2	45.4	72.3
26	73.9	70.3	60.6	53.1	54.1	58.7	61.0	59.1	57.9	58.8	55.2	57.2	57.3	56.4	55.5	57.0	59.3	61.1	65.1	68.5	77.6	88.6	93.5	93.4	93.5	53.1	64.7
27	92.2	93.0	94.9	95.0	93.9	93.1	93.4	94.2	94.0	88.5	73.9	67.8	68.0	77.0	66.1	64.5	66.0	67.5	62.7	58.3	58.6	57.4	64.1	65.0	95.0	57.4	77.0
28	54.1	53.0	50.4	49.8	47.5	47.9	47.9	50.7	55.3	48.3	41.1	37.8	34.5	34.4	36.2	42.6	42.6	40.6	37.6	36.2	34.4	32.3	33.7	35.9	55.3	32.3	42.7
Max.	**99.3**	**99.7**	**99.6**	**99.9**	**99.9**	**100.0**	**99.9**	**99.8**	**99.8**	**100.0**	**99.8**	**99.9**	**99.7**	**99.5**	**98.7**	**98.8**	**96.6**	**98.5**	**99.3**	**99.6**	**99.8**	**99.8**	**99.6**	**99.5**	**100.0**		
Min.	**34.6**	**35.8**	**36.3**	**37.0**	**35.5**	**33.6**	**33.0**	**33.3**	**29.2**	**28.9**	**30.6**	**31.7**	**34.5**	**34.4**	**36.2**	**41.0**	38.5	40.6	**37.6**	**36.2**	**34.4**	**32.3**	**33.7**	**35.3**		**28.9**	
Avg.	**76.8**	**76.5**	**75.6**	**75.5**	**75.7**	**75.2**	**75.5**	**75.9**	**75.0**	**72.5**	**71.1**	**72.0**	**72.3**	**71.3**	**71.8**	**71.3**	**70.7**	**71.4**	**73.8**	**75.4**	**75.5**	**75.2**	**73.8**	**75.1**			**74.0**

Total Hours in Month 672 **Hours Data Available** 672 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	37.8	40.1	48.9	64.0	66.2	66.4	65.8	64.0	52.4	57.4	58.4	60.2	60.6	58.5	53.9	55.7	56.5	54.1	58.3	57.4	59.3	55.9	51.9	50.4	66.4	37.8	56.4
2	54.1	52.1	48.5	48.4	54.7	64.5	71.2	79.8	88.4	93.1	92.2	92.8	93.3	92.8	92.9	84.0	78.3	79.0	78.2	79.0	78.3	79.0	81.1	82.4	93.3	48.4	76.6
3	85.5	85.0	86.6	82.9	83.2	87.8	89.4	81.3	79.5	79.8	82.3	84.3	85.7	87.8	89.3	87.2	92.9	90.8	91.9	92.8	91.9	92.8	96.2	97.1	97.1	79.5	87.7
4	95.7	94.8	96.0	94.3	95.5	94.5	91.8	89.5	89.7	93.0	91.0	89.7	82.8	79.9	83.0	83.5	82.3	88.0	91.9	93.4	93.0	92.2	94.0	95.9	96.0	79.9	90.6
5	95.5	97.6	97.5	96.7	96.9	95.4	93.0	94.9	97.4	97.8	94.7	83.7	79.1	76.3	80.9	78.4	76.5	74.4	77.0	75.2	76.2	78.5	77.0	74.5	97.8	74.4	86.0
6	76.6	80.7	76.9	77.0	77.6	77.9	78.3	77.5	70.9	69.7	64.9	60.4	59.8	55.7	56.6	55.3	56.3	60.3	65.9	75.7	80.9	82.4	81.8	80.8	82.4	55.3	70.8
7	80.4	79.8	82.4	81.8	81.6	77.7	77.6	72.8	65.4	62.2	59.6	54.9	52.2	52.2	52.2	51.9	58.0	62.1	60.7	60.6	61.0	58.1	57.2	57.0	82.4	51.9	65.0
8	56.2	57.4	55.9	55.1	57.6	59.2	61.0	60.9	54.5	52.2	49.6	49.8	48.4	47.3	51.3	53.4	57.3	57.7	54.9	53.1	50.7	48.0	42.0	40.5	61.0	40.5	53.1
9	47.0	42.5	44.1	41.7	46.5	51.3	46.1	40.9	40.5	42.8	43.1	41.2	38.6	36.4	37.8	32.9	31.7	30.8	28.2	28.4	27.5	26.1	27.4	30.1	51.3	26.1	37.6
10	52.9	58.9	59.0	61.6	60.0	62.2	63.8	65.7	64.1	65.5	65.8	61.7	53.5	54.9	54.2	52.2	54.7	49.9	37.4	37.0	42.2	33.8	32.7	27.4	65.8	27.4	53.0
11	28.3	25.7	23.6	25.2	27.6	36.2	42.1	41.9	44.9	34.5	35.0	39.3	38.7	31.2	28.5	31.6	37.5	40.7	49.5	54.5	54.1	58.0	54.3	51.6	58.0	23.6	38.9
12	42.9	44.8	43.6	41.1	42.7	40.7	48.5	46.6	44.4	44.9	46.0	49.2	46.7	43.7	48.8	47.8	48.8	49.1	45.3	49.1	50.4	52.4	55.5	52.6	55.5	40.7	46.9
13	46.8	42.6	46.3	55.5	58.1	60.4	68.7	72.2	60.0	67.5	63.6	52.2	53.6	54.1	53.9	53.8	57.0	57.7	59.4	61.0	66.0	69.2	76.4	79.9	79.9	42.6	59.8
14	81.8	78.6	77.4	79.1	79.4	82.1	84.9	85.9	83.3	82.8	81.0	76.3	73.5	70.5	68.0	66.3	63.7	68.0	68.4	70.4	73.5	78.5	80.8	82.0	85.9	63.7	76.5
15	82.0	82.1	82.0	80.6	80.0	80.4	82.0	82.3	79.2	75.4	71.4	68.1	66.7	66.0	63.8	62.0	59.6	58.9	59.5	60.5	57.1	50.5	38.3	32.8	82.3	32.8	67.5
16	31.1	29.0	27.4	29.3	39.5	27.4	26.7	28.2	32.6	34.3	33.1	31.1	31.8	30.7	27.9	26.7	28.0	26.6	29.7	37.1	33.3	29.9	25.2	25.4	39.5	25.2	30.1
17	25.1	30.2	42.4	51.6	52.5	37.8	43.8	33.2	32.1	40.5	33.7	37.9	44.9	61.2	69.1	71.8	71.6	72.2	73.6	76.9	82.8	78.2	74.9	77.3	82.8	25.1	54.8
18	76.8	74.9	74.5	80.0	88.5	90.1	91.2	90.5	90.4	90.0	89.5	84.1	77.8	83.7	78.8	76.2	81.3	89.4	90.3	93.4	93.4	93.9	94.0	96.4	96.4	74.5	86.2
19	96.9	96.1	96.1	94.6	94.1	95.1	95.9	95.3	91.4	88.6	88.6	81.1	84.3	90.3	88.0	92.7	94.9	91.3	89.4	92.7	93.2	95.6	95.9	95.7	96.9	81.1	92.4
20	93.3	92.1	92.8	93.2	94.1	94.2	92.7	90.8	92.9	86.5	93.3	91.4	89.5	92.4	92.7	90.3	72.6	67.9	65.5	63.7	67.0	67.7	69.2	72.4	94.2	63.7	84.1
21	72.4	73.1	80.0	86.6	82.2	80.0	81.1	88.3	94.8	92.6	87.4	82.8	80.6	76.9	74.1	69.9	70.2	72.5	72.7	74.7	76.3	78.3	77.0	76.9	94.8	69.9	79.2
22	76.2	76.0	76.8	77.0	78.2	76.2	76.4	77.5	66.9	68.2	70.5	62.2	63.2	63.5	62.9	62.6	58.1	62.1	65.7	68.0	71.6	72.0	73.2	74.4	78.2	58.1	70.0
23	75.6	78.3	78.0	82.1	81.4	79.9	79.3	76.3	77.5	73.6	75.0	71.5	68.1	66.7	61.4	61.4	59.6	53.8	53.9	57.6	69.6	69.2	65.8	70.1	82.1	53.8	70.2
24	72.8	74.2	75.8	77.2	78.0	78.5	79.8	77.7	75.0	76.3	70.4	65.1	62.0	59.2	60.9	61.1	57.0	61.8	66.7	69.9	72.6	72.7	73.5	73.9	79.8	57.0	70.5
25	73.9	73.9	78.6	85.2	90.4	94.2	95.3	93.5	91.9	86.7	83.1	81.4	78.4	73.6	71.3	69.1	68.8	70.8	70.9	73.0	74.6	74.1	73.2	73.3	95.3	68.8	79.1
26	73.3	73.2	73.1	73.6	74.0	74.7	76.3	78.1	78.7	77.9	74.2	69.8	66.6	64.3	62.6	64.4	63.7	69.4	69.7	73.2	75.4	77.9	79.0	82.0	82.0	62.6	72.7
27	82.0	81.0	82.2	80.0	78.7	81.2	84.0	78.8	74.3	79.6	73.5	72.3	69.7	73.6	76.6	75.3	69.2	68.9	70.5	68.2	73.6	82.7	87.3	85.5	87.3	68.2	77.0
28	87.4	85.0	83.1	79.4	81.8	74.5	75.1	70.8	76.6	83.7	74.3	78.1	74.3	77.8	72.8	66.3	66.7	69.9	69.7	79.9	81.3	86.7	88.8	91.6	91.6	66.3	78.1
29	86.2	80.0	84.6	85.5	86.5	88.1	88.4	87.6	84.2	82.5	76.9	69.8	67.8	66.5	71.7	72.7	72.3	73.4	75.0	74.8	82.7	81.9	83.5	80.0	88.4	66.5	79.3
30	82.6	79.1	70.2	60.9	61.1	62.0	75.5	81.4	85.8	83.8	87.3	83.2	89.2	86.7	87.8	89.7	90.4	91.2	92.4	92.1	93.5	95.1	94.6	94.8	95.1	60.9	83.8
31	95.2	94.6	94.2	93.9	93.9	94.3	93.7	91.1	91.1	90.7	92.4	93.6	91.8	91.9	91.3	90.9	90.9	93.2	93.4	99.0	99.1	99.4	99.5	99.6	99.6	90.7	94.1
Max.	**96.9**	**97.6**	**97.5**	**96.7**	**96.9**	**95.4**	**95.9**	**95.3**	**97.4**	**97.8**	**94.7**	**93.6**	**93.3**	**92.8**	**92.9**	**92.7**	**94.9**	**93.2**	**93.4**	**99.0**	**99.1**	**99.4**	**99.5**	**99.6**	**99.6**		
Min.	**25.1**	**25.7**	**23.6**	**25.2**	**27.6**	**27.4**	**26.7**	**28.2**	**32.1**	**34.3**	**33.1**	**31.1**	**31.8**	**30.7**	**27.9**	**26.7**	28.0	26.6	**28.2**	**28.4**	**27.5**	**26.1**	**25.2**	**25.4**		**23.6**	
Avg.	**69.8**	**69.5**	**70.3**	**71.5**	**73.0**	**73.1**	**74.8**	**74.0**	**72.6**	**72.7**	**71.0**	**68.4**	**66.9**	**66.7**	**66.6**	**65.7**	**65.4**	**66.3**	**66.9**	**69.1**	**71.0**	**71.3**	**71.0**	**71.1**			**69.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	99.6	99.6	99.7	99.3	96.9	95.5	94.2	91.0	86.2	81.8	78.5	76.6	66.2	66.2	57.3	59.9	62.1	64.0	65.7	66.5	71.0	69.3	68.5	66.6	99.7	57.3	78.4
2	66.9	66.9	69.1	71.7	71.1	71.6	74.4	74.9	75.2	70.8	62.7	62.5	61.0	60.2	59.8	61.5	62.9	64.8	65.0	63.9	59.3	75.2	73.0	75.9	75.9	59.3	67.5
3	90.1	95.6	94.3	88.4	87.0	90.8	90.7	90.9	92.9	88.9	86.2	90.6	92.9	93.8	91.3	87.9	89.9	92.1	92.3	91.8	92.9	91.1	88.6	90.8	95.6	86.2	90.9
4	87.5	87.5	88.5	95.0	96.7	97.0	95.4	91.5	90.0	91.3	83.3	83.7	91.1	93.4	92.8	94.2	94.9	97.3	96.9	96.0	96.0	96.2	96.6	96.9	97.3	83.3	92.9
5	97.4	85.0	75.4	69.8	80.9	83.5	67.5	69.7	60.4	57.9	59.9	60.1	58.7	56.7	54.9	51.4	49.1	49.9	47.5	43.7	39.3	37.9	38.1	38.6	97.4	37.9	59.7
6	38.1	39.8	41.4	54.4	59.2	63.3	66.2	64.7	64.9	61.5	55.2	56.0	56.2	55.1	57.4	55.7	58.1	57.7	65.0	61.6	71.6	75.4	75.9	76.3	76.3	38.1	59.6
7	76.3	75.9	77.7	78.3	76.3	69.9	74.0	75.8	75.2	78.5	79.4	71.9	74.7	76.6	82.0	80.7	76.1	78.4	82.2	74.7	78.8	81.2	78.3	80.2	82.2	69.9	77.2
8	77.6	76.6	77.8	76.1	75.7	79.0	87.4	90.0	87.9	89.6	87.7	89.1	91.1	88.9	87.3	88.9	88.4	92.1	94.6	93.8	96.5	97.6	97.8	97.8	97.8	75.7	87.9
9	97.8	97.9	98.0	98.2	98.3	98.5	98.6	98.6	98.3	97.2	94.4	90.7	89.5	91.4	93.4	95.5	95.8	95.6	95.9	93.6	93.9	81.1	65.2	59.0	98.6	59.0	92.3
10	62.5	68.4	69.4	71.0	69.4	73.6	75.6	75.2	74.7	74.4	76.4	75.9	77.6	74.4	71.5	55.2	51.4	49.4	51.1	54.9	54.7	56.1	56.6	57.4	77.6	49.4	65.7
11	60.4	60.2	61.2	58.2	44.3	41.9	62.8	63.1	62.4	57.9	57.1	54.5	40.9	39.2	76.3	86.3	83.2	83.7	87.7	88.2	84.6	89.2	88.5	86.7	89.2	39.2	67.4
12	86.8	86.4	85.6	86.1	88.4	88.9	89.6	85.6	82.9	85.8	82.0	82.6	87.1	93.3	95.4	96.8	98.4	99.0	99.5	98.7	96.5	88.7	74.4	74.0	99.5	74.0	88.9
13	72.2	71.0	73.1	71.0	70.7	67.6	65.5	65.7	67.8	64.4	60.6	59.4	62.6	62.4	59.9	60.1	60.8	61.7	61.1	58.0	57.1	56.7	53.4	50.6	73.1	50.6	63.1
14	49.0	49.1	49.8	50.1	50.0	51.4	51.1	49.9	49.8	49.7	48.2	47.9	48.0	46.9	45.8	44.9	43.7	43.7	45.6	43.2	41.4	41.7	38.8	36.5	51.4	36.5	46.5
15	36.9	38.3	36.0	36.7	38.3	36.2	32.1	32.1	36.2	35.5	34.4	36.6	37.9	35.7	37.5	36.4	35.8	36.8	36.7	37.7	39.5	52.5	52.3	56.4	56.4	32.1	38.5
16	60.1	58.5	63.3	72.1	54.7	44.2	44.1	37.8	41.7	45.3	48.6	50.3	55.7	56.4	58.1	61.7	84.2	88.0	82.8	83.8	80.9	74.2	87.1	90.4	90.4	37.8	63.5
17	93.1	91.0	92.9	90.6	94.6	93.8	89.8	95.5	97.2	91.2	87.3	87.7	73.4	79.9	81.6	81.6	79.8	75.3	67.6	71.2	79.2	82.3	86.4	84.7	97.2	67.6	85.3
18	88.6	93.0	95.3	96.0	95.6	95.2	84.8	75.6	69.1	66.4	63.3	71.8	76.8	80.3	80.6	78.8	81.5	84.6	85.5	57.5	52.0	53.7	56.6	58.8	96.0	52.0	76.7
19	59.1	65.6	69.3	68.8	70.1	70.1	69.0	63.9	64.4	62.1	60.0	61.3	63.7	64.4	60.1	61.3	62.4	67.2	70.2	73.6	76.5	80.9	86.0	85.4	86.0	59.1	68.1
20	86.3	88.4	87.3	84.1	84.4	84.6	81.5	82.0	82.1	83.8	85.5	76.3	71.4	71.6	71.5	83.3	85.4	81.4	85.3	93.4	93.5	92.5	91.6	93.6	93.6	71.4	84.2
21	94.2	94.1	93.6	94.3	94.2	92.0	90.7	92.7	93.0	92.2	88.2	90.5	90.5	89.5	81.9	73.0	75.6	84.3	91.7	94.6	91.0	87.1	86.6	84.3	94.6	73.0	89.2
22	82.3	83.0	89.7	87.4	90.3	93.6	94.7	92.1	93.6	89.9	95.3	92.5	88.1	85.0	83.1	82.3	84.3	87.6	85.9	87.4	90.2	86.8	87.1	91.1	95.3	82.3	88.5
23	95.2	96.9	96.8	95.4	95.4	96.6	97.0	98.3	98.7	97.5	90.1	81.3	86.0	72.5	73.1	82.1	81.8	70.7	64.6	55.0	54.9	53.5	53.1	52.3	98.7	52.3	80.8
24	55.1	63.3	81.7	81.5	74.4	79.4	75.5	81.5	81.3	61.8	58.4	63.9	70.0	69.6	69.8	70.4	70.8	71.7	72.7	74.3	72.9	70.3	68.2	69.0	81.7	55.1	71.1
25	68.4	67.8	70.2	75.0	75.3	74.8	72.3	74.0	74.3	73.9	67.2	67.6	71.0	88.9	90.9	88.2	88.0	86.6	89.3	83.4	83.2	87.5	86.1	84.6	90.9	67.2	78.7
26	86.6	83.1	72.7	71.9	72.3	76.2	72.6	66.4	60.6	59.1	56.9	54.9	53.2	52.1	50.2	46.4	44.5	44.9	42.7	40.5	42.3	44.8	56.7	51.1	86.6	40.5	58.4
27	44.2	45.0	44.6	41.7	41.7	40.1	39.7	38.7	36.9	35.4	34.5	41.4	40.5	44.5	50.4	34.0	34.4	36.4	45.0	45.1	46.0	50.1	49.3	51.5	51.5	34.0	42.1
28	51.9	46.6	47.0	52.9	56.8	57.3	60.1	60.6	70.2	88.3	98.2	94.8	90.3	87.9	78.9	81.7	82.6	83.6	76.6	72.6	70.9	80.4	83.7	85.4	98.2	46.6	73.3
29	86.0	83.1	64.9	63.6	64.8	64.6	59.5	63.5	63.5	58.4	55.9	57.8	56.6	60.2	54.5	51.6	51.1	52.0	52.2	49.9	49.3	52.7	65.0	69.6	86.0	49.3	60.4
30	75.0	77.5	74.9	74.4	76.2	78.2	79.5	75.0	69.0	70.2	67.4	65.5	65.7	67.5	69.6	74.9	82.6	68.5	59.7	58.7	72.1	79.6	77.3	80.4	82.6	58.7	72.5
Max.	**99.6**	**99.6**	**99.7**	**99.3**	**98.3**	**98.5**	**98.6**	**98.6**	**98.7**	**97.5**	**98.2**	**94.8**	**92.9**	**93.8**	**95.4**	**96.8**	**98.4**	**99.0**	**99.5**	**98.7**	**96.5**	**97.6**	**97.8**	**97.8**	**99.7**		
Min.	**36.9**	**38.3**	**36.0**	**36.7**	**38.3**	**36.2**	**32.1**	**32.1**	**36.2**	**35.4**	**34.4**	**36.6**	**37.9**	**35.7**	**37.5**	**34.0**	34.4	36.4	**36.7**	**37.7**	**39.3**	**37.9**	**38.1**	**36.5**		**32.1**	
Avg.	**74.2**	**74.5**	**74.7**	**75.1**	**74.8**	**75.0**	**74.5**	**73.9**	**73.3**	**72.0**	**70.1**	**69.8**	**69.6**	**70.1**	**70.6**	**70.2**	**71.3**	**71.6**	**72.0**	**70.2**	**70.9**	**72.2**	**72.2**	**72.5**			**72.3**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	75.2	69.9	70.4	67.4	63.9	63.9	70.5	69.5	63.9	58.6	56.8	52.3	48.0	46.7	45.9	45.6	47.4	47.5	47.8	53.8	57.5	65.5	66.3	70.3	75.2	45.6	59.4
2	78.8	85.5	84.9	84.8	85.7	83.9	83.5	85.2	86.3	85.1	83.6	85.9	86.6	83.0	75.8	69.3	67.1	65.9	64.6	67.1	66.5	75.5	88.3	84.3	88.3	64.6	79.5
3	76.8	74.8	74.6	75.5	70.4	69.7	72.4	66.2	59.3	54.4	51.1	48.5	47.0	47.2	45.5	44.4	50.1	60.4	63.8	74.6	79.2	79.9	81.7	84.4	84.4	44.4	64.7
4	86.8	88.6	85.5	85.9	87.3	86.7	88.3	85.1	80.1	78.4	77.0	74.7	77.6	83.0	86.3	81.1	80.8	81.1	81.7	84.3	82.9	78.9	85.0	85.1	88.6	74.7	83.0
5	88.2	90.5	90.2	89.5	91.3	92.0	90.7	89.5	88.0	87.4	88.0	88.2	86.7	86.9	91.4	89.8	88.5	88.5	90.2	92.8	94.3	94.0	91.9	92.7	94.3	86.7	90.1
6	95.1	95.6	96.0	96.3	96.4	96.7	97.6	97.0	97.2	96.9	96.5	95.9	92.9	86.8	78.5	65.5	64.0	64.5	66.3	67.2	68.3	65.9	65.6	67.5	97.6	64.0	83.8
7	67.4	68.5	68.1	68.3	68.7	69.8	70.3	68.8	69.0	68.5	66.1	63.7	62.2	60.9	62.9	63.8	64.4	62.5	61.5	62.2	58.7	55.4	53.6	51.4	70.3	51.4	64.0
8	50.1	49.0	50.8	64.8	70.2	66.2	67.6	63.6	59.9	66.7	81.8	85.4	86.9	81.6	75.6	72.4	72.2	72.8	70.8	73.0	70.8	65.3	69.8	74.5	86.9	49.0	69.2
9	78.1	69.9	68.4	68.9	68.7	69.2	70.7	71.6	74.2	82.1	83.3	75.3	67.4	67.2	64.2	58.6	60.1	61.6	60.9	59.0	62.0	64.0	60.5	64.7	83.3	58.6	67.9
10	67.6	62.9	66.5	74.9	70.7	67.9	59.8	54.1	52.0	59.1	67.6	60.6	62.2	57.1	53.2	56.2	66.0	74.5	79.4	84.2	91.4	94.8	93.9	93.9	94.8	52.0	69.6
11	93.8	95.0	95.6	96.1	96.2	96.6	96.7	96.2	95.4	92.1	86.1	81.6	79.1	75.1	69.7	69.2	67.9	70.0	69.0	69.6	70.8	75.6	77.9	77.5	96.7	67.9	83.0
12	79.9	75.6	74.1	75.0	78.0	75.4	71.9	69.7	69.1	64.8	62.8	57.0	58.1	40.3	36.2	37.6	37.6	41.2	44.8	44.5	47.1	57.2	53.1	57.9	79.9	36.2	58.7
13	52.5	54.3	58.1	61.7	63.1	61.0	59.8	62.3	61.6	60.4	55.9	54.4	56.2	56.8	53.8	53.6	58.2	54.9	55.1	58.0	60.9	63.8	66.7	76.5	76.5	52.5	59.2
14	88.3	92.2	91.0	91.1	91.6	88.6	85.4	77.6	77.6	80.8	81.5	81.1	82.4	81.1	81.0	80.5	74.6	75.3	73.7	74.2	77.3	78.3	79.4	78.6	92.2	73.7	81.8
15	77.1	78.9	81.8	85.6	88.4	90.9	90.0	86.7	79.6	75.8	74.7	72.6	79.9	79.5	78.7	79.0	79.3	77.0	77.3	79.1	80.6	78.4	78.7	75.0	90.9	72.6	80.2
16	78.9	66.1	52.5	53.1	53.8	55.6	57.0	64.6	62.4	64.0	60.5	58.1	66.9	66.5	71.0	72.2	71.4	72.4	74.5	71.8	69.3	68.3	72.8	77.7	78.9	52.5	65.9
17	77.9	84.1	83.0	85.5	81.4	83.3	77.4	74.7	68.7	63.1	62.1	68.2	67.1	70.9	70.0	69.2	73.1	69.4	59.4	69.3	72.3	78.9	82.7	80.5	85.5	59.4	73.8
18	76.3	79.9	83.6	85.3	84.4	83.4	84.2	82.0	76.1	60.9	56.9	52.8	52.0	54.3	59.8	67.3	67.6	59.6	62.1	62.6	61.4	57.2	51.9	59.8	85.3	51.9	67.6
19	64.3	65.5	67.3	67.4	67.2	68.1	71.0	69.2	69.3	67.2	69.2	68.2	62.6	57.5	57.7	61.9	72.6	87.2	89.8	88.2	89.1	91.0	92.7	93.3	93.3	57.5	73.2
20	93.6	91.9	92.8	93.0	91.2	91.1	90.1	88.9	88.6	88.2	85.4	82.7	87.0	87.8	81.2	77.9	71.8	65.6	75.4	74.7	74.1	69.7	72.9	82.6	93.6	65.6	83.3
21	79.5	84.7	81.5	80.5	87.5	89.4	86.0	82.2	64.5	59.8	56.9	53.7	50.7	47.1	45.4	46.0	44.4	45.8	44.4	45.0	45.3	45.6	47.0	48.2	89.4	44.4	60.9
22	49.4	59.6	67.2	71.5	71.4	69.3	70.5	67.9	64.3	62.0	60.7	55.5	52.5	40.0	38.8	37.7	37.9	38.4	39.2	39.5	48.0	55.3	61.7	64.0	71.5	37.7	55.1
23	64.2	63.3	68.6	70.7	72.5	73.5	80.5	70.4	64.2	73.6	71.3	68.5	70.0	60.7	56.9	61.6	58.6	61.3	69.4	63.6	59.4	49.0	48.0	48.5	80.5	48.0	64.5
24	48.0	49.5	48.1	52.2	66.3	49.8	58.5	61.5	67.4	69.5	68.7	76.3	73.9	63.4	59.3	58.3	53.7	49.6	44.0	47.7	54.5	44.0	51.7	51.7	76.3	44.0	57.0
25	55.7	53.9	58.9	69.7	73.4	61.3	62.8	70.8	60.3	62.9	69.9	71.5	70.1	65.5	57.6	58.3	57.2	57.8	58.2	54.2	55.1	52.4	56.1	55.4	73.4	52.4	61.2
26	53.9	55.6	53.5	49.0	47.1	48.2	50.0	51.9	51.7	58.1	68.0	59.1	58.5	62.2	61.4	58.0	68.0	64.1	65.9	57.2	52.0	44.0	48.6	47.7	68.0	44.0	55.6
27	49.0	46.3	61.6	73.4	53.6	44.9	43.8	46.0	45.9	45.9	47.1	68.7	66.2	69.2	59.1	59.0	50.9	58.0	63.3	59.1	54.3	49.9	47.0	54.3	73.4	43.8	54.8
28	64.9	70.9	61.3	56.4	63.6	59.2	59.6	59.1	55.7	59.1	49.3	47.0	47.0	47.5	40.4	42.1	44.1	66.8	55.8	44.3	38.3	39.4	40.7	48.4	70.9	38.3	52.5
29	48.4	60.0	67.0	50.2	45.4	61.3	76.0	69.0	58.7	62.5	61.2	62.4	56.2	51.7	59.8	62.2	63.4	66.4	74.6	75.2	81.5	77.8	85.0	89.1	89.1	45.4	65.2
30	89.5	90.6	93.1	95.3	94.6	91.6	90.9	93.4	94.6	95.2	96.6	95.2	95.1	92.7	86.8	83.8	81.5	80.9	82.5	78.8	82.9	83.1	83.6	87.2	96.6	78.8	89.1
31	89.1	89.7	90.8	91.9	92.8	93.6	94.9	94.4	90.9	92.5	95.3	93.2	95.4	92.6	92.9	94.9	94.8	95.7	96.6	96.4	96.4	96.2	96.1	96.4	96.6	89.1	93.9
Max.	**95.1**	**95.6**	**96.0**	**96.3**	**96.4**	**96.7**	**97.6**	**97.0**	**97.2**	**96.9**	**96.6**	**95.9**	**95.4**	**92.7**	**92.9**	**94.9**	**94.8**	**95.7**	**96.6**	**96.4**	**96.4**	**96.2**	**96.1**	**96.4**	**97.6**		
Min.	**48.0**	**46.3**	**48.1**	**49.0**	**45.4**	**44.9**	**43.8**	**46.0**	**45.9**	**45.9**	**47.1**	**47.0**	**47.0**	**40.0**	**36.2**	**37.6**	37.6	38.4	**39.2**	**39.5**	**38.3**	**39.4**	**40.7**	**47.7**		**36.2**	
Avg.	**72.2**	**73.0**	**73.8**	**75.2**	**75.4**	**74.3**	**75.1**	**73.8**	**70.9**	**70.8**	**70.7**	**69.6**	**69.2**	**66.5**	**64.4**	**63.8**	**64.2**	**65.7**	**66.5**	**66.8**	**67.8**	**67.6**	**69.4**	**71.6**			**69.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	96.6	96.7	95.1	80.1	82.0	86.2	84.6	81.5	87.1	86.3	82.7	80.5	74.4	79.3	84.3	81.0	75.8	77.0	83.9	84.3	88.2	89.6	86.0	83.9	96.7	74.4	84.5
2	82.4	82.6	82.4	82.9	81.8	81.4	79.8	77.2	70.0	66.1	63.9	58.8	55.5	45.8	35.5	36.0	36.3	40.3	45.5	46.6	46.6	47.2	52.8	62.3	82.9	35.5	60.8
3	63.2	63.6	61.8	57.1	56.3	57.9	57.0	57.5	56.1	54.4	51.0	48.1	44.6	40.4	37.8	34.0	32.9	35.3	38.7	38.7	33.9	32.2	29.6	28.1	63.6	28.1	46.3
4	29.8	29.8	32.9	44.6	55.6	54.0	50.0	48.8	44.3	42.6	47.2	55.8	51.9	48.0	49.6	51.6	51.9	53.6	40.8	36.6	33.3	33.0	45.5	59.7	59.7	29.8	45.5
5	64.4	63.8	59.2	61.7	61.6	67.0	71.0	64.6	60.8	56.5	60.2	61.4	60.3	54.3	54.6	57.2	54.6	55.8	59.8	52.2	59.8	61.8	67.9	64.1	71.0	52.2	60.6
6	71.7	70.6	65.7	67.2	70.0	72.5	71.7	68.8	66.4	78.4	81.5	78.6	75.9	74.3	72.9	73.6	76.5	78.4	80.0	75.3	76.1	78.1	77.0	79.8	81.5	65.7	74.2
7	76.2	73.2	72.2	72.4	73.8	76.9	69.4	64.6	76.5	81.2	74.6	78.2	76.7	81.1	86.0	90.8	91.7	90.0	88.1	88.7	91.6	90.0	89.3	90.0	91.7	64.6	81.0
8	89.2	88.4	88.9	86.4	87.1	87.4	86.6	87.9	86.6	87.5	89.7	83.1	78.4	74.8	75.1	71.4	76.7	78.7	82.5	85.2	84.0	87.5	90.4	89.7	90.4	71.4	84.3
9	89.4	88.1	89.5	90.6	92.0	91.8	91.5	90.7	91.5	90.6	88.2	84.2	81.7	81.5	84.1	78.1	72.1	83.1	93.0	91.7	93.0	94.2	94.7	95.1	95.1	72.1	88.4
10	92.6	93.7	94.5	94.8	93.6	90.5	90.4	92.5	92.3	92.2	87.5	78.2	77.1	79.4	72.2	74.6	74.5	76.3	78.5	77.8	79.1	79.6	77.5	77.8	94.8	72.2	84.1
11	76.6	81.7	87.6	88.7	90.4	88.0	84.9	83.7	80.8	84.4	85.5	86.5	80.7	79.2	84.3	84.9	86.5	80.8	81.8	82.5	82.5	86.9	86.7	88.1	90.4	76.6	84.3
12	88.8	90.1	91.7	92.4	92.4	91.1	90.3	92.4	94.2	91.0	92.6	96.0	96.8	98.4	97.2	96.3	97.1	97.1	97.0	97.8	97.8	96.0	95.8	96.2	98.4	88.8	94.4
13	96.5	96.6	96.6	96.2	96.4	97.0	98.6	98.9	98.8	98.1	97.1	95.3	92.1	87.7	83.7	79.0	89.9	92.5	93.0	92.7	92.7	95.2	97.0	96.8	98.9	79.0	94.1
14	96.7	96.6	96.7	97.0	96.8	95.0	96.1	95.8	95.1	92.6	95.3	96.3	96.8	97.3	97.2	95.8	92.0	89.4	90.0	87.1	84.0	84.1	82.9	79.9	97.3	79.9	92.8
15	81.0	83.9	85.3	85.3	86.2	85.1	85.2	90.3	91.4	91.1	90.5	88.9	89.4	92.5	96.2	96.1	95.1	94.8	94.3	94.7	96.5	97.3	96.8	97.0	97.3	81.0	91.0
16	96.9	97.0	97.2	97.4	97.5	97.4	96.5	96.7	98.1	98.6	98.2	98.1	97.8	95.4	91.3	90.1	94.7	93.9	92.3	89.8	92.5	91.6	91.9	92.6	98.6	89.8	95.1
17	94.7	95.5	95.7	96.2	96.7	97.1	97.2	96.3	96.2	94.6	90.9	85.1	87.7	92.5	91.2	90.6	88.5	86.8	90.9	88.4	91.3	96.0	97.4	97.5	97.5	85.1	93.1
18	97.7	97.7	97.8	97.8	95.8	90.2	91.4	86.3	82.5	83.5	87.7	88.7	87.3	86.1	87.4	87.3	85.5	88.7	88.2	88.8	84.4	86.7	89.4	88.1	97.8	82.5	89.4
19	85.6	86.3	84.4	80.8	77.0	77.1	77.7	78.3	71.2	67.4	62.7	60.1	59.4	60.0	56.1	55.0	67.5	75.8	89.7	91.5	91.1	94.2	95.2	95.0	95.2	55.0	76.6
20	92.7	78.7	87.2	89.4	88.1	88.4	93.4	87.9	84.5	83.9	82.1	82.7	91.5	92.4	92.2	81.7	73.1	71.3	75.5	76.7	75.4	78.3	77.6	83.0	93.4	71.3	83.7
21	87.2	90.2	90.1	90.8	87.0	84.6	81.1	76.6	70.8	68.5	80.1	74.7	72.3	74.8	58.6	67.7	67.6	63.1	76.6	73.4	69.3	78.4	82.6	84.2	90.8	58.6	77.1
22	84.9	86.2	86.0	83.6	88.9	94.5	89.3	86.8	88.4	87.3	90.2	90.0	94.3	92.7	88.2	93.2	92.1	90.3	85.2	84.8	81.8	81.0	77.5	88.7	94.5	77.5	87.7
23	93.5	93.9	93.1	92.7	92.2	90.7	91.4	90.4	93.6	93.7	94.1	91.8	90.5	89.7	87.2	86.9	85.8	82.5	86.7	82.2	84.9	82.5	86.2	91.5	94.1	82.2	89.5
24	93.3	94.1	95.1	96.1	96.1	92.8	87.0	78.9	75.5	79.2	81.0	79.7	72.7	59.6	60.5	56.6	50.6	50.5	59.6	71.3	72.5	70.5	70.2	75.2	96.1	50.5	75.8
25	79.0	76.0	73.7	78.5	83.0	82.4	81.2	77.8	81.5	77.1	76.7	82.4	77.2	75.3	76.7	74.8	75.4	74.9	81.3	82.2	78.0	82.3	80.9	82.6	83.0	73.7	78.8
26	83.1	88.4	86.2	87.5	87.1	88.5	86.5	87.3	85.1	91.0	89.5	90.5	89.2	89.4	85.5	86.0	87.7	88.6	88.0	84.3	82.2	84.5	88.6	87.9	91.0	82.2	87.2
27	89.5	93.2	94.2	95.3	95.7	91.4	85.5	86.5	86.5	85.3	85.9	84.7	82.1	83.5	80.4	75.1	71.2	79.4	84.5	84.2	63.0	43.8	45.4	47.1	95.7	43.8	79.7
28	48.7	50.9	51.7	52.9	55.0	58.8	58.3	54.2	54.3	54.9	52.1	54.4	55.0	52.2	51.9	56.3	55.6	54.9	57.3	59.1	61.5	65.2	64.3	63.5	65.2	48.7	55.9
29	62.8	64.3	65.0	64.6	64.5	64.6	63.4	69.5	67.5	72.0	77.9	79.9	79.6	87.5	91.5	82.4	79.3	80.7	81.2	82.2	82.9	83.3	84.1	83.3	91.5	62.8	75.6
30	83.7	87.3	89.1	90.8	93.1	94.8	95.2	94.2	91.9	90.9	87.9	90.2	89.7	87.7	89.7	90.1	90.7	93.9	94.9	90.4	72.1	69.6	67.5	68.6	95.2	67.5	87.3
Max.	**97.7**	**97.7**	**97.8**	**97.8**	**97.5**	**97.4**	**98.6**	**98.9**	**98.8**	**98.6**	**98.2**	**98.1**	**97.8**	**98.4**	**97.2**	**96.3**	**97.1**	**97.1**	**97.0**	**97.8**	**97.8**	**97.3**	**97.4**	**97.5**	**98.9**		
Min.	**29.8**	**29.8**	**32.9**	**44.6**	**55.0**	**54.0**	**50.0**	**48.8**	**44.3**	**42.6**	**47.2**	**48.1**	**44.6**	**40.4**	**35.5**	**34.0**	32.9	35.3	**38.7**	**36.6**	**33.3**	**32.2**	**29.6**	**28.1**		**28.1**	
Avg.	**82.3**	**82.6**	**82.9**	**83.1**	**83.8**	**83.8**	**82.7**	**81.4**	**80.7**	**80.7**	**80.8**	**80.1**	**78.6**	**77.8**	**76.6**	**75.8**	**75.6**	**76.6**	**79.3**	**78.7**	**77.4**	**78.0**	**79.0**	**80.6**			**80.0**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Relative Humidity (%)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	75.4	81.0	79.7	82.9	84.0	82.3	80.3	77.2	73.1	77.4	88.9	88.6	87.6	85.8	85.3	86.3	91.3	90.8	96.2	80.8	49.6	63.9	59.9	51.9	96.2	49.6	79.2
2	58.8	61.6	57.9	71.5	73.7	74.6	77.1	74.2	73.7	70.3	67.6	65.9	80.9	79.4	79.6	66.1	51.4	53.8	55.6	56.8	58.4	65.8	78.2	87.1	87.1	51.4	68.3
3	89.5	92.1	94.3	94.6	95.8	96.5	97.7	97.4	97.1	94.5	93.9	95.2	97.1	95.5	94.3	93.5	93.5	88.3	90.4	89.2	88.9	86.0	86.3	87.9	97.7	86.0	92.9
4	86.1	83.6	82.7	84.8	84.5	86.0	82.9	82.1	85.4	87.0	86.8	85.6	85.7	88.0	89.5	89.5	87.6	89.5	94.3	94.5	92.2	91.0	86.4	85.5	94.5	82.1	87.1
5	85.8	88.4	90.0	93.3	94.6	92.3	94.7	95.8	94.6	92.5	94.9	96.8	96.9	97.5	97.0	96.2	96.6	96.4	95.9	94.6	94.1	96.3	96.5	96.5	97.5	85.8	94.5
6	96.5	96.5	96.6	96.6	96.9	97.7	97.8	97.2	95.6	94.6	95.4	94.8	92.8	93.6	94.5	93.9	92.8	93.1	92.5	93.9	94.2	94.9	94.7	95.3	97.8	92.5	95.1
7	95.8	96.2	96.4	96.5	96.6	96.9	96.8	96.7	97.3	97.8	97.6	97.8	96.2	94.4	96.1	94.9	92.3	93.0	96.6	96.2	95.9	96.6	97.0	97.3	97.8	92.3	96.2
8	97.5	97.6	97.6	97.6	97.7	96.9	93.2	83.7	77.2	71.1	68.7	67.6	68.3	67.7	66.1	73.6	77.5	78.2	70.1	65.6	65.6	66.9	76.8	84.5	97.7	65.6	79.5
9	86.3	87.9	89.6	90.3	90.6	86.6	84.6	81.8	85.8	84.6	84.5	83.8	82.4	81.8	82.0	80.8	71.5	74.9	80.5	85.9	89.5	89.3	88.4	89.2	90.6	71.5	84.7
10	90.0	90.9	90.9	91.8	90.7	88.5	88.1	88.0	90.7	92.6	92.9	91.8	88.9	80.1	81.1	83.0	86.2	89.7	93.9	93.2	92.3	90.2	90.8	92.7	93.9	80.1	89.5
11	94.1	95.0	95.4	95.4	95.5	95.1	94.0	91.9	90.7	84.0	67.4	64.5	64.4	72.7	79.7	78.3	74.3	74.4	81.5	82.0	79.5	83.8	84.3	89.6	95.5	64.4	83.6
12	91.6	92.9	94.1	95.1	95.9	93.5	87.0	82.3	73.9	67.4	70.1	76.5	77.2	77.1	72.1	63.5	61.5	52.0	47.5	49.1	53.1	51.2	57.6	64.3	95.9	47.5	72.8
13	66.0	52.5	54.8	73.2	60.8	55.9	62.4	66.4	68.5	69.1	67.3	64.4	62.9	62.7	64.6	65.5	67.8	68.6	69.0	69.3	71.1	73.0	73.8	72.4	73.8	52.5	65.9
14	71.4	72.1	75.8	73.8	73.1	72.5	70.8	68.6	67.5	66.4	64.6	63.1	61.2	63.5	63.7	66.6	67.7	71.6	75.8	78.3	74.8	74.3	75.6	78.6	78.6	61.2	70.5
15	79.4	80.1	77.0	75.8	78.6	77.9	75.4	75.0	70.1	66.9	61.6	60.1	57.1	57.5	71.5	76.7	76.9	77.5	83.5	82.4	87.3	87.0	85.1	84.8	87.3	57.1	75.2
16	83.1	80.7	80.3	81.0	82.9	83.8	91.6	94.1	91.4	90.0	85.9	84.3	80.4	79.1	84.7	81.6	76.3	82.9	79.5	79.9	80.2	78.5	80.8	81.8	94.1	76.3	83.1
17	83.3	87.4	86.8	85.3	86.9	88.2	86.5	85.0	86.0	82.3	80.9	75.3	77.3	88.1	86.5	90.7	91.1	92.5	94.7	96.4	95.2	93.8	95.6	95.7	96.4	75.3	88.0
18	92.8	92.6	93.9	94.9	95.0	95.8	95.0	95.0	95.0	96.3	97.4	97.5	97.1	95.4	94.9	87.5	81.6	81.4	82.2	80.7	74.9	82.7	85.2	81.1	97.5	74.9	90.2
19	78.0	78.6	79.9	78.8	73.6	71.1	68.1	64.2	60.6	57.6	58.1	58.8	58.5	56.3	54.3	57.1	59.8	58.3	55.8	54.9	61.8	74.2	69.6	60.2	79.9	54.3	64.5
20	61.6	67.1	69.2	74.2	70.9	60.0	63.9	52.5	51.3	49.5	53.9	56.1	61.6	62.4	59.1	66.6	66.8	66.2	59.4	63.8	83.7	93.8	93.4	94.5	94.5	49.5	66.7
21	95.3	91.5	91.4	88.7	91.1	75.5	67.4	65.5	65.5	63.7	63.8	62.8	62.6	62.4	61.8	68.7	84.1	85.8	88.9	88.6	75.7	84.0	89.6	89.9	95.3	61.8	77.7
22	91.9	94.2	95.4	96.0	96.4	89.5	84.5	86.5	90.1	88.4	88.1	89.8	88.6	89.4	96.2	96.4	95.2	89.9	79.2	84.5	87.2	87.1	88.3	91.8	96.4	79.2	90.2
23	89.8	90.8	87.9	90.3	94.8	95.9	92.6	88.4	84.5	81.1	81.0	86.9	86.9	84.8	82.7	83.7	91.9	94.6	86.5	86.3	88.6	91.4	94.5	94.0	95.9	81.0	88.7
24	93.6	92.9	93.4	93.7	92.6	88.3	81.3	84.5	83.3	81.6	76.3	80.5	84.7	90.2	96.4	96.2	94.9	94.7	94.0	93.4	95.4	94.8	95.6	93.8	96.4	76.3	90.3
25	93.9	94.2	94.3	93.4	93.4	94.9	94.6	92.9	93.2	94.9	94.6	94.5	92.3	95.8	89.3	88.8	81.9	89.7	89.7	87.7	88.7	89.4	90.7	90.9	95.8	81.9	91.8
26	91.0	90.7	93.3	94.7	95.6	92.2	88.3	71.4	71.9	72.1	69.7	68.2	69.3	69.2	65.3	66.2	63.2	64.2	65.0	66.2	65.9	66.4	66.8	67.4	95.6	63.2	74.7
27	67.4	67.5	67.9	69.2	69.5	70.6	77.0	76.8	74.0	69.6	65.8	64.3	64.7	68.9	75.3	79.4	81.6	84.4	87.5	88.3	82.2	87.4	90.0	90.5	90.5	64.3	75.8
28	90.4	92.2	94.6	92.8	94.7	92.6	91.6	87.4	82.7	79.2	82.1	81.8	81.7	83.4	84.0	89.9	91.7	93.2	94.3	93.8	79.5	79.7	79.0	80.0	94.7	79.0	87.2
29	77.8	76.5	72.6	74.5	77.3	74.4	74.5	76.1	72.2	70.8	68.6	68.8	66.2	64.6	67.4	71.2	72.9	74.4	76.9	75.9	77.7	76.2	74.7	73.3	77.8	64.6	73.1
30	71.8	72.9	74.6	75.3	75.4	75.9	77.4	77.2	73.9	70.9	70.4	69.9	68.1	66.1	68.7	71.0	70.2	69.0	68.8	68.2	67.5	71.0	73.1	66.6	77.4	66.1	71.4
31	59.0	58.5	59.2	59.6	58.8	60.3	63.4	59.9	59.4	58.6	56.9	56.1	56.0	55.3	56.5	57.8	61.1	61.4	64.6	64.7	64.3	63.1	66.0	70.4	70.4	55.3	60.4
Max.	**97.5**	**97.6**	**97.6**	**97.6**	**97.7**	**97.7**	**97.8**	**97.4**	**97.3**	**97.8**	**97.6**	**97.8**	**97.1**	**97.5**	**97.0**	**96.4**	**96.6**	**96.4**	**96.6**	**96.4**	**95.9**	**96.6**	**97.0**	**97.3**	**97.8**		
Min.	**58.8**	**52.5**	**54.8**	**59.6**	**58.8**	**55.9**	**62.4**	**52.5**	**51.3**	**49.5**	**53.9**	**56.1**	**56.0**	**55.3**	**54.3**	**57.1**	51.4	52.0	**47.5**	**49.1**	**49.6**	**51.2**	**57.6**	**51.9**		**47.5**	
Avg.	**83.4**	**83.8**	**84.1**	**85.7**	**85.7**	**83.9**	**83.2**	**81.2**	**79.9**	**78.1**	**77.3**	**77.2**	**77.3**	**77.7**	**78.7**	**79.4**	**79.1**	**79.8**	**80.3**	**80.2**	**79.2**	**81.4**	**82.7**	**83.2**			**80.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	15	32	76	81	69	104	181	82	94	79	60	24	23	20	8	4	0	0	0	181	0	40
2	0	0	0	0	0	4	5	17	23	44	71	127	119	107	93	75	78	77	62	34	13	1	0	0	127	0	40
3	0	0	0	0	0	6	26	65	117	202	320	368	254	205	242	163	248	166	124	49	27	3	0	0	368	0	108
4	0	0	0	0	0	6	40	88	120	198	250	369	350	445	357	0	95	138	91	50	14	3	0	0	445	0	109
5	0	0	0	0	0	29	83	201	242	443	577	658	700	719	704	587	551	275	33	21	14	4	0	0	719	0	243
6	0	0	0	0	0	19	87	203	307	456	565	642	686	707	679	623	530	268	30	23	12	2	0	0	707	0	243
7	0	0	0	0	0	15	82	197	335	353	430	691	670	690	736	484	356	273	26	22	13	3	0	0	736	0	224
8	0	0	0	0	0	8	68	189	319	433	483	583	675	707	662	610	530	255	26	20	12	2	0	0	707	0	233
9	0	0	0	0	0	11	94	196	317	425	541	620	667	679	672	613	521	245	24	18	11	2	0	0	679	0	236
10	0	0	0	0	0	11	83	202	327	448	570	651	636	687	678	620	527	235	19	17	10	1	0	0	687	0	238
11	0	0	0	0	0	10	95	168	296	434	544	629	678	696	675	614	520	230	23	18	11	2	0	0	696	0	235
12	0	0	0	0	0	8	76	191	313	435	542	618	669	685	663	603	511	220	25	19	10	1	0	0	685	0	233
13	0	0	0	0	0	1	12	26	45	76	157	189	140	170	256	256	230	204	70	33	17	1	0	0	256	0	79
14	0	0	0	0	0	4	20	53	77	104	168	247	425	537	653	592	494	202	28	21	10	1	0	0	653	0	151
15	0	0	0	0	0	1	16	32	106	116	101	122	147	282	445	296	407	173	74	43	13	0	0	0	445	0	99
16	0	0	0	0	0	1	14	48	61	75	65	119	98	56	54	62	94	50	17	10	3	0	0	0	119	0	34
17	0	0	0	0	0	0	8	26	31	51	64	104	93	159	173	119	88	76	51	25	8	0	0	0	173	0	45
18	0	0	0	0	0	1	7	49	152	95	59	90	202	141	91	84	119	80	85	32	5	0	0	0	202	0	54
19	0	0	0	0	0	3	50	159	253	338	516	583	634	645	618	527	390	148	65	39	10	0	0	0	645	0	207
20	0	0	0	0	0	4	42	177	162	317	424	438	476	488	405	300	189	137	72	19	2	0	0	0	488	0	152
21	0	0	0	0	0	0	12	30	78	262	561	628	768	782	702	617	405	113	24	16	6	0	0	0	782	0	209
22	0	0	0	0	0	3	17	61	75	86	63	141	205	88	74	88	55	17	6	3	0	0	0	0	205	0	41
23	0	0	0	0	0	0	2	13	260	426	190	160	569	606	513	546	435	128	62	34	5	0	0	0	606	0	164
24	0	0	0	0	0	1	10	29	110	249	147	304	270	285	130	104	571	142	32	14	5	0	0	0	571	0	100
25	0	0	0	0	0	1	32	145	283	353	482	416	480	463	534	373	363	126	66	22	5	0	0	0	534	0	173
26	0	0	0	0	0	1	30	121	265	386	497	575	421	625	635	585	480	89	22	13	3	0	0	0	635	0	198
27	0	0	0	0	0	1	19	132	262	386	496	572	626	637	611	495	226	92	41	15	1	0	0	0	637	0	192
28	0	0	0	0	0	0	4	26	40	40	56	79	108	149	126	109	135	77	40	13	1	0	0	0	149	0	42
29	0	0	0	0	0	0	27	37	53	75	199	167	199	237	270	169	103	86	55	32	2	0	0	0	270	0	71
30	0	0	0	0	0	0	11	57	138	268	484	550	613	641	407	365	281	141	75	23	2	0	0	0	641	0	169
31	0	0	0	0	0	0	21	45	90	145	182	445	415	540	600	525	431	109	76	24	2	0	0	0	600	0	152
Max.	**0**	**0**	**0**	**0**	**0**	**29**	**95**	**203**	**335**	**456**	**577**	**691**	**768**	**782**	**736**	**623**	**571**	**275**	**124**	**50**	**27**	**4**	**0**	**0**	**782**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**13**	**23**	**40**	**56**	**79**	**82**	**56**	**54**	**0**	**24**	**17**	**6**	**3**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**5**	**36**	**99**	**172**	**251**	**320**	**389**	**422**	**450**	**437**	**363**	**322**	**148**	**47**	**24**	**8**	**1**	**0**	**0**			**146**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	14	42	158	291	486	556	612	624	596	532	432	35	17	11	1	0	0	0	624	0	184
2	0	0	0	0	0	0	11	102	220	339	396	513	565	479	430	235	206	120	74	16	0	0	0	0	565	0	154
3	0	0	0	0	0	0	3	16	26	42	43	44	46	54	87	67	35	32	18	4	0	0	0	0	87	0	22
4	0	0	0	0	0	0	2	16	23	40	51	92	79	97	89	166	136	93	49	13	0	0	0	0	166	0	39
5	0	0	0	0	0	0	6	57	41	42	19	19	27	32	36	29	21	12	24	3	0	0	0	0	57	0	15
6	0	0	0	0	0	0	0	6	66	220	360	387	632	429	531	173	134	93	46	14	0	0	0	0	632	0	129
7	0	0	0	0	0	0	2	26	58	211	512	461	195	500	599	342	323	78	63	6	0	0	0	0	599	0	141
8	0	0	0	0	0	0	7	77	203	325	427	372	323	366	348	270	141	66	22	3	0	0	0	0	427	0	123
9	0	0	0	0	0	0	0	4	13	12	19	25	25	16	19	20	35	63	53	11	0	0	0	0	63	0	13
10	0	0	0	0	0	0	3	99	142	307	489	527	568	544	447	373	283	41	44	7	0	0	0	0	568	0	161
11	0	0	0	0	0	0	9	42	64	46	89	85	66	64	64	42	38	13	5	1	0	0	0	0	89	0	26
12	0	0	0	0	0	0	3	50	136	362	402	325	123	134	139	88	70	36	22	4	0	0	0	0	402	0	79
13	0	0	0	0	0	0	6	40	174	178	245	369	260	253	231	178	157	90	50	6	0	0	0	0	369	0	93
14	0	0	0	0	0	0	2	47	150	290	392	462	498	519	494	430	245	29	14	1	0	0	0	0	519	0	149
15	0	0	0	0	0	0	0	0	2	5	6	9	10	10	11	13	9	12	2	0	0	0	0	0	13	0	4
16	0	0	0	0	0	0	0	7	23	51	76	154	209	459	490	377	240	49	25	3	0	0	0	0	490	0	90
17	0	0	0	0	0	0	1	15	56	101	229	180	377	469	100	162	151	85	34	3	0	0	0	0	469	0	82
18	0	0	0	0	0	0	2	39	163	267	348	427	557	550	520	446	259	59	40	7	0	0	0	0	557	0	153
19	0	0	0	0	0	0	1	20	83	207	347	391	536	371	562	375	213	43	15	3	0	0	0	0	562	0	132
20	0	0	0	0	0	0	1	32	156	272	363	438	495	505	472	377	205	31	16	2	0	0	0	0	505	0	140
21	0	0	0	0	0	0	2	41	45	63	125	248	262	171	143	76	41	27	17	1	0	0	0	0	262	0	53
22	0	0	0	0	0	0	0	3	10	23	25	15	13	19	15	14	13	10	4	1	0	0	0	0	25	0	7
23	0	0	0	0	0	0	0	13	44	60	96	83	45	25	22	8	10	4	2	0	0	0	0	0	96	0	17
24	0	0	0	0	0	0	0	16	98	278	160	130	151	240	374	120	75	36	17	0	0	0	0	0	374	0	71
25	0	0	0	0	0	0	0	33	120	211	279	406	323	414	388	201	154	43	13	1	0	0	0	0	414	0	108
26	0	0	0	0	0	0	1	26	39	83	73	178	349	198	44	37	34	20	3	0	0	0	0	0	349	0	45
27	0	0	0	0	0	0	0	3	14	35	125	86	48	55	55	50	30	15	4	0	0	0	0	0	125	0	22
28	0	0	0	0	0	0	0	11	24	32	58	102	204	202	199	175	126	28	6	0	0	0	0	0	204	0	49
29	0	0	0	0	0	0	0	4	28	88	123	273	383	375	209	215	161	34	10	0	0	0	0	0	383	0	79
30	0	0	0	0	0	0	0	23	134	239	337	402	444	449	412	341	138	16	7	0	0	0	0	0	449	0	123
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**14**	**102**	**220**	**362**	**512**	**556**	**632**	**624**	**599**	**532**	**432**	**120**	**74**	**16**	**1**	**0**	**0**	**0**	**632**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**5**	**6**	**9**	**10**	**10**	**11**	**8**	**9**	**4**	**2**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**30**	**84**	**157**	**223**	**259**	**281**	**287**	**271**	**198**	**137**	**44**	**24**	**4**	**0**	**0**	**0**	**0**			**83**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	4	39	130	199	267	296	298	252	285	154	27	7	0	0	0	0	0	298	0	82
2	0	0	0	0	0	0	0	9	100	215	316	386	433	441	407	337	129	15	6	0	0	0	0	0	441	0	116
3	0	0	0	0	0	0	0	2	13	58	268	101	206	167	136	45	53	17	8	0	0	0	0	0	268	0	45
4	0	0	0	0	0	0	0	2	14	31	87	107	117	103	161	97	78	26	5	0	0	0	0	0	161	0	34
5	0	0	0	0	0	0	0	1	7	29	53	58	55	65	59	41	23	10	1	0	0	0	0	0	65	0	17
6	0	0	0	0	0	0	0	6	33	177	226	367	410	334	322	198	52	34	8	0	0	0	0	0	410	0	90
7	0	0	0	0	0	0	0	1	16	32	118	33	33	36	23	21	17	5	0	0	0	0	0	0	118	0	14
8	0	0	0	0	0	0	0	1	9	14	17	41	88	105	128	101	56	22	2	0	0	0	0	0	128	0	24
9	0	0	0	0	0	0	0	1	16	29	26	46	88	129	201	151	93	33	3	0	0	0	0	0	201	0	34
10	0	0	0	0	0	0	0	5	59	77	103	131	177	199	176	137	71	21	2	0	0	0	0	0	199	0	48
11	0	0	0	0	0	0	0	1	19	78	238	177	199	186	103	79	39	17	1	0	0	0	0	0	238	0	47
12	0	0	0	0	0	0	0	2	54	166	261	332	375	379	343	262	92	11	1	0	0	0	0	0	379	0	95
13	0	0	0	0	0	0	0	3	23	137	107	293	301	393	273	265	91	12	1	0	0	0	0	0	393	0	79
14	0	0	0	0	0	0	0	2	28	80	141	151	217	261	186	62	28	15	0	0	0	0	0	0	261	0	49
15	0	0	0	0	0	0	0	0	17	65	118	173	220	291	222	150	82	12	1	0	0	0	0	0	291	0	56
16	0	0	0	0	0	0	0	1	38	155	225	288	283	183	331	166	52	11	0	0	0	0	0	0	331	0	72
17	0	0	0	0	0	0	0	0	1	3	8	21	41	63	28	79	41	10	0	0	0	0	0	0	79	0	12
18	0	0	0	0	0	0	0	0	11	72	119	151	246	221	167	160	67	7	0	0	0	0	0	0	246	0	51
19	0	0	0	0	0	0	0	0	3	8	18	24	17	13	10	7	4	1	0	0	0	0	0	0	24	0	4
20	0	0	0	0	0	0	0	0	8	54	125	152	111	108	92	78	28	7	0	0	0	0	0	0	152	0	32
21	0	0	0	0	0	0	0	0	6	22	25	33	47	46	53	36	15	2	0	0	0	0	0	0	53	0	12
22	0	0	0	0	0	0	0	0	9	47	106	179	212	215	143	85	40	9	0	0	0	0	0	0	215	0	44
23	0	0	0	0	0	0	0	0	11	38	42	30	30	31	29	27	20	4	0	0	0	0	0	0	42	0	11
24	0	0	0	0	0	0	0	0	3	27	169	236	294	287	254	191	46	6	0	0	0	0	0	0	294	0	63
25	0	0	0	0	0	0	0	0	11	93	183	246	284	284	249	182	42	5	0	0	0	0	0	0	284	0	66
26	0	0	0	0	0	0	0	0	9	87	178	241	280	281	246	180	39	4	0	0	0	0	0	0	281	0	64
27	0	0	0	0	0	0	0	0	12	83	174	239	277	278	243	175	36	4	0	0	0	0	0	0	278	0	63
28	0	0	0	0	0	0	0	0	6	61	175	236	271	272	234	166	37	4	0	0	0	0	0	0	272	0	61
29	0	0	0	0	0	0	0	0	3	25	77	111	145	121	81	48	22	4	0	0	0	0	0	0	145	0	27
30	0	0	0	0	0	0	0	0	2	19	40	77	83	76	62	58	16	2	0	0	0	0	0	0	83	0	18
31	0	0	0	0	0	0	0	0	6	64	155	221	258	260	224	160	30	2	0	0	0	0	0	0	260	0	57
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**100**	**215**	**316**	**386**	**433**	**441**	**407**	**337**	**154**	**34**	**8**	**0**	**0**	**0**	**0**	**0**	**441**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**8**	**21**	**17**	**13**	**10**	**7**	**4**	**1**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**19**	**70**	**132**	**166**	**197**	**198**	**175**	**130**	**51**	**12**	**1**	**0**	**0**	**0**	**0**	**0**			**48**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	0	2	18	59	74	102	101	110	76	13	1	0	0	0	0	0	0	110	0	23
2	0	0	0	0	0	0	0	0	4	64	156	181	248	250	194	157	41	3	0	0	0	0	0	0	250	0	54
3	0	0	0	0	0	0	0	0	2	49	146	209	245	245	211	147	25	2	0	0	0	0	0	0	245	0	53
4	0	0	0	0	0	0	0	0	2	49	142	205	240	241	206	142	22	2	0	0	0	0	0	0	241	0	52
5	0	0	0	0	0	0	0	0	2	45	135	198	234	233	198	123	19	1	0	0	0	0	0	0	234	0	50
6	0	0	0	0	0	0	0	0	0	2	9	64	94	196	268	157	22	1	0	0	0	0	0	0	268	0	34
7	0	0	0	0	0	0	0	0	3	22	102	90	146	119	81	42	8	0	0	0	0	0	0	0	146	0	26
8	0	0	0	0	0	0	0	0	1	22	33	51	68	69	98	57	11	0	0	0	0	0	0	0	98	0	17
9	0	0	0	0	0	0	0	0	0	9	26	57	76	93	39	40	8	0	0	0	0	0	0	0	93	0	14
10	0	0	0	0	0	0	0	0	1	41	136	127	197	191	116	97	14	1	0	0	0	0	0	0	197	0	38
11	0	0	0	0	0	0	0	0	0	4	30	42	51	56	48	28	4	0	0	0	0	0	0	0	56	0	11
12	0	0	0	0	0	0	0	0	1	11	59	85	144	127	171	103	10	0	0	0	0	0	0	0	171	0	30
13	0	0	0	0	0	0	0	0	0	10	37	80	66	58	57	39	9	0	0	0	0	0	0	0	80	0	15
14	0	0	0	0	0	0	0	0	0	7	54	67	96	79	88	24	5	0	0	0	0	0	0	0	96	0	17
15	0	0	0	0	0	0	0	0	0	15	83	80	120	96	54	29	6	0	0	0	0	0	0	0	120	0	20
16	0	0	0	0	0	0	0	0	0	2	13	21	28	28	22	14	6	0	0	0	0	0	0	0	28	0	6
17	0	0	0	0	0	0	0	0	0	2	15	30	59	63	98	20	7	0	0	0	0	0	0	0	98	0	12
18	0	0	0	0	0	0	0	0	0	3	18	34	8	16	16	13	4	0	0	0	0	0	0	0	34	0	5
19	0	0	0	0	0	0	0	0	0	4	26	62	107	85	103	65	9	0	0	0	0	0	0	0	107	0	19
20	0	0	0	0	0	0	0	0	0	1	18	46	61	37	26	8	1	0	0	0	0	0	0	0	61	0	8
21	0	0	0	0	0	0	0	0	0	6	30	114	150	153	97	36	6	0	0	0	0	0	0	0	153	0	25
22	0	0	0	0	0	0	0	0	0	4	19	51	93	129	129	27	6	0	0	0	0	0	0	0	129	0	19
23	0	0	0	0	0	0	0	0	0	7	62	125	148	139	116	55	4	0	0	0	0	0	0	0	148	0	27
24	0	0	0	0	0	0	0	0	0	6	60	109	158	127	67	26	4	0	0	0	0	0	0	0	158	0	23
25	0	0	0	0	0	0	0	0	0	4	56	123	102	57	69	40	3	0	0	0	0	0	0	0	123	0	19
26	0	0	0	0	0	0	0	0	0	3	43	103	45	158	119	48	3	0	0	0	0	0			158	0	24
27	0	0	0	0			0	0	0	5	52	116	152	153	120	50	3	0	0	0	0	0	0	0	153	0	30
28	0	0	0	0	0	0	0	0	0	3	24	40	49	94	35	9	2	0	0	0	0	0	0	0	94	0	11
29	0	0	0	0	0	0	0	0	0	2	12	46	139	50	97	55	5	0	0	0	0	0	0	0	139	0	17
30	0	0	0	0	0	0	0	0	0	3	50	91	111	138	108	40	2	0	0	0	0	0	0	0	138	0	23
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**4**	**64**	**156**	**209**	**248**	**250**	**268**	**157**	**41**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**268**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**9**	**21**	**8**	**16**	**16**	**8**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**14**	**57**	**91**	**118**	**119**	**105**	**59**	**9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			**24**

Total Hours in Month 720 **Hours Data Available** 716 **Data Recovery** 99.4%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	0	0	2	37	98	137	139	107	42	3	0	0	0	0	0	0	0	139	0	24
2	0	0	0	0	0	0	0	0	0	2	38	101	133	148	123	61	3	0	0	0	0	0	0	0	148	0	25
3	0	0	0	0	0	0	0	0	0	2	35	93	134	137	103	40	2	0	0	0	0	0	0	0	137	0	23
4	0	0	0	0	0	0	0	0	0	1	15	39	62	40	19	9	1	0	0	0	0	0	0	0	62	0	8
5	0	0	0	0	0	0	0	0	0	0	2	4	11	12	9	4	0	0	0	0	0	0	0	0	12	0	2
6	0	0	0	0	0	0	0	0	0	0	1	7	13	10	12	22	1	0	0	0	0	0	0	0	22	0	3
7	0	0	0	0	0	0	0	0	0	0	1	2	6	7	4	3	0	0	0	0	0	0	0	0	7	0	1
8	0	0	0	0	0	0	0	0	0	1	12	72	29	94	25	4	0	0	0	0	0	0	0	0	94	0	10
9	0	0	0	0	0	0	0	0	0	0	5	13	22	25	25	13	1	0	0	0	0	0	0	0	25	0	4
10	0	0	0	0	0	0	0	0	0	0	8	25	46	37	21	2	0	0	0	0	0	0	0	0	46	0	6
11	0	0	0	0	0	0	0	0	0	0	7	14	31	31	15	6	1	0	0	0	0	0	0	0	31	0	4
12	0	0	0	0	0	0	0	0	0	1	23	74	115	120	87	23	1	0	0	0	0	0	0	0	120	0	18
13	0	0	0	0	0	0	0	0	0	0	4	10	14	16	38	18	1	0	0	0	0	0	0	0	38	0	4
14	0	0	0	0	0	0	0	0	0	0	4	28	48	42	19	5	0	0	0	0	0	0	0	0	48	0	6
15	0	0	0	0	0	0	0	0	0	0	1	7	9	12	6	2	0	0	0	0	0	0		0	12	0	2
16	0	0	0	0	0	0	0	0	0	0	0	2	3	3	2	0	0	0	0	0	0	0	0	0	3	0	0
17				0	0	0	0	0	0	0	8	15	28	18	8	3	0	0	0	0	0	0	0	0	28	0	4
18	0	0	0	0	0	0	0	0	0	0	3	11	22	27	19	7	0	0	0	0	0	0	0	0	27	0	4
19	0	0	0	0	0	0	0	0	0	1	4	7	8	11	10	4	0	0	0	0	0	0	0	0	11	0	2
20	0	0	0	0	0	0	0	0	0	0	11	51	71	66	48	15	1	0	0	0	0	0	0	0	71	0	11
21	0	0	0	0	0	0	0	0	0	0	3	11	16	19	7	5	0	0	0	0	0	0	0	0	19	0	3
22	0	0	0	0	0	0	0	0	0	0	3	17	24	14	19	9	1	0	0	0	0	0	0	0	24	0	4
23	0	0	0	0	0	0	0	0	0	0	7	15	18	19	9	5	1	0	0	0	0	0	0	0	19	0	3
24	0	0	0	0	0	0	0	0	0	0	6	13	22	34	32	15	1	0	0	0	0	0	0	0	34	0	5
25	0	0	0	0	0	0	0	0	0	0	3	7	19	30	15	9	1	0	0	0	0	0	0	0	30	0	3
26	0	0	0	0	0	0	0	0	0	0	17	11	13	19	12	6	1	0	0	0	0	0	0	0	19	0	3
27	0	0	0	0	0	0	0	0	0	0	4	28	55	66	35	12	0	0	0	0	0	0	0	0	66	0	8
28	0	0	0	0	0	0	0	0	0	0	5	62	129	102	64	19	1	0	0	0	0	0	0	0	129	0	16
29	0	0	0	0	0	0	0	0	0	0	1	5	13	9	8	2	0	0	0	0	0	0	0	0	13	0	2
30	0	0	0	0	0	0	0	0	0	0	2	6	12	13	20	15	1	0	0	0	0	0	0	0	20	0	3
31	0	0	0	0	0	0	0	0	0	0	4	17	26	23	13	6	1	0	0	0	0	0	0	0	26	0	4
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**38**	**101**	**137**	**148**	**123**	**61**	**3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**148**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**3**	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**28**	**42**	**43**	**30**	**12**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**			**7**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	0	0	0	6	15	31	31	25	12	1	0	0	0	0	0	0	0	31	0	5
2	0	0	0	0	0	0	0	0	0	0	3	16	19	14	17	6	1	0	0	0	0	0	0	0	19	0	3
3	0	0	0	0	0	0	0	0	0	0	5	16	32	39	24	13	2	0	0	0	0	0	0	0	39	0	5
4	0	0	0	0	0	0	0	0	0	1	24	83	111	126	94	45	4	0	0	0	0	0	0	0	126	0	20
5	0	0	0	0	0	0	0	0	0	0	12	62	60	45	31	20	5	0	0	0	0	0	0	0	62	0	10
6	0	0	0	0	0	0	0	0	0	0	8	28	45	35	33	14	2	0	0	0	0	0	0	0	45	0	7
7	0	0	0	0	0	0	0	0	0	0	9	36	50	45	30	17	3	0	0	0	0	0	0	0	50	0	8
8	0	0	0	0	0	0	0	0	0	0	6	37	50	46	44	26	4	0	0	0	0	0	0	0	50	0	9
9	0	0	0	0	0	0	0	0	0	0	5	17	31	39	29	22	4	0	0	0	0	0	0	0	39	0	6
10	0	0	0	0	0	0	0	0	0	0	40	86	93	46	32	21	4	0	0	0	0	0	0	0	93	0	13
11	0	0	0	0	0	0	0	0	0	0	10	43	52	57	37	25	3	0	0	0	0	0	0	0	57	0	9
12	0	0	0	0	0	0	0	0	0	1	13	31	41	52	65	33	7	0	0	0	0	0	0	0	65	0	10
13	0	0	0	0	0	0	0	0	0	1	9	30	108	143	124	72	9	0	0	0	0	0	0	0	143	0	21
14	0	0	0	0	0	0	0	0	0	0	11	38	37	41	23	7	4	0	0	0	0	0	0	0	41	0	7
15	0	0	0	0	0	0	0	0	0	1	18	32	69	46	32	29	5	0	0	0	0	0	0	0	69	0	10
16	0	0	0	0	0	0	0	0	0	1	14	54	62	53	39	28	8	0	0	0	0	0	0	0	62	0	11
17	0	0	0	0	0	0	0	0	0	1	15	39	73	88	94	73	25	1	0	0	0	0	0	0	94	0	17
18	0	0	0	0	0	0	0	0	0	2	25	66	78	75	75	72	14	0	0	0	0	0	0	0	78	0	17
19	0	0	0	0	0	0	0	0	0	1	40	127	190	164	161	86	15	0	0	0	0	0	0	0	190	0	33
20	0	0	0	0	0	0	0	0	0	1	9	31	55	115	102	63	9	0	0	0	0	0	0	0	115	0	16
21	0	0	0	0	0	0	0	0	0	0	7	23	31	33	27	13	5	0	0	0	0	0	0	0	33	0	6
22	0	0	0	0	0	0	0	0	0	2	21	44	52	85	86	44	10	1	0	0	0	0	0	0	86	0	14
23	0	0	0	0	0	0	0	0	0	1	17	44	63	138	165	113	27	1	0	0	0	0	0	0	165	0	24
24	0	0	0	0	0	0	0	0	0	4	52	130	179	196	176	125	31	2	0	0	0	0	0	0	196	0	37
25	0	0	0	0	0	0	0	0	0	3	53	140	187	202	180	130	33	2	0	0	0	0	0	0	202	0	39
26	0	0	0	0	0	0	0	0	0	6	73	161	210	222	189	134	36	2	0	0	0	0	0	0	222	0	43
27	0	0	0	0	0	0	0	0	0	4	64	146	194	210	190	136	38	2	0	0	0	0	0	0	210	0	41
28	0	0	0	0	0	0	0	0	0	2	20	55	66	111	185	93	44	5	0	0	0	0	0	0	185	0	24
29	0	0	0	0	0	0	0	0	0	4	52	58	57	54	45	47	16	3	0	0	0	0	0	0	58	0	14
30	0	0	0	0	0	0	0	0	0	3	11	32	81	70	67	59	25	3	0	0	0	0	0	0	81	0	15
31	0	0	0	0	0	0	0	0	0	2	12	21	28	54	107	93	39	7	0	0	0	0	0	0	107	0	15
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**6**	**73**	**161**	**210**	**222**	**190**	**136**	**44**	**7**	**0**	**0**	**0**	**0**	**0**	**0**	**222**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**3**	**15**	**19**	**14**	**17**	**6**	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**21**	**56**	**78**	**86**	**82**	**54**	**14**	**1**	**0**	**0**	**0**	**0**	**0**	**0**			**16**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	0	0	8	77	155	211	232	211	158	58	4	0	0	0	0	0	0	232	0	46
2	0	0	0	0	0	0	0	0	0	13	91	173	220	238	218	167	66	4	0	0	0	0	0	0	238	0	50
3	0	0	0	0	0	0	0	0	0	3	21	35	46	54	87	57	42	5	0	0	0	0	0	0	87	0	15
4	0	0	0	0	0	0	0	0	0	3	20	72	81	49	47	44	19	5	0	0	0	0	0	0	81	0	14
5	0	0	0	0	0	0	0	0	0	3	8	40	52	74	63	66	31	4	0	0	0	0	0	0	74	0	14
6	0	0	0	0	0	0	0	0	0	2	4	5	6	11	9	12	10	1	0	0	0	0	0	0	12	0	2
7	0	0	0	0	0	0	0	0	0	19	53	84	55	46	63	79	36	9	0	0	0	0	0	0	84	0	18
8	0	0	0	0	0	0	0	0	1	39	94	133	131	123	108	106	43	10	0	0	0	0	0	0	133	0	33
9	0	0	0	0	0	0	0	0	0	2	10	25	41	80	173	68	51	5	0	0	0	0	0	0	173	0	19
10	0	0	0	0	0	0	0	0	0	2	13	33	21	39	129	228	125	25	1	0	0	0	0	0	228	0	26
11	0	0	0	0	0	0	0	0	0	2	7	12	21	19	16	13	8	2	0	0	0	0	0	0	21	0	4
12	0	0	0	0	0	0	0	0	0	7	15	22	45	54	115	122	92	18	0	0	0	0	0	0	122	0	20
13	0	0	0	0	0	0	0	0	1	41	117	76	57	30	24	20	8	2	0	0	0	0	0	0	117	0	16
14	0	0	0	0	0	0	0	0	0	10	27	45	63	56	45	36	32	13	0	0	0	0	0	0	63	0	14
15	0	0	0	0	0	0	0	0	1	23	74	93	115	115	49	18	9	1	0	0	0	0	0	0	115	0	21
16	0	0	0	0	0	0	0	0	1	21	45	65	103	109	85	83	47	17	1	0	0	0	0	0	109	0	24
17	0	0	0	0	0	0	0	0	0	15	16	38	53	55	71	23	25	10	0	0	0	0	0	0	71	0	13
18	0	0	0	0	0	0	0	0	1	15	46	56	52	51	42	22	12	3	0	0	0	0	0	0	56	0	13
19	0	0	0	0	0	0	0	0	2	47	112	181	322	265	150	124	58	21	1	0	0	0	0	0	322	0	53
20	0	0	0	0	0	0	0	0	4	61	265	249	397	234	178	106	30	9	1	0	0	0	0	0	397	0	64
21	0	0	0	0	0	0	0	0	8	85	197	281	340	369	357	189	84	22	3	0	0	0	0	0	369	0	81
22	0	0	0	0	0	0	0	0	5	27	114	255	300	339	343	279	163	45	4	0	0	0	0	0	343	0	78
23	0	0	0	0	0	0	0	0	2	41	254	344	321	414	200	203	145	25	4	0	0	0	0	0	414	0	81
24	0	0	0	0	0	0	0	0	10	87	183	273	328	346	337	249	144	26	4	0	0	0	0	0	346	0	83
25	0	0	0	0	0	0	0	0	1	11	17	11	66	103	165	186	140	37	4	0	0	0	0	0	186	0	31
26	0	0	0	0	0	0	0	0	12	79	146	221	223	299	277	204	123	37	5	0	0	0	0	0	299	0	68
27	0	0	0	0	0	0	0	0	2	40	66	119	171	173	105	67	55	26	5	0	0	0	0	0	173	0	35
28	0	0	0	0	0	0	0	0	13	65	219	339	392	409	377	301	163	24	6	0	0	0	0	0	409	0	96
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**13**	**87**	**265**	**344**	**397**	**414**	**377**	**301**	**163**	**45**	**6**	**0**	**0**	**0**	**0**	**0**	**414**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**4**	**5**	**6**	**11**	**9**	**12**	**8**	**1**	**0**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**28**	**83**	**123**	**151**	**157**	**144**	**115**	**65**	**15**	**1**	**0**	**0**	**0**	**0**	**0**			**37**

Total Hours in Month 672 **Hours Data Available** 672 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	0	18	109	215	295	342	362	341	233	91	48	7	0	0	0	0	0	362	0	86
2	0	0	0	0	0	0	0	0	2	13	31	40	61	60	65	95	57	29	6	0	0	0	0	0	95	0	19
3	0	0	0	0	0	0	0	0	10	34	59	89	146	157	132	107	49	24	5	0	0	0	0	0	157	0	34
4	0	0	0	0	0	0	0	0	7	27	56	129	132	125	86	68	29	13	4	0	0	0	0	0	132	0	28
5	0	0	0	0	0	0	0	0	1	6	22	41	45	34	32	26	23	18	12	0	0	0	0	0	45	0	11
6	0	0	0	0	0	0	0	1	62	193	306	395	443	457	427	359	224	23	10	0	0	0	0	0	457	0	121
7	0	0	0	0	0	0	0	0	22	66	106	279	453	338	462	349	180	40	11	0	0	0	0	0	462	0	96
8	0	0	0	0	0	0	0	2	94	166	253	349	405	439	427	355	189	41	23	1	0	0	0	0	439	0	114
9	0	0	0	0	0	0	0	3	66	184	297	380	437	462	435	365	228	29	13	1	0	0	0	0	462	0	121
10	0	0	0	0	0	0	0	3	71	198	309	381	415	469	438	342	142	73	17	0	0	0	0	0	469	0	119
11	0	0	0	0	0	0	0	2	23	41	67	78	97	143	105	74	39	21	6	0	0	0	0	0	143	0	29
12	0	0	0	0	0	0	0	2	23	44	82	150	186	224	185	108	100	64	18	1	0	0	0	0	224	0	49
13	0	0	0	0	0	0	0	7	51	164	247	337	363	445	327	352	214	25	12	1	0	0	0	0	445	0	106
14	0	0	0	0	0	0	0	6	99	226	336	424	472	489	459	391	256	29	15	2	0	0	0	0	489	0	133
15	0	0	0	0	0	0	0	4	71	226	337	425	475	493	466	402	265	33	16	2	0	0	0	0	493	0	134
16	0	0	0	0	0	0	0	7	107	231	351	426	485	510	339	334	159	83	39	2	0	0	0	0	510	0	128
17	0	0	0	0	0	0	0	6	32	70	92	98	112	126	147	137	57	35	13	2	0	0	0	0	147	0	39
18	0	0	0	0	0	0	0	1	16	35	72	114	106	119	130	119	107	65	26	2	0	0	0	0	130	0	38
19	0	0	0	0	0	0	0	8	38	132	135	193	189	226	201	102	91	57	24	2	0	0	0	0	226	0	58
20	0	0	0	0	0	0	0	6	36	56	87	155	318	329	132	222	276	111	47	6	0	0	0	0	329	0	74
21	0	0	0	0	0	0	0	3	16	46	100	167	197	287	315	280	163	96	50	7	0	0	0	0	315	0	72
22	0	0	0	0	0	0	0	20	148	272	384	472	518	536	507	440	305	24	15	4	0	0	0	0	536	0	152
23	0	0	0	0	0	0	0	25	138	348	259	482	522	540	575	315	293	36	28	6	0	0	0	0	575	0	149
24	0	0	0	0	0	0	0	24	149	276	390	480	529	548	518	450	319	33	21	6	0	0	0	0	548	0	156
25	0	0	0	0	0	0	0	14	48	137	295	261	272	447	322	237	186	84	30	7	0	0	0	0	447	0	97
26	0	0	0	0	0	0	0	20	85	184	274	395	377	420	364	427	338	30	20	6	0	0	0	0	427	0	123
27	0	0	0	0	0	0	1	24	140	301	415	490	557	556	517	388	346	34	24	8	0	0	0	0	557	0	158
28	0	0	0	0	0	0	1	44	182	156	210	253	311	295	246	350	335	69	44	12	0	0	0	0	350	0	104
29	0	0	0	0	0	0	2	43	177	306	422	512	562	579	549	479	359	36	25	8	0	0	0	0	579	0	169
30	0	0	0	0	0	0	0	5	9	19	30	44	37	31	27	23	18	9	4	2	0	0	0	0	44	0	11
31	0	0	0	0	0	0	0	4	14	25	30	46	57	59	55	54	42	30	17	4	0	0	0	0	59	0	18
Max.	**0**	**0**	**0**	**0**	**0**	**0**	**2**	**44**	**182**	**348**	**422**	**512**	**562**	**579**	**575**	**479**	**359**	**111**	**50**	**12**	**0**	**0**	**0**	**0**	**579**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**6**	**22**	**40**	**37**	**31**	**27**	**23**	**18**	**9**	**4**	**0**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**9**	**63**	**138**	**202**	**270**	**310**	**332**	**301**	**257**	**177**	**43**	**19**	**3**	**0**	**0**	**0**	**0**			**89**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	0	0	8	45	80	129	161	289	373	461	519	384	64	57	19	0	0	0	0	519	0	108
2	0	0	0	0	0	0	7	81	155	211	325	536	560	518	457	457	230	113	66	15	0	0	0	0	560	0	155
3	0	0	0	0	0	0	1	12	32	76	85	80	82	77	89	94	69	56	27	7	0	0	0	0	94	0	33
4	0	0	0	0	0	0	1	18	57	81	101	117	136	166	160	158	128	95	52	13	0	0	0	0	166	0	53
5	0	0	0	0	0	0	9	35	122	367	238	491	616	635	609	534	435	45	24	12	1	0	0	0	635	0	174
6	0	0	0	0	0	0	8	89	236	372	488	574	619	633	584	504	312	137	50	14	1	0	0	0	633	0	193
7	0	0	0	0	0	0	2	26	51	103	140	198	228	272	281	271	218	102	39	15	0	0	0	0	281	0	81
8	0	0	0	0	0	0	1	7	23	47	60	65	81	91	85	96	83	82	34	12	0	0	0	0	96	0	32
9	0	0	0	0	0	0	5	36	69	268	465	604	465	396	351	188	177	95	40	21	2	0	0	0	604	0	133
10	0	0	0	0	0	0	7	51	127	277	264	375	353	350	285	213	141	79	47	28	2	0	0	0	375	0	108
11	0	0	0	0	0	0	17	109	137	169	203	203	169	135	91	111	82	46	22	7	0	0	0	0	203	0	63
12	0	0	0	0	0	0	5	28	53	84	109	134	169	178	146	87	69	63	25	10	1	0	0	0	178	0	48
13	0	0	0	0	0	0	12	79	262	359	459	639	708	703	656	575	436	90	37	18	3	0	0	0	708	0	210
14	0	0	0	0	0	1	23	135	276	418	535	616	664	680	646	574	467	81	25	16	3	0	0	0	680	0	215
15	0	0	0	0	0	1	23	151	298	435	551	639	680	696	660	585	472	101	37	21	4	0	0	0	696	0	223
16	0	0	0	0	0	1	23	55	108	106	157	204	223	218	206	241	201	134	81	24	2	0	0	0	241	0	83
17	0	0	0	0	0	0	5	13	13	272	91	385	623	280	439	382	214	191	118	35	4	0	0	0	623	0	128
18	0	0	0	0	0	1	33	145	285	468	560	643	683	691	673	597	490	112	24	16	5	0	0	0	691	0	226
19	0	0	0	0	0	2	51	179	311	444	558	644	681	692	649	587	491	126	29	20	6	0	0	0	692	0	228
20	0	0	0	0	0	1	14	43	65	74	142	141	334	162	117	70	64	72	25	5	1	0	0	0	334	0	55
21	0	0	0	0	0	1	7	28	68	145	316	143	101	191	469	304	154	83	30	13	2	0	0	0	469	0	86
22	0	0	0	0	0	3	32	92	149	149	168	296	478	631	665	571	325	149	100	34	4	0	0	0	665	0	160
23	0	0	0	0	0	1	15	26	25	63	269	705	669	668	679	589	499	160	33	31	15	0	0	0	705	0	185
24	0	0	0	0	0	1	12	46	97	145	128	240	245	338	356	271	202	130	71	32	7	0	0	0	356	0	97
25	0	0	0	0	0	9	67	89	141	252	191	396	315	151	178	106	83	46	28	17	3	0	0	0	396	0	86
26	0	0	0	0	0	4	42	123	226	266	315	416	411	347	375	390	341	183	83	53	12	0	0	0	416	0	150
27	0	0	0	0	0	4	38	121	187	303	379	308	373	565	505	549	470	183	61	25	17	0	0	0	565	0	170
28	0	0	0	0	0	4	34	80	120	65	77	254	354	344	368	433	297	233	83	38	19	0	0	0	433	0	117
29	0	0	0	0	0	11	73	218	368	496	595	678	708	734	703	632	535	195	36	23	11	1	0	0	734	0	251
30	0	0	0	0	0	10	86	147	349	474	619	665	569	627	458	338	212	196	36	28	10	0	0	0	665	0	201
Max.	**0**	**0**	**0**	**0**	**0**	**11**	**86**	**218**	**368**	**496**	**619**	**705**	**708**	**734**	**703**	**632**	**535**	**233**	**118**	**53**	**19**	**1**	**0**	**0**	**734**		
Min.	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**7**	**13**	**47**	**60**	**65**	**81**	**77**	**85**	**70**	**64**	**45**	**22**	**5**	**0**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**0**	**2**	**22**	**76**	**148**	**236**	**290**	**385**	**420**	**418**	**413**	**368**	**276**	**115**	**47**	**21**	**5**	**0**	**0**	**0**			**135**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

May 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	0	5	20	68	105	185	165	246	374	402	368	294	174	97	55	12	2	0	0	0	402	0	107
2	0	0	0	0	0	8	33	40	62	176	259	186	220	331	337	370	261	174	123	47	9	0	0	0	370	0	110
3	0	0	0	0	0	10	69	167	391	465	618	646	573	444	189	105	96	82	59	26	6	0	0	0	646	0	164
4	0	0	0	0	0	3	12	51	92	127	180	182	188	160	122	73	74	37	18	9	3	0	0	0	188	0	55
5	0	0	0	0	0	2	9	22	64	114	179	168	160	117	97	81	68	41	57	29	9	0	0	0	179	0	51
6	0	0	0	0	0	5	22	53	95	137	252	333	465	536	604	622	488	278	67	32	16	2	0	0	622	0	167
7	0	0	0	0	0	17	87	220	294	280	358	393	349	387	481	595	424	246	52	39	17	3	0	0	595	0	177
8	0	0	0	0	1	33	116	119	135	131	140	250	178	183	161	91	128	118	95	48	17	2	0	0	250	0	81
9	0	0	0	0	0	4	15	37	48	69	118	187	242	260	264	309	266	199	160	85	24	2	0	0	309	0	95
10	0	0	0	0	1	26	69	268	341	447	662	434	232	391	443	318	196	129	84	39	15	1	0	0	662	0	171
11	0	0	0	0	0	11	47	52	130	271	566	645	745	765	735	661	573	229	34	29	26	3	0	0	765	0	230
12	0	0	0	0	1	24	115	247	399	527	634	716	755	772	743	676	574	251	29	22	15	4	0	0	772	0	271
13	0	0	0	0	3	39	146	270	404	532	632	719	758	690	744	622	523	243	45	36	20	3	0	0	758	0	268
14	0	0	0	0	4	49	97	201	254	542	555	485	392	320	176	119	165	159	100	67	23	4	0	0	555	0	155
15	0	0	0	0	3	36	78	184	332	269	318	745	650	504	463	391	197	234	149	79	31	4	0	0	745	0	195
16	0	0	0	0	1	12	39	92	330	486	634	718	753	772	749	666	596	227	48	27	17	7	0	0	772	0	257
17	0	0	0	0	5	54	166	299	396	524	431	560	575	278	339	233	137	177	118	44	31	7	0	0	575	0	182
18	0	0	0	0	5	66	92	152	311	510	625	626	804	658	666	460	214	234	84	46	26	7	0	0	804	0	233
19	0	0	0	0	5	50	150	278	411	538	579	609	484	271	205	201	99	28	19	10	3	1	0	0	609	0	164
20	0	0	0	0	1	15	35	58	103	118	90	116	133	155	151	139	101	78	45	27	16	3	0	0	155	0	58
21	0	0	0	0	2	17	73	194	232	332	364	570	733	773	747	695	571	380	119	32	18	7	0	0	773	0	244
22	0	0	0	0	6	59	168	288	410	536	643	726	764	783	744	672	531	285	54	64	64	10	0	0	783	0	284
23	0	0	0	0	10	62	167	291	419	544	648	730	762	779	753	690	594	292	27	21	16	8	1	0	779	0	284
24	0	0	0	0	6	55	146	278	367	445	590	644	671	676	713	674	545	275	92	110	47	15	1	0	713	0	265
25	0	0	0	0	9	65	170	291	419	540	643	724	760	776	747	681	583	298	35	26	18	9	1	0	776	0	283
26	0	0	0	0	10	64	166	285	403	534	630	709	757	767	734	681	577	300	55	42	29	13	1	0	767	0	282
27	0	0	0	0	6	46	109	169	218	363	496	464	564	492	540	558	512	275	44	28	19	6	1	0	564	0	205
28	0	0	0	1	20	104	211	301	426	549	627	628	769	779	753	625	591	363	110	61	32	13	2	0	779	0	290
29	0	0	0	0	11	71	178	301	426	548	659	736	773	793	767	646	549	155	37	28	21	10	1	0	793	0	280
30	0	0	0	0	4	21	47	58	89	88	104	104	96	104	130	151	150	109	80	47	22	6	1	0	151	0	59
31	0	0	0	0	2	8	15	44	130	127	255	221	204	359	209	83	53	78	58	30	14	5	0	0	359	0	79
Max.	**0**	**0**	**0**	**1**	**20**	**104**	**211**	**301**	**426**	**549**	**662**	**745**	**804**	**793**	**767**	**695**	**596**	**380**	**160**	**110**	**64**	**15**	**2**	**0**	**804**		
Min.	**0**	**0**	**0**	**0**	**0**	**2**	**9**	**22**	**48**	**69**	**90**	**104**	**96**	**104**	**97**	**73**	**53**	**28**	**18**	**9**	**2**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**4**	**34**	**93**	**173**	**266**	**357**	**440**	**491**	**512**	**499**	**480**	**425**	**342**	**196**	**69**	**40**	**20**	**5**	**0**	**0**			**185**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

June 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	0	4	30	132	184	285	408	410	446	590	741	650	678	586	307	48	56	25	12	2	0	741	0	233
2	0	0	0	1	14	75	180	295	425	544	649	729	766	792	761	688	586	315	52	38	27	13	2	0	792	0	290
3	0	0	0	1	13	74	178	304	453	471	474	545	765	786	768	689	608	326	36	29	24	12	2	0	786	0	273
4	0	0	0	1	15	77	181	319	451	578	686	795	801	818	687	703	627	329	60	45	21	12	3	0	818	0	300
5	0	0	0	1	14	89	196	292	375	469	565	701	729	719	541	727	492	346	48	34	21	12	2	0	729	0	266
6	0	0	0	1	16	88	194	316	444	564	667	741	780	797	771	707	467	231	82	67	34	11	3	0	797	0	291
7	0	0	0	0	2	9	25	31	32	49	98	96	73	97	92	84	51	33	29	22	12	5	0	0	98	0	35
8	0	0	0	0	1	7	15	30	51	76	88	122	111	171	133	89	113	67	48	23	19	5	0	0	171	0	49
9	0	0	0	0	2	7	15	27	45	102	157	150	150	107	163	129	74	71	29	4	3	0	0	0	163	0	51
10	0	0	0	0	2	4	12	16	22	27	124	271	142	120	183	135	103	49	23	21	11	5	0	0	271	0	53
11	0	0	0	0	2	10	18	50	48	58	59	112	115	85	83	92	85	69	39	27	10	3	0	0	115	0	40
12	0	0	0	0	2	12	23	38	67	73	107	102	113	115	146	113	80	42	49	29	16	5	0	0	146	0	47
13	0	0	0	0	1	8	17	37	46	79	126	232	439	665	639	579	327	238	149	93	40	12	2	0	665	0	155
14	0	0	0	0	3	18	44	68	104	232	241	162	135	148	139	174	254	179	126	78	36	14	1	0	254	0	90
15	0	0	0	1	17	68	105	147	157	241	355	423	421	160	160	149	100	55	66	60	31	6	1	0	423	0	113
16	0	0	0	0	4	11	18	32	34	97	139	86	163	247	186	166	98	101	62	36	33	12	2	0	247	0	64
17	0	0	0	0	3	25	74	75	190	323	266	305	98	202	198	162	231	115	113	67	36	17	1	0	323	0	104
18	0	0	0	0	4	18	30	86	96	107	89	109	185	157	113	91	92	64	55	30	16	4	1	0	185	0	56
19	0	0	0	1	4	19	47	123	208	156	189	304	250	201	226	235	97	52	46	55	43	15	2	0	304	0	95
20	0	0	0	1	19	76	121	247	357	432	255	126	116	84	127	332	491	352	117	58	40	17	4	0	491	0	140
21	0	0	0	1	17	47	79	131	306	559	616	754	780	671	714	670	497	283	31	40	37	19	3	0	780	0	261
22	0	0	0	0	3	17	19	15	30	48	71	71	90	114	148	111	80	84	82	71	46	20	5	0	148	0	47
23	0	0	0	0	3	20	51	87	107	111	181	415	362	364	490	448	398	384	129	45	23	15	3	0	490	0	151
24	0	0	0	1	22	104	159	299	446	569	674	735	817	792	744	605	608	335	105	84	80	38	4	0	817	0	301
25	0	0	0	1	9	67	162	183	373	342	289	404	521	794	661	746	609	372	70	59	28	16	4	0	794	0	238
26	0	0	0	1	5	25	43	96	167	73	123	104	67	63	119	124	112	83	70	71	34	14	4	0	167	0	58
27	0	0	0	1	25	116	202	338	434	554	656	736	771	794	769	709	618	363	28	23	18	11	3	0	794	0	299
28	0	0	0	1	17	85	194	313	452	560	655	733	744	748	720	490	555	380	63	51	29	19	4	0	748	0	284
29	0	0	0	1	20	73	108	123	442	220	371	654	660	301	87	93	70	38	20	18	5	2	0	0	660	0	138
30	0	0	0	0	1	10	30	85	141	154	154	329	654	546	338	328	297	116	67	37	21	9	2	0	654	0	138
Max.	**0**	**0**	**0**	**1**	**25**	**116**	**202**	**338**	**453**	**578**	**686**	**795**	**817**	**818**	**771**	**746**	**627**	**384**	**149**	**93**	**80**	**38**	**5**	**0**	**818**		
Min.	**0**	**0**	**0**	**0**	**1**	**4**	**12**	**15**	**22**	**27**	**59**	**71**	**67**	**63**	**83**	**84**	**51**	**33**	**20**	**4**	**3**	**0**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**1**	**9**	**43**	**89**	**146**	**226**	**276**	**318**	**383**	**414**	**413**	**385**	**368**	**313**	**193**	**65**	**46**	**27**	**12**	**2**	**0**			**155**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Solar (Watts/m^2)

July 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0	0	0	1	13	85	197	284	417	548	639	743	782	786	778	673	541	357	35	28	20	12	4	0	786	0	289
2	0	0	0	1	15	86	189	310	436	556	662	741	775	793	764	702	606	366	63	49	31	19	3	0	793	0	299
3	0	0	0	1	8	19	34	40	79	134	141	147	156	173	161	146	116	181	51	31	29	13	3	0	181	0	69
4	0	0	0	1	12	74	175	345	359	639	713	655	504	364	300	244	221	168	57	27	28	18	2	0	713	0	204
5	0	0	0	0	1	11	20	29	78	173	92	90	119	123	156	167	99	98	77	52	12	3	1	0	173	0	58
6	0	0	0	0	2	18	22	77	124	180	170	295	455	339	209	193	223	194	114	44	5	2	0	0	455	0	111
7	0	0	0	0	1	4	12	43	51	61	79	66	51	40	41	40	39	48	40	27	9	2	0	0	79	0	27
8	0	0	0	0	2	13	47	67	175	578	724	750	784	798	681	531	642	374	32	25	19	11	2	0	798	0	261
9	0	0	0	0	9	53	159	269	281	497	360	353	380	370	450	312	219	213	36	42	28	6	0	0	497	0	168
10	0	0	0	0	1	9	20	38	52	58	103	162	256	285	212	156	85	51	49	14	5	2	0	0	285	0	65
11	0	0	0	0	2	14	25	43	117	250	126	95	160	210	151	87	141	192	157	140	57	21	2	0	250	0	83
12	0	0	0	0	5	39	126	242	415	531	640	726	762	781	738	692	594	366	76	56	27	18	2	0	781	0	285
13	0	0	0	0	8	50	142	295	433	545	528	304	405	541	415	630	423	213	101	72	38	21	4	0	630	0	215
14	0	0	0	0	4	37	151	301	428	530	635	714	735	589	634	350	230	125	67	48	46	19	1	0	735	0	235
15	0	0	0	0	3	22	60	247	438	600	568	627	675	675	705	606	504	240	83	48	16	7	0	0	705	0	255
16	0	0	0	0	0	2	4	9	13	21	32	46	108	138	148	128	140	119	82	41	18	6	0	0	148	0	44
17	0	0	0	0	0	3	50	43	67	61	92	111	79	80	112	100	70	54	27	13	9	2	0	0	112	0	41
18	0	0	0	0	0	4	14	24	35	50	41	55	52	70	80	67	69	51	44	29	13	5	0	0	80	0	29
19	0	0	0	0	4	26	58	84	168	344	303	221	174	237	223	241	162	160	115	82	38	8	0	0	344	0	110
20	0	0	0	0	4	24	21	49	77	89	98	139	161	87	95	108	176	71	61	27	8	5	0	0	176	0	54
21	0	0	0	0	2	14	32	55	66	128	138	142	153	105	136	94	152	110	72	28	31	4	0	0	153	0	61
22	0	0	0	0	1	7	17	26	36	85	98	101	118	91	43	45	41	50	45	22	12	3	0	0	118	0	35
23	0	0	0	0	0	4	16	20	30	56	96	103	160	195	191	129	67	76	65	32	15	4	0	0	195	0	52
24	0	0	0	0	0	4	21	32	53	80	98	113	153	79	53	39	38	33	23	14	8	2	0	0	153	0	35
25	0	0	0	0	0	3	14	20	46	113	137	167	168	208	255	234	168	120	129	88	40	4	0	0	255	0	80
26	0	0	0	0	2	35	49	82	206	428	571	652	604	576	708	450	595	306	32	26	18	8	0	0	708	0	223
27	0	0	0	0	2	33	134	250	375	500	610	637	713	746	720	670	580	329	30	33	24	9	0	0	746	0	266
28	0	0	0	0	2	18	130	248	359	484	562	575	674	646	601	248	297	187	82	50	18	6	0	0	674	0	216
29	0	0	0	0	1	8	12	114	406	250	333	350	595	705	436	300	182	115	67	55	23	5	0	0	705	0	165
30	0	0	0	0	1	38	130	83	288	457	349	134	171	205	172	175	221	160	90	44	24	5	0	0	457	0	114
31	0	0	0	0	1	24	122	243	351	419	537	511	575	567	568	380	238	160	82	63	35	5	0	0	575	0	203
Max.	**0**	**0**	**0**	**1**	**15**	**86**	**197**	**345**	**438**	**639**	**724**	**750**	**784**	**798**	**778**	**702**	**642**	**374**	**157**	**140**	**57**	**21**	**4**	**0**	**798**		
Min.	**0**	**0**	**0**	**0**	**0**	**2**	**4**	**9**	**13**	**21**	**32**	**46**	**51**	**40**	**41**	**39**	**38**	**33**	**23**	**13**	**5**	**2**	**0**	**0**		**0**	
Avg.	**0**	**0**	**0**	**0**	**3**	**25**	**71**	**129**	**208**	**305**	**331**	**339**	**376**	**374**	**353**	**288**	**254**	**171**	**67**	**44**	**23**	**8**	**1**	**0**			**140**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1006	1006	1006	1006	1006	1006	1006	1007	1007	1007	1008	1008	1008	1008	1008	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1006	1007.8
2	1010	1010	1010	1010	1010	1009	1010	1009	1009	1009	1009	1009	1009	1009	1008	1008	1007	1007	1006	1006	1006	1005	1005	1005	1010	1005	1008.1
3	1004	1004	1003	1002	1003	1003	1003	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1003	1003	1003	1003	1003	1004	1004	1002	1002.6
4	1004	1004	1004	1004	1005	1005	1005	1005	1006	1006	1006	1006	1007	1007	1007	1007	1007	1007	1007	1007	1008	1008	1009	1009	1009	1004	1006.2
5	1010	1010	1010	1011	1011	1012	1012	1013	1013	1014	1014	1015	1015	1015	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1010	1014.4
6	1019	1019	1019	1020	1020	1020	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1019	1021.3
7	1023	1023	1023	1023	1023	1024	1024	1024	1025	1025	1025	1025	1025	1025	1025	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1023	1024.1
8	1025	1025	1025	1025	1025	1025	1025	1025	1026	1026	1026	1026	1025	1025	1025	1025	1024	1024	1024	1024	1024	1024	1024	1024	1026	1024	1024.8
9	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1025	1026	1026	1025	1025	1025	1025	1025	1025	1025	1025	1026	1024	1024.8
10	1025	1025	1025	1025	1025	1025	1025	1025	1025	1026	1026	1026	1026	1026	1025	1025	1025	1025	1025	1024	1024	1024	1024	1024	1026	1024	1025.0
11	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1025	1024	1024	1024	1024	1023	1023	1023	1023	1023	1023	1023	1025	1023	1024.1
12	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022	1021	1021	1021	1021	1021	1023	1021	1022.5
13	1021	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1018	1018	1017	1017	1017	1016	1016	1016	1015	1016	1015	1021	1015	1018.2
14	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1012	1012	1012	1012	1011	1011	1012	1012	1012	1015	1011	1013.0
15	1012	1012	1012	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1016	1016	1012	1013.5
16	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1015	1015	1017	1015	1016.0
17	1014	1013	1012	1012	1010	1010	1009	1008	1007	1007	1006	1005	1005	1004	1003	1003	1002	1002	1002	1001	1002	1002	1002	1002	1014	1001	1005.9
18	1002	1002	1001	1001	1001	1001	1001	1001	1001	1001	1002	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1002	1002	1002	1002	1001	1001.1
19	1002	1002	1002	1001	1001	1001	1001	1001	1002	1002	1002	1002	1002	1002	1002	1001	1001	1001	1002	1002	1002	1002	1002	1002	1002	1001	1001.6
20	1002	1002	1002	1003	1002	1003	1003	1003	1003	1004	1004	1005	1005	1005	1004	1005	1005	1005	1004	1004	1004	1004	1004	1004	1005	1002	1003.6
21	1004	1003	1003	1003	1001	1002	1002	1001	1002	1002	1003	1002	1003	1004	1005	1005	1005	1006	1006	1007	1008	1008	1009	1009	1009	1001	1004.3
22	1009	1009	1009	1009	1010	1010	1009	1010	1010	1010	1011	1011	1011	1011	1010	1009	1009	1008	1008	1008	1007	1006	1005	1004	1011	1004	1008.8
23	1003	1003	1002	1001	1000	999	1000	998	998	998	999	999	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1003	998	1000.0
24	1000	1000	999	1000	1000	1000	1001	1001	1002	1003	1003	1003	1003	1004	1004	1004	1004	1004	1004	1004	1005	1005	1005	1005	1005	999	1002.6
25	1005	1005	1005	1004	1005	1005	1004	1004	1004	1004	1004	1004	1003	1003	1003	1003	1003	1003	1003	1003	1004	1004	1004	1005	1005	1003	1004.0
26	1005	1005	1006	1006	1007	1007	1007	1008	1009	1009	1010	1010	1011	1011	1011	1011	1011	1012	1012	1013	1014	1015	1015	1016	1016	1005	1010.0
27	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1020	1020	1019	1019	1019	1018	1018	1018	1018	1018	1017	1017	1017	1017	1020	1017	1018.1
28	1016	1015	1015	1015	1014	1014	1014	1012	1012	1012	1012	1011	1010	1010	1009	1008	1008	1006	1005	1006	1005	1005	1004	1004	1016	1004	1010.0
29	1004	1004	1003	1003	1002	1001	1002	1002	1002	1002	1002	1002	1002	1002	1001	1002	1002	1002	1001	1002	1002	1002	1002	1002	1004	1001	1002.0
30	1002	1002	1002	1002	1002	1002	1003	1003	1003	1003	1004	1004	1004	1004	1004	1004	1004	1004	1005	1005	1006	1006	1006	1007	1007	1002	1003.8
31	1007	1007	1007	1007	1007	1007	1007	1007	1007	1008	1008	1008	1008	1008	1008	1008	1008	1008	1009	1009	1009	1009	1009	1009	1009	1007	1007.8
Max.	**1025**	**1025**	**1025**	**1025**	**1025**	**1025**	**1025**	**1025**	**1026**	**1026**	**1026**	**1026**	**1026**	**1026**	**1026**	**1026**	**1025**	**1025**	**1025**	**1025**	**1025**	**1025**	**1025**	**1025**	**1026**		
Min.	**1000**	**1000**	**999**	**1000**	**1000**	**999**	**1000**	**998**	**998**	**998**	**999**	**999**	**999**	**1000**	**1000**	**1000**	**1000**	**1000**	**1000**	**1000**	**1000**	**1000**	**1000**	**1000**		**998**	
Avg.	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1012**	**1012**	**1012**	**1012**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**			**1011.3**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1009	1009	1009	1011	1009	1009.9
2	1009	1009	1009	1009	1008	1008	1008	1008	1008	1008	1008	1007	1007	1007	1007	1007	1006	1006	1006	1006	1006	1006	1005	1005	1009	1005	1007.2
3	1005	1005	1005	1005	1005	1005	1005	1004	1004	1004	1004	1004	1003	1003	1002	1002	1001	1000	1000	999	999	998	998	998	1005	998	1002.5
4	998	998	998	998	998	998	998	998	999	999	999	1000	1000	1001	1001	1001	1001	1002	1002	1002	1003	1003	1003	1003	1003	998	1000.0
5	1004	1003	1003	1003	1003	1003	1003	1003	1003	1003	1002	1002	1002	1002	1001	1001	1001	1001	1000	999	999	998	997	997	1004	997	1001.4
6	997	997	997	997	996	996	997	997	997	997	997	997	997	998	998	999	999	999	999	999	1000	1000	1000	1001	1001	996	997.9
7	1002	1002	1003	1003	1004	1004	1005	1005	1006	1007	1008	1008	1009	1010	1010	1011	1011	1012	1013	1014	1015	1015	1016	1017	1017	1002	1008.7
8	1018	1019	1019	1019	1019	1020	1020	1020	1020	1020	1021	1021	1021	1021	1020	1020	1020	1021	1020	1020	1020	1020	1020	1020	1021	1018	1019.9
9	1019	1019	1017	1016	1016	1015	1014	1014	1013	1013	1012	1012	1011	1011	1009	1009	1008	1008	1008	1008	1008	1008	1009	1009	1019	1008	1011.8
10	1010	1011	1012	1013	1013	1014	1015	1016	1015	1016	1017	1017	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1010	1015.4
11	1016	1017	1017	1017	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1013	1012	1012	1012	1012	1012	1012	1011	1017	1011	1014.2
12	1010	1010	1009	1009	1009	1009	1008	1009	1009	1010	1010	1009	1011	1011	1011	1011	1011	1010	1010	1011	1012	1013	1014	1014	1014	1008	1010.4
13	1015	1016	1016	1017	1016	1017	1017	1017	1017	1017	1017	1018	1017	1017	1017	1016	1017	1016	1016	1015	1015	1015	1016	1015	1018	1015	1016.3
14	1016	1015	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016	1016	1015	1015	1015	1015	1015	1015	1014	1017	1014	1015.8
15	1014	1013	1012	1011	1011	1010	1009	1009	1008	1009	1008	1008	1008	1007	1006	1005	1005	1004	1003	1003	1003	1003	1002	1002	1014	1002	1007.2
16	1002	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1002	1001	1001	1001	1001	1001	1001	1001	1000	1000	1000	999	999	1002	999	1000.8
17	999	998	998	997	996	996	995	995	995	994	994	994	994	994	995	994	995	995	995	995	995	995	995	995	999	994	995.2
18	995	995	995	995	994	994	994	994	994	994	994	994	994	993	993	993	993	993	993	993	994	994	995	995	995	993	993.9
19	996	996	996	997	997	998	998	998	999	999	1000	1001	1001	1002	1003	1003	1004	1004	1006	1006	1007	1008	1008	1009	1009	996	1001.5
20	1010	1011	1012	1012	1013	1014	1015	1015	1016	1016	1017	1017	1018	1018	1018	1019	1019	1020	1020	1020	1020	1021	1021	1021	1021	1010	1016.8
21	1021	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1022	1019	1020.9
22	1018	1018	1017	1017	1017	1016	1016	1015	1015	1014	1014	1013	1012	1011	1009	1009	1008	1007	1007	1008	1008	1008	1008	1008	1018	1007	1012.2
23	1009	1009	1009	1009	1009	1008	1008	1007	1007	1007	1005	1005	1005	1004	1002	1001	1000	997	995	994	992	994	994	995	1009	992	1002.7
24	997	997	999	1000	1001	1002	1002	1002	1003	1004	1005	1005	1005	1006	1006	1007	1007	1007	1008	1008	1009	1009	1009	1010	1010	997	1004.5
25	1010	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1015	1014	1015	1010	1012.3
26	1014	1014	1014	1013	1013	1013	1013	1013	1013	1012	1012	1011	1011	1010	1008	1007	1006	1004	1003	1002	1001	999	998	996	1014	996	1008.3
27	995	994	992	990	988	986	985	984	983	981	980	979	978	976	975	974	975	974	975	975	975	976	976	976	995	974	980.9
28	976	975	975	976	977	977	977	978	979	980	981	981	982	982	983	983	983	984	984	985	986	986	986	987	987	975	980.9
29	987	987	988	988	989	989	989	989	990	990	991	991	991	991	990	991	991	991	991	991	991	991	991	991	991	987	989.9
30	991	991	991	991	991	991	990	991	991	991	991	991	991	991	990	990	990	991	991	991	991	991	992	992	992	990	990.9
Max.	**1021**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1021**	**1020**	**1020**	**1021**	**1020**	**1020**	**1020**	**1021**	**1021**	**1021**	**1022**		
Min.	**976**	**975**	**975**	**976**	**977**	**977**	**977**	**978**	**979**	**980**	**980**	**979**	**978**	**976**	**975**	**974**	**975**	**974**	**975**	**975**	**975**	**976**	**976**	**976**		**974**	
Avg.	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1005**	**1004**	**1004**	**1004**	**1004**	**1004**	**1005**	**1005**			**1005.0**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	992	992	993	993	993	994	995	996	997	997	999	1000	1001	1001	1002	1003	1004	1005	1006	1007	1007	1008	1009	1010	1010	992	1000.2
2	1010	1011	1011	1012	1012	1012	1013	1013	1014	1014	1014	1015	1014	1014	1014	1014	1014	1014	1015	1015	1015	1014	1015	1015	1015	1010	1013.4
3	1015	1015	1015	1014	1014	1013	1013	1012	1012	1011	1011	1010	1010	1009	1009	1008	1008	1008	1007	1007	1008	1007	1008	1007	1015	1007	1010.4
4	1008	1007	1006	1006	1005	1005	1004	1004	1004	1004	1003	1002	1001	1000	999	998	997	996	994	993	993	992	991	990	1008	990	1000.1
5	989	988	988	987	986	985	984	984	984	983	983	984	984	984	984	985	985	986	986	987	988	988	989	990	990	983	985.8
6	991	991	992	993	993	994	995	995	996	996	997	997	997	997	997	997	997	997	996	996	997	996	996	996	997	991	995.3
7	996	996	995	995	995	994	994	994	994	994	994	995	995	995	994	994	994	994	995	994	994	995	995	994	996	994	994.6
8	995	994	994	994	994	994	993	993	993	993	993	994	994	993	993	993	993	993	994	994	993	994	994	993	995	993	993.6
9	993	993	993	993	992	992	991	991	990	990	990	990	989	988	988	987	987	987	986	986	985	985	985	985	993	985	989.0
10	985	986	985	985	986	986	985	986	986	987	987	987	987	988	987	988	988	988	988	988	988	988	988	988	988	985	986.8
11	988	988	988	988	987	987	987	987	987	987	987	987	987	987	986	987	987	987	988	988	987	988	988	988	988	986	987.3
12	988	989	989	989	989	989	990	991	991	991	992	993	993	993	994	994	994	995	996	996	996	996	997	998	998	988	992.6
13	998	999	1000	1000	1001	1001	1002	1003	1004	1005	1006	1006	1007	1007	1008	1009	1009	1010	1010	1011	1012	1012	1013	1013	1013	998	1006.1
14	1013	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1014	1014	1014	1013	1013	1013	1012	1012	1012	1012	1012	1011	1011	1015	1011	1013.1
15	1010	1009	1008	1008	1007	1006	1006	1005	1005	1005	1005	1005	1005	1004	1004	1004	1004	1004	1004	1004	1005	1005	1005	1005	1010	1004	1005.4
16	1005	1005	1005	1004	1005	1005	1005	1006	1005	1006	1006	1006	1006	1006	1005	1005	1004	1004	1004	1004	1003	1002	1002	1001	1006	1001	1004.4
17	1000	999	997	996	995	994	993	992	990	989	989	988	987	987	987	988	988	989	989	990	991	991	991	991	1000	987	991.1
18	991	991	991	992	993	994	995	996	997	998	998	999	1000	1000	1000	1001	1001	1002	1001	1001	1002	1001	1001	1001	1002	991	997.7
19	1000	999	998	998	998	998	998	998	999	999	999	999	999	999	999	999	999	1000	999	999	999	999	999	998	1000	998	998.9
20	999	998	998	998	998	997	997	997	997	997	997	996	995	995	994	993	992	992	991	991	991	990	989	989	999	989	994.7
21	988	988	987	987	986	986	985	985	985	985	984	984	984	984	983	983	983	984	983	983	983	983	983	983	988	983	984.5
22	981	981	980	979	979	978	977	977	977	976	976	975	975	976	976	976	977	977	978	978	978	978	979	980	981	975	977.7
23	979	979	979	979	979	978	979	979	978	978	979	979	979	980	981	981	982	984	985	987	988	989	990	991	991	978	981.7
24	992	993	994	994	995	995	996	996	997	998	998	997	998	997	997	996	996	995	994	995	995	995	995	994	998	992	995.6
25	995	995	994	994	994	994	994	994	995	995	995	995	995	994	994	994	995	995	995	995	996	996	996	997	997	994	994.8
26	997	997	998	998	999	999	1000	1001	1001	1001	1002	1002	1002	1003	1003	1003	1004	1004	1005	1005	1005	1006	1006	1006	1006	997	1001.9
27	1006	1006	1006	1005	1005	1005	1005	1005	1004	1004	1004	1004	1003	1003	1002	1002	1001	1001	1001	1000	1000	999	999	998	1006	998	1002.7
28	998	997	997	997	996	996	996	995	996	995	995	995	995	995	994	994	994	994	994	994	994	994	994	995	998	994	995.3
29	995	995	995	995	995	995	995	996	996	997	997	998	998	998	998	999	999	1000	1000	1001	1001	1002	1003	1003	1003	995	997.8
30	1003	1003	1003	1003	1004	1004	1004	1005	1005	1006	1006	1006	1007	1007	1007	1007	1007	1008	1008	1009	1009	1009	1010	1010	1010	1003	1006.2
31	1010	1010	1010	1010	1010	1010	1010	1010	1009	1009	1009	1009	1009	1009	1008	1007	1007	1007	1007	1007	1007	1007	1006	1006	1010	1006	1008.4
Max.	**1015**	**1015**	**1015**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1015**	**1015**	**1015**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1015**	**1015**	**1015**	**1014**	**1015**	**1015**	**1015**		
Min.	**979**	**979**	**979**	**979**	**979**	**978**	**977**	**977**	**977**	**976**	**976**	**975**	**975**	**976**	**976**	**976**	**977**	**977**	**978**	**978**	**978**	**978**	**979**	**980**		**975**	
Avg.	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**997**	**998**	**998**			**997.0**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1005	1005	1004	1004	1003	1002	1002	1002	1002	1002	1001	1001	1001	1001	1000	1000	1000	1000	999	999	999	999	999	999	1005	999	1001.3
2	999	999	999	998	998	998	998	998	998	998	998	998	997	997	996	996	996	996	995	995	995	995	995	995	999	995	997.0
3	995	994	994	994	994	994	994	994	994	995	995	996	996	996	997	996	997	998	999	999	1000	1000	1001	1002	1002	994	996.5
4	1002	1003	1003	1003	1003	1003	1003	1004	1004	1005	1005	1006	1005	1005	1006	1006	1006	1006	1006	1007	1007	1007	1008	1008	1008	1002	1005.1
5	1009	1009	1009	1010	1010	1010	1011	1011	1012	1013	1013	1013	1012	1012	1012	1013	1013	1014	1014	1014	1015	1014	1014	1014	1015	1009	1012.1
6	1013	1012	1010	1008	1006	1004	1002	1001	1000	1001	1001	1002	1001	1003	1004	1004	1004	1004	1003	1003	1003	1003	1003	1003	1013	1000	1004.1
7	1003	1002	1001	1000	1000	999	998	997	996	995	994	994	993	992	991	990	990	990	989	989	989	989	988	988	1003	988	994.0
8	987	987	986	986	985	984	983	983	982	982	982	981	980	980	979	979	978	978	978	977	977	977	976	976	987	976	980.9
9	976	975	975	975	974	974	974	974	975	975	975	975	975	975	975	975	975	976	976	977	977	978	979	979	979	974	975.5
10	980	980	980	981	981	982	982	983	983	984	985	985	986	986	987	987	988	989	990	990	992	992	993	993	993	980	985.8
11	994	994	994	995	995	995	996	996	996	997	997	998	998	998	998	998	999	999	999	1000	1000	1001	1001	1002	1002	994	997.5
12	1003	1003	1003	1003	1003	1004	1004	1005	1006	1006	1007	1008	1008	1008	1008	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1003	1006.7
13	1011	1011	1011	1012	1012	1012	1013	1014	1014	1015	1016	1016	1017	1017	1017	1018	1019	1019	1019	1020	1020	1020	1021	1021	1021	1011	1016.0
14	1021	1021	1021	1020	1019	1019	1018	1017	1016	1016	1015	1015	1013	1011	1010	1009	1008	1007	1006	1006	1005	1004	1003	1003	1021	1003	1012.6
15	1003	1002	1002	1002	1003	1003	1003	1004	1004	1004	1005	1005	1005	1005	1006	1006	1006	1006	1007	1006	1007	1006	1006	1006	1007	1002	1004.7
16	1006	1004	1003	1002	1000	999	998	996	996	996	996	996	995	994	994	993	992	992	991	990	990	989	988	988	1006	988	995.3
17	988	988	987	987	986	986	986	987	988	989	989	990	991	992	993	994	994	995	995	995	996	996	995	995	996	986	990.9
18	994	993	991	989	986	984	981	979	976	975	974	973	972	970	969	969	969	970	971	974	976	977	978	979	994	969	977.9
19	980	982	983	983	985	986	986	988	989	991	993	994	996	997	998	999	1000	1002	1003	1004	1005	1006	1007	1008	1008	980	994.3
20	1008	1008	1008	1008	1007	1007	1006	1006	1005	1005	1004	1002	1001	1001	1000	1000	1000	1000	1000	1000	999	999	999	999	1008	999	1003.0
21	998	998	997	997	997	996	996	996	996	996	996	996	997	997	996	996	997	998	997	997	998	998	998	999	999	996	996.8
22	999	999	999	999	999	999	999	999	999	999	998	998	996	995	994	994	992	991	989	988	987	985	985	983	999	983	994.4
23	982	982	981	980	980	980	979	981	982	983	984	986	990	991	991	992	994	995	996	995	996	996	996	995	996	979	987.8
24	994	993	993	991	990	989	988	988	986	987	984	983	983	983	982	982	982	983	984	985	986	987	987	988	994	982	986.6
25	989	989	990	991	991	991	993	994	994	996	997	997	998	999	1000	1001	1001	1003	1003	1004	1005	1006	1006	1007	1007	989	997.7
26	1007	1008	1009	1009	1009	1010	1011	1012	1013	1014	1014	1015	1015	1016	1016	1017	1018	1019	1019	1020	1021	1021	1022	1022	1022	1007	1014.8
27	1023	1023	1024	1024	1025	1025	1025	1025	1026	1026	1027	1027	1027	1027	1027	1027	1027	1027	1028	1028	1028	1028	1028	1029	1029	1023	1026.3
28	1029	1029	1029	1029	1029	1029	1029	1029	1030	1030	1030	1030	1030	1030	1030	1030	1029	1029	1029	1029	1029	1028	1028	1028	1030	1028	1029.2
29	1028	1028	1027	1026	1026	1025	1025	1024	1024	1024	1024	1023	1023	1023	1022	1022	1021	1022	1022	1022	1022	1022	1022	1022	1028	1021	1023.8
30	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1020	1020	1019	1019	1018	1018	1018	1018	1018	1017	1017	1017	1022	1017	1019.9
Max.	**1029**	**1029**	**1029**	**1029**	**1029**	**1029**	**1029**	**1029**	**1030**	**1030**	**1030**	**1030**	**1030**	**1030**	**1030**	**1030**	**1029**	**1029**	**1029**	**1029**	**1029**	**1028**	**1028**	**1029**	**1030**		
Min.	**976**	**975**	**975**	**975**	**974**	**974**	**974**	**974**	**975**	**975**	**974**	**973**	**972**	**970**	**969**	**969**	**969**	**970**	**971**	**974**	**976**	**977**	**976**	**976**		**969**	
Avg.	**1002**	**1001**	**1001**	**1001**	**1001**	**1000**	**1000**	**1000**	**1000**	**1001**	**1001**	**1001**	**1001**	**1001**	**1001**	**1001**	**1001**	**1001**	**1001**	**1001**	**1002**	**1002**	**1002**	**1002**			**1000.9**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1015	1014	1013	1013	1012	1012	1012	1011	1011	1011	1010	1010	1017	1010	1013.9
2	1009	1009	1009	1008	1007	1007	1006	1006	1006	1006	1007	1006	1006	1006	1005	1005	1005	1005	1004	1004	1005	1005	1004	1005	1009	1004	1005.9
3	1005	1006	1008	1007	1007	1008	1008	1008	1009	1009	1010	1010	1010	1010	1010	1010	1010	1011	1011	1012	1012	1013	1014	1015	1015	1005	1009.6
4	1015	1016	1016	1016	1016	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1015	1017.9
5	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1015	1015	1014	1013	1012	1011	1010	1009	1008	1007	1005	1004	1004	1002	1018	1002	1012.5
6	1001	1000	1000	999	998	997	996	995	996	996	996	996	996	997	997	997	998	998	998	998	997	997	997	996	1001	995	997.3
7	996	994	992	989	987	984	983	982	980	978	977	975	973	971	971	970	969	969	970	970	970	970	971	972	996	969	977.5
8	972	973	974	975	976	978	979	979	980	982	983	984	984	985	985	985	986	986	986	986	986	987	988	988	988	972	981.9
9	988	988	988	988	987	987	987	986	985	984	983	983	982	982	982	982	983	984	985	986	987	988	989	990	990	982	985.7
10	991	992	992	993	994	994	995	996	996	997	998	999	999	1000	1000	1000	1001	1001	1001	1001	1002	1001	1001	1001	1002	991	997.7
11	1000	999	998	998	998	998	998	999	999	999	1000	1001	1001	1001	1002	1002	1003	1004	1004	1002	1004	1004	1004	1005	1005	998	1000.9
12	1005	1006	1006	1007	1008	1010	1010	1011	1012	1013	1014	1015	1014	1015	1016	1015	1016	1017	1017	1017	1018	1018	1018	1018	1018	1005	1013.2
13	1018	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1017	1015	1015	1014	1013	1013	1012	1011	1011	1010	1009	1019	1009	1015.8
14	1008	1007	1006	1004	1003	1001	1000	998	998	997	995	993	991	990	990	989	989	989	989	990	990	990	990	990	1008	989	995.4
15	991	991	991	989	988	986	985	983	982	980	981	980	979	979	979	978	979	978	978	979	979	980	980	981	991	978	982.3
16	980	980	980	981	981	982	982	983	983	983	983	984	984	984	984	985	985	986	987	988	989	989	990	991	991	980	984.4
17	992	993	993	993	994	995	995	996	997	997	998	999	999	1000	1001	1003	1004	1004	1004	1005	1005	1006	1007	1007	1007	992	999.4
18	1006	1005	1005	1005	1005	1006	1007	1007	1008	1009	1010	1011	1011	1011	1011	1011	1011	1010	1010	1010	1009	1009	1009	1009	1011	1005	1008.4
19	1008	1007	1007	1007	1007	1006	1006	1006	1006	1006	1006	1005	1005	1004	1004	1004	1003	1003	1003	1002	1002	1001	1000	1000	1008	1000	1004.5
20	998	998	996	995	994	993	992	991	990	989	988	987	986	985	984	983	982	982	981	980	980	979	979	979	998	979	987.1
21	978	978	978	978	977	977	977	977	977	978	978	978	978	978	978	978	978	978	977	978	978	978	978	978	978	977	977.7
22	979	979	980	980	980	981	981	981	982	983	983	984	984	984	984	984	985	985	986	986	987	987	988	988	988	979	983.5
23	988	989	989	989	989	989	989	990	990	990	990	990	990	990	990	990	990	990	989	989	989	989	989	989	990	988	989.5
24	989	989	988	987	986	986	985	984	984	983	983	982	982	981	980	979	979	978	978	978	978	978	978	979	989	978	982.3
25	979	979	979	979	980	980	980	980	980	980	981	980	980	980	979	978	978	978	977	977	977	977	977	978	981	977	979.0
26	978	978	979	979	980	979	979	979	979	979	980	980	981	980	980	981	981	982	982	982	982	982	982	982	982	978	980.2
27	981	981	981	980	980	980	979	979	979	980	979	979	978	978	977	978	978	977	977	977	978	979	979	980	981	977	978.9
28	980	980	979	980	980	980	980	980	980	980	979	978	978	977	977	976	976	975	975	975	975	975	975	974	980	974	977.6
29	974	974	974	975	975	976	977	978	979	980	980	980	979	978	978	978	978	978	979	978	977	977	977	976	980	974	977.2
30	975	974	973	973	972	971	970	970	969	969	968	968	967	967	967	967	968	968	968	969	969	969	969	969	975	967	969.5
31	970	970	970	971	971	971	971	972	972	973	973	973	973	973	973	973	973	974	974	974	974	974	975	975	975	970	972.5
Max.	**1018**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1018**	**1018**	**1018**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**	**1019**		
Min.	**970**	**970**	**970**	**971**	**971**	**971**	**970**	**970**	**969**	**969**	**968**	**968**	**967**	**967**	**967**	**967**	**968**	**968**	**968**	**969**	**969**	**969**	**969**	**969**		**967**	
Avg.	**993**	**993**	**993**	**993**	**993**	**993**	**992**	**992**	**992**	**992**	**993**	**992**	**992**	**992**	**992**	**992**	**992**	**992**	**992**	**992**	**992**	**992**	**992**	**992**			**992.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	975	975	975	976	976	977	977	977	977	977	978	978	978	978	978	977	978	978	978	978	978	978	978	979	979	975	977.2
2	979	979	979	979	979	980	980	981	981	982	983	983	984	984	984	985	985	987	988	989	990	991	991	993	993	979	984.0
3	993	994	995	996	996	997	997	998	999	1000	1000	1001	1001	1002	1002	1002	1003	1003	1003	1004	1004	1005	1005	1006	1006	993	1000.3
4	1006	1006	1007	1007	1007	1007	1007	1008	1008	1008	1009	1009	1008	1008	1008	1008	1008	1008	1007	1007	1006	1005	1005	1004	1009	1004	1007.1
5	1003	1002	1001	1001	1000	999	998	998	997	997	997	996	995	995	994	993	993	993	993	993	993	993	994	994	1003	993	996.3
6	994	994	994	994	994	994	994	994	994	995	995	995	995	995	995	995	995	995	995	995	995	994	994	994	995	994	994.6
7	994	994	993	993	992	991	990	989	988	988	988	988	987	987	987	987	987	986	985	985	985	984	984	984	994	984	988.1
8	983	983	982	983	983	983	983	983	983	983	984	983	983	983	983	983	982	982	982	982	982	982	982	982	984	982	982.6
9	982	982	982	982	981	981	982	981	981	982	982	982	982	982	982	982	983	983	983	983	983	983	983	984	984	981	982.3
10	984	984	984	984	984	985	985	985	986	986	987	987	987	987	988	989	989	989	990	990	990	991	991	992	992	984	987.2
11	992	993	993	993	994	994	995	995	995	996	996	997	997	997	997	997	997	998	998	999	999	999	1000	1000	1000	992	996.3
12	1000	1001	1001	1001	1001	1002	1002	1002	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1000	1002.3
13	1002	1003	1003	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1001	1002	1002	1002	1002	1002	1002	1002	1003	1001	1001.9
14	1002	1002	1002	1002	1002	1002	1002	1001	1002	1002	1001	1001	1001	1000	1000	1000	1000	1000	1000	1000	999	999	999	999	1002	999	1000.7
15	999	999	999	998	998	998	998	998	998	998	997	998	997	997	997	997	997	997	997	997	997	997	997	997	999	997	997.6
16	997	997	997	997	996	996	996	996	996	996	997	996	996	997	996	996	997	997	997	997	997	996	996	996	997	996	996.4
17	996	996	996	996	995	995	995	995	995	996	996	996	996	996	995	996	997	997	997	998	998	999	999	1000	1000	995	996.5
18	1001	1001	1001	1002	1002	1002	1002	1003	1003	1003	1004	1004	1004	1005	1005	1005	1005	1005	1005	1005	1006	1006	1007	1007	1007	1001	1003.8
19	1007	1007	1008	1008	1008	1007	1008	1008	1008	1009	1009	1009	1009	1009	1009	1009	1009	1008	1008	1008	1008	1008	1007	1007	1009	1007	1008.1
20	1007	1006	1006	1005	1004	1004	1003	1003	1002	1002	1002	1002	1001	1000	999	998	997	997	996	995	995	994	993	991	1007	991	1000.0
21	990	988	987	985	984	983	981	981	980	980	979	979	978	977	976	975	975	974	974	974	975	975	976	976	990	974	979.2
22	979	980	980	982	983	987	988	988	990	991	993	993	994	995	997	998	1000	1000	1001	1002	1003	1005	1007	1008	1008	979	993.5
23	1009	1010	1011	1013	1013	1014	1015	1016	1016	1017	1018	1018	1018	1019	1018	1018	1018	1018	1019	1019	1018	1018	1018	1018	1019	1009	1016.3
24	1018	1017	1017	1016	1016	1015	1015	1014	1013	1013	1013	1012	1012	1011	1010	1010	1009	1008	1008	1007	1006	1006	1006	1005	1018	1005	1011.5
25	1004	1004	1003	1002	1001	1001	999	999	999	999	998	998	997	997	997	997	998	998	998	999	999	1000	1000	1001	1004	997	999.5
26	1001	1001	1002	1002	1002	1002	1003	1003	1003	1004	1003	1003	1003	1003	1003	1002	1002	1002	1001	1001	1001	1001	1001	1001	1004	1001	1002.1
27	1001	1001	1002	1002	1001	1001	1002	1000	1000	1000	1001	1000	1000	1000	1000	1000	999	1000	1000	999	999	998	998	998	1002	998	1000.2
28	996	995	995	994	993	991	991	991	991	990	990	991	991	990	991	991	991	991	991	992	992	992	993	993	996	990	991.9
29	993	993	993	993	993	993	993	993	993	993	993	993	993	993	993	993	992	992	992	992	992	992	991	991	993	991	992.6
30	991	991	990	990	989	988	988	987	987	986	987	986	986	985	985	985	985	984	984	984	984	984	983	983	991	983	986.3
31	983	983	983	983	982	982	981	981	981	981	981	981	980	980	979	979	979	979	978	978	978	977	977	977	983	977	980.0
Max.	**1018**	**1017**	**1017**	**1016**	**1016**	**1015**	**1015**	**1016**	**1016**	**1017**	**1018**	**1018**	**1018**	**1019**	**1018**	**1018**	**1018**	**1018**	**1019**	**1019**	**1018**	**1018**	**1018**	**1018**	**1019**		
Min.	**975**	**975**	**975**	**976**	**976**	**977**	**977**	**977**	**977**	**977**	**978**	**978**	**978**	**977**	**976**	**975**	**975**	**974**	**974**	**974**	**975**	**975**	**976**	**976**		**974**	
Avg.	**996**	**996**	**995**	**995**	**995**	**995**	**995**	**995**	**995**	**995**	**996**	**996**	**996**	**995**	**995**	**995**	**995**	**995**	**995**	**995**	**995**	**995**	**996**	**996**			**995.4**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	977	976	976	976	976	976	976	976	976	977	977	978	978	978	979	979	981	981	983	983	983	984	985	986	986	976	979.1
2	987	988	989	990	990	991	992	993	994	995	995	997	997	998	998	999	999	1000	1000	1000	1001	1002	1001	1002	1002	987	995.6
3	1003	1003	1003	1003	1004	1004	1004	1004	1005	1005	1006	1006	1006	1007	1006	1006	1006	1006	1006	1005	1005	1005	1005	1005	1007	1003	1004.8
4	1004	1003	1003	1002	1001	1001	1001	1000	1000	999	998	997	997	996	995	994	993	993	993	992	992	991	990	989	1004	989	996.8
5	988	988	988	987	986	985	984	982	982	981	981	981	981	981	980	979	978	976	975	972	971	970	970	970	988	970	979.7
6	970	969	968	967	966	963	963	963	963	964	965	967	968	970	973	975	976	977	978	979	980	982	983	985	985	963	971.3
7	985	986	986	987	987	988	989	989	990	992	992	993	994	995	996	997	998	999	1001	1002	1004	1005	1007	1008	1008	985	994.6
8	1009	1010	1011	1010	1008	1007	1005	1004	1004	1004	1007	1009	1012	1014	1015	1016	1017	1020	1021	1020	1020	1020	1018	1018	1021	1004	1012.5
9	1016	1015	1013	1011	1008	1005	1002	999	997	995	994	993	991	991	992	992	993	994	996	997	999	1001	1002	1002	1016	991	1000.0
10	1001	1000	999	997	996	994	991	990	988	988	989	990	992	992	994	996	997	998	999	999	1000	1001	1001	1000	1001	988	995.5
11	999	998	996	994	993	992	991	990	988	988	987	986	985	984	984	983	984	985	985	985	985	985	986	987	999	983	988.4
12	987	987	988	988	988	989	989	991	992	994	994	995	998	999	1000	1002	1003	1005	1007	1007	1008	1009	1010	1011	1011	987	997.6
13	1013	1014	1015	1017	1018	1019	1021	1022	1023	1025	1026	1028	1028	1029	1029	1030	1032	1032	1033	1034	1034	1035	1035	1036	1036	1013	1026.1
14	1037	1037	1038	1038	1038	1038	1038	1039	1039	1040	1040	1040	1039	1039	1038	1038	1038	1038	1038	1038	1037	1036	1037	1036	1040	1036	1037.8
15	1036	1035	1035	1034	1034	1035	1034	1034	1034	1034	1033	1034	1034	1034	1033	1032	1032	1033	1033	1034	1034	1034	1035	1035	1036	1032	1033.9
16	1035	1036	1036	1036	1037	1037	1038	1038	1038	1039	1040	1040	1040	1040	1040	1039	1039	1039	1039	1039	1039	1038	1038	1037	1040	1035	1038.2
17	1036	1035	1034	1033	1032	1031	1030	1030	1029	1030	1029	1029	1028	1027	1027	1027	1026	1026	1026	1026	1025	1025	1025	1025	1036	1025	1028.7
18	1025	1025	1024	1024	1024	1024	1024	1024	1023	1023	1023	1023	1022	1021	1020	1020	1019	1019	1019	1018	1018	1018	1018	1018	1025	1018	1021.3
19	1018	1018	1018	1018	1018	1019	1019	1020	1021	1020	1020	1021	1021	1022	1022	1022	1021	1022	1022	1022	1023	1022	1023	1023	1023	1018	1020.5
20	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1019	1020	1021	1022	1022	1023	1023	1023	1019	1021.4
21	1023	1024	1025	1025	1025	1025	1026	1027	1029	1029	1030	1031	1030	1031	1031	1031	1032	1032	1032	1032	1032	1032	1032	1032	1032	1023	1029.1
22	1032	1032	1032	1032	1032	1032	1031	1031	1030	1030	1031	1031	1031	1031	1032	1031	1031	1031	1031	1030	1030	1029	1028	1028	1032	1028	1030.7
23	1027	1027	1026	1025	1025	1024	1024	1023	1023	1022	1023	1023	1023	1024	1024	1024	1025	1025	1026	1027	1027	1028	1028	1029	1029	1022	1025.0
24	1030	1030	1030	1030	1030	1031	1031	1032	1032	1032	1033	1033	1033	1033	1033	1032	1033	1033	1033	1033	1033	1033	1033	1033	1033	1030	1031.9
25	1033	1032	1031	1031	1030	1029	1028	1026	1025	1024	1023	1022	1021	1019	1018	1017	1017	1018	1018	1018	1018	1018	1019	1020	1033	1017	1023.1
26	1019	1018	1018	1017	1017	1017	1017	1017	1016	1015	1015	1014	1013	1012	1011	1009	1008	1007	1005	1004	1003	1001	1000	998	1019	998	1011.3
27	996	995	994	992	992	992	992	992	992	992	993	993	994	994	995	995	996	997	998	999	1000	1001	1002	1003	1003	992	995.3
28	1004	1005	1005	1006	1006	1007	1008	1009	1010	1011	1012	1012	1013	1013	1014	1015	1014	1015	1016	1016	1016	1016	1017	1017	1017	1004	1011.5
Max.	**1037**	**1037**	**1038**	**1038**	**1038**	**1038**	**1038**	**1039**	**1039**	**1040**	**1040**	**1040**	**1040**	**1040**	**1040**	**1039**	**1039**	**1039**	**1039**	**1039**	**1039**	**1038**	**1038**	**1037**	**1040**		
Min.	**970**	**969**	**968**	**967**	**966**	**963**	**963**	**963**	**963**	**964**	**965**	**967**	**968**	**970**	**973**	**975**	**976**	**976**	**975**	**972**	**971**	**970**	**970**	**970**		**963**	
Avg.	**1011**	**1011**	**1011**	**1010**	**1010**	**1010**	**1010**	**1009**	**1009**	**1010**	**1010**	**1010**	**1010**	**1010**	**1011**	**1011**	**1011**	**1011**	**1012**	**1012**	**1012**	**1012**	**1012**	**1013**			**1010.8**

Total Hours in Month 672 **Hours Data Available** 672 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1018	1019	1020	1020	1020	1021	1021	1022	1022	1022	1022	1021	1021	1021	1020	1020	1019	1019	1018	1018	1017	1016	1016	1016	1022	1016	1019.5
2	1016	1015	1015	1014	1013	1012	1012	1011	1010	1010	1009	1009	1008	1007	1006	1006	1005	1005	1005	1005	1005	1005	1005	1005	1016	1005	1008.8
3	1006	1006	1006	1007	1007	1007	1008	1008	1008	1009	1009	1010	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011	1011	1006	1009.0
4	1010	1010	1010	1010	1009	1009	1008	1008	1008	1008	1008	1007	1006	1006	1005	1005	1005	1004	1003	1003	1002	1002	1001	1001	1010	1001	1006.1
5	1000	999	999	998	997	997	997	997	997	997	996	996	997	997	997	997	997	997	997	997	998	999	999	999	1000	996	997.5
6	999	1000	1000	1000	1000	1000	1000	1000	1001	1000	1000	1000	999	999	998	998	997	997	997	997	996	996	996	996	1001	996	998.5
7	995	995	995	994	994	993	993	993	993	993	992	992	992	992	991	990	990	989	988	988	988	988	987	987	995	987	991.3
8	987	988	988	988	989	988	988	990	992	992	994	991	991	992	993	993	992	995	996	996	997	1000	1002	1002	1002	987	992.6
9	1004	1005	1005	1007	1010	1012	1012	1014	1015	1015	1017	1017	1018	1018	1019	1020	1020	1020	1020	1021	1022	1022	1023	1024	1024	1004	1015.9
10	1024	1025	1026	1026	1026	1026	1027	1027	1026	1026	1026	1026	1026	1025	1024	1024	1024	1023	1023	1023	1022	1021	1021	1021	1027	1021	1024.4
11	1020	1020	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1017	1017	1016	1016	1015	1015	1015	1014	1014	1014	1014	1013	1020	1013	1016.8
12	1013	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1013	1013	1014	1014	1015	1016	1016	1011	1012.1
13	1016	1017	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1020	1016	1018.2
14	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1017	1017	1017	1017	1017	1018	1016	1017.5
15	1016	1016	1016	1016	1016	1015	1015	1015	1015	1014	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1016	1014	1014.9
16	1015	1014	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1015	1015	1014	1015	1014	1014.3
17	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1012	1012	1011	1011	1010	1010	1010	1010	1010	1010	1010	1009	1014	1009	1011.8
18	1008	1008	1007	1007	1006	1006	1005	1005	1004	1003	1003	1002	1001	1001	1000	1001	1001	1001	1001	1001	1001	1001	1001	1000	1008	1000	1002.9
19	1000	1000	1000	999	999	999	998	997	996	996	995	994	994	993	992	992	991	991	991	991	991	991	991	991	1000	991	994.6
20	991	991	991	991	991	992	992	992	993	993	994	993	994	994	994	994	994	994	994	995	995	995	995	996	996	991	993.3
21	997	997	998	998	999	1000	1001	1002	1003	1004	1004	1005	1006	1006	1007	1007	1008	1008	1009	1009	1010	1010	1010	1010	1010	997	1004.3
22	1009	1009	1009	1008	1008	1008	1008	1007	1007	1007	1007	1007	1008	1008	1009	1009	1010	1010	1011	1012	1013	1013	1014	1014	1014	1007	1009.4
23	1015	1015	1015	1015	1015	1015	1016	1015	1016	1015	1015	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1011	1011	1011	1016	1011	1013.8
24	1011	1011	1010	1010	1010	1009	1009	1009	1008	1008	1008	1008	1008	1008	1007	1007	1007	1006	1006	1006	1006	1006	1006	1006	1011	1006	1007.8
25	1006	1006	1006	1006	1006	1006	1006	1006	1006	1005	1005	1006	1006	1005	1005	1005	1005	1005	1005	1005	1005	1006	1006	1006	1006	1005	1005.4
26	1006	1007	1007	1007	1007	1008	1008	1009	1009	1009	1010	1010	1011	1011	1011	1011	1011	1012	1012	1013	1013	1014	1014	1014	1014	1006	1010.1
27	1014	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1016	1014	1015.0
28	1015	1014	1014	1013	1013	1012	1012	1011	1011	1011	1011	1011	1010	1010	1009	1009	1008	1008	1007	1007	1007	1007	1007	1006	1015	1006	1010.1
29	1006	1006	1006	1006	1006	1006	1006	1007	1007	1007	1008	1008	1008	1008	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1008	1006	1006.8
30	1007	1006	1006	1006	1005	1005	1005	1004	1004	1004	1003	1003	1002	1002	1002	1001	1000	1000	999	999	999	998	997	998	1007	997	1002.2
31	997	996	996	995	995	995	995	994	994	994	994	994	994	994	994	994	994	995	995	996	997	998	998	999	999	994	995.2
Max.	**1024**	**1025**	**1026**	**1026**	**1026**	**1026**	**1027**	**1027**	**1026**	**1026**	**1026**	**1026**	**1026**	**1025**	**1024**	**1024**	**1024**	**1023**	**1023**	**1023**	**1022**	**1022**	**1023**	**1024**	**1027**		
Min.	**987**	**988**	**988**	**988**	**989**	**988**	**988**	**990**	**992**	**992**	**992**	**991**	**991**	**992**	**991**	**990**	**990**	**989**	**988**	**988**	**988**	**988**	**987**	**987**		**987**	
Avg.	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1008**	**1007**	**1007**	**1007**	**1007**	**1007**	**1007**	**1007**	**1008**	**1008**			**1007.7**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	999	1000	1000	1001	1001	1002	1003	1004	1004	1005	1005	1006	1007	1007	1008	1008	1009	1009	1010	1010	1011	1011	1011	1012	1012	999	1005.9
2	1012	1013	1013	1013	1013	1014	1014	1014	1014	1014	1015	1014	1014	1014	1014	1013	1013	1013	1013	1012	1012	1011	1011	1010	1015	1010	1013.0
3	1010	1009	1008	1007	1006	1005	1004	1003	1003	1002	1001	1000	999	999	998	998	997	997	997	997	997	997	996	996	1010	996	1001.1
4	996	996	996	996	996	996	996	996	996	996	997	997	998	998	998	999	999	999	1000	1001	1001	1001	1001	1002	1002	996	998.1
5	1002	1002	1002	1002	1002	1002	1003	1002	1003	1003	1003	1004	1004	1004	1004	1004	1003	1003	1003	1003	1005	1004	1005	1005	1005	1002	1003.1
6	1005	1005	1005	1005	1005	1005	1005	1005	1005	1006	1006	1006	1006	1006	1006	1006	1006	1007	1008	1008	1009	1009	1010	1010	1010	1005	1006.4
7	1010	1011	1011	1011	1011	1011	1012	1012	1012	1012	1013	1013	1013	1013	1012	1012	1012	1011	1011	1011	1011	1010	1009	1009	1013	1009	1011.4
8	1008	1008	1007	1006	1006	1005	1004	1004	1003	1003	1002	1002	1002	1002	1001	1001	1000	1001	1000	1000	1001	1001	1001	1002	1008	1000	1002.9
9	1002	1002	1001	1002	1002	1002	1001	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1003	1003	1003	1003	1004	1004	1004	1004	1001	1002.3
10	1005	1005	1006	1006	1007	1007	1007	1008	1008	1009	1010	1010	1011	1011	1010	1010	1011	1011	1012	1012	1012	1013	1014	1015	1015	1005	1009.5
11	1014	1015	1015	1014	1013	1014	1013	1012	1011	1010	1010	1008	1007	1006	1004	1003	1001	1000	998	998	997	996	996	995	1015	995	1006.2
12	994	994	993	993	993	992	992	992	991	991	991	990	989	989	989	988	988	987	987	986	986	986	986	985	994	985	989.7
13	985	986	986	986	986	986	986	986	987	987	988	987	987	987	986	987	987	988	989	990	990	990	990	990	990	985	987.4
14	990	991	991	991	991	992	993	993	994	994	995	995	996	996	997	997	997	997	997	998	998	999	999	999	999	990	995.0
15	1000	1000	1000	1001	1001	1002	1002	1003	1003	1004	1004	1005	1005	1005	1005	1005	1005	1006	1006	1005	1005	1005	1004	1004	1006	1000	1003.5
16	1003	1002	1001	1000	999	998	997	996	995	994	994	993	991	990	988	987	986	984	983	982	982	981	980	980	1003	980	991.1
17	979	978	977	978	980	980	981	981	982	982	983	985	985	986	986	987	987	988	988	989	990	991	991	992	992	977	984.4
18	993	993	994	994	995	995	996	997	997	998	998	999	1000	1000	1000	1001	1001	1001	1002	1002	1003	1003	1004	1004	1004	993	998.8
19	1004	1005	1005	1005	1006	1006	1006	1006	1006	1007	1007	1007	1007	1007	1008	1007	1007	1007	1007	1007	1007	1007	1007	1007	1008	1004	1006.4
20	1007	1007	1007	1006	1006	1006	1006	1006	1005	1005	1005	1005	1005	1005	1005	1004	1004	1004	1004	1004	1003	1003	1002	1002	1007	1002	1004.8
21	1001	1001	1000	1000	999	998	998	998	998	998	998	998	999	999	1000	1000	1000	1000	1000	1001	1001	1001	1001	1002	1002	998	999.5
22	1001	1001	1001	1001	1001	1001	1001	1001	1001	1002	1002	1002	1002	1003	1003	1004	1004	1005	1006	1007	1007	1008	1009	1009	1009	1001	1003.4
23	1009	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	1010	1010	1009	1009	1008	1007	1006	1005	1004	1004	1003	1002	1001	1011	1001	1007.8
24	1000	1000	999	999	998	998	997	997	997	997	997	998	998	998	999	999	1000	1000	1001	1002	1003	1004	1004	1005	1005	997	999.6
25	1005	1005	1006	1006	1006	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1005	1006.7
26	1007	1007	1006	1006	1006	1006	1006	1005	1005	1005	1005	1005	1005	1005	1004	1004	1003	1003	1002	1002	1002	1002	1002	1001	1007	1001	1004.3
27	1001	1001	1000	1000	999	999	998	998	998	997	997	996	996	995	994	993	992	992	991	991	991	990	990	990	1001	990	995.4
28	990	990	991	991	992	993	994	995	996	997	998	999	999	1000	1001	1001	1001	1002	1002	1002	1003	1003	1004	1004	1004	990	997.8
29	1004	1004	1005	1005	1005	1005	1005	1006	1006	1006	1007	1007	1007	1007	1007	1007	1007	1007	1008	1008	1008	1008	1008	1009	1009	1004	1006.5
30	1009	1009	1009	1010	1010	1010	1010	1011	1011	1011	1011	1012	1012	1012	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1009	1011.6
Max.	**1014**	**1015**	**1015**	**1014**	**1013**	**1014**	**1014**	**1014**	**1014**	**1014**	**1015**	**1014**	**1014**	**1014**	**1014**	**1013**	**1013**	**1013**	**1013**	**1013**	**1014**	**1014**	**1014**	**1015**	**1015**		
Min.	**979**	**978**	**977**	**978**	**980**	**980**	**981**	**981**	**982**	**982**	**983**	**985**	**985**	**986**	**986**	**987**	**986**	**984**	**983**	**982**	**982**	**981**	**980**	**980**		**977**	
Avg.	**1002**	**1002**	**1001**	**1001**	**1001**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**	**1002**			**1001.8**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

May 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1014	1014	1014	1014	1013	1013	1013	1012	1012	1011	1011	1011	1010	1010	1009	1009	1008	1008	1008	1007	1007	1007	1006	1006	1014	1006	1010.2
2	1006	1006	1006	1006	1006	1007	1007	1007	1008	1008	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1010	1011	1011	1011	1011	1006	1008.4
3	1010	1010	1010	1009	1009	1008	1007	1007	1006	1005	1004	1002	1001	1000	999	998	998	997	996	996	995	995	995	994	1010	994	1002.2
4	995	995	995	996	996	996	996	996	995	995	994	995	994	995	995	994	994	994	993	993	992	992	991	990	996	990	994.1
5	989	989	989	988	987	987	986	986	986	986	986	986	986	987	987	987	986	986	985	985	985	986	985	985	989	985	986.5
6	985	985	985	986	986	986	987	987	988	988	989	989	990	990	991	991	991	991	991	992	993	993	993	994	994	985	989.2
7	995	995	996	996	997	997	997	998	998	998	999	999	1000	1000	1001	1000	1001	1001	1001	1001	1002	1003	1003	1003	1003	995	999.1
8	1003	1003	1004	1004	1005	1005	1005	1006	1006	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1006	1006	1006	1007	1007	1007	1003	1005.9
9	1006	1006	1006	1006	1006	1006	1006	1006	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1006	1006.6
10	1007	1007	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008	1009	1009	1009	1009	1010	1010	1010	1010	1011	1011	1012	1012	1012	1007	1009.0
11	1012	1012	1012	1013	1013	1013	1013	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1012	1014.3
12	1017	1017	1018	1018	1019	1019	1020	1020	1020	1021	1021	1022	1022	1022	1022	1023	1023	1023	1023	1023	1024	1024	1025	1025	1025	1017	1021.2
13	1025	1026	1026	1026	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1026	1026	1026	1026	1025	1025	1025	1025	1025	1027	1025	1026.2
14	1025	1024	1023	1023	1023	1023	1023	1023	1022	1023	1023	1023	1023	1024	1024	1024	1024	1025	1025	1026	1026	1027	1028	1028	1028	1022	1024.1
15	1028	1028	1029	1029	1029	1029	1029	1029	1029	1029	1028	1028	1028	1027	1027	1027	1026	1026	1025	1024	1024	1023	1023	1022	1029	1022	1026.7
16	1021	1020	1020	1020	1019	1019	1018	1017	1017	1017	1016	1016	1015	1015	1014	1013	1013	1012	1012	1012	1011	1011	1011	1011	1021	1011	1015.4
17	1011	1011	1011	1011	1010	1011	1010	1011	1011	1011	1011	1012	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1010	1012.0
18	1014	1014	1014	1014	1014	1015	1014	1015	1014	1014	1014	1014	1014	1015	1016	1016	1015	1016	1016	1016	1017	1017	1017	1018	1018	1014	1015.1
19	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1016	1016	1015	1015	1014	1013	1012	1012	1011	1010	1010	1010	1009	1008	1018	1008	1014.3
20	1008	1007	1006	1006	1005	1004	1004	1003	1003	1002	1001	1001	1001	1001	1000	1000	1001	1001	1002	1003	1004	1005	1005	1006	1008	1000	1003.3
21	1006	1006	1006	1006	1007	1007	1007	1008	1008	1008	1008	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1009	1006	1008.1
22	1009	1009	1009	1009	1009	1009	1009	1008	1009	1008	1008	1008	1008	1007	1007	1006	1006	1006	1005	1005	1005	1006	1005	1005	1009	1005	1007.4
23	1005	1006	1006	1006	1006	1007	1007	1008	1009	1009	1010	1010	1010	1010	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	1013	1005	1009.3
24	1013	1013	1013	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1013	1014.9
25	1016	1016	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1016	1017.6
26	1018	1018	1018	1018	1018	1019	1019	1019	1018	1019	1019	1019	1018	1018	1018	1017	1016	1016	1016	1015	1015	1015	1014	1014	1019	1014	1017.3
27	1014	1014	1014	1014	1013	1013	1013	1012	1012	1012	1011	1011	1010	1010	1009	1009	1008	1008	1008	1008	1008	1008	1009	1009	1014	1008	1010.7
28	1009	1009	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1011	1012	1012	1009	1010.0
29	1012	1012	1013	1013	1014	1014	1014	1015	1015	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1017	1012	1015.4
30	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1014	1017	1014	1016.0
31	1014	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1014	1012	1012.4
Max.	**1028**	**1028**	**1029**	**1029**	**1029**	**1029**	**1029**	**1029**	**1029**	**1029**	**1028**	**1028**	**1028**	**1027**	**1027**	**1027**	**1026**	**1026**	**1026**	**1026**	**1026**	**1027**	**1028**	**1028**	**1029**		
Min.	**985**	**985**	**985**	**986**	**986**	**986**	**986**	**986**	**986**	**986**	**986**	**986**	**986**	**987**	**987**	**987**	**986**	**986**	**985**	**985**	**985**	**986**	**985**	**985**		**985**	
Avg.	**1010**	**1010**	**1010**	**1010**	**1010**	**1010**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1011**	**1010**	**1010**	**1010**	**1010**	**1010**	**1010**	**1010**	**1010**	**1010**			**1010.4**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1012	1012	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1011	1011	1010	1010	1010	1010	1009	1009	1012	1009	1011.2
2	1009	1009	1008	1008	1008	1008	1008	1008	1007	1007	1007	1007	1007	1006	1006	1006	1006	1005	1005	1005	1005	1006	1006	1006	1009	1005	1006.8
3	1006	1006	1006	1007	1007	1008	1008	1009	1009	1009	1010	1010	1009	1010	1009	1009	1009	1009	1009	1009	1009	1009	1010	1011	1011	1006	1008.6
4	1011	1011	1012	1012	1013	1013	1013	1013	1013	1013	1014	1014	1014	1013	1013	1013	1013	1013	1012	1012	1012	1013	1013	1013	1014	1011	1012.7
5	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1013	1012	1012.6
6	1012	1012	1012	1012	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1012	1013.4
7	1016	1016	1015	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1015	1016.8
8	1018	1018	1017	1017	1017	1017	1017	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1012	1011	1010	1011	1011	1010	1009	1018	1009	1014.2
9	1008	1007	1007	1006	1005	1005	1004	1004	1004	1004	1004	1004	1004	1005	1005	1005	1005	1007	1007	1008	1008	1009	1009	1009	1009	1004	1005.8
10	1010	1010	1010	1010	1011	1011	1011	1012	1013	1014	1014	1015	1015	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1017	1018	1010	1014.3
11	1017	1017	1017	1017	1017	1017	1016	1016	1017	1016	1016	1015	1015	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1012	1017	1012	1014.9
12	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1011	1011.6
13	1013	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1011	1011	1011	1011	1010	1011	1010	1010	1010	1010	1010	1010	1010	1013	1010	1011.3
14	1009	1009	1009	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008	1007	1007	1007	1006	1006	1006	1005	1005	1005	1004	1009	1004	1007.2
15	1004	1004	1003	1003	1003	1004	1003	1003	1002	1002	1002	1002	1002	1002	1002	1003	1002	1002	1002	1001	1001	1001	1000	1000	1004	1000	1002.2
16	1000	1000	999	999	999	999	999	999	999	999	999	1000	1000	1001	1001	1001	1002	1002	1002	1002	1002	1002	1002	1002	1002	999	1000.4
17	1002	1002	1002	1003	1003	1003	1004	1004	1004	1004	1005	1006	1006	1007	1007	1007	1007	1007	1007	1008	1008	1008	1008	1009	1009	1002	1005.5
18	1009	1008	1009	1009	1009	1009	1009	1009	1009	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1008	1010.1
19	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1010	1011	1011	1010	1010	1010	1012	1013	1013	1013	1014	1014	1014	1014	1010	1011.5
20	1014	1014	1015	1015	1014	1015	1015	1015	1015	1015	1016	1017	1018	1019	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1020	1014	1017.0
21	1019	1019	1018	1018	1017	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1015	1015	1015	1015	1014	1014	1014	1014	1019	1014	1016.2
22	1014	1014	1014	1015	1015	1016	1016	1017	1017	1018	1018	1019	1019	1020	1020	1020	1020	1020	1021	1021	1021	1021	1022	1022	1022	1014	1018.4
23	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1024	1024	1024	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1024	1022	1022.9
24	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1020	1024	1020	1021.7
25	1020	1019	1020	1020	1019	1019	1019	1020	1020	1021	1021	1021	1021	1021	1021	1022	1021	1021	1021	1022	1022	1022	1022	1022	1022	1019	1020.7
26	1022	1022	1022	1023	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022	1021	1021	1021	1023	1021	1022.2
27	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1017	1017	1017	1017	1018	1020	1017	1018.8
28	1018	1019	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019	1018	1018.2
29	1018	1018	1019	1019	1019	1019	1020	1020	1020	1021	1021	1021	1022	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1018	1021.2
30	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1024	1024	1024	1024	1024	1023	1023	1023	1023	1023	1024	1022	1022.8
Max.	**1024**	**1024**	**1023**	**1023**	**1023**	**1023**	**1023**	**1023**	**1023**	**1023**	**1023**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1023**	**1023**	**1024**	**1024**	**1024**	**1024**		
Min.	**1000**	**1000**	**999**	**999**	**999**	**999**	**999**	**999**	**999**	**999**	**999**	**1000**	**1000**	**1001**	**1001**	**1001**	**1002**	**1002**	**1002**	**1001**	**1001**	**1001**	**1000**	**1000**		**999**	
Avg.	**1013**	**1013**	**1013**	**1013**	**1013**	**1013**	**1013**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**	**1014**			**1013.7**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Barometric Pressure (mbar)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1023	1023	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1023	1023	1023	1022	1022	1021	1021	1021	1021	1024	1021	1023.2
2	1021	1021	1020	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1019	1019	1018	1018	1017	1017	1017	1017	1018	1018	1021	1017	1019.5
3	1018	1018	1019	1018	1018	1019	1019	1020	1019	1020	1020	1020	1020	1020	1021	1021	1021	1020	1020	1020	1020	1021	1021	1021	1021	1018	1019.8
4	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1021	1022	1022	1022	1022	1021	1021.4
5	1022	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1019	1019	1018	1018	1017	1017	1017	1017	1017	1016	1016	1022	1016	1019.2
6	1016	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1016	1013	1013.7
7	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1016	1014	1015.1
8	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1014	1015	1015	1015	1015	1014	1014.3
9	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1015	1013	1014.0
10	1012	1012	1011	1011	1010	1010	1009	1009	1009	1009	1009	1008	1008	1008	1008	1008	1007	1007	1007	1007	1006	1006	1006	1006	1012	1006	1008.4
11	1006	1006	1006	1005	1005	1005	1005	1005	1005	1004	1005	1005	1005	1005	1006	1006	1006	1006	1006	1006	1006	1007	1007	1007	1007	1004	1005.5
12	1007	1007	1007	1006	1006	1006	1005	1006	1005	1005	1005	1005	1005	1005	1004	1004	1003	1002	1002	1003	1003	1003	1003	1003	1007	1002	1004.5
13	1003	1003	1003	1003	1004	1004	1005	1006	1006	1006	1006	1007	1006	1006	1006	1007	1007	1006	1006	1006	1007	1007	1008	1008	1008	1003	1005.8
14	1008	1009	1008	1008	1008	1008	1007	1008	1008	1008	1008	1008	1008	1008	1008	1009	1008	1008	1009	1009	1008	1009	1009	1010	1010	1007	1008.3
15	1010	1010	1010	1010	1010	1011	1011	1011	1012	1012	1013	1013	1013	1014	1014	1015	1015	1016	1016	1017	1017	1018	1018	1018	1018	1010	1013.4
16	1018	1019	1018	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1022	1018	1020.3
17	1021	1020	1020	1020	1020	1020	1019	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1021	1018	1019.4
18	1018	1018	1017	1017	1017	1017	1017	1016	1016	1017	1017	1016	1016	1016	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1018	1014	1015.8
19	1014	1014	1013	1012	1012	1012	1012	1012	1011	1011	1011	1011	1011	1010	1010	1010	1009	1009	1008	1008	1008	1008	1008	1007	1014	1007	1010.4
20	1007	1006	1006	1006	1005	1005	1005	1005	1005	1005	1005	1005	1005	1005	1005	1006	1006	1006	1007	1008	1009	1010	1010	1010	1010	1005	1006.2
21	1010	1010	1010	1011	1011	1011	1012	1012	1012	1012	1013	1013	1014	1014	1014	1015	1015	1015	1014	1014	1014	1014	1015	1015	1015	1010	1012.9
22	1015	1014	1014	1014	1013	1012	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1012	1012	1013	1013	1013	1013	1015	1012	1012.9
23	1013	1012	1012	1012	1011	1011	1010	1009	1009	1008	1006	1006	1005	1004	1003	1003	1003	1001	1000	1001	1000	1000	1000	1000	1013	1000	1005.8
24	999	999	999	999	998	998	998	998	998	998	998	998	998	999	999	999	999	999	999	999	999	999	998	998	999	998	998.7
25	998	998	997	997	998	998	998	998	998	998	998	999	999	999	999	999	1000	1000	1000	1001	1002	1002	1003	1004	1004	997	999.2
26	1005	1005	1006	1006	1007	1008	1009	1009	1010	1010	1011	1012	1013	1013	1014	1014	1015	1016	1016	1016	1017	1017	1018	1019	1019	1005	1011.8
27	1019	1020	1020	1021	1021	1021	1021	1022	1022	1022	1022	1022	1023	1022	1022	1022	1022	1022	1022	1021	1022	1021	1021	1021	1023	1019	1021.4
28	1021	1021	1020	1020	1020	1019	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1018	1018	1017	1017	1017	1017	1021	1017	1019.2
29	1017	1016	1016	1016	1015	1015	1015	1014	1013	1013	1013	1013	1013	1013	1014	1013	1013	1013	1012	1012	1012	1012	1011	1010	1017	1010	1013.5
30	1010	1009	1009	1008	1007	1007	1006	1005	1004	1004	1004	1004	1003	1002	1002	1001	1001	1000	1000	1000	1001	1001	1001	1002	1010	1000	1003.7
31	1002	1002	1003	1003	1004	1004	1004	1004	1004	1004	1004	1004	1005	1005	1005	1005	1005	1005	1006	1005	1006	1006	1006	1007	1007	1002	1004.5
Max.	**1023**	**1023**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1024**	**1023**	**1023**	**1023**	**1022**	**1022**	**1022**	**1022**	**1022**	**1022**	**1024**		
Min.	**998**	**998**	**997**	**997**	**998**	**998**	**998**	**998**	**998**	**998**	**998**	**998**	**998**	**999**	**999**	**999**	**999**	**999**	**999**	**999**	**999**	**999**	**998**	**998**		**997**	
Avg.	**1013**	**1013**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**	**1012**			**1012.3**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.7	1.4	2.3	1.6	1.0	0.6	0.6	0.9	1.0	0.8	1.4	1.3	2.8	2.4	1.7	3.0	2.8	1.4	1.9	1.6	2.0	2.1	1.6	2.6	3.7	0.6	1.8
2	2.6	2.4	2.8	2.4	3.2	3.6	3.8	4.4	4.2	4.5	4.5	4.7	5.1	5.6	5.2	5.6	6.6	7.2	6.9	7.3	5.7	6.6	5.5	6.8	7.3	2.4	4.9
3	6.2	6.7	6.1	6.5	6.0	5.7	4.8	2.5	1.3	1.2	1.3	1.6	1.4	2.6	2.4	1.6	1.9	1.2	1.1	1.2	1.6	1.6	2.2	2.2	6.7	1.1	3.0
4	1.3	0.8	1.0	1.2	1.3	2.0	2.4	1.8	2.4	1.5	1.3	1.5	2.1	3.0	3.7	3.0	4.3	4.1	1.9	0.9	1.6	2.5	4.2	4.0	4.3	0.8	2.2
5	5.6	6.2	6.2	6.8	7.1	6.9	6.3	6.1	5.1	4.7	4.2	3.7	2.4	3.5	2.3	1.0	2.4	5.1	6.0	5.2	4.4	4.5	6.1	7.2	7.2	1.0	5.0
6	8.1	6.9	6.9	7.4	7.4	7.0	7.2	5.9	5.2	3.7	1.5	1.2	1.3	1.7	2.3	1.2	4.5	2.7	1.3	1.4	1.6	2.3	2.8	4.6	8.1	1.2	4.0
7	3.0	2.0	1.9	2.1	1.5	2.8	5.3	5.8	6.0	6.8	6.2	6.3	5.4	5.2	4.2	4.9	4.4	4.5	4.0	4.7	4.2	2.4	3.1	3.1	6.8	1.5	4.2
8	2.9	2.8	2.7	2.0	2.2	2.6	2.6	3.2	2.7	2.0	2.8	3.3	3.2	3.2	3.4	3.4	3.4	2.5	1.9	1.2	0.8	0.7	1.5	2.0	3.4	0.7	2.5
9	1.5	1.6	1.4	1.2	1.5	1.0	3.6	3.5	1.6	3.3	4.0	4.5	4.4	4.2	3.6	3.7	3.5	2.8	2.1	1.8	1.7	1.4	2.2	1.6	4.5	1.0	2.6
10	2.4	5.0	2.1	1.3	0.9	1.5	4.7	4.9	3.0	3.2	3.1	3.6	4.6	3.9	4.0	4.0	4.0	3.8	2.3	1.3	1.1	0.8	0.8	0.9	5.0	0.8	2.8
11	0.8	0.9	0.6	0.8	0.9	0.8	1.6	2.4	2.2	2.0	2.5	3.2	3.0	2.6	3.2	3.2	2.6	2.0	1.5	0.9	1.0	3.0	2.4	1.7	3.2	0.6	1.9
12	1.6	1.2	0.8	1.1	2.0	2.0	0.9	0.9	1.0	3.1	2.5	3.1	3.3	3.4	3.2	3.2	3.0	2.0	1.8	2.0	1.5	2.3	3.0	2.2	3.4	0.8	2.1
13	1.0	1.6	1.0	1.8	2.0	1.5	1.7	1.4	2.8	2.3	1.4	1.5	3.5	2.9	2.2	2.8	3.2	3.5	3.5	2.6	1.7	1.8	2.7	2.4	3.5	1.0	2.2
14	1.8	2.1	2.3	2.2	2.0	2.3	2.0	1.5	1.9	2.1	2.8	2.2	2.1	2.3	3.0	3.1	3.0	3.1	2.8	2.5	1.6	1.2	1.9	1.6	3.1	1.2	2.2
15	1.5	1.5	1.4	1.4	1.6	1.0	1.5	1.6	1.4	2.5	1.3	1.8	1.6	1.2	2.6	2.1	3.0	3.3	3.0	1.9	1.7	2.1	2.2	2.1	3.3	1.0	1.9
16	1.4	2.8	3.2	1.7	1.4	3.7	3.9	4.7	3.7	4.1	2.4	2.3	3.3	3.3	3.1	3.2	2.1	1.6	1.3	1.9	3.1	3.0	2.1	2.1	4.7	1.3	2.7
17	2.3	4.5	5.0	4.8	4.9	5.5	6.6	7.4	7.7	7.5	7.0	7.7	7.0	7.2	7.7	7.9	8.8	9.1	7.8	7.5	6.6	5.8	6.3	6.2	9.1	2.3	6.6
18	5.2	5.6	5.5	5.7	5.4	4.8	5.4	6.3	5.8	2.8	3.4	2.8	3.6	3.5	2.9	3.1	2.7	2.2	1.9	1.7	1.1	1.2	0.6	0.7	6.3	0.6	3.5
19	1.1	1.5	0.8	1.1	1.3	3.6	3.4	3.4	2.6	1.8	1.2	1.6	2.3	2.2	2.0	3.0	4.1	4.9	3.4	3.1	4.3	6.1	4.7	4.8	6.1	0.8	2.8
20	2.8	2.9	8.4	8.1	5.0	4.2	4.8	3.6	4.5	4.0	3.4	3.6	4.8	3.8	5.7	3.8	3.9	3.4	3.1	2.5	7.2	9.5	11.9	6.9	11.9	2.5	5.1
21	5.6	6.7	10.5	8.7	8.5	12.4	10.7	11.1	10.0	6.1	4.2	5.2	5.0	3.8	3.4	2.9	2.6	3.3	1.8	1.6	1.4	1.6	1.9	1.4	12.4	1.4	5.4
22	1.3	2.0	1.6	1.3	3.2	3.9	3.6	4.3	4.3	2.4	2.5	2.5	2.2	1.8	3.3	5.6	4.4	4.4	4.3	4.3	5.9	6.0	4.9	5.4	6.0	1.3	3.6
23	5.8	5.6	6.1	6.0	5.7	5.3	4.2	3.2	2.7	5.9	3.4	5.4	4.2	2.0	3.2	2.8	3.5	1.7	0.7	1.8	2.1	1.8	1.2	2.1	6.1	0.7	3.6
24	2.4	1.5	1.8	3.3	3.2	2.9	1.9	1.7	1.6	1.1	1.1	4.6	4.9	5.8	3.8	4.6	3.6	7.1	8.2	8.1	5.6	3.1	2.9	4.1	8.2	1.1	3.7
25	4.0	3.9	4.3	5.5	4.4	5.3	5.8	5.3	3.6	4.7	3.3	1.5	3.2	3.8	4.1	3.2	2.8	2.6	1.9	1.3	1.2	0.9	1.0	2.7	5.8	0.9	3.3
26	3.0	1.1	1.8	2.9	2.5	3.2	2.2	3.0	3.9	3.5	2.3	2.8	3.1	2.9	5.6	4.1	5.2	2.5	2.1	3.2	4.6	6.3	6.8	8.1	8.1	1.1	3.6
27	9.2	9.0	9.3	7.6	3.5	4.7	4.6	4.4	4.1	3.7	2.7	3.2	3.7	4.2	2.7	3.4	5.0	4.7	6.2	6.4	6.7	7.0	9.3	8.3	9.3	2.7	5.6
28	6.8	3.2	3.1	2.2	1.8	1.4	1.6	1.0	2.5	1.4	0.6	0.9	2.6	2.3	1.5	1.4	4.0	4.4	8.9	11.3	9.6	10.5	12.6	10.6	12.6	0.6	4.4
29	8.8	7.6	8.6	7.6	7.4	9.6	8.9	5.2	4.6	8.0	6.7	7.9	8.1	7.6	6.4	8.2	6.6	5.8	8.4	5.5	4.7	5.4	5.2	4.0	9.6	4.0	6.9
30	4.3	5.6	4.8	4.4	6.0	4.8	5.8	4.8	3.7	3.3	2.6	2.2	3.8	3.5	4.1	3.1	6.2	6.5	4.3	4.6	7.2	8.5	7.9	7.2	8.5	2.2	5.0
31	6.8	6.7	7.8	7.7	6.5	6.5	3.7	5.0	6.8	6.0	5.7	5.6	4.5	4.1	4.6	5.5	5.7	3.8	3.7	5.0	6.7	8.0	8.1	7.7	8.1	3.7	5.9
Max.	**9.2**	**9.0**	**10.5**	**8.7**	**8.5**	**12.4**	**10.7**	**11.1**	**10.0**	**8.0**	**7.0**	**7.9**	**8.1**	**7.6**	**7.7**	**8.2**	**8.8**	**9.1**	**8.9**	**11.3**	**9.6**	**10.5**	**12.6**	**10.6**	**12.6**		
Min.	**0.8**	**0.8**	**0.6**	**0.8**	**0.9**	**0.6**	**0.6**	**0.9**	**1.0**	**0.8**	**0.6**	**0.9**	**1.3**	**1.2**	**1.5**	**1.0**	**1.9**	**1.2**	**0.7**	**0.9**	**0.8**	**0.7**	**0.6**	**0.7**		**0.6**	
Avg.	**3.7**	**3.6**	**3.9**	**3.8**	**3.6**	**4.0**	**4.1**	**3.9**	**3.7**	**3.5**	**3.0**	**3.3**	**3.6**	**3.5**	**3.6**	**3.6**	**4.0**	**3.8**	**3.5**	**3.4**	**3.5**	**3.9**	**4.2**	**4.1**			**3.7**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.8	6.0	4.2	3.5	3.3	2.7	5.4	5.4	5.7	5.7	4.3	2.4	4.5	6.1	3.6	4.0	6.2	6.4	7.5	5.3	3.7	5.2	7.3	5.1	7.5	2.4	5.0
2	3.2	2.8	3.3	3.2	3.5	2.8	2.3	3.4	3.3	3.1	1.8	1.8	1.7	2.7	3.0	3.5	3.1	1.5	1.5	2.1	2.6	2.6	2.2	2.6	3.5	1.5	2.6
3	2.8	1.6	1.4	2.5	2.6	2.3	3.5	4.9	5.0	5.6	5.5	5.4	6.2	6.4	6.5	6.8	7.6	8.2	8.3	8.6	8.4	8.8	8.5	8.1	8.8	1.4	5.6
4	6.9	6.6	6.5	6.8	7.1	7.6	7.0	6.7	6.5	6.0	5.7	5.6	5.2	4.2	3.6	2.9	1.8	2.0	3.6	5.0	3.2	1.6	0.9	1.8	7.6	0.9	4.8
5	1.8	1.8	1.6	1.4	2.3	2.7	2.1	3.8	3.8	4.5	4.5	3.2	2.0	1.9	1.7	2.3	1.9	1.8	2.5	3.7	4.7	4.8	5.0	4.6	5.0	1.4	2.9
6	4.8	4.6	3.5	3.4	2.4	2.7	2.0	1.4	1.5	4.9	8.1	7.4	8.9	8.8	6.8	5.1	2.3	5.1	1.7	6.0	6.6	8.0	5.5	4.1	8.9	1.4	4.8
7	7.3	6.2	7.8	7.8	5.4	5.2	6.7	6.7	8.6	7.2	5.7	4.0	3.0	4.8	2.5	4.4	2.8	3.2	4.0	4.5	5.4	4.5	5.0	7.0	8.6	2.5	5.4
8	6.6	8.8	8.2	8.4	8.8	7.6	6.1	4.8	5.7	4.9	3.2	1.4	1.8	1.6	1.9	1.8	1.8	1.9	1.7	1.3	1.8	2.7	4.5	2.6	8.8	1.3	4.2
9	3.4	5.3	6.9	7.2	6.7	6.4	5.8	4.5	4.9	4.6	5.9	4.8	4.1	3.4	2.7	2.1	1.6	3.8	4.5	2.8	1.4	1.8	3.1	4.2	7.2	1.4	4.2
10	5.7	5.3	4.6	7.9	7.5	8.6	8.7	8.7	9.5	6.8	5.7	6.9	6.1	4.8	2.2	2.2	4.7	3.1	0.9	1.9	1.4	0.9	1.9	2.1	9.5	0.9	4.9
11	2.0	3.7	3.5	3.5	4.3	4.0	4.2	2.7	2.1	2.4	3.5	3.8	5.0	4.9	5.1	5.9	4.3	4.7	4.6	3.9	2.8	2.3	2.3	2.6	5.9	2.0	3.7
12	1.9	1.3	2.2	4.0	3.5	6.4	7.5	4.7	3.4	3.9	9.1	11.2	9.8	6.8	7.4	8.1	10.3	8.8	13.3	14.3	12.0	12.5	7.7	9.4	14.3	1.3	7.5
13	10.6	8.9	10.4	4.2	3.4	4.1	3.1	6.8	4.7	4.3	4.5	2.9	2.2	3.9	5.4	6.1	6.7	6.2	5.3	6.8	6.8	3.4	5.4	4.4	10.6	2.2	5.4
14	4.2	5.3	3.0	1.6	1.6	1.7	1.7	2.0	3.4	3.2	1.4	1.1	1.3	2.3	2.5	4.8	4.4	4.1	3.9	3.2	3.1	2.4	2.8	3.0	5.3	1.1	2.8
15	3.7	3.4	3.4	3.7	1.8	2.6	2.8	2.4	2.3	3.7	3.3	4.2	2.9	2.8	2.4	1.9	2.0	2.1	1.8	2.5	5.2	4.0	3.9	4.6	5.2	1.8	3.1
16	4.3	4.2	3.5	6.6	6.5	6.2	5.4	4.3	6.4	6.6	6.5	4.5	4.3	5.5	5.3	4.2	4.9	5.4	2.7	1.3	1.6	1.3	1.9	2.9	6.6	1.3	4.4
17	4.7	4.8	3.7	2.8	3.6	3.2	3.2	3.4	3.1	3.9	3.6	4.1	3.9	3.3	1.8	1.0	1.0	1.5	1.9	0.9	1.8	1.4	3.4	5.8	5.8	0.9	3.0
18	6.4	6.6	7.2	7.7	7.3	7.2	7.6	5.6	4.7	4.0	4.8	4.4	3.8	3.8	4.6	4.9	5.2	4.1	4.9	4.4	4.7	4.7	3.5	4.4	7.7	3.5	5.3
19	3.8	4.6	5.2	4.4	5.8	7.4	8.0	7.4	8.0	6.9	4.8	4.9	3.4	3.3	2.9	3.1	4.3	3.5	4.9	5.4	6.0	7.0	7.6	7.5	8.0	2.9	5.4
20	8.2	8.7	8.3	8.1	7.7	7.3	5.6	5.1	5.4	5.1	3.5	3.8	3.9	6.3	6.0	3.5	4.4	4.3	3.7	4.9	5.0	4.8	3.0	4.4	8.7	3.0	5.4
21	5.6	6.0	6.5	6.3	6.4	5.4	4.9	4.7	2.1	1.7	2.1	2.9	2.0	1.1	1.0	1.4	3.4	3.9	3.6	3.3	2.6	1.4	1.5	2.1	6.5	1.0	3.4
22	2.2	2.0	3.2	4.9	4.7	5.2	5.8	5.8	3.8	3.7	3.9	3.0	2.9	2.2	2.6	2.0	2.8	4.0	4.0	4.0	2.5	2.2	2.6	1.8	5.8	1.8	3.4
23	3.3	3.0	3.2	1.9	1.5	1.4	1.8	0.6	1.4	0.9	2.3	4.9	3.5	1.7	2.0	2.2	2.3	2.4	2.5	3.3	4.2	17.3	11.4	17.0	17.3	0.6	4.0
24	16.0	17.7	13.2	11.9	9.5	6.6	7.7	9.1	9.0	8.6	7.0	8.0	7.7	11.2	6.5	6.5	7.4	5.6	7.5	6.8	7.1	4.9	6.7	6.6	17.7	4.9	8.7
25	7.7	8.0	9.3	10.4	10.7	10.9	8.7	10.0	9.1	9.1	7.7	8.4	7.9	8.2	8.4	6.3	6.8	5.6	7.3	7.2	3.3	2.1	3.9	3.1	10.9	2.1	7.5
26	1.6	2.1	2.2	1.3	1.9	3.8	5.6	4.8	3.6	3.3	3.9	4.3	3.2	2.9	5.6	6.1	6.5	7.6	7.5	7.5	8.0	7.6	8.4	10.1	10.1	1.3	5.0
27	11.5	11.3	11.9	12.1	12.1	12.9	14.1	13.1	13.2	13.7	13.5	14.0	14.2	13.4	13.1	13.5	12.0	9.6	9.3	10.0	7.8	7.3	7.1	6.6	14.2	6.6	11.6
28	6.2	5.8	5.7	5.7	4.4	2.5	2.5	3.8	1.2	1.9	1.8	0.6	1.2	1.2	1.2	3.2	4.7	2.7	2.2	1.9	2.1	2.0	3.6	4.4	6.2	0.6	3.0
29	5.5	5.2	4.7	5.8	4.3	5.5	6.2	5.8	6.2	5.8	5.7	5.8	4.8	8.2	7.3	7.3	5.8	7.6	6.1	6.9	7.9	8.3	8.3	8.4	8.4	4.3	6.4
30	7.7	7.8	7.3	7.2	6.0	6.3	7.4	5.8	5.1	5.3	5.1	5.1	5.6	4.6	4.9	3.9	4.2	4.8	6.4	6.4	6.7	5.8	5.5	5.9	7.8	3.9	5.9
Max.	**16.0**	**17.7**	**13.2**	**12.1**	**12.1**	**12.9**	**14.1**	**13.1**	**13.2**	**13.7**	**13.5**	**14.0**	**14.2**	**13.4**	**13.1**	**13.5**	**12.0**	**9.6**	**13.3**	**14.3**	**12.0**	**17.3**	**11.4**	**17.0**	**17.7**		
Min.	**1.6**	**1.3**	**1.4**	**1.3**	**1.5**	**1.4**	**1.7**	**0.6**	**1.2**	**0.9**	**1.4**	**0.6**	**1.2**	**1.1**	**1.0**	**1.0**	**1.0**	**1.5**	**0.9**	**0.9**	**1.4**	**0.9**	**0.9**	**1.8**		**0.6**	
Avg.	**5.5**	**5.6**	**5.5**	**5.5**	**5.2**	**5.3**	**5.4**	**5.3**	**5.1**	**5.0**	**4.9**	**4.8**	**4.6**	**4.7**	**4.3**	**4.4**	**4.6**	**4.5**	**4.7**	**4.9**	**4.7**	**4.8**	**4.8**	**5.2**			**5.0**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	5.8	6.1	6.8	7.7	8.1	6.8	6.0	5.9	7.7	7.9	8.4	6.3	5.4	6.1	6.3	6.6	6.1	7.1	6.7	5.2	6.1	5.4	5.1	4.6	8.4	4.6	6.4
2	7.2	6.2	6.9	6.8	5.7	6.0	4.9	6.4	5.2	6.3	5.5	7.0	5.9	4.8	4.4	5.5	4.8	3.5	2.8	4.0	4.7	4.5	2.3	2.8	7.2	2.3	5.2
3	2.7	2.7	3.8	3.8	5.6	4.8	4.0	1.9	5.0	6.4	6.4	5.2	7.1	7.7	6.8	7.9	7.5	6.2	6.0	5.4	5.5	4.7	4.3	6.5	7.9	1.9	5.3
4	7.1	5.9	6.2	7.2	7.6	6.9	7.2	8.2	8.1	8.1	7.5	7.9	7.1	8.4	10.6	9.9	10.5	10.3	10.4	11.1	12.6	12.6	12.1	11.2	12.6	5.9	8.9
5	10.8	9.0	8.1	8.6	8.5	8.0	7.0	5.9	5.6	5.6	5.5	4.6	4.3	2.1	1.0	2.1	2.9	4.0	5.6	5.8	5.8	4.7	5.4	4.5	10.8	1.0	5.6
6	4.2	3.6	3.0	2.4	2.4	2.4	2.3	1.9	1.5	2.4	1.9	1.6	1.4	1.4	1.8	1.6	1.1	1.6	2.1	2.7	2.1	2.4	2.8	2.6	4.2	1.1	2.2
7	3.1	3.6	3.3	2.5	2.3	2.5	3.2	4.0	4.8	4.8	4.6	5.0	4.7	4.3	5.0	5.4	5.4	5.3	5.9	5.0	4.9	4.6	3.8	3.3	5.9	2.3	4.2
8	3.4	3.5	2.5	1.0	0.9	1.0	2.1	1.9	2.8	2.9	1.7	1.2	1.7	1.2	2.3	2.6	2.7	2.6	2.5	2.3	2.9	2.7	2.9	3.0	3.5	0.9	2.3
9	2.4	2.9	2.5	1.6	1.7	1.9	2.6	2.8	2.9	3.8	3.1	2.2	3.1	3.2	4.9	6.0	7.2	6.5	6.3	6.5	7.5	10.8	10.0	8.6	10.8	1.6	4.6
10	9.1	8.2	8.2	9.7	6.6	7.7	8.7	7.0	6.4	5.0	5.7	4.3	3.0	2.4	2.2	2.4	1.6	1.9	3.3	3.6	4.4	4.7	3.6	3.0	9.7	1.6	5.1
11	2.1	2.5	4.4	4.4	5.0	4.9	4.6	3.3	2.5	1.0	2.9	2.7	2.8	4.3	5.0	4.9	5.3	4.8	6.1	6.3	6.3	6.1	5.7	7.7	7.7	1.0	4.4
12	7.3	5.3	7.0	6.9	6.7	7.8	7.4	8.1	6.4	4.7	8.8	6.1	6.2	6.4	7.6	9.2	7.4	8.6	6.7	5.7	8.2	7.7	8.4	8.2	9.2	4.7	7.2
13	7.4	6.3	4.3	2.7	2.5	3.5	4.9	2.7	2.9	4.6	4.7	4.1	4.9	4.5	3.6	5.5	6.1	6.1	4.6	1.9	1.3	1.8	1.6	1.4	7.4	1.3	3.9
14	2.1	2.3	2.2	3.3	3.5	2.4	2.5	2.5	3.4	4.3	4.3	3.2	4.3	4.0	2.7	2.3	1.9	1.6	2.7	2.3	2.5	3.9	5.2	5.0	5.2	1.6	3.1
15	6.1	6.6	6.6	6.6	5.9	6.4	6.4	5.7	5.9	5.0	4.4	3.6	3.1	2.4	1.7	3.0	3.1	2.8	2.5	1.1	1.8	2.3	1.7	1.8	6.6	1.1	4.0
16	1.3	1.8	1.4	3.1	5.0	6.5	4.9	3.3	2.6	3.1	3.8	5.2	3.7	5.5	7.1	4.3	4.1	4.5	3.3	2.5	3.5	1.7	1.8	2.8	7.1	1.3	3.6
17	2.7	3.5	5.0	6.1	5.4	4.7	4.0	4.5	3.1	3.6	6.4	6.5	7.7	4.9	4.3	9.4	8.0	6.5	7.4	6.7	8.4	8.7	7.4	6.2	9.4	2.7	5.9
18	5.6	7.7	9.5	10.6	11.4	10.9	14.2	14.7	15.5	12.9	9.6	6.9	4.9	5.0	4.4	4.4	4.0	2.9	5.7	7.5	2.8	1.3	2.2	3.3	15.5	1.3	7.4
19	4.6	4.9	5.0	4.9	4.7	3.9	3.7	6.5	5.3	4.4	4.3	5.1	4.8	5.1	4.9	3.4	2.6	3.0	3.3	4.2	3.8	4.9	5.5	6.3	6.5	2.6	4.5
20	5.6	6.4	5.8	6.5	6.8	7.7	8.0	8.2	8.6	8.9	9.2	10.2	10.5	10.7	10.3	10.0	9.7	9.8	9.6	10.0	11.1	11.1	10.2	11.4	11.4	5.6	9.0
21	10.2	5.4	5.1	3.7	3.7	4.6	3.1	1.9	0.7	0.8	0.7	0.6	0.9	1.5	1.9	2.6	1.4	1.0	3.2	5.3	8.1	4.1	3.4	4.6	10.2	0.6	3.3
22	5.1	5.4	5.1	3.9	5.5	6.7	7.7	8.9	10.8	8.3	8.9	8.2	8.3	9.0	12.0	13.0	10.4	4.5	4.1	4.8	6.7	7.1	10.6	7.0	13.0	3.9	7.6
23	7.0	10.1	9.1	8.2	7.7	5.9	5.0	5.6	5.9	5.4	5.2	3.3	4.5	4.0	5.1	4.5	2.5	1.7	1.4	1.3	2.4	2.9	3.5	3.5	10.1	1.3	4.8
24	2.9	3.3	1.4	1.1	3.6	3.1	2.7	3.7	4.7	3.8	4.4	3.2	5.0	5.4	6.5	6.6	8.4	8.6	9.3	10.7	8.9	8.8	8.4	9.3	10.7	1.1	5.6
25	8.9	8.0	6.8	7.1	4.1	7.6	7.9	7.6	6.7	4.9	4.9	5.6	3.8	3.3	2.2	2.4	1.5	1.6	4.0	4.4	3.8	2.9	4.2	3.2	8.9	1.5	4.9
26	2.5	3.8	3.1	2.7	2.3	2.2	3.6	2.9	3.3	5.1	6.4	5.4	4.2	4.4	4.5	3.3	2.8	3.3	3.6	1.8	2.2	3.0	3.3	2.2	6.4	1.8	3.4
27	2.6	2.5	2.5	2.7	2.3	3.0	2.8	3.1	3.1	3.5	4.3	4.0	3.6	2.8	1.2	1.3	1.0	1.5	2.1	2.5	2.9	3.0	3.2	2.5	4.3	1.0	2.7
28	2.4	2.2	3.3	2.4	2.9	2.9	3.4	3.6	3.9	3.4	4.3	3.4	4.2	3.3	2.2	2.1	1.8	1.6	2.6	3.8	1.4	1.5	3.4	2.5	4.3	1.4	2.8
29	3.6	3.2	3.3	3.4	3.0	3.8	3.7	3.8	3.8	3.9	3.7	4.1	4.2	3.5	3.6	4.6	4.2	4.7	3.9	3.9	3.9	3.6	3.6	3.7	4.7	3.0	3.8
30	3.8	3.5	3.2	3.6	3.0	2.6	2.6	2.9	2.1	3.1	2.0	1.1	0.9	1.6	2.2	4.0	5.3	5.1	5.1	6.5	5.9	6.3	4.3	3.8	6.5	0.9	3.5
31	3.7	5.2	5.2	6.2	7.8	7.7	9.9	9.3	7.7	5.1	6.7	10.2	8.3	6.7	9.5	7.2	6.5	7.9	8.4	7.1	5.3	4.2	4.7	3.4	10.2	3.4	6.8
Max.	**10.8**	**10.1**	**9.5**	**10.6**	**11.4**	**10.9**	**14.2**	**14.7**	**15.5**	**12.9**	**9.6**	**10.2**	**10.5**	**10.7**	**12.0**	**13.0**	**10.5**	**10.3**	**10.4**	**11.1**	**12.6**	**12.6**	**12.1**	**11.4**	**15.5**		
Min.	**1.3**	**1.8**	**1.4**	**1.0**	**0.9**	**1.0**	**2.1**	**1.9**	**0.7**	**0.8**	**0.7**	**0.6**	**0.9**	**1.2**	**1.0**	**1.3**	**1.0**	**1.0**	**1.4**	**1.1**	**1.3**	**1.3**	**1.6**	**1.4**		**0.6**	
Avg.	**4.9**	**4.9**	**4.9**	**4.9**	**4.9**	**5.1**	**5.2**	**5.1**	**5.1**	**4.9**	**5.2**	**4.8**	**4.7**	**4.5**	**4.8**	**5.1**	**4.8**	**4.6**	**4.9**	**4.9**	**5.1**	**5.0**	**5.0**	**4.8**			**4.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	2.8	3.5	5.2	2.2	1.1	1.9	1.8	1.7	2.6	1.4	3.2	5.0	3.3	3.0	5.3	4.4	5.2	6.9	7.3	6.4	6.2	6.8	5.9	5.1	7.3	1.1	4.1
2	5.8	5.5	5.3	4.8	2.7	4.9	5.4	3.8	3.0	3.9	4.2	4.1	5.8	3.4	4.0	3.5	3.0	5.2	4.5	4.8	3.5	3.1	3.0	2.8	5.8	2.7	4.2
3	3.5	2.7	3.7	4.0	4.3	2.8	4.1	6.5	5.3	4.6	4.5	5.3	7.6	8.4	10.4	9.7	8.9	9.0	9.3	9.2	6.1	7.5	8.2	7.9	10.4	2.7	6.4
4	10.1	11.1	9.5	7.8	7.7	6.2	7.7	5.7	9.0	9.2	9.1	8.8	8.2	8.9	9.7	8.1	8.6	8.8	8.8	9.2	7.2	6.9	3.0	5.6	11.1	3.0	8.1
5	3.2	2.6	4.8	7.2	8.2	7.3	6.5	5.9	5.4	5.1	7.4	9.8	6.2	5.6	4.3	4.5	4.3	4.4	6.7	6.1	7.7	5.7	5.1	4.9	9.8	2.6	5.8
6	8.6	3.2	2.2	3.1	1.2	1.4	2.0	1.3	1.5	2.8	4.5	5.6	9.5	5.8	3.9	4.4	3.9	5.0	5.5	6.3	7.1	4.1	3.6	4.8	9.5	1.2	4.2
7	3.7	3.6	8.3	8.0	6.7	8.0	5.4	2.8	6.5	3.5	3.7	4.2	4.5	4.4	3.6	3.6	5.2	4.8	5.0	5.5	6.5	6.2	6.4	7.8	8.3	2.8	5.3
8	8.4	8.6	8.1	9.0	7.3	6.7	7.4	6.7	6.7	6.1	5.7	4.8	3.7	3.1	1.8	1.8	1.9	1.3	1.8	1.6	1.6	1.7	2.0	1.8	9.0	1.3	4.6
9	2.1	1.8	1.5	1.5	1.6	1.5	1.8	1.7	1.4	1.7	1.5	3.0	3.6	3.2	2.7	3.5	1.5	2.8	2.4	3.5	1.7	3.2	3.4	5.7	5.7	1.4	2.4
10	3.5	4.7	4.5	7.5	9.7	10.6	8.4	6.9	10.0	10.8	11.1	11.0	11.1	10.8	10.5	10.9	10.3	10.2	9.2	8.5	7.4	5.1	3.2	1.8	11.1	1.8	8.2
11	3.0	4.2	2.9	2.5	0.8	0.8	2.3	1.4	1.8	2.2	3.8	4.2	3.9	3.4	2.7	2.7	3.1	2.9	3.5	1.9	1.5	1.1	3.6	2.5	4.2	0.8	2.6
12	2.0	1.8	3.1	2.1	1.4	1.2	1.0	1.8	4.0	2.4	0.8	2.4	2.4	1.9	2.4	2.0	1.8	2.1	2.1	2.5	2.4	2.8	3.2	3.6	4.0	0.8	2.2
13	2.8	3.0	5.1	5.7	5.3	4.8	4.7	4.7	3.8	2.9	4.5	3.3	2.8	2.9	3.0	1.8	2.0	2.0	2.9	2.9	4.3	4.3	4.5	4.1	5.7	1.8	3.7
14	4.9	4.9	5.6	5.9	6.9	6.9	7.1	7.7	8.1	8.5	8.7	7.9	9.1	10.4	10.4	10.8	11.6	11.7	12.1	11.3	12.0	11.9	11.9	11.9	12.1	4.9	9.1
15	11.6	10.4	6.1	5.3	2.6	1.4	1.5	1.3	1.9	2.2	1.4	2.0	1.8	3.7	2.2	1.4	2.4	2.7	2.4	3.9	3.3	3.0	3.6	3.9	11.6	1.3	3.4
16	4.3	5.6	5.7	6.4	6.4	9.5	9.9	10.0	9.8	8.0	7.6	6.9	6.3	6.4	7.1	7.2	7.5	6.6	6.5	6.5	7.0	6.5	6.4	6.6	10.0	4.3	7.1
17	6.7	6.3	6.4	6.6	6.2	5.6	5.5	5.0	3.6	1.2	0.8	1.2	3.0	4.9	7.2	7.4	8.3	8.7	5.9	2.9	2.7	4.5	5.2	4.3	8.7	0.8	5.0
18	4.7	5.3	6.3	5.6	6.9	7.5	8.3	8.3	10.1	9.8	8.6	7.3	7.8	8.3	8.0	7.4	6.7	5.3	2.4	6.4	11.3	11.7	11.0	8.7	11.7	2.4	7.6
19	8.0	4.4	6.4	7.1	5.9	4.5	4.7	8.4	10.4	12.1	8.7	6.6	4.3	7.9	10.4	10.3	9.8	10.2	11.8	9.4	8.2	2.7	1.7	2.7	12.1	1.7	7.4
20	3.4	4.8	5.3	5.4	5.7	6.6	6.6	6.2	6.4	6.4	7.5	8.0	7.4	6.6	7.1	5.7	3.9	4.0	3.2	2.6	2.0	1.5	1.5	1.9	8.0	1.5	5.0
21	2.9	2.6	2.2	2.7	4.2	4.9	5.6	6.0	7.7	7.6	8.5	7.5	8.0	6.3	6.0	7.4	10.0	8.4	7.7	10.9	9.9	6.8	4.7	5.0	10.9	2.2	6.4
22	6.3	8.3	7.6	4.8	3.4	2.6	3.8	4.8	4.4	6.8	6.3	3.5	3.9	6.7	6.4	4.8	4.1	4.5	4.6	6.4	9.9	10.9	9.6	9.7	10.9	2.6	6.0
23	11.1	11.8	11.8	13.3	12.4	14.4	16.5	16.4	14.2	14.5	14.4	11.9	12.2	10.8	7.8	8.1	7.6	7.7	8.3	9.9	10.4	6.8	8.1	8.2	16.5	6.8	11.2
24	8.0	8.9	10.1	9.9	11.7	11.8	9.5	10.9	11.5	12.3	9.1	9.9	8.9	14.2	16.5	13.7	12.7	12.7	13.0	13.9	12.6	12.9	13.4	14.5	16.5	8.0	11.8
25	13.9	12.9	13.5	13.2	12.5	13.7	13.6	14.0	14.5	14.7	13.4	13.1	12.5	14.0	14.3	13.1	11.6	11.3	12.0	12.7	13.3	11.4	10.7	10.6	14.7	10.6	12.9
26	9.8	9.3	9.6	9.4	8.9	10.0	10.4	10.6	11.3	10.0	10.2	11.0	10.1	10.4	11.4	10.9	10.7	6.8	4.7	5.4	5.9	4.5	3.9	5.3	11.4	3.9	8.8
27	5.9	6.0	5.9	4.9	3.4	1.9	2.6	5.1	5.5	5.8	6.9	6.2	5.8	6.0	3.3	2.4	4.0	3.2	2.9	2.9	2.7	3.2	3.4	3.0	6.9	1.9	4.3
28	3.6	3.1	2.5	2.5	3.1	3.1	3.2	2.2	3.1	3.4	2.6	2.4	2.5	1.8	2.0	1.8	2.0	1.9	1.9	1.8	1.9	2.5	2.4	2.0	3.6	1.8	2.5
29	1.9	2.6	2.4	2.6	3.2	1.9	3.0	3.1	2.9	1.9	1.6	2.5	5.7	2.6	2.0	3.8	6.1	7.3	5.7	3.3	4.3	5.0	3.5	3.4	7.3	1.6	3.4
30	3.7	3.7	3.7	4.4	3.5	2.5	2.8	2.7	2.4	5.5	6.5	4.5	6.4	6.6	3.7	3.8	4.1	3.9	3.9	5.1	6.2	5.8	3.1	4.3	6.6	2.4	4.3
Max.	**13.9**	**12.9**	**13.5**	**13.3**	**12.5**	**14.4**	**16.5**	**16.4**	**14.5**	**14.7**	**14.4**	**13.1**	**12.5**	**14.2**	**16.5**	**13.7**	**12.7**	**12.7**	**13.0**	**13.9**	**13.3**	**12.9**	**13.4**	**14.5**	**16.5**		
Min.	**1.9**	**1.8**	**1.5**	**1.5**	**0.8**	**0.8**	**1.0**	**1.3**	**1.4**	**1.2**	**0.8**	**1.2**	**1.8**	**1.8**	**1.8**	**1.4**	**1.5**	**1.3**	**1.8**	**1.6**	**1.5**	**1.1**	**1.5**	**1.8**		**0.8**	
Avg.	**5.7**	**5.6**	**5.8**	**5.8**	**5.5**	**5.6**	**5.8**	**5.8**	**6.3**	**6.2**	**6.2**	**6.1**	**6.3**	**6.4**	**6.3**	**6.0**	**6.1**	**6.1**	**5.9**	**6.1**	**6.2**	**5.7**	**5.3**	**5.5**			**5.9**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	4.8	4.9	4.4	5.9	5.9	6.9	5.0	5.7	4.5	4.1	4.7	5.3	6.7	7.1	6.8	6.0	6.2	7.9	4.2	4.7	7.8	8.6	9.4	7.1	9.4	4.1	6.0
2	7.2	6.2	7.9	8.4	7.2	6.1	5.6	3.2	6.6	8.3	8.3	6.9	5.7	6.6	6.5	6.9	6.4	7.2	8.4	9.8	9.8	9.8	10.4	8.6	10.4	3.2	7.4
3	9.8	9.3	9.2	12.6	12.6	11.3	10.1	10.2	9.7	9.9	9.3	9.7	8.3	9.4	9.5	9.5	8.6	4.3	3.1	5.4	5.0	3.0	6.1	4.8	12.6	3.0	8.4
4	3.8	5.8	5.2	7.3	5.7	6.7	6.4	5.9	5.3	3.8	4.0	5.9	6.8	7.1	7.9	7.4	8.2	8.0	7.6	7.9	8.2	8.7	7.6	8.0	8.7	3.8	6.6
5	9.0	9.0	9.6	9.4	7.0	8.9	7.7	6.2	7.0	7.2	8.1	8.2	7.3	7.3	8.0	8.4	9.3	8.9	9.4	10.5	10.3	11.0	11.8	10.2	11.8	6.2	8.7
6	11.1	10.5	10.5	9.8	10.2	10.4	9.9	9.4	8.5	8.1	9.3	8.4	7.4	6.0	4.9	5.3	4.4	4.7	5.2	5.5	5.4	5.5	6.2	7.0	11.1	4.4	7.6
7	6.3	6.8	8.1	9.1	10.4	10.0	10.1	10.0	11.1	10.6	10.7	10.3	11.4	11.0	10.3	10.1	9.1	10.1	10.4	8.2	7.3	7.3	6.9	7.0	11.4	6.3	9.3
8	5.9	4.2	3.8	6.1	5.0	3.8	3.9	4.4	4.2	4.6	4.5	2.2	1.6	2.3	1.8	2.5	2.1	2.3	2.9	3.6	2.7	2.8	3.0	2.4	6.1	1.6	3.4
9	2.6	2.7	2.7	2.5	2.5	2.8	4.1	5.2	5.6	7.1	6.6	6.3	6.6	6.6	6.0	4.8	4.1	2.4	1.8	1.1	1.6	1.3	1.4	1.3	7.1	1.1	3.7
10	0.8	1.0	1.3	2.3	2.5	3.2	3.2	2.9	3.7	4.7	5.2	5.4	4.8	3.5	3.1	3.3	3.4	3.9	3.6	3.5	4.0	4.0	4.7	4.8	5.4	0.8	3.4
11	4.9	5.4	5.0	5.5	2.5	2.0	3.6	8.3	8.7	10.4	11.7	13.1	13.9	13.8	13.1	11.4	11.0	8.8	9.6	11.2	9.9	8.2	8.7	8.9	13.9	2.0	8.7
12	11.2	10.6	9.7	8.2	7.2	8.0	5.8	4.3	5.8	4.2	4.4	3.7	7.0	2.9	2.3	5.0	3.0	3.7	5.0	4.0	2.7	2.6	2.5	3.3	11.2	2.3	5.3
13	4.7	3.7	3.3	4.6	4.7	4.1	5.0	5.9	6.5	6.8	8.1	7.9	7.9	8.4	8.8	8.5	8.3	8.8	10.0	10.6	11.0	10.3	10.2	11.2	11.2	3.3	7.5
14	11.3	11.7	11.8	12.4	12.7	12.3	13.2	12.7	12.8	12.7	13.4	13.1	14.4	14.5	13.7	13.9	12.6	12.9	12.9	12.6	11.5	10.3	10.2	10.4	14.5	10.2	12.5
15	9.0	9.0	8.3	7.3	7.1	8.7	7.8	7.9	8.8	9.7	10.5	10.4	9.7	10.2	9.8	9.9	10.6	10.6	10.4	11.4	10.6	7.8	6.1	4.6	11.4	4.6	9.0
16	4.5	5.8	5.2	4.5	3.1	3.7	3.7	2.8	2.9	3.5	4.2	5.0	5.2	5.0	5.5	5.8	5.0	3.0	1.8	4.5	3.7	5.2	7.4	7.4	7.4	1.8	4.5
17	4.7	3.8	2.8	2.1	1.9	1.9	1.6	2.0	2.0	1.3	3.4	4.7	4.7	5.5	5.8	5.2	3.9	4.0	5.2	5.4	4.9	5.7	5.1	5.7	5.8	1.3	3.9
18	5.2	6.0	6.6	7.2	7.1	7.7	8.3	7.6	7.1	7.3	7.3	5.9	5.2	4.7	4.6	5.2	5.6	4.8	5.8	6.9	7.2	8.4	8.2	7.5	8.4	4.6	6.6
19	8.1	7.0	6.6	5.9	6.2	5.9	4.6	6.4	6.2	6.0	5.3	4.1	4.7	3.9	2.9	2.7	1.9	1.6	4.1	3.7	3.7	2.7	3.6	3.5	8.1	1.6	4.6
20	3.8	4.3	5.0	6.5	5.0	4.1	3.6	2.6	1.1	0.9	1.4	2.0	1.3	1.0	4.4	5.1	2.8	2.3	1.6	3.0	1.0	1.0	1.3	1.3	6.5	0.9	2.8
21	1.3	2.1	1.1	0.9	1.3	2.0	2.3	1.4	0.8	1.9	2.0	1.8	1.1	0.6	0.7	1.2	1.0	1.9	3.9	3.3	2.5	2.5	2.6	3.4	3.9	0.6	1.8
22	3.1	1.4	3.2	4.0	3.0	2.2	2.0	2.8	3.0	2.4	2.6	3.8	3.3	2.7	2.6	1.4	2.7	2.9	3.1	2.7	3.3	4.6	3.7	3.0	4.6	1.4	2.9
23	3.2	1.0	0.9	1.4	1.8	1.7	1.1	1.7	1.8	2.7	2.5	3.1	2.0	1.0	0.7	1.1	2.2	2.5	3.9	4.8	4.7	4.6	5.0	4.6	5.0	0.7	2.5
24	4.9	4.6	4.3	5.2	5.5	5.3	4.5	5.0	5.0	5.6	5.9	5.3	5.2	4.8	5.1	5.7	4.8	5.3	5.8	5.7	4.9	5.5	5.4	6.1	6.1	4.3	5.2
25	6.3	6.1	6.3	5.8	6.5	6.2	6.4	7.1	5.8	5.5	6.4	7.0	8.1	9.5	9.2	9.8	10.2	10.7	10.5	11.1	11.8	11.5	10.7	10.6	11.8	5.5	8.3
26	9.9	9.8	10.5	9.9	7.7	6.9	6.0	6.8	7.4	8.7	8.6	7.7	5.9	6.1	6.7	5.8	5.8	5.1	4.8	5.7	6.9	6.1	6.8	7.0	10.5	4.8	7.2
27	6.5	6.1	6.6	6.5	6.5	6.6	4.7	3.4	3.7	7.3	8.0	7.8	5.8	5.7	5.4	5.2	4.5	6.9	8.4	9.5	7.6	8.9	9.7	8.3	9.7	3.4	6.6
28	8.4	8.6	7.5	9.4	9.1	9.6	9.3	7.2	9.7	10.0	9.1	9.8	9.4	9.6	9.0	9.3	9.4	8.7	7.7	7.9	8.6	10.4	9.9	10.6	10.6	7.2	9.1
29	10.9	10.1	10.0	9.6	8.0	7.8	7.4	7.0	6.2	5.3	5.3	5.4	5.5	6.6	8.8	9.4	9.8	9.7	9.6	8.4	8.6	9.1	8.3	8.4	10.9	5.3	8.1
30	8.0	7.5	7.7	8.7	8.5	8.6	7.9	4.4	2.7	2.9	2.5	1.1	5.7	9.9	8.1	7.8	8.0	7.8	8.0	7.9	7.3	6.2	7.1	6.7	9.9	1.1	6.7
31	6.8	7.0	7.2	7.1	7.1	5.8	6.3	5.6	4.0	4.1	4.6	4.4	3.9	3.5	5.9	4.3	5.0	4.9	6.5	7.4	7.0	7.0	5.9	6.2	7.4	3.5	5.7
Max.	**11.3**	**11.7**	**11.8**	**12.6**	**12.7**	**12.3**	**13.2**	**12.7**	**12.8**	**12.7**	**13.4**	**13.1**	**14.4**	**14.5**	**13.7**	**13.9**	**12.6**	**12.9**	**12.9**	**12.6**	**11.8**	**11.5**	**11.8**	**11.2**	**14.5**		
Min.	**0.8**	**1.0**	**0.9**	**0.9**	**1.3**	**1.7**	**1.1**	**1.4**	**0.8**	**0.9**	**1.4**	**1.1**	**1.1**	**0.6**	**0.7**	**1.1**	**1.0**	**1.6**	**1.6**	**1.1**	**1.0**	**1.0**	**1.3**	**1.3**		**0.6**	
Avg.	**6.4**	**6.2**	**6.2**	**6.7**	**6.2**	**6.2**	**5.8**	**5.7**	**5.7**	**6.1**	**6.4**	**6.3**	**6.3**	**6.3**	**6.4**	**6.4**	**6.1**	**6.0**	**6.3**	**6.7**	**6.5**	**6.5**	**6.7**	**6.4**			**6.3**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.8	6.8	6.0	5.4	5.8	5.2	5.9	6.6	6.1	5.8	5.8	4.8	4.9	4.8	5.4	6.3	6.1	6.9	6.6	6.9	6.7	6.6	6.5	6.0	6.9	4.8	6.0
2	6.5	5.9	5.8	5.3	6.0	6.0	5.5	5.9	8.0	7.3	6.8	6.5	6.2	6.4	6.0	6.2	6.2	5.4	6.0	5.3	5.8	5.3	5.4	4.6	8.0	4.6	6.0
3	4.5	5.6	4.9	5.3	6.3	5.3	5.2	5.4	5.1	4.8	4.1	4.0	4.1	4.5	4.7	5.1	5.1	5.4	4.3	4.1	4.0	5.0	5.5	4.5	6.3	4.0	4.9
4	3.9	4.4	2.3	2.3	3.6	2.7	2.3	0.8	1.2	0.9	1.4	2.2	2.0	2.4	3.0	2.0	4.1	2.9	1.2	3.6	3.1	1.2	1.4	3.6	4.4	0.8	2.4
5	3.5	4.8	5.5	4.1	4.3	5.3	5.4	3.6	1.5	1.7	1.7	1.1	1.2	2.2	2.1	1.3	0.9	2.0	3.4	3.5	2.5	3.0	1.2	1.2	5.5	0.9	2.8
6	2.0	1.7	1.8	3.0	2.7	1.9	2.7	2.4	2.5	2.4	0.7	0.8	2.6	2.5	2.5	1.6	0.6	1.7	1.3	0.8	1.0	1.9	2.2	1.1	3.0	0.6	1.9
7	3.0	1.8	1.8	2.2	1.5	1.0	0.7	2.1	4.0	5.3	5.6	7.4	8.6	9.6	9.4	7.0	6.4	5.6	5.7	7.7	8.3	9.1	8.3	8.2	9.6	0.7	5.4
8	8.1	7.8	7.6	7.6	7.7	8.2	7.3	7.6	7.5	6.5	5.6	5.5	5.5	4.1	2.0	1.2	2.0	1.0	1.4	1.1	1.7	2.4	2.6	2.4	8.2	1.0	4.8
9	1.8	2.5	2.4	2.4	2.3	1.9	1.6	2.3	2.4	2.1	1.5	1.1	1.2	2.8	2.4	1.2	0.9	2.0	1.5	0.8	1.4	0.8	1.5	1.4	2.8	0.8	1.8
10	0.7	1.6	1.1	1.9	4.4	4.5	3.0	1.2	1.2	1.5	1.4	1.4	2.5	1.7	2.2	3.3	4.3	5.3	5.9	5.1	4.5	6.1	5.6	4.3	6.1	0.7	3.1
11	3.5	4.8	2.8	2.1	3.5	6.3	4.6	1.5	2.0	2.1	1.8	1.5	3.1	2.2	2.3	2.0	1.1	0.8	2.9	3.0	3.9	3.4	1.8	3.2	6.3	0.8	2.8
12	0.9	2.5	6.2	5.7	5.1	6.8	7.9	8.0	5.1	2.4	2.4	2.5	3.2	3.5	3.4	3.0	3.5	2.6	2.0	2.1	1.9	1.8	1.6	2.0	8.0	0.9	3.6
13	1.8	1.7	2.5	1.5	2.0	1.9	2.0	1.9	2.0	3.2	1.6	3.2	3.5	3.8	4.4	3.2	3.0	3.0	3.4	2.4	1.7	2.5	2.9	2.0	4.4	1.5	2.5
14	2.9	3.4	3.2	3.3	4.7	4.7	4.5	4.0	3.2	4.6	5.0	5.6	5.7	6.8	6.5	7.1	6.8	6.7	6.9	6.7	6.7	7.0	7.5	7.7	7.7	2.9	5.5
15	7.7	7.9	8.3	8.1	8.1	8.5	8.6	8.0	7.7	8.6	7.5	7.9	7.8	8.4	8.1	7.7	8.3	7.5	7.7	8.4	8.1	8.6	7.7	8.3	8.6	7.5	8.1
16	7.8	7.0	7.0	7.3	8.3	8.2	7.5	7.3	6.8	7.2	6.3					5.2	2.8	2.8	1.9	1.4	0.6	1.0	1.6	1.8	8.3	0.6	5.0
17	0.9	1.7	2.4	2.5	2.4	2.2	4.2	3.2	3.8	3.4	3.7	4.8	6.0	4.0	4.8	3.5	5.9	6.6	9.4	7.7	6.5	6.9	8.6	9.4	9.4	0.9	4.8
18	8.7	8.7	8.3	6.8	6.8	7.7	4.1	4.3	6.1	4.4	2.3	2.8	2.7	2.6	2.3	2.9	3.1	2.7	2.6	1.6	1.8	1.9	2.8	2.8	8.7	1.6	4.2
19	2.3	2.9	6.5	4.7	3.6	2.4	3.4	3.3	6.5	5.0	5.3	5.6	6.2	4.8	3.9	3.9	3.9	3.1	2.5	2.0	1.3	2.0	4.3	3.4	6.5	1.3	3.9
20	2.4	3.1	3.2	3.6	3.3	4.1	4.6	4.5	4.2	4.6	4.2	3.9	4.3	4.9	4.5	3.1	3.2	2.8	2.4	2.3	2.3	2.5	1.9	2.6	4.9	1.9	3.4
21	3.1	4.3	5.8	7.0	5.7	7.4	6.6	5.5	4.7	4.4	3.8	2.4	1.9	5.0	5.8	7.5	6.9	8.1	6.9	6.6	13.7	16.6	17.9	17.8	17.9	1.9	7.3
22	15.0	11.8	12.7	12.9	11.8	11.9	12.1	15.7	15.4	15.6	15.6	15.7	15.4	16.6	18.0	19.6	18.8	20.1	20.4	18.8	17.4	16.0	14.3	13.7	20.4	11.8	15.6
23	13.0	11.7	7.4	5.3	5.1	5.5	4.1	3.8	3.0	5.7	5.3	3.9	3.4	5.8	6.7	6.3	7.0	6.3	4.6	5.1	5.3	4.5	6.2	5.1	13.0	3.0	5.8
24	5.2	5.1	4.9	4.9	5.3	5.8	5.6	6.0	6.6	6.2	7.2	8.4	8.2	7.6	8.1	8.1	6.5	7.9	7.4	7.6	6.6	5.7	5.2	5.1	8.4	4.9	6.5
25	4.8	4.6	3.9	3.4	3.4	3.8	3.7	2.1	3.3	3.0	3.7	5.2	5.2	4.2	3.5	4.0	3.8	5.1	5.8	6.2	6.5	8.4	8.0	9.3	9.3	2.1	4.8
26	9.1	9.1	9.5	10.0	9.7	9.7	8.9	8.8	8.9	10.4	9.5	9.7	10.3	9.5	9.4	9.1	8.1	7.4	8.2	9.5	8.2	9.3	9.0	8.6	10.4	7.4	9.2
27	7.2	6.9	7.5	6.8	8.7	11.5	8.6	13.2	10.1	8.9	11.4	14.2	12.5	12.8	13.9	14.6	16.5	14.2	15.1	17.1	16.3	14.3	16.3	16.3	17.1	6.8	12.3
28	14.5	16.2	16.4	16.7	17.9	19.4	19.6	17.3	16.6	16.1	15.0	14.0	11.3	8.1	6.9	6.5	7.4	6.6	7.8	6.2	4.3	6.1	6.8	7.8	19.6	4.3	11.9
29	7.8	6.6	7.1	6.5	6.1	5.5	5.4	5.8	5.9	5.6	5.4	5.3	5.4	5.5	4.4	2.9	3.3	4.3	4.7	4.3	5.2	5.5	5.0	5.4	7.8	2.9	5.4
30	5.6	5.8	5.9	5.5	4.9	4.7	5.1	4.9	4.7	4.4	3.3	3.7	4.7	3.6	3.3	2.6	2.9	2.5	1.9	1.4	3.1	3.0	4.1	4.9	5.9	1.4	4.0
31	4.5	4.6	4.7	4.8	4.3	3.6	4.1	2.9	3.8	4.3	4.4	4.5	4.0	3.9	5.4	6.0	4.7	4.6	4.7	5.6	8.3	9.2	10.4	8.5	10.4	2.9	5.2
Max.	**15.0**	**16.2**	**16.4**	**16.7**	**17.9**	**19.4**	**19.6**	**17.3**	**16.6**	**16.1**	**15.6**	**15.7**	**15.4**	**16.6**	**18.0**	**19.6**	**18.8**	**20.1**	**20.4**	**18.8**	**17.4**	**16.6**	**17.9**	**17.8**	**20.4**		
Min.	**0.7**	**1.6**	**1.1**	**1.5**	**1.5**	**1.0**	**0.7**	**0.8**	**1.2**	**0.9**	**0.7**	**0.8**	**1.2**	**1.7**	**2.0**	**1.2**	**0.6**	**0.8**	**1.2**	**0.8**	**0.6**	**0.8**	**1.2**	**1.1**		**0.6**	
Avg.	**5.5**	**5.6**	**5.7**	**5.4**	**5.7**	**5.9**	**5.6**	**5.5**	**5.5**	**5.4**	**5.1**	**5.3**	**5.5**	**5.5**	**5.5**	**5.3**	**5.3**	**5.3**	**5.4**	**5.3**	**5.4**	**5.7**	**5.9**	**5.9**			**5.5**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	7.9	9.7	9.8	11.2	9.6	8.1	10.6	9.9	10.1	13.2	13.4	14.0	14.4	14.1	16.3	14.8	12.9	7.4	7.7	10.3	7.9	7.3	11.2	11.7	16.3	7.3	11.0
2	13.5	14.8	13.0	11.9	11.1	12.3	13.3	12.9	13.9	12.9	8.4	6.6	7.4	7.5	7.8	6.6	8.0	8.3	7.1	3.5	5.4	5.8	5.6	4.9	14.8	3.5	9.3
3	5.3	6.3	7.4	7.3	6.9	6.9	7.7	7.2	7.3	6.7	6.7	6.8	7.5	7.4	6.7	7.4	8.1	7.7	7.5	8.2	7.9	8.2	8.4	7.8	8.4	5.3	7.3
4	7.4	8.5	8.9	9.2	10.0	9.6	9.6	9.7	9.6	10.0	9.8	10.3	10.7	11.9	11.6	12.1	12.9	12.1	12.3	11.6	11.6	12.8	12.6	14.1	14.1	7.4	10.8
5	14.4	14.5	13.2	14.2	13.9	12.9	12.9	13.3	13.6	12.6	13.1	11.6	9.9	9.1	8.7	9.0	9.4	11.4	10.5	11.9	12.3	12.9	11.1	11.0	14.5	8.7	12.0
6	11.1	10.5	10.1	9.2	8.6	9.3	8.3	6.4	5.6	2.9	2.0	0.3	2.4	0.7	2.7	1.9	2.5	2.2	2.2	1.7	2.5	2.3	2.4	2.1	11.1	0.3	4.6
7	2.7	3.9	3.4	2.9	1.9	1.3	1.1	2.7	6.4	6.2	6.1	9.3	9.9	10.7	9.2	4.4	3.5	4.2	4.4	7.2	7.7	6.8	5.9	5.6	10.7	1.1	5.3
8	5.3	4.9	2.2	3.3	3.0	3.0	3.4	4.0	5.3	6.0	4.7	5.7	5.6	5.7	7.3	8.5	8.6	8.4	8.5	7.7	8.0	8.7	8.7	8.3	8.7	2.2	6.0
9	9.5	9.7	10.0	10.0	10.5	12.0	13.7	14.8	15.8	16.1	16.3	15.7	15.1	13.9	13.4	11.2	10.4	9.6	8.8	8.7	8.9	7.6	5.8	4.9	16.3	4.9	11.3
10	6.3	7.7	7.8	8.3	8.8	8.6	9.5	8.7	9.2	9.6	9.1	6.9	5.2	3.2			1.8	3.1	2.8	4.2	2.9	2.6	3.4	4.3	9.6	1.8	6.1
11	4.5	5.1	5.8	5.7	6.3	6.4	7.4	8.2	9.0	8.3	8.9	7.9	7.6	8.0	7.5	8.4	9.1	9.0	8.3	8.1	7.5	7.6	7.7	6.8	9.1	4.5	7.5
12	5.2	4.8	3.0	2.9	7.5	5.3	6.5	7.6	7.8	7.2	8.3	10.7	11.6	8.0	6.3	6.1	10.2	12.1	11.0	10.6	11.2	9.5	6.9	6.3	12.1	2.9	7.8
13	2.2	1.4	1.9	1.6	2.3	1.7	0.9	2.8	4.2	3.7	1.8	5.6	5.6	6.2	5.5	5.0	5.1	5.8	6.3	5.3	5.3	4.7	4.0	3.9	6.3	0.9	3.9
14	4.2	4.8	4.7	4.9	4.9	5.3	4.2	5.2	5.1	4.6	5.5	6.7	6.2	6.3	5.8	5.3	5.0	4.4	4.5	4.4	5.6	6.3	5.7	6.3	6.7	4.2	5.2
15	6.7	7.6	5.5	6.5	6.8	6.7	6.7	7.2	7.3	4.4	3.5	4.2	4.2	3.2	4.2	5.2	4.4	4.4	4.4	5.3	4.8	4.5	3.9	4.3	7.6	3.2	5.2
16	4.8	3.8	4.1	4.3	4.3	3.6	1.5	1.9	1.6	1.0	0.6	0.7	1.9	2.6	1.5	1.7	3.9	3.4	3.7	4.4	4.1	3.8	4.5	4.7	4.8	0.6	3.0
17	5.3	5.9	6.2	6.0	5.6	7.2	7.9	9.3	10.3	9.6	8.6	8.7	7.7	7.3	7.1	6.5	6.9	6.5	6.4	5.3	5.7	6.2	7.4	5.4	10.3	5.3	7.0
18	4.5	4.8	5.2	4.9	4.9	4.6	4.2	4.7	5.0	6.0	4.8	3.4	2.7	3.5	1.7	3.1	3.2	2.6	2.5	2.9	4.7	5.1	4.7	3.9	6.0	1.7	4.1
19	2.0	4.2	8.9	9.5	8.1	4.6	4.4	4.0	6.0	5.0	6.4	5.5	5.5	3.8	5.5	5.4	6.0	9.3	9.1	8.4	8.3	9.0	5.9	6.5	9.5	2.0	6.3
20	5.7	5.1	5.8	2.8	2.6	2.7	3.2	4.1	4.0	4.8	3.1	3.4	3.7	8.2	4.9	5.2	7.9	10.6	12.3	13.7	11.3	13.8	13.9	10.8	13.9	2.6	6.8
21	12.9	7.1	6.8	4.9	6.5	6.0	6.8	7.3	7.7	6.7	4.7	5.1	7.1	6.4	5.0	4.7	4.5	3.8	4.4	4.1	4.5	4.1	3.8	3.8	12.9	3.8	5.8
22	3.9	4.8	3.4	3.1	2.7	2.3	8.3	5.2	4.9	4.3	4.5	4.9	3.5	3.3	3.5	2.7	2.8	2.8	2.1	3.1	3.5	3.7	3.1	3.1	8.3	2.1	3.7
23	2.2	1.9	2.0	1.8	0.7	2.0	1.7	2.2	1.7	5.4	6.2	6.5	4.5	4.4	3.8	3.6	4.0	4.6	3.2	2.4	2.9	3.9	4.2	3.6	6.5	0.7	3.3
24	3.3	3.4	3.9	4.0	3.4	4.2	3.7	4.7	6.5	6.9	7.0	5.1	3.7	3.0	3.1	2.7	1.9	1.9	3.4	3.7	4.0	4.1	3.2	3.1	7.0	1.9	3.9
25	3.6	3.5	3.1	2.1	2.2	2.0	1.6	0.7	0.7	3.3	1.6	0.8	4.2	1.8	5.5	4.4	4.5	5.5	7.7	7.9	9.4	6.8	5.3	5.9	9.4	0.7	3.9
26	5.2	4.9	6.1	4.3	4.6	3.1	2.6	3.3	2.5	3.4	3.2	4.1	2.8	3.5	3.1	3.8	3.0	3.3	2.1	1.8	1.6	3.3	3.6	5.1	6.1	1.6	3.5
27	5.7	6.8	7.2	6.9	5.8	4.0	1.9	3.2	8.5	4.4	4.2	3.2	2.3	2.7	4.7	5.1	3.4	4.1	7.6	6.9	5.2	4.2	5.6	5.7	8.5	1.9	5.0
28	5.7	9.2	7.6	7.4	7.4	9.3	9.6	9.8	6.7	7.2	5.9	7.3	9.3	10.4	12.7	12.3	10.2	10.2	10.2	9.7	9.2	11.0	9.9	9.4	12.7	5.7	9.1
Max.	**14.4**	**14.8**	**13.2**	**14.2**	**13.9**	**12.9**	**13.7**	**14.8**	**15.8**	**16.1**	**16.3**	**15.7**	**15.1**	**14.1**	**16.3**	**14.8**	**12.9**	**12.1**	**12.3**	**13.7**	**12.3**	**13.8**	**13.9**	**14.1**	**16.3**		
Min.	**2.0**	**1.4**	**1.9**	**1.6**	**0.7**	**1.3**	**0.9**	**0.7**	**0.7**	**1.0**	**0.6**	**0.3**	**1.9**	**0.7**	**1.5**	**1.7**	**1.8**	**1.9**	**2.1**	**1.7**	**1.6**	**2.3**	**2.4**	**2.1**		**0.3**	
Avg.	**6.1**	**6.4**	**6.3**	**6.1**	**6.1**	**5.9**	**6.2**	**6.5**	**7.0**	**6.9**	**6.4**	**6.5**	**6.5**	**6.3**	**6.5**	**6.2**	**6.2**	**6.4**	**6.5**	**6.5**	**6.6**	**6.7**	**6.4**	**6.2**			**6.4**

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	9.4	4.6	3.7	5.8	6.8	7.3	6.8	6.1	2.4	3.8	5.0	4.9	5.2	4.1	3.1	2.3	3.1	4.0	5.8	6.2	5.6	6.5	6.8	4.3	9.4	2.3	5.2
2	3.1	5.8	6.3	6.2	6.4	6.9	7.2	8.6	9.1	8.6	8.2	7.8	8.0	8.5	7.9	7.3	8.1	7.6	8.0	7.5	7.9	8.0	7.9	8.7	9.1	3.1	7.5
3	7.7	7.8	6.4	6.0	7.1	7.3	7.1	6.8	7.5	6.8	6.3	5.5	5.9	6.1	5.5	5.0	4.0	3.1	3.9	4.3	4.3	4.7	4.6	4.9	7.8	3.1	5.8
4	5.0	4.5	4.7	5.5	5.2	5.3	5.6	5.5	6.1	5.3	5.4	5.3	5.6	4.5	5.0	5.3	5.0	5.8	5.5	5.4	5.2	5.6	5.4	5.5	6.1	4.5	5.3
5	5.5	5.8	6.0	6.3	6.4	6.2	5.5	1.8	1.4	1.3	1.2	3.3	4.1	3.6	3.0	2.6	2.7	3.8	6.1	6.5	4.6	3.9	3.5	4.2	6.5	1.2	4.1
6	6.3	6.0	5.1	4.6	5.6	4.8	3.6	5.9	9.9	10.8	11.2	9.8	9.0	5.8	7.1	5.9	5.0	3.0	2.2	1.8	3.3	3.9	4.6	5.8	11.2	1.8	5.9
7	5.9	5.0	3.0	3.9	3.3	4.0	5.3	5.2	8.0	10.5	11.5	11.5	10.5	9.9	9.5	9.7	10.0	8.0	8.6	8.3	6.4	8.1	9.2	11.7	11.7	3.0	7.8
8	12.7	14.4	12.8	12.3	14.2	12.7	13.3	16.2	11.8	11.1	11.0	10.1	8.5	8.6	8.1	10.8	11.3	14.5	11.2	7.2	7.6	7.1	5.5	5.9	16.2	5.5	10.8
9	7.1	7.0	7.4	6.9	8.3	9.2	8.7	8.5	7.7	8.7	10.5	8.6	7.1	9.6	7.8	7.1	7.7	8.9	8.9	9.4	10.4	10.6	8.7	6.5	10.6	6.5	8.4
10	6.2	4.8	5.1	5.0	5.1	5.7	5.0	2.3	4.5	4.5	4.4	3.4	2.7	2.8	3.1	1.8	1.5	3.5	4.7	4.6	4.8	5.1	5.4	5.3	6.2	1.5	4.2
11	5.6	5.5	8.2	7.5	7.3	8.4	7.6	8.2	8.9	8.8	8.6	7.7	7.5	7.8	7.2	7.0	6.8	7.9	7.7	8.2	8.6	7.8	6.6	5.9	8.9	5.5	7.5
12	9.1	8.0	8.0	9.2	8.7	8.4	7.8	6.6	6.3	6.0	6.5	6.9	6.8	7.4	7.5	7.2	6.4	6.1	5.7	5.3	4.9	3.8	2.1	1.6	9.2	1.6	6.5
13	2.6	1.6	1.3	1.0	1.0	2.0	1.7	1.4	1.5	1.8	2.4	3.8	3.2	2.8	2.4	2.1	2.3	1.7	1.8	2.1	1.6	1.4	2.0	1.5	3.8	1.0	2.0
14	1.3	2.6	2.0	2.9	3.3	3.0	2.5	2.8	3.4	4.2	3.9	2.5	3.1	3.4	4.2	3.8	2.2	2.3	3.0	2.9	3.3	4.2	3.2	2.5	4.2	1.3	3.0
15	2.5	3.9	3.5	5.1	4.7	4.0	3.6	2.9	2.9	4.4	2.8	1.5	1.3	1.6	1.2	1.1	2.2	2.2	3.0	1.4	3.4	3.9	5.0	5.0	5.1	1.1	3.1
16	4.6	5.4	5.9	5.5	5.3	5.4	5.1	5.8	7.0	7.4	7.4	6.9	7.3	6.0	4.5	4.6	5.2	3.3	3.8	4.2	4.0	4.5	5.0	4.6	7.4	3.3	5.4
17	4.6	4.3	4.7	6.3	6.1	5.9	5.2	5.5	6.1	5.5	5.9	7.2	8.8	7.8	7.7	7.7	7.2	7.2	7.8	6.5	7.5	7.4	7.7	7.0	8.8	4.3	6.6
18	8.4	9.3	8.6	8.4	8.5	7.8	8.2	7.8	7.8	7.7	8.1	9.0	9.5	8.9	8.0	6.8	4.8	3.6	1.7	0.5	0.8	0.6	0.5	0.8	9.5	0.5	6.1
19	2.1	1.3	2.1	2.3	2.1	2.0	2.6	3.3	1.7	3.2	2.6	1.3	2.3	2.9	4.4	3.7	3.1	2.4	2.4	1.6	0.8	2.6	4.1	4.2	4.4	0.8	2.6
20	4.4	4.5	3.6	3.7	4.8	5.0	4.3	3.3	1.7	1.5	1.7	1.1	1.3	3.4	4.0	5.0	4.9	4.2	5.9	6.0	6.0	6.9	7.0	6.1	7.0	1.1	4.2
21	5.9	5.8	4.9	4.9	4.0	4.6	3.4	3.4	1.5	1.6	3.3	3.1	1.7	1.8	1.0	1.3	2.9	3.0	2.5	3.5	3.2	2.3	2.4	4.0	5.9	1.0	3.2
22	6.2	6.7	6.9	7.0	6.9	8.2	8.9	9.2	9.5	8.9	8.9	6.4	6.1	6.2	5.4	5.0	2.5	1.7	1.3	1.4	3.5	4.1	4.0	3.7	9.5	1.3	5.8
23	3.5	2.5	2.7	1.4	1.3	1.5	2.8	3.5	4.9	5.8	4.1	4.3	3.2	4.2	1.7	2.0	2.4	5.3	7.9	6.6	7.3	6.6	6.8	5.1	7.9	1.3	4.1
24	6.1	7.9	8.0	8.9	8.4	7.9	7.6	5.5	6.2	6.8	4.4	3.0	1.6	1.8	2.9	3.6	2.4	1.2	2.5	5.1	5.1	4.4	4.7	4.5	8.9	1.2	5.0
25	4.4	4.4	3.6	2.1	4.7	4.2	4.8	4.7	5.2	5.3	4.6	1.6	0.9	1.5	1.7	1.2	1.2	1.9	1.7	4.4	3.7	3.7	4.8	6.1	6.1	0.9	3.4
26	3.7	5.3	5.7	5.3	5.3	5.3	5.5	5.8	7.1	6.6	3.8	2.6	1.7	2.1	2.0	2.5	1.8	2.0	0.9	2.9	4.0	3.9	3.7	3.5	7.1	0.9	3.9
27	3.0	3.8	2.4	2.1	3.5	2.5	1.7	2.0	3.0	1.0	1.0	2.6	2.9	3.0	3.3	3.2	2.8	2.5	2.1	1.5	1.3	1.1	2.2	2.2	3.8	1.0	2.4
28	2.2	2.8	2.6	3.8	3.8	4.0	4.2	4.1	3.2	1.4	0.9	1.6	3.5	3.2	3.5	3.0	2.8	2.4	3.7	2.3	0.7	1.1	1.3	1.3	4.2	0.7	2.6
29	2.9	2.8	2.9	3.3	3.7	4.0	3.6	3.9	3.6	3.7	2.9	2.1	1.0	2.5	4.8	4.7	4.2	1.1	1.3	1.1	0.8	1.0	2.3	3.8	4.8	0.8	2.8
30	4.8	3.9	4.4	5.1	4.4	5.8	6.4	6.8	7.4	6.3	6.9	6.7	7.8	7.3	7.8	8.2	7.8	7.2	6.3	6.4	5.0	5.1	6.5	6.4	8.2	3.9	6.3
31	6.7	7.0	6.7	6.1	6.6	6.3	7.3	7.4	7.2	8.0	7.8	7.7	8.5	8.0	8.3	7.6	6.7	5.7	4.6	2.1					8.5	2.1	6.8
Max.	**12.7**	**14.4**	**12.8**	**12.3**	**14.2**	**12.7**	**13.3**	**16.2**	**11.8**	**11.1**	**11.5**	**11.5**	**10.5**	**9.9**	**9.5**	**10.8**	**11.3**	**14.5**	**11.2**	**9.4**	**10.4**	**10.6**	**9.2**	**11.7**	**16.2**		
Min.	**1.3**	**1.3**	**1.3**	**1.0**	**1.0**	**1.5**	**1.7**	**1.4**	**1.4**	**1.0**	**0.9**	**1.1**	**0.9**	**1.5**	**1.0**	**1.1**	**1.2**	**1.1**	**0.9**	**0.5**	**0.7**	**0.6**	**0.5**	**0.8**		**0.5**	
Avg.	**5.3**	**5.3**	**5.1**	**5.3**	**5.6**	**5.7**	**5.6**	**5.5**	**5.6**	**5.7**	**5.6**	**5.2**	**5.0**	**5.1**	**4.9**	**4.8**	**4.5**	**4.4**	**4.6**	**4.4**	**4.5**	**4.7**	**4.8**	**4.7**			**5.1**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

April *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1					4.3	4.3	5.5	7.7	7.6	8.0	7.6	5.6	4.8	7.1	6.0	4.6	4.8	4.8	4.7	5.2	4.3	4.5	4.3	5.6	8.0	4.3	5.6
2	3.8	5.7	7.0	5.1	7.6	5.1	3.3	3.9	3.6	2.0	2.5	1.5	1.7	1.6	1.5	2.4	2.9	2.5	2.3	2.8	3.7	5.1	5.2	5.9	7.6	1.5	3.7
3	6.8	6.7	6.3	6.7	6.8	7.2	7.4	7.5	7.4	8.0	7.9	8.1	8.2	8.3	8.2	7.3	7.2	6.4	6.1	6.0	5.5	5.6	6.5	6.0	8.3	5.5	7.0
4	6.4	5.5	5.5	5.5	5.2	5.8	5.5	5.4	5.8	4.8	4.3	2.3	1.3	0.8	1.1	1.1	1.0	1.1	0.8	0.9	0.9	1.0	0.9	1.1	6.4	0.8	3.1
5	2.3	4.9	4.2	5.1	3.0	3.2	5.6	3.7	7.2	6.2	8.4	9.6	9.8	8.3	5.3	7.1	4.5	6.7	6.7	9.3	9.2	9.4	9.6	10.1	10.1	2.3	6.6
6	9.6	9.6	9.2	5.4	4.0	4.4	5.4	5.0	6.2	4.7	2.5	2.4	2.6	3.0	3.8	2.9	2.8	2.7	2.0	2.0	2.4	1.5	0.8	1.3	9.6	0.8	4.0
7	1.8	0.9	2.6	3.1	1.3	3.6	3.5	3.6	3.8	2.1	2.1	2.1	1.5	1.1	1.2	1.6	2.1	1.6	1.8	1.8	1.5	2.8	2.7	3.2	3.8	0.9	2.2
8	3.8	4.0	3.6	3.6	3.5	3.8	3.6	5.4	5.2	4.1	4.6	4.3	3.8	4.1	4.1	3.8	4.0	3.8	4.1	3.9	3.5	2.8	1.7	1.9	5.4	1.7	3.8
9	0.9	0.5	1.1	1.7	1.7	1.2	1.6	1.7	1.9	2.8	2.7	1.3	1.2	3.4	3.9	3.7	3.5	3.0	1.0	1.2	1.6	3.6	2.8	4.8	4.8	0.5	2.2
10	5.0	6.5	5.5	5.1	4.7	6.6	7.2	7.8	8.2	8.7	9.2	9.8	7.0	8.5	12.1	14.8	12.5	9.3	3.2	3.6	7.8	10.1	7.7	6.9	14.8	3.2	7.8
11	6.8	6.8	4.5	4.6	3.6	3.5	3.4	3.6	3.0	2.5	3.8	3.4	3.4	4.3	6.7	8.4	9.2	8.5	8.0	8.2	8.4	8.7	8.9	8.0	9.2	2.5	5.8
12	8.3	8.3	8.5	8.4	8.4	8.3	8.3	8.2	7.8	7.7	7.9	7.5	7.1	6.6	5.0	2.8	0.7	0.4	0.7	1.8	2.3	3.9	4.8	4.4	8.5	0.4	5.8
13	6.8	8.5	9.6	9.2	9.0	9.2	9.0	9.2	8.6	7.5	9.1	8.1	9.7	12.9	13.2	11.8	12.1	10.6	6.7	7.0	8.9	10.2	10.6	10.5	13.2	6.7	9.5
14	11.0	10.7	9.9	9.5	11.1	11.1	11.2	10.5	10.1	11.0	10.9	10.5	10.8	10.2	10.0	8.9	7.8	6.8	5.0	6.3	7.0	9.6	8.7	7.9	11.2	5.0	9.4
15	7.3	7.9	6.3	7.0	6.1	4.3	4.4	5.4	5.9	9.2	7.4	9.8	10.6	8.2	7.9	7.1	7.0	7.3	5.8	4.3	2.8	3.1	3.0	4.8	10.6	2.8	6.4
16	3.6	5.3	4.2	3.7	4.6	6.6	7.3	8.2	8.5	7.9	7.8	8.1	8.2	7.7	9.5	10.4	10.1	10.6	10.8	11.1	11.3	11.4	10.6	10.5	11.4	3.6	8.2
17	10.6	10.7	10.5	11.3	10.1	9.2	7.8	5.6	3.0	5.7	4.9	4.8	3.9	5.4	5.3	5.4	4.7	4.4	4.7	5.1	3.3	2.7	2.5	2.8	11.3	2.5	6.0
18	1.5	4.6	1.8	2.5	1.3	1.5	2.0	2.2	2.3	1.9	1.1	2.2	3.0	3.1	3.5	3.6	2.2	1.1	1.0	3.6	4.4	4.3	3.6	2.7	4.6	1.0	2.5
19	6.1	8.2	8.7	8.4	8.8	9.5	9.0	6.8	3.9	3.6	3.8	3.4	3.8	3.9	1.4	2.0	2.7	1.6	0.7	0.8	2.1	2.0	1.8	3.0	9.5	0.7	4.4
20	1.7	1.7	2.5	3.7	4.1	3.9	4.1	3.8	4.1	4.2	4.6	2.1	2.2	2.6	3.1	4.0	4.8	3.7	4.0	3.0	3.7	4.5	6.2	6.0	6.2	1.7	3.7
21	6.5	7.8	8.5	8.6	9.1	8.9	9.3	9.6	9.7	9.2	9.2	8.6	7.2	5.6	4.8	2.1	2.8	2.1	2.5	4.4	3.9	3.4	3.3	3.1	9.7	2.1	6.3
22	3.8	4.1	4.4	4.8	4.2	3.8	3.7	3.4	3.1	2.8	1.3	1.4	1.2	1.3	2.0	2.1	2.2	2.0	1.8	1.9	1.5	1.5	1.7	3.0	4.8	1.2	2.6
23	2.6	3.8	3.9	4.5	3.9	4.2	4.3	4.1	2.9	3.2	3.8	4.7	4.1	3.2	1.9	3.4	3.9	1.7	0.9	4.5	6.3	5.7	6.8	6.6	6.8	0.9	3.9
24	4.3	3.1	2.0	1.7	3.6	6.3	4.6	3.4	2.0	4.5	4.4	4.6	5.9	9.0	8.2	7.6	5.7	4.5	9.7	11.1	6.5	6.3	9.6	9.3	11.1	1.7	5.7
25	7.1	4.6	1.6	2.4	2.2	2.6	3.4	4.2	4.4	4.3	3.7	4.6	5.1	4.3	5.0	4.6	4.7	5.4	4.9	5.1	5.2	4.8	5.9	4.7	7.1	1.6	4.4
26	5.9	6.2	6.5	6.1	5.8	6.8	6.6	6.6	7.0	7.5	7.2	7.4	6.6	6.7	6.3	6.4	5.7	4.7	4.7	4.8	4.9	5.0	3.6	4.0	7.5	3.6	6.0
27	5.1	5.2	5.0	4.7	4.8	5.2	5.3	5.7	5.0	4.8	4.4	4.2	3.1	2.4	1.2	1.8	2.0	1.8	1.1	1.0	1.0	1.7	2.0	2.8	5.7	1.0	3.4
28	3.7	3.7	4.1	3.8	2.6	2.4	3.0	1.9	2.6	2.1	2.0	1.4	2.0	3.0	2.3	2.5	2.9	2.5	1.5	0.8	1.0	1.5	1.9	1.9	4.1	0.8	2.4
29	1.9	3.1	7.2	7.2	8.2	8.9	8.1	9.9	9.2	6.4	5.6	3.3	3.1	3.2	3.5	5.0	5.1	4.9	4.3	3.9	5.1	4.4	3.1	3.0	9.9	1.9	5.3
30	2.9	2.9	3.2	2.5	3.0	3.5	5.3	3.6	4.0	6.1	5.4	2.6	1.9	2.5	3.9	3.1	2.0	2.0	1.1	2.3	2.2	2.5	2.4	2.6	6.1	1.1	3.1
Max.	**11.0**	**10.7**	**10.5**	**11.3**	**11.1**	**11.1**	**11.2**	**10.5**	**10.1**	**11.0**	**10.9**	**10.5**	**10.8**	**12.9**	**13.2**	**14.8**	**12.5**	**10.6**	**10.8**	**11.1**	**11.3**	**11.4**	**10.6**	**10.5**	**14.8**		
Min.	**0.9**	**0.5**	**1.1**	**1.7**	**1.3**	**1.2**	**1.6**	**1.7**	**1.9**	**1.9**	**1.1**	**1.3**	**1.2**	**0.8**	**1.1**	**1.1**	**0.7**	**0.4**	**0.7**	**0.8**	**0.9**	**1.0**	**0.8**	**1.1**		**0.4**	
Avg.	**5.1**	**5.6**	**5.5**	**5.4**	**5.2**	**5.5**	**5.6**	**5.6**	**5.5**	**5.4**	**5.3**	**5.0**	**4.8**	**5.1**	**5.1**	**5.1**	**4.8**	**4.3**	**3.7**	**4.3**	**4.4**	**4.8**	**4.8**	**4.9**			**5.0**

Total Hours in Month 720 **Hours Data Available** 716 **Data Recovery** 99.4%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.2	3.3	3.3	5.0	5.0	5.0	4.7	6.3	7.4	8.3	8.1	8.8	9.2	10.0	9.9	10.3	10.0	10.2	10.9	11.5	11.1	10.8	10.5	10.7	11.5	3.2	8.1
2	10.5	10.3	9.6	9.1	8.6	9.0	8.3	7.9	7.0	7.4	8.2	7.4	6.5	5.8	5.4	4.8	4.6	4.1	4.6	3.6	3.9	3.4	2.2	3.5	10.5	2.2	6.5
3	4.4	4.1	4.1	3.8	4.4	4.9	5.6	5.0	6.3	7.1	9.1	9.2	9.3	8.8	6.4	3.9	4.9	5.1	4.7	4.3	4.6	5.0	5.6	6.6	9.3	3.8	5.7
4	7.5	7.3	7.3	5.5	3.2	3.3	2.5	3.6	2.9	2.4	2.6	2.3	2.5	2.1	2.8	2.6	2.5	3.5	3.5	3.7	3.6	4.8	5.2	6.0	7.5	2.1	3.9
5	6.9	6.3	4.5	6.3	6.9	7.2	7.6	8.1	9.4	8.9	8.7	8.0	7.0	5.3	2.2	2.2	2.0	1.6	1.5	1.0	1.3	2.0	1.7	4.0	9.4	1.0	5.0
6	3.2	1.2	1.3	1.1	1.5	0.9	0.6	1.1	1.4	0.7	1.1	1.0	1.2	1.1	2.7	5.1	6.3	7.6	8.1	7.6	7.7	8.0	8.0	8.8	8.8	0.6	3.6
7	10.2	9.7	10.2	10.2	9.8	9.3	9.5	9.6	9.2	9.4	8.4	9.1	7.3	5.9	5.9	7.1	7.8	6.1	5.0	5.5	6.0	5.6	7.3	7.3	10.2	5.0	8.0
8	6.0	4.3	3.3	2.3	2.0	2.8	4.1	4.4	4.3	5.2	5.2	5.6	6.8	7.4	6.6	6.6	6.7	7.1	6.8	7.8	7.3	7.6	8.2	8.6	8.6	2.0	5.7
9	9.3	9.5	10.1	10.7	10.4	9.2	9.9	10.0	11.3	11.0	10.2	10.2	10.6	10.4	10.1	9.7	10.3	9.4	8.6	8.7	7.6	6.0	6.2	6.3	11.3	6.0	9.4
10	7.0	6.7	9.0	6.5	5.4	3.7	4.8	4.9	4.1	2.2	3.5	2.5	1.8	1.8	1.0	1.0	1.9	1.0	1.3	1.6	2.1	0.9	2.4	2.2	9.0	0.9	3.3
11	1.0	2.3	3.8	2.6	1.0	2.0	1.9	3.5	2.8	2.5	2.3	1.6	1.2	1.3	1.1	2.3	2.2	1.7	1.0	1.7	3.2	4.1	4.1	3.4	4.1	1.0	2.3
12	3.7	4.2	3.2	2.9	3.2	2.5	2.3	4.4	4.9	4.2	4.2	2.4	1.3	5.9	5.6	4.8	3.0	1.4	1.0	0.9	0.9	2.4	3.4	3.9	5.9	0.9	3.2
13	3.6	2.9	2.6	2.5	2.6	3.0	3.0	4.4	4.5	3.6	3.5	3.6	3.0	2.2	1.2	2.6	2.3	1.4	0.9	0.7	2.4	2.2	1.1	0.8	4.5	0.7	2.5
14	0.6	1.0	0.9	2.0	1.8	2.5	3.1	3.6	1.1	2.9	3.7	2.7	2.1	2.6	2.6	2.2	2.1	2.1	2.3	2.5	2.1	1.2	1.3	2.3	3.7	0.6	2.1
15	1.5	1.3	2.1	1.4	1.5	0.9	1.1	2.1	2.4	1.2	1.2	1.9	2.8	3.8	4.8	5.0	5.3	5.0	3.7	2.8	1.8	1.2	1.7	1.0	5.3	0.9	2.4
16	0.9	4.4	5.5	6.0	5.9	5.8	4.9	3.1	2.6	3.7	3.1	2.5	2.8	3.1	3.0	3.7	4.7	4.1	4.3	1.9	1.6	1.4	1.3	0.7	6.0	0.7	3.4
17	1.1	2.0	3.6	4.2	4.0	4.4	5.4	6.1	6.3	6.6	5.6	4.4	3.6	2.6	3.0	3.4	2.9	2.2	1.5	1.6	1.2	2.0	1.2	1.4	6.6	1.1	3.4
18	2.0	2.6	2.3	2.7	2.1	1.7	2.8	1.3	1.6	3.2	2.1	2.6	3.8	4.5	6.0	5.4	6.3	5.8	6.2	5.9	4.8	5.5	6.1	8.7	8.7	1.3	4.0
19	9.2	8.5	8.5	7.2	4.3	4.6	3.5	3.4	4.8	2.5	2.1	1.7	2.2	3.1	2.4	1.8	2.5	3.2	5.6	6.4	5.4	3.6	4.3	5.4	9.2	1.7	4.4
20	6.0	6.7	6.3	5.6	5.7	6.8	6.8	6.0	6.1	6.3	6.2	5.7	5.7	6.3	7.0	6.0	5.2	4.3	3.7	2.0	0.9	1.8	1.5	1.6	7.0	0.9	5.0
21	2.6	2.5	2.5	2.8	2.6	2.7	3.5	3.4	5.1	5.8	5.6	6.1	6.0	4.1	3.4	5.5	3.6	3.2	4.1	5.1	6.0	7.5	7.9	7.6	7.9	2.5	4.5
22	7.3	4.8	4.7	3.7	4.6	4.7	5.1	5.2	4.8	4.1	2.3	2.4	3.6	4.4	5.8	5.7	6.2	6.8	7.0	4.6	1.5	2.8	2.2	2.8	7.3	1.5	4.5
23	3.4	2.6	1.3	1.1	1.3	1.2	2.3	4.3	1.2	1.9	3.0	1.6	3.2	4.7	3.7	2.2	2.2	1.7	1.1	0.6	0.9	3.4	3.9	3.9	4.7	0.6	2.4
24	4.3	4.5	3.7	2.4	1.0	3.1	1.5	2.2	1.5	1.9	2.1	3.0	4.3	2.1	1.6	1.6	2.0	1.2	0.5	0.6	0.9	2.4	2.6	2.6	4.5	0.5	2.2
25	2.1	3.2	1.4	0.6	1.2	2.3	1.2	1.0	1.2	2.3	1.8	1.3	2.0	1.5	1.7	1.6	1.0	0.8	0.7	0.6	1.1	2.2	3.1	4.4	4.4	0.6	1.7
26	4.0	3.5	3.4	3.2	3.3	3.0	3.7	4.4	3.5	2.5	1.4	1.8	2.0	1.5	1.1	2.8	1.6	1.4	1.5	1.3	1.9	2.4	3.5	3.9	4.4	1.1	2.6
27	3.9	2.9	1.2	1.3	2.5	1.9	2.1	2.3	2.4	2.0	1.9	1.5	1.0	1.0	1.9	1.5	1.7	1.5	1.7	1.2	1.3	3.4	4.5	3.1	4.5	1.0	2.1
28	4.0	3.4	2.7	3.5	3.1	4.1	3.6	1.1	1.9	3.8	5.3	7.1	5.2	5.0	5.1	4.5	4.1	2.5	1.7	1.3	0.9	1.2	2.1	2.3	7.1	0.9	3.3
29	1.1	1.0	1.2	1.3	1.7	3.0	3.9	3.2	2.3	1.8	1.2	1.7	1.5	1.5	1.7	1.4	1.5	1.5	1.3	1.7	0.8	1.4	1.2	1.3	3.9	0.8	1.7
30	1.4	1.3	1.3	1.7	1.4	2.1	2.7	3.5	2.6	2.2	0.8	1.2	0.9	1.1	1.8	1.3	1.2	1.1	1.0	1.5	1.4	0.9	1.2	1.0	3.5	0.8	1.5
31	1.0	2.8	2.5	2.7	2.3	1.5	1.6	1.0	1.1	1.5	1.9	2.5	2.4	2.4	2.7	3.1	2.2	1.8	2.4	1.5	1.8	1.4	1.0	1.2	3.1	1.0	1.9
Max.	**10.5**	**10.3**	**10.2**	**10.7**	**10.4**	**9.3**	**9.9**	**10.0**	**11.3**	**11.0**	**10.2**	**10.2**	**10.6**	**10.4**	**10.1**	**10.3**	**10.3**	**10.2**	**10.9**	**11.5**	**11.1**	**10.8**	**10.5**	**10.7**	**11.5**		
Min.	**0.6**	**1.0**	**0.9**	**0.6**	**1.0**	**0.9**	**0.6**	**1.0**	**1.1**	**0.7**	**0.8**	**1.0**	**0.9**	**1.0**	**1.0**	**1.0**	**1.0**	**0.8**	**0.5**	**0.6**	**0.8**	**0.9**	**1.0**	**0.7**		**0.5**	
Avg.	**4.3**	**4.2**	**4.1**	**3.9**	**3.7**	**3.8**	**4.0**	**4.2**	**4.1**	**4.2**	**4.1**	**4.0**	**4.0**	**4.0**	**3.9**	**3.9**	**3.9**	**3.6**	**3.5**	**3.3**	**3.2**	**3.5**	**3.8**	**4.1**			**3.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	1.1	1.2	2.1	4.1	3.1	2.2	2.4	2.3	1.7	1.3	1.4	2.4	2.9	3.8	3.6	2.8	2.2	1.5	0.9	1.3	0.9	0.9	1.9	4.3	4.3	0.9	2.2
2	4.5	3.9	3.9	3.2	3.1	2.6	4.1	4.0	3.6	4.6	5.1	3.9	2.7	2.4	3.5	4.9	3.8	3.0	1.8	1.3	1.5	2.3	1.7	1.2	5.1	1.2	3.2
3	1.5	1.2	1.5	5.7	4.0	5.7	9.1	9.7	8.5	5.3	7.2	8.0	8.0	3.9	4.8	6.1	5.5	4.0	3.5	3.1	5.8	6.3	3.9	5.7	9.7	1.2	5.3
4	6.2	7.0	5.5	3.4	3.0	3.9	3.5	3.3	2.2	1.2	2.6	3.6	3.4	3.7	3.9	3.9	4.1	4.0	3.0	2.8	2.4	2.2	1.7	2.9	7.0	1.2	3.5
5	3.8	3.2	2.9	1.2	1.7	1.5	3.0	2.0	1.2	1.8	4.3	3.8	3.8	3.6	3.9	3.9	3.7	3.1	2.8	2.6	2.6	1.8	1.3	1.9	4.3	1.2	2.7
6	3.1	2.8	2.1	1.0	2.3	1.8	1.9	1.3	1.9	3.4	2.5	2.3	2.4	2.1	2.2	1.9	2.2	1.7	1.6	2.9	1.1	1.7	1.5	2.6	3.4	1.0	2.1
7	3.5	4.1	4.0	3.0	2.5	1.6	2.8	1.9	2.2	3.0	2.3	2.2	2.1	2.2	2.2	1.9	2.0	2.3	2.8	2.3	2.4	4.6	3.8	2.9	4.6	1.6	2.7
8	3.1	3.3	3.4	4.3	4.1	4.3	4.7	5.4	5.5	6.1	6.5	7.2	6.9	6.1	6.3	6.7	6.1	6.5	6.5	7.0	7.0	7.5	6.8	7.6	7.6	3.1	5.8
9	7.7	8.1	7.8	8.1	8.7	9.1	8.3	8.8	9.3	9.3	9.2	9.0	7.9	7.6	7.8	7.5	6.4	3.8	3.2	4.7	5.0	4.1	3.0	3.8	9.3	3.0	7.0
10	3.1	2.4	1.8	2.3	2.3	2.6	3.2	3.5	3.0	2.2	2.4	2.4	2.0	3.1	3.1	2.6	3.4	3.4	3.1	3.0	3.4	5.1	4.1	3.4	5.1	1.8	3.0
11	3.7	3.7	2.8	3.4	3.4	3.5	4.4	5.2	5.1	4.5	4.4	6.5	6.8	6.1	5.6	5.7	6.0	6.1	5.6	6.9	6.0	6.3	6.8	6.4	6.9	2.8	5.2
12	6.1	5.6	5.5	4.5	5.0	5.0	4.7	4.2	3.8	3.8	2.3	1.3	0.9	1.1	1.0	0.7	1.9	1.9	1.6	2.0	1.7	2.2	2.1	1.4	6.1	0.7	2.9
13	1.5	2.0	2.0	1.8	1.9	0.7	0.7	2.3	1.6	0.6	1.2	1.6	2.9	3.1	2.6	3.0	3.8	3.1	1.8	1.9	1.4	1.4	0.7	0.7	3.8	0.6	1.9
14	0.5	1.3	1.0	2.1	0.8	0.5	0.7	1.2	0.6	1.5	1.6	1.3	2.1	1.9	1.2	0.9	2.2	3.8	2.3	1.8	1.5	2.0	2.8	2.5	3.8	0.5	1.6
15	2.9	2.8	3.5	2.2	1.8	1.4	2.1	1.7	2.0	1.0	2.0	2.7	2.7	2.7	2.2	1.3	1.2	1.3	0.8	1.4	0.9	0.6	0.7	0.7	3.5	0.6	1.8
16	0.8	1.4	1.2	1.2	3.1	3.2	2.1	3.0	2.8	1.9	1.4	1.4	1.3	1.5	1.5	1.3	1.6	1.3	0.8	0.7	1.3	3.6	3.8	3.6	3.8	0.7	1.9
17	3.9	2.9	1.8	1.4	1.9	2.8	3.4	3.2	3.9	4.4	4.6	3.1	3.2	4.0	3.3	3.4	5.0	5.9	5.3	4.7	3.2	1.5	2.4	3.0	5.9	1.4	3.4
18	3.0	1.1	3.5	3.3	3.9	3.9	4.3	4.5	6.5	6.4	5.8	5.7	5.4	5.6	5.6	5.5	4.6	4.5	4.9	4.0	4.5	3.4	3.7	4.5	6.5	1.1	4.5
19	4.9	4.6	4.6	5.6	6.3	6.3	5.9	6.2	6.0	4.8	4.8	4.0	4.7	4.1	3.6	2.3	3.2	4.3	2.5	2.7	2.5	1.1	3.6	3.7	6.3	1.1	4.3
20	2.9	3.5	2.2	1.9	1.7	1.1	1.4	3.9	5.5	4.2	4.3	4.2	4.2	2.2	1.6	2.6	2.0	1.5	1.1	1.4	1.9	1.8	1.2	1.0	5.5	1.0	2.5
21	1.7	2.9	2.4	2.1	1.9	1.9	2.7	2.7	2.5	1.7	2.0	2.6	2.4	3.4	3.4	3.4	3.9	3.9	3.9	2.9	3.3	1.9	1.8	1.2	3.9	1.2	2.6
22	1.5	2.3	1.8	1.5	1.6	2.8	2.5	1.0	0.9	1.8	1.4	1.4	2.1	2.7	2.3	1.4	1.2	2.5	2.8	2.0	1.9	1.9	2.0	2.8	2.8	0.9	1.9
23	2.7	2.3	1.8	1.7	1.0	1.1	4.3	2.3	2.9	2.5	2.1	1.6	1.8	2.8	3.4	3.8	4.6	3.8	4.2	3.1	1.5	2.5	1.6	0.9	4.6	0.9	2.5
24	0.9	0.8	1.4	1.8	1.4	2.0	2.0	1.9	1.2	1.3	3.0	3.5	3.1	3.3	3.7	3.2	3.4	3.2	2.7	2.0	1.4	0.8	1.4	2.2	3.7	0.8	2.2
25	2.7	2.6	2.5	1.3	1.6	3.5	2.4	2.6	4.0	5.2	3.4	3.5	5.1	6.0	4.0	5.1	2.8	5.8	4.3	2.4	2.0	1.5	1.3	1.2	6.0	1.2	3.2
26	1.7	1.5	1.5	1.5	1.4	2.5	2.6	2.0	1.5	1.8	2.1	2.8	2.2	1.9	1.7	1.0	1.6	1.8	0.8	0.7	1.0	0.6	1.0	1.8	2.8	0.6	1.6
27	0.9	1.6	0.8	1.0	0.9	1.5	2.0	1.4	1.9	1.9	3.0	3.4	3.4	3.5	3.3	3.2	3.1	2.6	2.0	1.5	4.1	7.5	6.8	8.3	8.3	0.8	2.9
28	9.3	9.4	6.9	7.3	8.0	10.9	10.2	9.1	8.8	9.9	9.0	6.8	6.8	6.4	7.4	5.3	6.7	6.7	5.2	6.9	6.5	5.5	7.3	6.2	10.9	5.2	7.6
29	7.1	6.9	6.6	6.5	6.2	6.1	5.2	2.1	2.9	1.6	1.9	2.9	2.8	3.3	2.4	2.9	1.9	1.3	2.0	1.9	2.2	2.3	2.4	2.6	7.1	1.3	3.5
30	2.6	3.4	2.7	2.3	3.1	4.0	4.0	4.3	4.4	2.6	1.3	2.4	3.0	2.8	3.3	3.3	3.0	2.8	3.2	2.1	5.1	5.7	4.9	4.7	5.7	1.3	3.4
Max.	**9.3**	**9.4**	**7.8**	**8.1**	**8.7**	**10.9**	**10.2**	**9.7**	**9.3**	**9.9**	**9.2**	**9.0**	**8.0**	**7.6**	**7.8**	**7.5**	**6.7**	**6.7**	**6.5**	**7.0**	**7.0**	**7.5**	**7.3**	**8.3**	**10.9**		
Min.	**0.5**	**0.8**	**0.8**	**1.0**	**0.8**	**0.5**	**0.7**	**1.0**	**0.6**	**0.6**	**1.2**	**1.3**	**0.9**	**1.1**	**1.0**	**0.7**	**1.2**	**1.3**	**0.8**	**0.7**	**0.9**	**0.6**	**0.7**	**0.7**		**0.5**	
Avg.	**3.3**	**3.3**	**3.1**	**3.0**	**3.1**	**3.3**	**3.7**	**3.6**	**3.6**	**3.4**	**3.5**	**3.6**	**3.6**	**3.6**	**3.5**	**3.4**	**3.4**	**3.4**	**2.9**	**2.8**	**2.9**	**3.0**	**2.9**	**3.2**			**3.3**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (Climatronics) (m/s)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.3	3.1	3.7	4.1	2.8	2.4	3.1	3.0	1.8	1.5	2.3	2.5	3.0	3.2	3.8	4.3	4.5	4.1	3.3	4.0	4.9	2.9	3.1	6.2	6.2	1.5	3.4
2	7.0	8.6	6.3	4.2	5.0	4.9	3.9	4.0	5.1	4.5	1.6	1.5	2.0	1.7	2.1	3.9	6.1	6.0	5.1	2.7	2.0	1.7	2.2	2.8	8.6	1.5	4.0
3	2.4	2.9	2.9	2.0	1.4	2.7	2.8	2.0	2.7	1.9	2.2	2.2	3.0	3.3	3.6	4.1	2.5	1.5	1.6	2.1	2.5	1.9	1.7	1.1	4.1	1.1	2.4
4	1.5	1.6	1.7	1.3	1.4	1.9	1.7	1.1	2.2	2.9	2.9	3.1	3.6	3.4	3.6	3.9	3.2	3.1	2.5	2.8	1.6	1.8	1.3	0.9	3.9	0.9	2.3
5	1.4	1.8	3.0	2.6	1.5	2.0	2.7	2.2	1.5	2.8	3.1	2.8	2.0	2.3	2.2	2.5	2.4	2.3	2.6	2.3	1.6	1.5	1.2	1.6	3.1	1.2	2.2
6	1.2	0.5	0.7	0.7	1.6	0.8	1.6	1.8	1.8	2.0	2.3	1.9	2.3	2.6	2.8	2.9	2.9	3.0	2.3	1.7	1.8	1.2	1.3	2.2	3.0	0.5	1.8
7	1.3	2.1	1.3	1.6	1.5	1.1	1.5	1.5	1.3	2.0	2.2	2.7	2.1	2.6	3.9	2.7	2.2	1.8	1.9	1.7	1.7	1.1	2.9	2.8	3.9	1.1	2.0
8	2.9	2.4	1.3	1.1	0.8	2.1	2.0	3.4	3.6	6.3	6.3	5.9	6.0	6.4	5.5	3.7	2.1	2.2	4.7	5.5	5.2	4.3	2.2	2.4	6.4	0.8	3.7
9	2.4	2.8	2.4	2.8	2.3	2.8	2.8	2.8	1.2	1.4	2.2	2.9	3.2	3.3	3.0	2.5	2.0	1.4	2.0	1.6	2.7	1.6	2.5	2.3	3.3	1.2	2.4
10	2.3	2.0	2.6	2.6	2.3	2.3	2.2	2.2	2.4	1.4	1.3	1.8	1.8	2.9	2.6	2.8	2.8	1.8	2.8	1.3	1.6	2.7	1.5	1.4	2.9	1.3	2.1
11	0.8	1.2	1.7	1.4	1.2	0.9	1.5	1.9	1.7	2.6	3.8	4.0	2.9	2.3	4.3	3.3	2.9	1.9	1.1	3.2	4.3	1.7	1.1	1.0	4.3	0.8	2.2
12	0.8	1.6	1.4	1.6	1.9	2.2	2.7	3.0	2.7	2.1	1.2	2.2	2.5	2.5	2.2	1.5	1.5	3.1	5.8	6.5	4.2	5.2	3.9	3.5	6.5	0.8	2.8
13	2.3	5.3	4.6	2.1	4.3	7.7	6.3	6.2	7.9	7.7	9.1	10.1	10.3	11.4	11.5	12.0	11.4	11.9	12.7	12.7	13.0	11.0	9.5	8.9	13.0	2.1	8.7
14	9.5	9.5	10.1	9.2	9.7	7.7	6.6	6.4	7.3	8.7	9.1	9.2	6.7	7.1	6.9	7.4	5.2	4.0	5.4	3.0	7.0	6.3	5.9	4.2	10.1	3.0	7.2
15	4.4	3.3	6.7	6.6	6.9	7.4	6.7	6.3	4.2	3.6	3.6	3.5	3.2	4.7	5.9	2.8	2.1	1.9	2.0	1.8	1.2	0.9	1.4	1.4	7.4	0.9	3.9
16	1.8	1.6	2.7	1.9	2.0	2.9	3.5	3.4	2.1	1.5	1.7	2.0	1.9	2.1	2.3	1.7	2.0	2.0	2.0	1.8	2.6	1.9	2.4	2.1	3.5	1.5	2.2
17	2.8	3.0	4.3	3.3	2.6	2.9	2.4	2.4	2.2	2.4	1.9	1.9	2.7	5.1	5.2	4.4	3.6	3.7	4.5	4.6	3.6	3.7	4.5	4.7	5.2	1.9	3.4
18	5.1	4.9	4.4	3.7	3.9	3.1	3.3	3.5	2.1	2.8	1.8	2.2	2.3	1.9	1.3	3.1	2.1	1.8	2.0	2.1	2.9	1.7	1.3	2.1	5.1	1.3	2.7
19	1.6	1.5	1.7	3.7	5.9	5.1	4.9	5.9	5.9	7.3	7.1	6.7	5.2	5.6	6.4	6.1	5.8	4.1	5.1	4.1	2.8	1.4	2.5	3.3	7.3	1.4	4.6
20	2.6	1.7	2.0	2.3	4.0	5.3	4.8	5.1	5.4	5.7	5.6	5.2	5.6	5.4	5.5	4.2	4.1	5.0	4.8	4.9	3.7	3.0	2.1	4.0	5.7	1.7	4.3
21	6.1	4.0	3.3	1.4	1.0	2.9	3.9	3.6	5.1	5.1	5.5	5.8	5.5	5.4	4.9	4.0	2.6	2.0	1.5	2.2	3.2	3.5	2.7	1.7	6.1	1.0	3.6
22	1.9	2.3	1.6	1.3	2.0	4.1	4.9	4.9	4.2	5.5	5.0	3.9	4.1	3.4	2.4	2.3	2.0	1.9	2.8	3.6	3.5	3.7	4.5	3.5	5.5	1.3	3.3
23	3.8	3.6	4.0	2.3	3.1	3.4	4.3	4.3	5.0	5.3	7.3	8.2	8.1	8.5	7.8	6.7	5.1	3.1	6.8	7.8	7.8	6.4	6.2	6.4	8.5	2.3	5.6
24	5.6	6.5	5.8	6.4	6.3	7.0	6.5	5.5	4.3	4.6	5.0	4.8	5.2	3.2	1.9	1.4	1.4	1.6	2.3	1.8	1.8	1.2	1.7	3.7	7.0	1.2	4.0
25	3.6	3.6	4.6	4.8	4.0	2.3	1.9	1.9	1.9	1.5	0.9	0.8	0.8	2.8	4.0	3.6	3.0	1.4	0.5	0.7	0.9	1.2	1.1	1.3	4.8	0.5	2.2
26	2.6	2.5	2.0	1.3	1.4	1.7	1.9	3.8	4.4	4.4	5.0	6.6	6.3	5.6	6.4	7.4	7.8	8.4	9.6	9.9	9.8	9.6	9.4	9.4	9.9	1.3	5.7
27	8.7	9.0	9.1	8.3	6.7	4.7	4.8	5.7	4.1	2.4	1.8	1.9	2.0	1.7	2.7	2.3	2.6	2.3	1.9	2.4	3.1	1.1	1.6	4.1	9.1	1.1	4.0
28	4.8	2.6	3.3	5.9	3.4	8.0	8.7	7.6	4.8	3.7	2.3	3.4	4.9	5.7	3.9	3.6	3.2	2.9	2.4	1.9	2.8	4.9	8.3	5.9	8.7	1.9	4.5
29	4.9	4.9	6.6	4.7	9.6	9.4	9.3	12.2	16.0	10.6	12.3	8.6	6.0	8.8	6.5	5.8	5.6	6.0	7.5	5.9	5.3	9.9	10.5	10.4	16.0	4.7	8.2
30	8.0	8.4	4.5	9.7	5.8	7.1	8.9	8.6	7.9	7.4	6.9	5.9	5.4	5.1	7.0	6.4	3.6	2.9	3.7	5.8	2.5	1.8	2.5	4.0	9.7	1.8	5.8
31	6.7	7.8	7.4	6.7	6.9	5.5	4.8	6.4	6.2	6.1	3.9	3.2	4.2	3.5	4.2	4.3	6.1	4.7	4.9	5.5	5.6	6.2	8.3	7.7	8.3	3.2	5.7
Max.	**9.5**	**9.5**	**10.1**	**9.7**	**9.7**	**9.4**	**9.3**	**12.2**	**16.0**	**10.6**	**12.3**	**10.1**	**10.3**	**11.4**	**11.5**	**12.0**	**11.4**	**11.9**	**12.7**	**12.7**	**13.0**	**11.0**	**10.5**	**10.4**	**16.0**		
Min.	**0.8**	**0.5**	**0.7**	**0.7**	**0.8**	**0.8**	**1.5**	**1.1**	**1.2**	**1.4**	**0.9**	**0.8**	**0.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.4**	**0.5**	**0.7**	**0.9**	**0.9**	**1.1**	**0.9**		**0.5**	
Avg.	**3.7**	**3.8**	**3.8**	**3.6**	**3.6**	**4.0**	**4.1**	**4.3**	**4.2**	**4.1**	**4.1**	**4.1**	**4.0**	**4.3**	**4.4**	**4.1**	**3.7**	**3.4**	**3.8**	**3.8**	**3.8**	**3.5**	**3.6**	**3.8**			**3.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	199.8	214.7	18.1	11.2	347.2	3.6	54.9	26.8	158.6	127.5	146.4	124.8	35.0	39.7	40.3	28.7	32.1	26.8	24.8	274.9	207.8	156.4	322.0	7.2
2	319.6	309.5	316.5	337.6	21.2	18.2	25.1	1.4	9.9	9.1	14.3	6.3	14.7	18.4	23.6	15.6	18.4	20.4	21.0	21.5	22.2	19.2	20.8	20.8
3	24.6	17.8	13.8	14.1	13.0	1.7	358.2	359.5	217.4	217.7	166.7	167.0	204.2	196.8	203.3	69.9	201.6	71.4	49.4	353.1	14.9	353.2	0.3	19.9
4	21.1	356.6	2.2	12.1	14.9	13.0	15.1	27.0	34.0	37.0	45.2	177.9	199.7	200.3	205.3	199.9	210.5	194.8	50.5	41.5	11.0	345.3	307.3	303.6
5	299.5	300.9	298.1	307.8	312.2	311.3	312.1	318.9	316.7	320.8	322.4	326.7	75.8	350.8	119.7	149.3	300.9	316.8	316.3	318.6	323.5	337.1	314.4	317.0
6	315.3	314.4	314.5	314.3	315.2	316.8	316.0	317.0	317.2	322.8	97.4	126.4	121.7	72.1	174.3	93.7	187.9	171.1	23.0	70.4	4.1	10.3	358.8	168.4
7	91.9	348.7	349.0	15.6	39.2	188.3	303.7	317.5	321.0	311.6	321.5	302.5	319.0	319.9	318.7	315.8	311.6	318.7	317.5	313.7	309.0	1.4	6.7	4.8
8	6.3	6.9	9.4	1.0	15.5	15.2	19.0	33.7	43.1	148.3	195.5	202.6	201.9	203.8	201.0	205.2	200.5	208.7	216.0	214.0	220.4	17.5	21.0	28.3
9	23.4	26.9	29.4	22.9	224.9	223.6	34.5	40.7	127.2	201.7	188.3	207.9	207.4	202.1	208.0	201.0	206.5	207.2	222.3	225.5	227.9	281.8	9.9	339.5
10	358.8	28.0	178.2	217.1	246.1	18.2	28.5	35.6	169.7	198.2	184.8	176.5	191.6	198.1	197.3	206.5	201.3	189.6	193.5	217.5	220.1	213.5	198.0	218.8
11	218.7	230.6	286.8	42.0	68.2	195.0	319.7	204.2	200.1	195.6	197.1	189.9	196.3	188.7	187.6	195.1	206.3	216.3	211.1	234.8	21.0	26.7	29.5	29.0
12	22.8	11.2	32.1	32.8	26.8	29.2	32.2	82.4	151.8	200.7	200.0	199.5	197.5	198.0	202.9	200.6	201.1	211.6	218.1	222.1	212.6	201.5	184.9	186.9
13	215.7	197.3	253.4	252.3	156.8	134.8	215.0	250.3	165.4	168.9	168.7	176.2	190.9	187.3	186.4	186.1	198.9	205.7	199.5	203.2	204.1	233.9	230.8	226.3
14	230.5	224.6	181.2	229.6	214.7	215.7	224.2	228.7	224.7	217.6	183.5	190.1	178.2	189.2	194.9	204.1	206.3	206.8	213.9	215.7	229.7	243.3	246.2	215.9
15	186.0	212.9	231.0	236.5	271.3	264.9	42.7	25.0	1.5	39.9	299.1	285.7	279.5	230.3	189.2	195.2	203.1	222.1	233.5	270.2	269.4	239.6	238.3	216.4
16	9.3	23.1	21.8	23.5	8.9	21.4	19.5	24.5	22.3	19.5	17.7	97.2	8.1	0.0	325.8	319.4	318.9	317.0	10.7	12.6	356.7	354.5	3.4	3.6
17	4.6	357.6	8.3	12.9	8.2	0.7	354.0	1.4	357.8	0.7	2.9	1.8	8.9	6.2	13.4	16.2	15.7	20.8	18.3	17.0	18.0	14.1	9.6	12.1
18	9.6	3.8	5.5	9.4	10.6	20.2	15.5	18.3	26.3	112.3	171.0	229.0	210.1	205.0	200.1	205.7	202.1	206.1	201.3	170.0	130.6	3.6	18.9	314.1
19	349.4	24.2	337.5	4.8	17.0	22.7	25.2	37.5	43.3	162.7	180.1	197.3	192.9	200.4	202.9	240.7	306.0	299.9	323.7	336.3	292.8	303.3	327.8	34.5
20	15.0	346.5	309.0	312.2	347.5	83.7	47.6	59.9	347.5	359.9	24.1	349.1	323.7	132.6	156.9	151.9	172.8	144.3	98.9	188.6	202.3	203.8	201.7	199.7
21	208.1	193.4	194.7	192.3	203.0	193.9	194.2	197.0	202.1	165.0	78.6	86.5	179.6	179.1	148.3	130.4	101.4	34.4	239.5	231.8	329.7	254.2	274.7	17.7
22	353.4	354.2	245.8	348.8	18.1	23.5	7.3	12.8	12.4	5.4	356.9	33.4	26.0	6.8	324.6	353.9	339.5	341.5	356.9	345.6	332.0	323.8	323.1	344.9
23	345.3	13.2	14.6	16.6	355.5	341.1	340.0	18.5	4.0	28.8	7.6	308.2	43.1	95.7	206.6	206.5	200.4	9.8	284.2	344.4	10.5	6.9	327.1	27.4
24	14.3	13.2	14.6	21.1	25.6	27.7	22.6	27.0	44.6	57.2	167.0	201.8	204.2	190.7	179.3	179.3	154.8	183.9	186.0	192.2	164.6	156.8	162.7	107.6
25	128.3	142.4	169.4	54.3	70.6	31.2	279.7	326.4	34.9	315.2	59.4	84.8	197.8	212.4	204.7	207.7	207.6	215.2	238.6	242.0	261.9	266.0	299.5	18.0
26	22.2	23.2	13.6	19.2	20.8	20.8	19.5	34.9	42.8	50.0	68.9	92.5	93.9	70.3	38.7	50.0	46.3	6.1	314.5	180.3	185.8	286.9	290.3	302.5
27	314.1	313.3	313.7	313.2	352.5	332.3	324.2	39.8	44.2	32.9	46.1	10.1	35.8	151.8	118.0	122.6	132.8	104.5	29.6	23.1	313.3	313.5	314.7	307.5
28	329.9	359.5	33.5	129.5	353.6	3.8	0.2	351.9	209.1	18.5	32.5	66.1	198.1	183.5	181.8	197.0	197.8	183.2	172.3	190.6	194.0	183.8	188.0	187.8
29	192.8	201.8	203.9	188.6	196.9	193.8	203.3	202.5	185.7	189.1	196.6	190.6	189.3	199.1	196.2	189.4	182.3	168.8	190.2	193.1	195.9	174.4	188.0	167.1
30	11.1	318.2	332.0	343.6	308.5	304.9	311.0	331.5	10.3	7.8	30.1	66.4	311.4	103.3	159.6	143.2	175.6	188.2	171.5	301.0	310.2	313.5	317.3	308.6
31	307.0	309.4	310.8	308.0	306.5	305.9	316.7	292.3	313.4	307.0	345.6	18.6	71.7	93.9	164.2	163.1	139.4	103.7	123.2	335.8	300.8	312.7	311.2	312.4

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	311.8	309.7	331.2	19.4	14.8	6.1	41.4	48.7	57.2	61.0	62.8	76.2	164.2	204.5	199.6	190.4	208.7	211.8	202.1	164.9	62.0	319.7	314.2	326.1
2	14.7	13.9	13.2	14.3	21.2	14.0	20.9	33.6	37.4	41.9	89.6	198.3	106.2	50.0	106.5	124.2	38.6	22.6	352.9	355.4	358.1	5.8	350.4	0.3
3	342.2	98.2	325.2	319.6	243.7	326.5	341.9	357.2	0.5	358.3	0.5	357.2	0.2	0.3	349.6	9.4	7.3	7.6	7.4	7.8	7.8	9.8	5.3	5.7
4	9.4	5.6	1.0	354.2	356.5	357.7	1.6	4.8	6.2	13.8	21.7	25.7	23.4	23.5	25.5	27.4	13.9	289.4	213.6	213.3	210.2	338.4	241.2	228.3
5	226.9	210.3	346.8	356.7	23.6	16.9	13.4	28.4	9.3	9.1	2.7	353.1	332.4	120.4	43.7	329.3	346.3	64.3	74.7	10.9	11.6	23.9	20.4	18.8
6	26.4	25.4	24.9	26.9	20.4	228.7	22.1	355.4	5.6	190.4	197.3	199.7	201.3	195.5	193.2	190.6	226.3	210.1	173.7	194.7	190.5	196.5	194.1	236.0
7	201.4	204.6	192.0	199.3	190.5	198.4	201.4	205.9	200.3	195.9	189.0	156.7	213.0	202.0	149.1	193.4	104.3	75.9	63.9	87.1	54.3	84.0	140.0	165.4
8	140.6	286.3	298.8	305.3	309.1	305.4	313.7	9.9	50.4	39.3	41.2	50.3	200.6	196.0	185.6	236.7	246.9	209.6	246.9	301.3	121.6	336.0	12.0	20.7
9	8.2	7.7	0.1	11.3	11.7	16.2	358.1	348.7	356.3	326.8	311.8	316.6	293.5	219.7	129.6	1.2	1.3	29.7	27.1	11.4	340.9	14.5	105.9	91.1
10	52.9	89.8	86.1	173.8	195.2	193.6	194.3	197.2	181.1	157.8	123.3	80.5	70.2	31.2	173.5	126.6	276.3	327.1	297.1	12.8	242.3	278.9	13.5	19.9
11	324.0	32.0	18.5	20.1	34.6	29.8	26.5	25.2	9.1	15.2	10.9	8.3	1.9	12.1	17.7	21.0	17.8	359.9	309.4	318.4	335.2	53.6	334.9	106.9
12	75.6	355.6	186.2	177.2	199.2	322.6	79.0	126.8	147.3	131.8	193.9	191.2	196.6	195.2	206.8	210.4	198.7	188.6	179.2	191.3	200.0	200.7	207.6	210.1
13	204.4	202.1	197.3	155.6	93.8	42.7	58.2	170.9	168.8	66.8	56.9	161.2	157.7	122.0	307.4	311.1	305.7	312.3	319.9	314.0	318.4	39.8	305.8	305.5
14	28.8	42.2	18.8	309.5	325.6	347.0	359.4	17.2	36.5	37.8	52.9	201.3	193.0	160.0	217.6	128.9	89.1	24.7	348.4	348.5	352.2	336.8	340.4	332.4
15	355.6	345.5	9.8	352.3	4.0	277.2	196.0	212.9	93.6	177.6	185.1	174.8	171.3	333.8	318.0	282.3	300.6	36.6	80.9	11.9	6.0	12.2	20.3	11.8
16	14.0	25.4	12.8	303.4	298.4	314.1	306.7	205.2	286.2	294.9	303.0	291.4	331.2	25.1	66.8	126.7	164.1	158.9	169.4	290.8	71.6	311.4	207.8	104.1
17	334.2	312.9	322.6	6.1	10.3	9.0	20.6	20.5	28.6	25.1	26.5	28.4	25.6	32.9	143.9	203.5	157.6	20.3	3.7	308.9	7.8	2.3	320.7	318.8
18	310.7	304.5	310.4	309.7	299.5	303.3	307.8	291.9	102.3	119.4	186.0	160.9	128.8	132.8	66.7	58.3	118.2	123.8	162.1	165.7	169.4	173.7	156.3	177.7
19	147.8	159.8	141.9	137.3	75.6	320.6	307.1	332.2	27.5	6.4	312.2	88.2	114.8	80.9	88.6	115.6	164.7	129.8	13.6	286.5	288.8	299.5	309.6	309.9
20	311.1	310.2	309.4	312.2	312.5	309.5	322.7	300.3	340.6	64.4	144.0	159.1	126.0	149.6	169.7	126.3	143.3	128.4	144.5	111.0	91.2	122.3	181.5	180.8
21	61.2	10.6	301.3	291.0	306.6	327.7	329.0	356.8	12.2	7.5	34.3	40.6	42.1	214.9	150.1	29.2	13.9	20.5	17.9	13.6	349.7	9.2	24.6	25.3
22	27.1	29.2	29.2	28.1	27.1	15.4	18.1	6.3	344.2	336.9	327.2	352.9	28.0	22.9	351.3	8.8	351.1	7.3	19.6	27.2	16.9	20.3	30.1	201.5
23	38.2	51.4	29.7	348.7	282.3	300.1	354.6	259.6	5.2	300.5	1.4	18.9	358.5	24.2	330.2	54.2	79.0	90.1	156.8	184.5	210.7	194.4	190.2	196.8
24	198.0	195.9	190.8	198.0	189.5	200.0	215.3	210.0	203.2	190.6	204.1	215.2	214.4	193.3	195.1	208.8	196.2	198.6	205.0	208.7	215.9	223.6	202.8	198.3
25	207.6	197.5	203.4	202.2	198.7	196.6	202.6	202.2	203.3	200.6	195.4	200.7	207.3	200.4	199.6	204.4	193.6	186.0	191.7	187.3	279.5	14.9	200.8	349.4
26	326.4	5.2	11.8	358.6	352.1	28.7	31.2	33.1	6.7	350.0	2.1	32.8	108.3	85.0	21.6	19.2	0.5	357.8	7.4	10.4	6.9	6.5	9.3	19.3
27	20.2	18.1	18.7	19.0	19.5	20.3	22.3	18.2	18.9	21.7	23.4	26.0	25.7	23.0	20.9	18.6	21.8	24.3	25.0	19.5	15.3	22.9	14.0	14.6
28	24.3	26.0	24.7	23.8	25.3	25.5	324.8	17.7	176.1	20.1	2.8	331.1	49.6	42.1	202.8	206.8	211.1	243.5	358.6	3.3	12.6	9.9	1.8	321.5
29	312.8	34.3	72.1	75.0	49.8	329.5	288.1	302.6	304.8	333.0	328.7	293.3	147.1	181.8	168.9	173.4	175.6	178.4	180.7	192.1	183.7	191.5	189.2	186.5
30	181.6	178.4	187.2	181.9	179.6	184.5	173.1	159.7	142.1	109.8	13.3	318.3	303.5	304.7	282.4	307.4	1.4	300.7	312.7	311.7	311.3	310.3	315.0	316.4

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	312.7	316.4	310.9	311.5	312.4	305.8	298.5	296.1	291.8	293.3	294.0	306.3	319.4	59.7	35.7	76.1	108.5	57.1	26.5	336.2	41.7	67.4	85.5	95.7
2	50.3	55.8	55.2	49.8	19.3	306.4	294.9	302.6	288.0	289.8	59.4	300.1	344.4	147.7	158.8	149.0	160.7	73.2	63.9	1.7	302.5	308.4	3.4	7.1
3	4.8	0.4	10.5	15.6	21.1	33.6	22.4	353.0	25.4	27.7	13.9	13.4	17.5	24.7	23.2	32.4	21.4	18.7	3.3	8.5	356.0	354.7	18.1	7.8
4	13.5	10.7	9.6	9.4	15.2	13.0	12.1	20.1	17.2	15.4	18.4	22.2	25.0	24.6	22.9	24.6	22.2	20.6	23.0	25.8	30.0	29.3	29.6	30.0
5	29.5	19.0	15.0	18.5	19.3	20.3	16.8	18.7	17.8	15.2	10.6	14.6	11.4	358.0	237.7	4.8	8.3	10.8	18.5	20.6	23.4	25.0	28.6	29.2
6	20.3	25.1	25.2	12.1	13.3	12.9	7.3	16.0	26.3	38.8	47.5	55.8	51.6	106.9	68.7	281.0	285.4	3.5	352.7	356.7	1.4	21.7	26.4	33.6
7	30.5	29.1	13.0	1.7	4.2	350.5	357.3	346.5	338.7	348.6	1.7	8.3	1.5	3.4	355.8	353.4	6.6	8.3	2.4	350.1	356.9	353.9	6.4	10.8
8	18.5	31.4	17.3	349.8	349.4	4.2	32.0	20.7	40.1	39.5	17.6	18.7	31.3	29.3	39.2	23.4	16.3	23.7	18.2	12.2	16.3	17.7	15.9	19.4
9	14.7	19.5	7.3	20.3	10.4	23.3	17.2	16.5	8.4	17.5	5.8	16.0	48.1	7.0	311.3	313.6	315.7	315.8	309.9	307.5	307.9	313.7	303.3	307.6
10	314.4	314.2	315.2	314.3	303.6	307.6	308.0	313.4	324.3	43.7	57.5	46.1	37.7	43.2	39.0	44.9	88.0	7.6	352.7	0.2	358.3	6.8	21.9	1.9
11	269.2	14.3	355.1	2.9	358.2	5.1	356.2	359.8	26.0	60.9	38.3	42.9	319.5	317.1	43.6	114.6	81.1	326.3	36.1	7.6	83.0	106.0	104.9	73.5
12	68.5	117.8	87.4	83.4	87.9	77.2	101.7	89.7	146.0	154.7	42.8	144.0	139.7	92.8	150.7	168.4	146.6	146.3	125.2	79.2	45.6	312.1	310.4	314.6
13	312.9	313.1	320.3	351.9	15.0	11.9	31.3	10.0	19.9	36.9	39.2	40.2	9.7	79.9	112.5	29.8	19.6	302.7	353.8	121.5	273.0	290.7	36.7	352.6
14	352.7	5.8	10.9	42.3	43.1	29.0	20.6	17.4	28.4	33.1	34.9	33.1	34.6	32.5	18.0	12.0	128.3	49.8	348.7	358.7	275.8	347.9	4.9	8.1
15	356.4	359.2	359.7	1.0	8.3	9.6	12.2	12.1	15.1	15.7	26.4	28.1	36.2	36.6	94.9	205.8	211.7	220.1	217.6	10.7	11.3	30.7	31.5	26.9
16	359.4	11.5	355.0	335.0	313.1	308.3	2.1	103.6	17.6	182.5	100.8	188.5	163.7	192.5	181.0	63.3	153.2	53.5	147.1	225.3	212.5	342.2	17.3	12.6
17	24.5	25.7	355.3	12.5	21.8	24.6	173.1	167.0	170.9	200.6	195.9	191.3	193.1	195.6	165.7	188.1	209.1	206.9	201.6	208.6	218.3	222.4	219.5	220.4
18	212.8	217.5	215.1	209.6	202.7	192.1	192.7	193.1	196.0	192.3	193.0	122.3	75.3	79.9	98.6	157.5	202.3	212.4	199.1	198.7	23.4	21.9	4.0	17.4
19	23.3	24.2	18.2	16.6	20.8	13.8	1.9	188.3	188.3	185.6	173.2	171.5	166.4	164.6	166.1	122.0	83.1	58.8	323.9	249.6	309.7	14.7	11.5	15.8
20	5.8	11.1	22.1	4.6	7.0	357.0	2.6	9.7	13.0	17.0	19.4	19.6	24.0	23.7	24.2	17.8	17.9	19.3	20.7	20.5	20.7	21.1	20.6	22.8
21	36.1	16.6	13.7	14.0	15.1	11.7	350.6	333.3	308.1	315.8	329.4	335.5	28.1	34.9	27.4	21.7	353.5	40.6	230.6	199.2	191.0	174.2	95.4	74.4
22	135.6	193.2	316.2	108.1	112.5	316.1	312.2	310.1	312.5	298.9	296.8	26.9	97.2	164.1	193.1	158.0	162.4	110.5	109.6	168.4	176.1	159.7	177.1	163.6
23	188.2	170.2	170.1	179.3	168.7	119.6	182.2	10.8	324.3	52.9	299.3	338.8	318.3	325.5	311.6	305.0	28.5	24.7	347.9	352.7	29.9	12.8	8.8	10.1
24	16.3	12.5	26.7	341.4	22.2	6.9	359.5	21.0	36.7	23.5	42.6	44.2	49.5	24.2	314.6	316.0	315.3	305.7	320.1	313.9	309.0	307.6	312.5	309.7
25	308.1	310.3	309.5	319.6	21.9	321.3	316.0	317.5	316.8	42.5	56.2	56.9	44.8	38.9	39.8	42.1	350.8	348.2	41.7	43.8	31.1	21.6	39.1	19.8
26	6.6	28.4	17.3	13.4	9.1	359.8	21.2	11.4	21.4	47.5	50.9	50.0	36.8	45.0	39.3	47.6	34.6	3.9	313.4	1.2	13.1	14.6	25.1	7.2
27	14.7	5.3	2.4	6.4	357.9	8.4	8.8	16.0	19.3	31.9	36.7	36.0	38.4	38.8	164.6	201.3	329.8	9.8	9.7	20.1	23.4	21.0	19.5	21.0
28	15.0	0.7	19.6	10.8	17.4	17.3	19.7	18.8	14.4	26.9	32.5	33.2	47.9	38.6	324.7	322.7	12.0	354.4	19.7	39.8	348.9	331.6	22.9	1.3
29	14.4	12.5	11.6	16.6	25.4	18.2	19.4	18.7	23.7	24.7	24.3	24.4	30.5	22.2	21.6	28.6	22.8	26.1	7.4	6.4	5.2	10.6	13.1	19.4
30	18.8	22.2	18.1	23.0	15.1	12.0	18.4	7.4	358.2	39.9	27.0	34.2	200.9	50.7	356.0	313.3	312.4	315.1	315.2	317.3	314.9	316.1	319.9	325.2
31	322.1	317.4	312.5	313.7	315.6	315.4	315.9	315.5	315.6	345.9	351.7	317.4	316.6	319.8	311.8	309.2	312.0	312.7	316.4	317.8	338.1	350.7	33.8	17.5

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	13.0	47.6	45.8	8.0	326.5	6.5	3.0	357.5	18.9	6.8	31.0	55.8	44.6	45.9	62.1	9.8	317.8	312.4	320.4	314.5	309.9	312.8	307.6	311.2
2	316.1	316.1	344.6	51.9	240.7	21.6	31.6	26.0	354.3	31.0	24.0	26.7	35.8	50.0	56.6	55.8	68.1	82.9	65.7	65.7	61.1	41.9	25.0	44.1
3	65.3	64.9	79.3	14.0	99.2	30.8	317.1	289.2	306.8	303.7	297.2	335.3	307.0	301.3	313.3	311.1	306.8	306.3	314.9	311.5	316.8	329.1	311.4	313.2
4	311.0	316.6	310.6	307.6	310.7	303.2	309.0	353.1	313.8	314.4	312.3	312.8	310.0	308.9	315.9	301.4	320.3	318.8	315.3	313.3	309.3	314.1	357.7	47.1
5	6.0	8.9	3.8	314.0	307.8	310.4	310.2	327.3	338.0	318.8	325.3	319.4	337.1	88.8	150.0	140.5	97.8	229.7	175.6	163.2	173.1	154.7	142.1	112.9
6	47.7	38.1	348.9	21.5	307.5	359.4	8.0	258.7	350.5	74.8	53.2	68.9	200.4	175.5	72.3	69.8	73.3	87.7	40.7	44.4	34.3	66.1	116.6	194.3
7	214.8	197.5	54.9	162.4	292.7	309.0	311.1	0.3	48.1	10.2	23.5	24.9	28.8	26.7	24.0	18.0	23.3	7.0	3.6	6.5	5.1	7.5	9.9	17.8
8	22.4	26.5	27.1	32.2	24.4	18.6	18.8	14.9	8.2	9.3	2.5	7.1	23.7	22.7	22.7	26.2	3.5	346.4	2.0	358.2	351.2	0.9	4.4	5.0
9	3.3	8.1	8.0	10.8	15.1	13.6	15.2	10.7	5.3	7.5	10.8	45.3	57.3	62.3	61.7	59.3	75.5	47.8	34.5	43.8	32.5	32.6	336.9	322.8
10	42.4	9.2	338.7	311.9	310.4	310.8	310.6	318.4	312.6	316.2	317.4	317.4	316.9	317.4	314.9	317.1	316.8	317.3	315.5	315.4	314.3	328.5	61.3	18.1
11	57.4	61.9	59.1	42.4	310.3	316.0	36.6	14.1	25.6	13.8	48.5	53.8	46.6	48.9	47.4	37.5	45.2	26.4	45.0	24.4	1.3	339.9	46.7	29.9
12	20.1	8.1	21.0	20.2	5.5	292.1	271.6	11.3	30.6	33.0	36.4	34.2	32.2	35.5	40.0	36.2	22.3	18.2	12.1	19.5	19.5	11.1	14.3	22.0
13	6.8	20.8	34.9	44.7	54.6	48.5	49.6	52.9	42.6	27.9	48.6	32.4	32.2	30.1	30.6	28.5	32.8	23.4	31.6	25.9	10.8	12.6	23.7	12.8
14	25.6	23.3	21.5	14.9	20.1	19.6	18.7	21.6	14.5	19.3	13.7	5.9	26.9	39.2	33.5	32.0	31.3	32.4	32.2	32.9	33.6	35.2	34.9	32.0
15	31.1	28.8	18.9	18.6	329.4	302.2	234.7	275.8	359.0	16.2	117.2	31.5	44.4	40.7	34.7	316.0	122.9	33.5	320.2	322.2	16.6	8.1	13.5	32.7
16	31.1	8.8	14.9	9.4	9.6	3.8	5.0	357.9	358.3	9.9	9.2	8.1	16.4	21.6	11.5	8.3	21.8	18.9	19.5	18.5	19.7	22.0	17.4	25.6
17	28.9	29.7	27.4	27.9	30.0	29.5	28.6	28.1	27.1	29.1	76.6	173.5	16.3	14.7	315.6	305.1	310.8	315.8	314.0	5.7	10.3	20.2	33.1	16.4
18	6.6	11.8	358.9	341.0	5.3	11.7	3.9	11.0	12.2	5.5	9.1	7.0	8.8	12.4	14.5	15.2	20.9	22.7	336.6	318.0	299.3	306.0	340.9	37.0
19	64.7	104.8	164.6	176.7	341.2	45.3	157.1	193.4	200.2	201.3	192.5	168.2	171.8	193.5	187.2	187.2	190.0	184.7	190.9	193.3	189.1	248.6	321.0	0.4
20	7.3	19.8	20.2	22.2	21.0	25.1	24.3	23.3	22.3	22.2	15.8	17.0	23.5	17.6	22.9	30.8	29.9	24.9	29.3	22.8	24.5	23.6	5.7	9.6
21	13.1	9.1	18.9	14.7	337.2	317.9	315.7	315.9	312.3	312.6	313.3	315.9	311.7	308.8	348.8	326.3	313.3	324.1	52.0	51.8	53.8	43.2	76.2	173.0
22	173.1	170.8	157.0	179.7	171.6	90.6	205.5	172.3	226.9	311.5	315.0	346.0	44.6	54.9	52.4	39.0	31.0	41.6	37.8	324.5	314.4	311.7	314.8	312.9
23	312.2	311.2	311.9	313.2	310.6	314.1	312.2	308.2	303.1	309.0	312.8	317.9	289.2	300.8	314.2	314.3	322.5	335.9	299.4	309.6	313.2	313.3	314.7	344.0
24	306.4	315.2	328.2	304.3	312.6	314.5	311.6	313.9	309.9	307.8	134.7	155.4	130.5	156.9	172.4	167.8	158.0	128.5	18.1	323.1	296.0	306.6	308.0	311.4
25	316.6	317.2	315.4	314.9	315.4	313.5	314.8	314.1	312.2	313.6	313.9	315.2	316.1	313.6	316.2	313.9	315.2	316.1	317.7	315.5	314.0	315.2	316.4	315.7
26	315.3	314.9	314.4	313.5	313.2	311.0	313.6	315.4	313.4	316.0	317.4	315.2	313.5	313.4	315.1	313.0	313.4	331.2	359.8	10.6	51.1	44.3	35.7	45.3
27	50.2	46.5	42.5	35.2	33.9	11.5	24.0	40.3	34.5	41.0	47.0	48.9	51.2	50.9	50.9	36.5	32.0	22.4	23.0	24.5	26.5	28.5	30.8	30.1
28	31.2	30.8	29.8	28.7	31.2	29.7	30.7	26.2	31.1	28.8	29.2	30.5	29.6	30.5	33.4	29.5	25.4	25.5	25.9	26.1	23.6	20.7	19.2	22.6
29	21.3	25.8	24.7	30.8	31.0	26.5	28.7	30.6	27.6	26.9	14.0	27.5	38.2	28.6	22.0	161.8	175.4	160.3	153.6	79.6	109.0	78.0	161.9	121.7
30	100.5	120.4	139.3	67.3	70.5	121.7	70.8	82.3	221.8	43.5	45.5	172.9	173.7	183.8	186.9	306.8	291.9	312.4	330.9	308.8	317.5	315.9	341.3	314.4

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	312.8	311.9	318.1	317.0	310.7	308.7	315.2	321.2	351.3	350.6	40.6	36.0	318.3	315.3	309.8	332.9	15.6	320.4	352.3	344.8	324.2	311.2	308.5	312.2
2	334.4	329.5	324.5	314.9	321.9	307.9	334.5	178.2	314.9	312.9	312.6	320.6	349.9	138.4	77.9	72.9	22.1	356.6	304.3	311.4	306.4	299.3	326.9	147.1
3	172.3	153.5	106.4	294.2	311.8	307.9	309.9	313.3	318.7	318.2	315.6	318.5	316.5	316.2	317.2	315.1	315.7	335.7	29.5	47.5	44.0	8.8	52.5	39.3
4	27.6	44.8	38.8	41.1	30.6	30.3	31.1	29.9	23.1	13.9	15.4	22.1	11.0	14.9	20.1	24.9	25.5	23.8	23.7	24.7	20.8	29.8	24.5	28.6
5	31.2	29.8	30.9	27.9	20.1	27.3	25.7	16.7	7.9	2.2	354.0	3.0	8.2	10.2	14.2	8.5	7.9	15.2	14.0	8.5	6.5	3.9	11.3	15.1
6	8.0	9.5	12.1	11.1	11.8	11.2	11.4	9.7	16.2	17.6	0.5	5.9	0.3	6.3	19.3	34.0	29.6	22.9	19.8	16.8	17.5	13.1	356.3	345.4
7	344.8	345.7	358.8	357.4	7.1	7.7	4.7	1.2	8.0	10.5	13.5	13.2	14.4	17.3	11.2	5.5	6.3	357.9	1.2	6.6	1.6	357.2	350.1	353.9
8	356.0	335.2	10.2	20.1	23.1	26.7	29.7	29.8	28.8	25.6	18.3	345.9	323.7	287.9	264.7	290.3	254.1	161.3	25.9	340.5	332.0	330.9	313.2	304.1
9	324.6	322.2	0.9	358.1	342.9	340.2	348.6	342.1	356.6	4.2	9.9	18.9	15.8	7.9	16.4	21.1	9.1	352.1	358.7	320.8	21.2	343.1	11.3	320.5
10	327.1	15.2	15.6	21.6	22.1	19.2	27.7	25.2	28.3	20.5	12.7	11.7	3.8	7.9	318.9	352.0	360.0	329.7	326.4	342.9	358.4	6.0	14.5	4.0
11	4.2	18.6	22.9	23.8	23.2	13.1	335.2	313.8	314.4	319.4	314.6	312.8	310.1	313.8	303.0	302.2	290.9	315.0	292.9	293.7	311.5	109.3	115.2	148.9
12	163.3	165.3	160.8	94.5	85.9	67.5	81.8	170.4	165.1	118.9	171.0	183.6	46.1	133.6	174.1	317.3	12.7	349.5	39.1	13.4	358.5	8.6	37.9	19.2
13	20.5	4.4	5.6	19.2	24.9	18.5	15.6	14.4	13.2	13.0	2.8	8.3	16.0	11.7	9.7	10.1	10.8	5.5	11.8	18.5	20.7	18.1	20.8	23.6
14	22.8	23.1	18.9	20.0	20.4	20.5	22.0	23.4	22.7	22.7	22.6	21.2	20.1	21.2	19.9	22.0	17.1	16.4	14.3	9.6	7.1	4.5	2.2	357.8
15	348.9	347.2	348.2	4.2	9.2	12.8	20.4	22.7	16.5	18.4	24.5	20.7	23.2	19.2	17.2	15.9	15.0	11.8	11.0	7.1	356.2	346.1	345.2	0.9
16	3.0	1.6	345.1	335.1	309.9	332.4	352.2	355.4	325.8	335.0	337.4	354.2	3.3	351.1	335.1	16.2	19.8	35.5	35.6	40.6	17.9	340.1	317.0	313.7
17	358.3	28.8	18.4	3.0	7.1	10.7	10.4	9.2	358.3	354.5	28.4	24.5	7.0	7.2	355.3	354.2	355.2	350.3	357.4	1.6	356.2	347.2	5.7	1.8
18	352.8	353.9	356.6	5.0	9.2	5.8	7.5	1.4	359.2	355.4	348.2	350.2	350.2	356.5	12.6	354.0	347.1	349.6	15.2	13.9	12.2	9.8	7.9	7.8
19	12.8	11.9	9.9	6.6	10.0	9.4	7.8	10.3	4.8	3.4	6.4	8.4	10.5	9.8	354.1	270.3	222.8	245.4	0.4	343.6	352.7	2.6	15.2	23.0
20	11.6	20.7	7.1	3.4	9.1	6.5	18.4	23.9	261.8	44.2	16.6	199.2	215.0	41.8	210.2	223.7	357.8	10.2	7.8	16.5	332.6	28.7	31.8	345.4
21	208.4	28.6	22.1	221.8	31.5	20.7	23.8	24.8	301.0	235.6	19.6	14.7	23.6	30.9	28.0	27.3	13.7	23.7	40.3	39.6	38.4	39.6	24.9	32.6
22	23.4	357.8	30.2	41.5	29.4	35.8	14.8	19.9	24.0	16.3	23.8	28.6	33.9	31.3	30.2	23.3	29.7	25.6	19.1	20.4	27.4	25.4	29.9	23.4
23	21.6	22.4	268.7	25.1	19.6	15.6	22.4	24.9	23.6	25.9	30.8	27.2	29.3	22.6	28.7	26.9	28.7	30.3	26.9	31.1	27.7	15.5	5.3	11.2
24	4.6	356.4	17.1	2.1	18.2	22.2	20.3	18.1	16.5	9.5	18.3	18.2	20.2	23.2	29.0	24.7	27.3	16.1	11.8	6.2	6.8	16.1	18.4	15.4
25	14.6	6.4	4.3	1.0	344.5	348.7	358.8	356.2	356.6	2.9	5.5	358.7	14.8	16.3	15.7	13.6	14.9	16.2	15.4	18.5	19.4	21.9	21.8	20.5
26	18.0	7.0	359.3	358.6	354.6	0.0	15.5	15.9	12.8	16.4	19.0	17.8	16.8	14.7	13.9	19.5	17.9	19.6	19.6	18.7	9.2	14.1	10.5	8.9
27	13.1	16.7	16.6	15.6	19.5	17.8	22.5	18.0	16.4	21.8	22.1	18.6	16.9	19.2	29.1	16.7	16.7	16.7	21.8	20.2	23.4	23.0	18.1	14.5
28	18.1	17.3	17.8	15.3	16.9	19.3	17.1	13.6	21.6	21.3	19.4	19.1	20.4	23.3	20.3	20.3	18.9	20.3	19.2	20.4	24.3	27.9	25.3	25.3
29	22.5	20.8	18.5	14.3	14.3	356.8	359.0	356.9	349.7	336.9	355.4	356.1	1.2	11.7	14.4	16.5	15.3	14.0	12.8	10.6	10.7	15.2	13.3	15.9
30	18.5	20.4	18.9	18.2	17.3	18.4	17.3	23.8	14.5	17.4	355.2	233.6	19.2	19.8	17.7	17.8	22.5	22.9	21.3	18.8	17.8	13.4	13.9	14.8
31	17.0	18.4	16.1	19.6	20.8	21.2	22.9	7.9	14.9	14.4	15.0	19.3	22.3	25.6	16.5	9.2	19.0	17.7	23.0	15.5	18.0	16.0	15.0	18.7

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	28.7	29.1	22.3	19.8	20.9	15.6	0.0	348.1	353.5	347.9	350.0	17.4	23.1	15.6	19.6	17.3	8.2	352.8	356.7	6.7	3.2	4.2	6.9	3.6
2	353.1	7.5	15.9	20.4	8.5	15.3	17.7	23.5	18.0	9.9	8.4	4.4	3.4	8.5	4.2	5.0	8.1	13.8	355.4	4.5	3.3	12.0	1.7	14.3
3	354.9	354.3	358.3	358.4	357.6	7.2	345.3	359.0	9.7	12.9	22.0	13.5	17.3	20.8	18.2	6.8	18.9	15.9	19.5	22.1	11.5	9.2	23.0	18.9
4	22.9	15.7	11.7	17.3	20.7	15.5	5.3	4.4	21.2	25.4	26.5	39.0	38.8	39.0	38.5	20.9	23.0	19.2	253.6	23.2	47.4	22.1	216.5	28.2
5	19.8	22.4	16.0	11.8	24.3	19.4	21.0	26.2	13.6	41.5	10.5	331.8	25.0	31.4	21.9	332.9	0.9	20.0	25.6	24.1	20.2	30.3	21.5	358.4
6	23.3	14.2	247.0	23.8	21.2	24.2	25.2	26.5	27.0	22.5	17.4	225.5	30.4	30.3	35.0	36.2	353.4	17.4	299.4	236.7	326.6	13.5	19.8	235.1
7	139.8	22.4	29.0	26.1	23.7	17.3	346.5	21.9	27.5	29.0	15.1	22.2	23.2	22.7	24.9	15.6	18.8	22.4	15.4	16.7	18.4	26.9	21.2	27.4
8	21.4	16.8	18.3	15.7	19.7	26.5	26.2	23.8	17.8	12.1	16.8	24.5	20.9	15.1	53.7	23.8	21.2	21.1	21.8	8.8	17.5	16.6	21.5	17.4
9	11.9	14.8	24.9	23.9	26.9	27.4	24.1	24.1	18.8	14.8	13.8	24.9	18.3	42.5	30.4	18.3	17.7	28.7	27.0	33.7	28.8	328.5	25.8	24.1
10	19.8	22.4	24.9	29.3	29.6	24.3	25.1	309.4	229.6	112.3	175.7	20.5	38.4	60.8	189.6	191.8	55.5	56.5	57.0	60.3	60.4	59.2	54.5	53.1
11	40.7	49.6	30.9	18.0	58.2	53.2	45.3	25.0	26.2	4.2	22.0	12.4	39.1	36.2	42.4	21.8	12.4	271.4	51.3	37.2	43.8	42.4	28.8	39.3
12	292.0	56.1	60.6	50.7	50.7	60.4	55.2	56.1	36.3	40.1	8.9	31.7	35.6	36.5	35.2	35.1	38.2	32.9	16.1	24.6	18.5	11.5	27.3	12.9
13	30.7	8.2	20.6	4.3	12.5	20.6	10.4	17.8	26.3	38.5	347.6	40.6	41.4	40.9	47.5	30.7	29.8	21.2	14.0	4.2	13.8	15.4	16.5	19.5
14	31.6	31.7	22.7	18.7	27.5	28.5	27.0	23.6	20.0	34.9	29.6	30.8	27.7	26.0	24.5	23.5	23.6	25.2	23.8	22.6	26.9	30.1	25.6	23.2
15	18.1	22.7	26.1	24.2	22.9	23.2	23.5	18.8	20.7	23.5	16.9	25.1	23.5	26.7	24.5	16.5	1.1	21.7	17.5	21.0	20.0	12.5	19.7	18.7
16	17.7	22.1	22.5	29.0	34.9	29.2	27.6	24.2	20.6	11.9						26.6	12.1	20.4	24.1	22.5	299.2	6.1	28.6	27.2
17	25.5	14.7	19.8	351.8	354.9	357.2	36.6	16.4	22.3	16.6	27.2	40.8	61.2	70.1	62.9	342.6	3.3	351.0	329.9	342.3	10.8	45.2	55.0	52.7
18	46.9	48.1	50.8	39.2	46.3	55.7	37.0	33.9	52.9	46.9	13.2	37.0	33.1	35.1	29.4	42.1	37.3	21.7	22.1	353.1	12.0	8.7	19.9	43.9
19	5.3	342.4	55.5	42.6	29.3	13.0	24.2	20.7	49.0	46.2	48.5	45.2	51.9	47.1	33.2	50.2	48.3	33.7	32.2	21.2	10.8	26.5	40.4	46.2
20	6.5	27.2	25.7	20.4	11.1	20.4	18.3	18.2	15.6	17.5	17.3	19.6	19.0	22.2	23.0	13.5	21.5	10.9	1.8	20.3	18.5	30.0	16.0	23.9
21	23.1	23.3	29.0	27.2	28.9	29.2	26.3	20.6	22.2	23.1	29.8	34.0	45.3	54.3	51.6	56.8	57.4	60.1	58.4	345.6	317.4	316.1	314.4	311.5
22	304.8	349.7	41.2	47.9	13.0	318.6	296.9	291.0	293.9	299.2	298.5	283.8	290.8	307.1	310.0	312.7	309.6	313.6	312.1	312.6	315.0	316.7	315.3	316.5
23	315.2	317.5	331.9	51.6	47.1	53.7	37.2	44.7	22.9	54.2	46.4	68.3	56.8	59.4	55.5	55.7	56.2	48.7	42.9	42.1	42.6	50.7	47.3	37.0
24	50.8	44.6	46.6	47.4	46.4	43.3	39.0	38.6	40.1	35.9	40.2	52.3	56.1	53.9	54.4	53.6	43.9	53.5	49.3	46.9	40.7	31.1	34.4	29.4
25	23.7	27.9	15.8	5.9	4.5	14.7	14.9	5.5	8.0	8.0	25.5	35.0	36.0	36.3	36.3	44.9	33.0	39.5	39.5	43.3	45.6	52.0	48.0	51.0
26	53.2	50.2	55.2	57.5	55.7	57.2	55.4	54.0	47.7	54.0	49.3	48.2	52.2	51.4	51.6	53.2	52.0	47.4	44.9	43.2	36.5	50.2	60.6	58.2
27	59.1	42.1	320.1	339.2	306.5	10.3	44.8	298.4	347.6	74.7	289.6	307.6	308.7	313.0	315.0	315.4	313.6	315.3	310.2	312.7	310.7	308.1	308.9	309.2
28	315.0	313.5	314.7	315.2	313.9	311.3	312.9	310.6	311.5	311.9	315.7	315.3	310.6	319.7	55.7	56.1	54.6	59.9	60.1	54.3	51.3	57.3	51.6	52.8
29	53.8	52.6	51.8	51.0	50.8	48.5	48.4	51.5	52.3	49.3	52.3	53.6	54.8	53.2	49.4	48.9	41.9	46.2	46.2	49.7	52.0	48.3	43.7	52.3
30	54.8	51.7	52.0	51.3	49.7	46.0	49.4	49.4	44.1	40.7	44.9	43.7	49.7	49.4	45.5	46.0	39.4	30.7	28.0	15.2	30.6	29.3	26.9	22.2
31	22.0	18.6	22.4	21.8	20.6	21.5	16.4	13.2	34.4	34.9	41.8	46.3	42.5	42.8	48.6	50.3	48.0	49.7	48.2	46.5	52.6	52.8	59.1	55.3

Total Hours in Month 744 **Hours Data Available** 739 **Data Recovery** 99.3%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	66.1	68.1	59.9	70.2	54.6	4.9	328.3	331.0	337.3	329.2	327.6	329.1	327.4	329.0	328.0	326.5	319.7	44.6	166.5	197.3	204.9	196.1	318.6	325.6
2	328.8	329.7	328.3	331.0	323.8	328.2	330.4	331.3	332.6	326.7	328.4	354.7	65.9	71.8	68.2	59.9	70.4	68.6	62.7	27.0	44.8	49.1	43.4	45.2
3	39.9	36.7	33.9	24.7	33.5	28.4	29.3	22.9	21.9	27.1	33.3	42.4	32.2	34.4	36.2	34.1	28.7	18.8	30.7	26.0	25.6	25.8	29.9	27.1
4	26.4	15.5	24.6	21.9	16.5	24.2	26.8	31.4	26.0	26.1	30.0	34.0	32.8	32.9	33.5	29.9	26.7	28.6	29.1	30.2	34.2	35.1	36.7	35.4
5	34.5	35.2	35.1	37.0	36.5	36.2	36.3	36.7	37.9	42.9	40.5	28.3	16.9	27.4	18.6	28.7	33.3	35.9	34.4	35.8	34.9	31.0	25.9	22.4
6	26.9	24.6	18.9	13.6	16.2	20.2	30.8	30.4	21.0	33.4	219.4	241.1	104.2	153.8	187.9	31.8	3.9	30.8	41.2	26.2	47.6	48.3	31.6	21.6
7	37.1	47.7	46.2	40.7	28.9	3.8	86.2	214.4	211.5	217.8	217.0	206.9	197.1	191.1	202.1	82.3	116.8	185.6	209.5	211.0	180.1	170.6	114.3	106.8
8	42.6	348.5	13.1	41.1	32.9	31.3	35.0	39.1	42.8	25.5	37.7	39.5	37.8	31.6	13.9	13.4	20.6	14.5	20.4	20.0	18.3	23.0	17.9	21.8
9	29.6	26.6	30.4	31.5	30.1	31.4	33.9	36.5	36.8	36.9	37.5	38.2	37.4	35.0	32.8	35.3	37.2	28.6	27.2	21.2	22.5	20.5	28.0	25.5
10	4.2	13.5	21.4	23.9	26.4	10.7	13.0	22.5	22.2	18.5	3.5	352.3	355.0	319.8			344.0	320.9	354.8	314.0	317.1	8.0	334.1	274.7
11	358.5	349.8	358.8	22.2	11.5	17.7	20.2	19.6	12.7	11.8	15.5	21.3	21.8	17.2	11.1	8.3	1.8	357.3	358.7	357.1	358.9	359.6	351.6	346.1
12	347.6	343.7	333.3	212.8	208.6	227.2	306.4	318.0	314.4	306.3	333.6	173.1	172.0	162.5	172.3	161.4	166.7	170.5	150.7	306.4	309.6	316.3	312.7	332.1
13	8.2	335.3	353.3	305.7	4.2	327.0	234.7	21.7	29.3	33.9	208.6	33.8	29.4	18.4	21.2	13.1	22.1	14.8	3.7	349.9	353.5	359.0	354.3	352.7
14	354.7	342.3	347.1	347.4	0.3	351.5	1.9	345.9	2.1	4.9	355.3	3.8	353.2	357.5	354.9	4.1	3.7	358.7	356.6	349.2	7.5	5.1	5.9	6.5
15	9.5	359.5	12.6	350.1	355.3	354.1	0.0	353.9	354.5	6.4	14.9	14.7	192.4	18.5	8.8	347.2	351.3	332.3	346.7	346.7	337.9	321.9	351.9	31.6
16	38.9	28.3	34.2	33.7	34.8	33.0	23.6	11.7	31.3	10.1	26.9	44.0	27.9	32.9	33.4	13.8	13.2	20.1	16.4	14.4	21.2	24.9	30.0	22.7
17	22.0	21.3	17.1	17.9	13.3	8.5	8.2	1.0	352.2	3.2	349.9	345.1	349.7	354.3	358.5	0.7	3.7	2.6	1.3	4.3	5.1	347.8	321.9	330.4
18	337.7	12.5	18.0	9.3	10.5	6.2	358.9	18.6	335.2	323.9	325.4	332.2	307.1	272.2	311.0	284.5	316.1	289.0	302.9	22.0	22.7	32.1	31.9	30.2
19	34.1	71.8	190.5	188.5	183.5	150.7	182.4	174.6	179.8	174.4	196.0	193.7	194.9	342.4	205.4	203.9	213.9	201.7	195.1	199.4	190.5	188.8	196.9	193.0
20	196.9	192.5	192.9	187.0	56.7	46.8	202.6	179.6	165.4	155.3	75.4	81.0	95.2	184.3	181.6	195.7	202.3	208.8	192.7	194.4	192.0	194.0	190.6	194.9
21	199.9	199.5	199.2	193.2	205.4	181.4	194.7	187.3	198.3	196.5	173.1	182.8	189.0	156.9	106.1	73.9	62.9	87.0	76.2	78.8	91.6	160.5	144.2	98.9
22	191.6	201.4	133.3	199.8	191.2	228.0	185.5	192.0	200.3	198.9	182.5	186.3	174.3	152.7	71.0	124.6	110.0	77.0	5.7	141.6	55.0	76.1	101.3	180.8
23	49.2	10.5	17.0	7.9	229.8	22.6	26.1	183.5	18.1	186.8	133.1	54.9	159.1	141.4	128.9	126.4	140.1	147.6	123.3	119.6	299.5	309.3	314.1	358.2
24	1.3	16.2	27.2	15.6	5.2	22.0	26.3	32.7	46.9	45.5	50.2	47.6	34.9	37.0	35.6	34.6	40.1	17.5	39.8	34.0	36.5	27.0	16.1	14.1
25	19.3	18.9	24.0	26.7	25.9	26.4	25.4	5.6	259.5	198.4	215.9	64.4	199.4	160.1	206.5	188.0	54.9	63.5	52.4	47.1	38.0	45.5	54.5	45.8
26	42.6	38.1	23.1	66.6	105.1	213.5	241.0	175.6	173.1	188.1	191.4	193.3	207.3	195.3	162.2	98.8	97.4	46.9	25.2	335.2	20.2	27.4	28.8	26.4
27	25.3	25.9	25.2	27.2	29.3	23.0	23.6	349.5	213.3	225.0	240.2	257.4	3.1	52.8	313.7	310.4	316.8	331.5	315.4	316.3	331.6	338.2	35.0	44.9
28	326.1	315.0	314.5	314.7	317.6	317.9	316.7	315.6	6.4	336.5	338.4	314.6	307.9	308.8	313.9	301.1	295.2	303.2	295.7	322.9	300.4	313.9	310.5	314.6

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	315.3	349.9	26.0	42.1	52.7	55.2	48.4	41.4	2.9	48.8	46.4	37.5	36.6	32.3	44.2	37.9	28.1	14.6	34.9	32.0	28.5	27.7	26.5	19.2
2	19.2	26.4	26.1	15.1	17.2	14.6	14.7	30.7	31.1	30.5	24.9	22.6	24.3	25.2	23.3	16.3	14.7	14.7	12.4	14.8	12.3	8.0	9.2	12.2
3	9.7	16.0	13.5	17.0	15.0	22.4	26.5	16.4	15.8	12.5	14.6	13.5	20.3	26.4	28.0	30.2	31.2	23.7	29.3	28.7	28.6	22.6	27.7	26.6
4	24.9	24.2	25.9	22.5	24.9	25.5	22.6	21.6	22.5	26.5	25.1	27.7	22.1	4.0	16.7	19.6	20.5	21.7	14.3	21.4	19.2	18.2	15.5	17.1
5	17.2	17.6	8.5	6.8	7.7	12.8	13.0	316.0	40.7	29.4	226.0	189.7	140.2	173.7	190.2	103.8	82.4	147.8	173.8	177.9	150.9	73.5	75.0	96.8
6	180.7	189.0	179.3	175.9	208.0	209.0	205.7	173.3	301.2	304.3	310.4	315.3	318.3	316.5	317.1	322.1	321.5	359.5	5.2	350.5	29.4	29.4	36.2	46.3
7	54.4	58.0	40.9	37.2	53.7	54.1	62.5	350.0	313.0	313.5	312.6	314.5	315.7	313.8	316.1	307.4	293.0	41.8	9.3	66.5	139.0	134.7	345.4	287.1
8	291.0	302.4	294.0	299.5	298.9	340.1	318.6	307.4	330.9	353.3	311.0	78.6	70.0	71.1	144.4	179.7	174.6	175.9	174.6	162.9	188.7	192.1	31.4	19.5
9	202.6	285.4	118.7	148.5	148.7	145.1	85.1	58.5	26.8	122.1	167.9	133.9	150.0	85.4	126.5	307.9	293.2	289.5	298.1	302.9	304.6	306.3	315.6	328.9
10	48.5	37.5	44.3	36.6																				
11																								
12														11.9	18.4	24.9	26.5	28.5	26.0	27.5	24.2	17.6	22.1	12.9
13	30.4	6.8	335.2	96.9	26.3	30.8	28.9	10.4	357.0	39.3	182.1	191.5	192.2	195.2	193.6	199.4	201.9	214.5	223.5	236.4	235.9	299.8	27.4	17.1
14	11.0	22.8	15.2	20.5	12.6	12.8	12.7	12.7	21.7															
15														47.0	64.5	121.5	213.3	220.6	218.9	347.4	3.2	13.9	8.9	4.7
16	5.4	1.7	7.1	12.0	19.9	9.5	5.9	7.6	12.7	20.5	23.9	24.5	24.7	22.1	16.1	15.9	15.2	5.8	18.4	2.4	358.4	356.1	353.9	358.9
17	2.7	12.0	26.1	29.0	25.9	25.0	20.7	17.1	17.7	30.6	23.5	17.1	24.7	20.8	16.8	18.4	9.0	3.6	6.9	17.7	31.7	18.0	12.8	24.9
18	13.5	16.7	17.1	10.7	14.7	15.5	15.3	14.4	17.5	22.0	19.1	16.6	22.9	19.7	18.4	18.2	18.8	16.9	329.8	346.6	318.5	210.9	354.6	281.7
19	19.6	5.9	5.2	5.3	7.8	20.0	21.5	30.5	31.5	37.3	37.6	68.3	195.6	199.5	210.4	207.5	181.6	179.0	170.2	208.2	317.3	18.7	29.3	28.4
20	28.4	33.1	28.7	27.4	26.2	28.9	29.2	24.0	233.5	21.4	201.8	60.9	106.1	180.8	206.9	211.5	301.4	313.8	310.1	307.2	318.9	311.6	314.5	319.7
21	328.1	334.7	14.8	40.2	52.6	57.4	55.9	42.6	48.4	95.2	47.2	54.1	94.4	169.5	97.8	68.8	56.1	46.3	42.3	40.1	24.3	3.9	359.5	27.2
22	41.0	36.3	47.6	51.2	47.3	55.6	54.9	51.3	14.8	46.0	63.3	51.3	53.7	47.8	48.6	45.6	21.3	0.1	224.0	34.0	29.9	19.2	17.6	13.1
23	9.2	12.0	6.5	10.0	26.7	1.0	17.6	15.4	43.9	43.9	50.6	62.5	101.0	61.9	123.2	155.8	169.2	327.1	312.2	343.1	41.9	15.3	357.1	31.4
24	49.6	52.3	52.8	53.7	55.3	53.2	53.0	51.8	56.5	54.7	64.0	47.2	67.1	41.6	52.3	40.6	28.8	40.2	82.3	51.1	48.6	42.4	46.2	42.3
25	39.9	34.3	40.4	125.5	59.6	41.1	43.8	37.1	45.4	49.4	51.5	44.3	101.5	68.0	37.8	49.8	54.7	48.5	9.0	53.4	61.2	59.0	57.4	53.9
26	40.5	58.4	56.2	50.9	51.5	50.3	44.7	42.2	48.5	52.6	71.3	61.5	44.5	42.4	40.0	40.2	49.1	33.0	308.3	57.4	39.6	37.4	22.9	27.4
27	19.6	23.8	24.4	30.2	29.1	24.2	291.7	26.1	30.4	61.9	170.0	203.8	202.5	205.6	207.9	209.0	208.8	215.0	210.6	223.1	41.9	28.1	26.0	29.6
28	26.8	30.1	26.6	31.1	28.3	31.5	31.0	31.5	38.3	95.6	197.5	195.7	204.4	197.9	208.8	205.0	208.7	213.2	206.2	204.2	249.0	13.2	29.2	260.8
29	18.7	31.3	11.1	24.6	18.3	23.1	16.5	28.3	36.4	46.5	40.4	51.5	96.0	182.7	205.7	211.9	201.5	3.4	215.3	202.6	332.8	15.3	16.1	22.6
30	32.5	27.8	3.1	7.7	16.9	9.3	9.4	7.0	14.4	356.0	359.1	347.1	3.5	349.5	356.8	354.3	355.1	352.6	354.1	345.5	4.5	1.3	346.5	355.2
31	355.1	336.7	341.7	337.1	332.1	350.0	335.8	326.5	358.5	350.5	357.4	0.9	355.5	355.7	356.9	356.2	358.8	13.8	26.1	28.0	77.7	54.7	59.9	55.2

Total Hours in Month 744 **Hours Data Available** 659 **Data Recovery** 88.6%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	55.4	49.4	42.1	344.7	317.7	337.9	328.3	309.1	307.0	310.3	308.8	332.7	312.2	60.6	77.2	91.4	111.2	154.2	173.4	199.4	176.8	170.9	159.9	170.5
2	174.2	171.0	172.6	204.0	193.0	197.4	123.6	145.8	122.2	185.4	50.4	79.7	93.7	74.0	93.0	42.9	32.0	35.1	26.6	19.8	11.1	24.2	21.8	10.8
3	24.1	21.1	19.7	8.9	9.5	9.4	9.5	14.8	13.3	1.9	6.4	6.5	10.3	9.9	1.1	359.9	8.2	18.9	24.7	19.5	22.9	6.8	12.1	10.6
4	351.2	12.6	13.6	29.2	32.9	28.4	27.0	29.1	26.5	26.2	22.0	66.0	199.4	183.7	169.2	199.5	195.4	196.9	201.1	183.2	271.3	23.8	6.3	42.6
5	32.1	304.9	334.3	327.4	32.5	44.2	311.8	339.2	306.1	291.6	318.4	303.6	302.4	292.6	114.0	76.5	149.2	149.0	144.3	50.7	339.1	298.4	290.8	313.4
6	313.7	314.7	316.1	43.3	45.2	51.1	60.9	62.3	63.2	50.9	44.7	41.1	41.2	45.4	41.2	43.5	43.9	38.4	33.7	16.0	41.6	34.1	270.6	357.4
7	31.7	229.8	34.1	27.7	7.7	21.8	27.7	27.3	32.7	29.5	32.4	25.3	45.7	86.2	173.9	273.6	261.8	260.6	128.0	339.5	320.2	315.4	0.5	357.0
8	356.7	351.4	350.1	15.9	1.1	14.2	7.2	347.6	345.7	354.4	348.8	5.4	8.4	338.9	330.2	355.3	348.7	23.7	22.6	25.4	35.2	31.7	10.5	25.4
9	24.6	293.8	334.2	32.3	32.5	3.8	27.5	32.9	34.0	35.9	42.7	57.2	179.4	202.0	197.6	206.4	190.0	147.3	151.6	11.7	16.6	68.8	27.5	322.5
10	323.3	49.5	17.8	57.1	56.2	182.4	190.3	199.2	191.2	199.1	189.4	198.9	195.5	199.3	203.0	193.6	200.7	196.1	210.4	199.3	195.6	194.8	199.9	174.5
11	67.0	64.2	70.0	39.2	23.7	4.0	19.1	39.1	38.9	39.5	29.6	32.0	18.3	12.5	25.0	22.2	22.4	17.0	14.6	11.4	7.6	4.0	2.4	5.3
12	2.3	2.6	5.1	6.7	6.1	5.4	5.8	11.8	8.7	10.1	3.1	4.4	16.5	24.0	28.7	27.3	27.7	156.4	70.8	16.7	252.4	92.9	58.2	122.8
13	301.2	307.7	309.0	310.1	308.4	308.8	309.1	291.8	3.3	315.1	319.0	336.9	170.9	187.0	180.6	171.9	152.4	157.9	101.5	47.0	298.8	296.1	312.1	312.4
14	313.3	315.8	314.8	316.8	314.2	316.9	315.5	314.8	318.0	316.8	317.9	316.5	313.7	313.1	310.5	300.4	290.6	35.5	109.2	314.8	306.4	308.5	302.3	297.8
15	275.8	291.2	284.9	282.6	288.6	291.6	311.5	301.8	72.1	306.6	307.8	326.4	308.8	310.3	298.5	316.4	316.1	313.4	316.5	329.7	321.5	28.6	4.8	23.0
16	18.6	25.9	23.3	32.4	11.4	0.9	4.7	358.7	19.0	11.9	16.5	19.6	22.0	16.2	20.3	22.4	13.1	11.5	12.0	13.6	13.3	22.8	12.4	16.6
17	18.0	15.1	16.8	19.0	18.5	13.7	18.1	12.6	11.0	9.3	20.8	5.9	18.9	7.2	14.1	19.9	27.4	14.5	8.8	7.8	20.8	29.7	29.8	8.7
18	44.2	24.1	0.4	19.6	332.4	22.2	25.2	30.6	40.5	45.2	130.7	194.0	193.5	201.9	199.3	202.8	189.1	186.3	202.1	304.5	312.9	304.6	351.7	337.6
19	308.4	311.3	315.9	314.6	315.5	315.9	316.6	322.1	33.8	41.1	18.2	35.7	45.9	40.0	91.8	94.3	39.4	24.4	302.7	207.1	50.7	26.8	8.0	32.3
20	12.2	1.2	19.7	25.3	32.9	29.1	28.2	20.4	22.7	32.1	10.8	23.7	119.4	74.4	27.2	23.7	345.2	4.4	8.4	339.4	353.7	5.9	353.0	356.2
21	353.5	357.7	0.6	5.1	9.8	13.7	14.0	10.9	8.9	7.2	10.9	4.4	358.0	358.7	10.8	356.6	23.5	2.2	29.6	25.0	5.9	329.6	345.4	353.0
22	347.9	9.5	6.8	5.5	13.2	18.3	28.3	26.7	29.7	43.1	84.9	62.1	72.1	171.3	186.9	182.3	190.3	180.9	206.6	177.4	188.7	303.1	11.5	35.8
23	19.6	31.6	22.5	25.2	15.7	25.4	19.1	29.2	25.9	26.8	11.3	27.7	35.5	35.3	134.8	201.6	202.1	261.4	253.8	310.9	311.8	308.1	308.9	313.9
24	334.8	21.5	226.7	185.3	330.4	311.4	349.6	17.7	123.1	79.6	80.1	133.1	153.5	163.2	158.9	158.2	147.7	146.1	166.8	163.0	108.7	324.7	305.1	316.5
25	318.6	321.5	335.8	358.2	4.0	19.3	24.8	30.5	31.5	33.7	13.2	17.6	25.8	23.2	17.9	15.1	4.9	2.6	358.6	3.8	353.4	356.7	345.6	13.5
26	3.6	351.3	353.9	3.8	0.7	7.1	10.2	9.7	21.5	23.7	21.8	20.2	23.3	20.0	17.9	18.3	18.0	11.9	11.5	9.8	11.5	11.5	25.5	17.5
27	6.9	3.0	10.0	10.1	10.4	11.1	12.3	11.1	7.6	11.3	14.1	27.3	27.8	36.3	117.9	15.3	18.7	320.3	268.0	2.7	222.4	358.2	3.0	19.9
28	15.2	0.7	4.6	10.7	10.1	7.5	13.7	17.9	54.9	51.1	34.1	40.3	38.6	40.0	2.9	43.2	38.3	40.4	7.8	321.6	358.9	350.8	3.0	351.1
29	350.6	1.9	314.0	317.0	314.1	309.7	307.6	312.7	308.7	310.4	313.1	32.5	15.2	54.7	357.0	318.8	314.8	312.4	304.6	312.8	309.5	318.0	16.5	11.6
30	16.7	14.9	8.6	358.4	19.9	19.4	45.1	57.0	36.8	35.8	36.9	64.2	201.1	210.3	148.4	145.7	214.9	274.6	336.0	9.9	37.5	330.1	330.9	10.0

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	23.9	356.0	11.3	3.7	8.7	7.7	11.6	7.3	16.0	22.3	23.5	24.6	29.5	30.1	29.8	29.0	25.3	25.3	27.8	26.6	20.5	14.4	14.4	16.2
2	15.3	13.1	14.5	18.3	18.8	25.6	20.9	21.1	17.3	11.3	20.9	22.1	18.4	10.7	359.4	6.3	10.5	17.7	9.6	5.4	0.9	78.4	3.0	346.8
3	345.0	350.1	0.1	11.8	352.8	355.8	6.6	9.8	19.4	22.8	26.6	28.9	27.8	26.6	19.6	7.1	22.8	2.1	352.4	343.6	348.8	0.6	3.7	4.5
4	17.5	8.9	351.0	348.0	353.7	5.8	19.6	340.7	350.0	319.0	1.6	32.0	37.6	82.2	38.2	1.5	10.3	21.6	10.5	345.1	338.3	16.1	3.6	5.7
5	355.8	0.7	358.3	349.7	0.7	7.3	6.2	11.0	9.2	7.9	9.3	3.3	358.1	357.0	62.4	24.2	24.6	46.7	93.2	240.8	231.4	278.1	329.1	31.2
6	46.0	251.5	271.9	339.2	229.8	312.6	350.2	21.1	33.9	144.3	182.2	60.2	155.9	92.2	45.5	316.6	313.4	314.7	307.4	299.6	298.9	291.7	290.6	301.8
7	309.1	302.4	294.2	294.4	296.3	292.0	291.5	295.3	295.7	305.6	312.0	301.5	304.4	43.9	1.7	44.1	65.7	95.1	104.8	100.2	51.8	18.2	314.7	312.9
8	315.9	308.1	315.4	356.5	356.3	15.7	33.0	33.3	25.2	18.1	25.2	21.8	16.1	20.8	17.6	18.6	15.0	14.4	8.9	10.5	6.7	13.0	14.3	16.4
9	17.8	18.4	17.8	20.1	17.7	17.5	17.7	17.8	19.9	16.9	14.5	15.2	18.8	20.7	22.6	24.5	25.7	26.4	24.2	25.1	23.1	20.4	19.3	18.8
10	16.4	19.6	26.5	15.2	20.4	19.3	4.2	16.0	16.5	55.9	190.8	193.3	183.9	86.3	149.6	141.9	100.8	196.0	194.8	187.6	212.1	258.5	12.8	19.5
11	354.7	24.6	28.8	24.2	244.4	24.1	22.4	27.7	37.2	41.4	46.2	78.3	81.7	177.2	143.0	61.0	59.8	23.9	324.4	348.4	21.3	12.7	15.4	18.1
12	21.1	13.9	6.2	12.2	16.0	11.6	16.3	32.4	47.2	57.1	53.7	105.7	130.1	323.7	316.3	310.5	34.6	358.1	276.4	313.8	328.0	23.6	11.7	18.2
13	1.2	6.3	0.5	13.5	7.9	13.7	27.6	45.0	51.2	61.1	40.7	42.9	49.4	165.6	147.8	46.4	46.2	238.3	297.4	3.5	12.6	6.8	348.5	214.1
14	210.4	314.6	6.1	24.6	4.1	26.8	34.5	35.2	120.8	148.1	150.1	167.6	175.0	139.2	135.1	114.6	99.5	80.0	81.0	68.9	114.4	116.0	57.3	315.8
15	277.4	251.3	239.8	251.5	11.1	31.2	331.4	37.1	37.0	56.5	112.9	166.5	183.8	204.2	209.2	212.4	208.2	207.7	197.7	187.0	131.1	9.5	346.7	280.9
16	344.4	292.3	317.9	318.0	318.8	315.9	321.7	27.1	59.4	51.3	63.8	68.5	139.5	166.1	177.5	205.5	213.5	212.2	207.9	216.2	232.2	235.9	227.1	253.9
17	19.8	21.0	21.5	19.7	19.2	29.0	27.5	30.7	25.8	28.5	34.1	108.3	115.2	117.5	130.4	132.4	142.0	186.6	288.8	165.8	191.9	153.7	331.4	349.5
18	11.8	21.8	24.4	26.3	27.1	32.5	37.6	67.0	158.5	110.0	106.1	134.4	158.0	102.7	143.6	23.2	66.3	111.7	167.1	154.1	141.6	127.1	19.2	299.8
19	308.0	300.9	313.7	318.6	321.3	330.7	45.6	34.1	35.0	47.0	194.1	169.0	148.6	97.1	26.2	91.8	71.3	61.9	2.0	350.0	346.7	19.9	345.5	18.1
20	13.1	4.0	5.8	15.6	15.5	5.4	4.6	5.0	3.8	7.8	7.2	7.1	15.5	22.7	23.6	16.7	10.9	0.7	25.3	21.0	8.9	343.7	332.9	26.0
21	8.6	30.2	359.6	39.4	9.3	18.0	32.8	39.5	324.6	311.1	317.4	321.5	315.6	310.4	124.6	172.6	153.8	177.3	302.8	301.6	307.3	309.5	311.5	314.0
22	324.8	6.1	10.0	3.8	15.5	19.4	32.4	41.5	44.2	49.3	116.3	194.6	50.7	314.3	320.8	318.2	318.5	315.7	316.3	313.4	322.7	17.0	6.6	16.2
23	16.1	23.2	18.1	241.4	9.4	28.6	49.5	38.1	172.3	179.7	183.2	166.7	184.6	199.6	188.4	184.8	186.4	197.7	207.1	342.4	80.4	9.7	16.9	18.2
24	16.6	16.2	21.7	24.0	344.2	24.8	25.8	35.1	125.4	207.1	211.2	195.9	201.0	170.1	196.6	201.0	194.3	200.8	294.0	173.5	357.0	23.5	26.0	21.8
25	24.0	17.1	358.1	188.9	31.5	28.4	37.1	69.5	50.3	163.4	204.9	213.5	203.3	173.1	164.2	168.5	155.4	164.2	25.0	319.1	16.6	21.0	24.0	21.8
26	23.1	24.7	19.9	14.3	17.0	11.5	27.7	30.5	37.1	73.5	204.8	201.0	203.6	205.8	190.5	203.2	192.0	217.9	212.0	226.0	6.2	18.4	21.7	26.6
27	30.4	21.0	242.0	229.5	17.9	12.7	21.7	28.4	29.8	41.4	53.5	207.0	195.4	205.9	207.4	204.0	203.2	215.1	225.1	227.1	15.1	22.3	26.5	24.6
28	34.0	32.1	3.3	20.4	31.4	30.5	40.7	140.8	192.0	204.6	206.1	207.6	205.8	205.8	206.9	209.3	207.3	203.6	205.9	221.0	243.7	241.1	223.4	225.4
29	246.6	35.5	4.8	263.7	302.4	21.6	33.0	38.7	212.8	189.4	181.6	180.3	183.1	197.6	171.9	143.5	51.5	91.3	223.6	230.2	240.8	252.4	297.1	297.9
30	281.4	337.1	18.2	28.2	29.0	38.0	33.9	95.2	132.2	122.8	50.0	82.9	74.9	222.0	276.1	240.6	217.2	31.4	136.0	335.6	279.6	280.9	149.0	104.0
31	340.2	12.5	24.0	29.2	23.0	13.4	17.8	26.0	48.2	178.2	152.6	183.5	186.0	188.7	194.9	189.9	208.1	200.6	188.9	177.0	161.6	166.3	213.8	194.7

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	358.2	302.1	11.7	332.8	13.2	13.3	47.2	59.5	155.4	156.0	156.7	154.1	133.9	173.6	179.5	166.0	175.2	172.7	186.6	218.7	224.2	216.9	12.8	20.6
2	32.6	14.8	28.6	12.2	13.1	13.1	41.6	49.2	43.3	34.9	34.6	37.7	41.5	11.5	102.1	103.1	116.0	131.7	354.0	290.9	340.7	354.2	339.7	12.2
3	9.9	4.6	47.6	160.6	189.8	128.9	308.5	308.5	50.8	89.7	343.9	286.9	177.3	154.8	197.3	197.0	196.6	121.3	91.5	89.3	170.9	181.5	181.3	288.4
4	304.3	309.4	330.7	8.7	10.1	36.3	38.1	53.0	64.4	115.4	134.4	173.1	193.1	160.1	159.7	173.7	185.0	213.1	226.7	227.4	240.7	251.1	13.0	25.2
5	23.9	27.5	23.2	31.9	340.8	40.0	37.5	42.9	85.9	135.5	198.5	203.8	184.1	183.0	186.2	190.9	189.0	194.5	195.0	220.5	216.0	220.7	245.5	334.8
6	28.2	28.3	23.7	16.6	31.0	36.2	42.3	67.1	193.2	160.9	199.2	187.4	174.4	196.2	207.1	206.8	190.3	209.1	263.2	313.9	336.0	8.8	344.8	354.2
7	356.8	6.7	356.0	25.6	2.2	4.1	12.7	325.1	13.3	348.5	336.0	86.1	171.9	332.1	340.8	88.3	8.4	325.3	292.8	279.6	11.5	324.8	337.2	343.0
8	321.4	1.4	354.5	345.7	340.6	351.4	346.9	352.6	351.2	358.9	3.3	2.9	12.8	8.4	7.3	11.8	16.0	14.2	11.5	7.3	7.7	9.1	9.1	9.2
9	7.8	9.1	11.1	13.9	14.2	14.4	11.9	11.7	9.7	10.2	9.2	14.1	13.0	10.4	5.7	14.3	9.9	64.4	16.8	1.7	7.8	348.1	341.6	308.8
10	2.7	3.7	342.4	5.7	36.7	24.9	12.1	11.4	28.9	73.6	69.9	308.8	30.1	339.9	348.4	54.7	22.4	0.8	10.5	331.8	335.3	348.1	344.5	333.9
11	295.1	354.6	319.4	3.6	7.9	9.3	352.5	353.9	349.6	2.0	4.0	6.1	3.2	9.0	6.8	7.3	0.5	0.7	3.8	347.5	352.1	354.8	352.0	353.7
12	350.1	359.6	353.5	358.7	353.8	1.3	1.8	8.5	25.9	4.1	17.7	183.6	194.0	67.4	168.5	181.5	164.6	237.9	214.4	217.5	219.7	241.8	266.3	234.3
13	2.3	338.2	340.9	295.6	132.6	194.8	200.3	33.1	17.6	146.3	205.6	198.0	202.7	202.1	201.8	207.0	194.9	183.8	181.3	182.4	190.1	189.7	206.5	297.8
14	286.5	30.6	12.4	23.8	247.7	288.1	7.3	29.5	17.3	205.9	198.4	182.9	203.9	201.9	201.1	189.8	36.9	29.6	29.0	13.4	346.0	18.0	11.5	9.3
15	12.8	8.6	13.7	0.9	15.3	262.3	24.5	143.7	191.3	175.9	190.9	204.7	194.4	206.8	199.7	199.0	214.7	214.9	231.6	223.5	188.7	344.0	348.4	340.3
16	309.7	25.7	44.0	233.6	207.6	202.1	204.5	209.4	201.1	202.0	203.2	203.1	194.3	161.9	234.3	223.4	218.9	224.2	242.7	221.8	30.2	25.6	34.6	32.8
17	35.6	30.9	225.8	232.9	206.5	216.1	211.5	215.4	208.5	208.2	210.7	229.6	250.8	215.6	222.3	222.7	215.1	211.0	213.5	222.2	205.2	18.3	23.9	24.7
18	25.9	14.5	26.2	25.5	15.4	21.7	19.5	10.8	4.1	11.2	12.6	9.4	11.6	8.2	7.8	358.5	348.1	5.5	4.5	14.0	4.9	21.5	22.9	20.4
19	16.2	8.1	4.5	3.4	13.6	14.1	14.4	12.9	16.7	9.8	11.5	20.6	27.0	23.0	25.5	40.7	212.1	215.4	222.6	226.6	213.9	4.7	22.1	25.5
20	20.5	8.7	360.0	213.2	23.7	196.7	38.8	200.0	208.5	207.0	209.4	228.0	143.9	177.3	2.4	333.3	332.1	268.1	220.1	238.8	258.7	247.5	243.9	292.3
21	22.9	24.7	21.4	26.5	19.4	26.8	29.7	27.7	34.5	74.9	187.1	201.0	198.2	203.9	203.8	197.0	202.3	202.5	190.0	203.0	204.5	198.9	192.1	316.0
22	263.9	205.3	232.0	266.6	9.5	20.1	4.0	292.3	120.0	324.0	355.7	1.9	37.3	330.3	266.6	61.3	301.5	278.0	277.7	264.7	264.8	283.7	288.5	22.8
23	26.2	24.9	26.6	20.9	227.1	216.3	212.0	14.1	36.6	39.1	61.0	190.4	180.8	203.7	208.8	209.7	209.0	211.5	209.5	214.2	211.3	222.4	220.9	260.5
24	243.5	325.2	19.5	24.4	23.0	34.2	31.1	39.7	67.1	162.6	188.8	193.4	208.5	217.7	209.9	215.6	217.6	208.8	204.6	208.6	198.1	166.7	354.0	23.9
25	27.2	14.1	12.4	329.2	31.9	24.7	43.2	202.3	206.9	221.4	214.9	202.7	207.6	207.7	208.1	213.4	208.4	212.3	201.2	195.4	232.9	239.2	252.7	272.9
26	251.5	263.5	272.1	283.6	338.4	28.1	25.7	50.0	104.6	168.9	133.0	134.8	113.6	145.8	143.4	73.4	136.8	143.1	193.1	147.3	299.9	249.0	353.4	5.9
27	354.2	15.6	243.5	350.6	172.8	34.9	43.2	151.6	186.9	162.8	170.6	175.0	178.2	190.0	202.0	205.6	211.5	205.8	207.8	225.8	331.6	308.8	298.9	307.8
28	304.6	304.4	294.9	307.9	308.1	313.5	317.8	315.8	322.0	330.1	323.8	336.2	324.0	173.1	175.3	138.6	172.5	127.8	159.3	154.0	123.2	139.9	69.6	93.7
29	67.4	103.6	9.3	28.8	35.7	322.7	330.1	345.4	61.5	149.1	196.7	163.0	203.1	180.2	246.1	315.4	357.2	85.5	359.4	31.9	309.9	216.5	331.3	331.7
30	348.1	12.7	17.4	20.4	357.5	15.3	10.7	18.0	25.1	30.7	126.3	161.1	178.9	181.2	184.9	184.0	197.1	201.0	192.3	252.5	293.4	312.4	321.6	320.6

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (Climatronics) (Degrees)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	358.2	11.1	4.3	28.4	359.7	5.7	48.6	60.3	81.1	154.4	164.0	182.2	178.1	176.1	173.2	188.2	196.9	207.3	213.6	235.8	54.1	39.2	50.7	303.3
2	301.8	312.1	300.9	347.2	11.9	18.0	32.8	39.7	54.1	60.5	131.7	131.1	183.2	185.9	193.2	254.0	356.7	69.1	74.7	97.0	13.5	359.9	215.2	213.9
3	223.4	210.8	191.3	238.0	357.4	118.2	128.7	114.9	123.2	110.8	126.6	146.4	170.6	176.1	178.9	185.2	187.1	181.5	208.8	224.6	213.2	235.5	249.9	243.6
4	277.6	319.1	317.6	347.4	335.8	34.2	55.0	86.3	155.2	169.4	199.1	185.0	174.4	190.9	189.5	196.5	208.0	212.6	206.5	190.7	192.5	202.0	241.0	249.9
5	352.6	35.3	134.3	149.5	140.0	326.2	111.2	133.1	142.1	124.7	122.9	140.1	162.5	171.6	164.8	184.7	189.7	186.5	189.3	148.2	210.3	159.6	152.9	152.0
6	209.5	305.2	310.1	241.2	168.0	187.5	149.7	136.3	130.4	128.0	153.7	167.8	180.5	186.6	192.0	197.8	211.7	199.5	208.3	234.8	160.1	273.5	321.9	333.4
7	336.8	332.6	346.5	315.0	335.2	268.9	236.7	221.4	174.4	148.7	154.4	130.4	24.9	38.6	119.3	101.6	359.0	294.0	152.3	206.1	3.2	221.6	19.8	26.9
8	20.5	18.8	5.1	11.7	331.3	5.7	24.2	147.2	48.6	319.2	317.7	314.4	317.2	317.1	314.9	218.6	165.5	183.5	309.2	311.5	309.9	314.0	354.0	352.8
9	354.1	0.5	355.8	7.5	15.7	15.6	26.1	50.4	176.8	184.5	199.0	202.7	205.0	206.4	207.2	207.9	341.7	164.8	221.0	219.5	279.8	260.5	328.7	314.4
10	322.4	351.7	329.1	340.4	349.4	335.4	311.0	98.9	193.3	219.5	209.6	189.5	185.6	237.2	243.6	264.5	288.2	242.0	168.3	36.2	15.4	352.6	8.2	214.0
11	261.5	213.4	160.9	275.3	286.1	239.9	233.9	226.6	212.3	43.7	16.7	15.3	6.1	214.1	211.2	221.5	213.5	204.2	187.1	188.8	215.7	210.1	331.3	271.4
12	258.9	7.0	13.0	18.5	29.2	25.0	30.7	37.3	46.9	47.6	137.4	188.6	177.1	195.2	203.1	193.4	167.7	334.0	316.5	325.6	104.9	299.2	8.6	19.5
13	6.0	304.0	325.6	36.1	330.7	293.6	281.9	16.9	302.2	311.9	303.4	313.6	318.3	316.9	313.8	306.0	308.0	305.9	309.3	313.3	311.7	306.3	281.5	292.6
14	303.4	308.9	296.5	293.8	300.9	335.1	14.4	294.7	292.5	293.1	308.7	313.6	320.8	317.4	317.6	304.1	52.1	117.0	161.3	114.7	181.2	186.2	196.3	192.6
15	190.9	209.2	203.2	202.2	200.9	195.2	193.7	188.9	141.8	166.2	134.8	115.3	255.3	196.6	208.0	206.1	214.8	202.2	279.9	240.5	154.8	338.5	317.5	3.9
16	341.2	347.4	7.7	32.3	34.1	21.5	13.4	349.9	341.1	353.8	295.2	355.5	25.4	96.8	98.2	117.9	77.9	84.6	41.4	23.6	84.9	31.3	2.8	354.3
17	345.0	336.6	345.0	355.6	343.2	332.9	356.9	356.4	301.7	335.6	11.9	322.9	5.4	12.8	6.8	18.1	358.1	353.9	13.6	20.0	14.5	359.2	18.9	7.5
18	348.0	9.2	15.4	11.4	7.2	21.0	5.2	11.5	49.2	132.1	105.0	77.8	48.6	79.2	50.5	349.3	114.7	168.5	167.1	324.8	346.4	311.8	259.2	338.0
19	334.2	355.1	325.7	348.0	354.8	359.6	3.1	4.2	10.1	21.8	25.7	27.3	21.5	23.2	23.4	27.1	17.9	14.8	16.4	5.5	333.2	230.4	320.6	4.6
20	19.5	2.3	18.5	16.0	21.9	18.2	24.4	20.0	22.6	19.7	18.9	24.0	21.0	17.1	20.7	22.7	13.9	5.3	13.2	11.8	246.4	219.3	220.0	25.7
21	30.1	16.7	22.2	278.5	223.0	16.8	9.0	21.1	22.3	20.0	17.0	22.0	23.5	18.6	16.8	42.3	214.3	209.8	202.2	34.5	2.4	226.5	227.1	240.3
22	214.2	212.0	212.4	215.0	20.7	18.6	18.6	14.4	13.8	7.2	12.0	9.1	5.9	12.9	201.3	213.0	194.2	301.7	333.1	3.6	2.3	2.8	358.3	13.5
23	8.3	17.1	359.6	109.2	135.9	28.5	356.5	3.1	355.0	0.1	10.3	7.0	11.4	11.9	7.8	2.2	110.3	57.2	4.6	5.3	6.7	7.1	4.3	357.6
24	347.3	359.1	5.5	12.4	8.0	13.2	13.4	19.6	12.7	8.0	4.1	11.5	356.9	290.3	221.0	220.7	265.5	315.2	308.9	295.8	332.0	38.3	353.3	351.9
25	5.3	16.1	8.9	6.3	37.1	13.7	327.5	173.6	154.7	198.9	186.5	168.7	166.7	39.5	29.5	30.6	11.0	210.7	205.0	209.4	307.9	4.5	6.3	1.7
26	17.3	25.5	28.4	358.5	7.3	17.2	20.1	320.1	14.0	357.0	321.1	293.5	296.7	301.4	304.3	296.5	304.5	306.5	300.1	305.3	306.3	308.4	309.5	315.9
27	318.2	315.9	318.9	318.2	317.5	340.8	44.4	55.4	54.6	45.5	60.9	55.3	112.5	171.1	178.0	181.8	193.3	197.2	211.8	210.7	210.7	246.7	27.6	28.7
28	38.6	222.8	250.4	25.4	27.5	33.2	30.7	35.1	41.2	50.3	175.2	179.7	188.4	206.5	207.0	206.2	194.0	193.9	195.7	172.4	75.6	60.9	135.0	165.7
29	48.3	162.2	199.6	200.9	195.2	197.5	195.9	192.5	189.9	190.1	186.6	189.2	184.7	193.7	186.0	53.5	56.8	71.1	178.7	175.5	164.9	166.7	135.0	60.2
30	138.2	97.3	113.3	178.3	187.1	181.9	160.5	150.7	156.6	173.4	310.0	49.6	300.7	5.4	305.7	338.2	137.9	135.5	126.0	170.6	144.1	172.8	141.0	116.9
31	286.9	310.5	309.7	308.0	310.9	323.3	343.2	315.5	309.7	310.0	244.4	151.4	113.5	73.6	36.9	39.1	288.8	325.1	301.6	290.3	311.6	313.8	314.1	301.6

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	5.6	21.9	16.6	50.8	50.1	44.0	57.2	34.0	29.1	26.4	13.7	24.3	7.7	9.0	19.0	8.8	17.5	32.0	14.9	26.6	24.8	35.2	44.3	22.2	57.2	5.6	26.5
2	30.8	30.6	23.4	19.4	7.6	8.3	7.5	9.9	9.1	9.0	9.9	11.1	10.4	9.6	10.1	10.1	9.4	9.9	9.6	9.9	9.9	10.6	10.0	9.3	30.8	7.5	12.3
3	9.5	10.2	9.5	8.9	8.4	10.4	9.4	17.3	47.9	33.9	36.6	82.6	45.0	28.2	17.1	43.2	27.5	17.0	43.3	40.8	14.1	23.3	40.1	36.4	82.6	8.4	27.5
4	44.0	73.6	22.1	59.7	20.3	7.3	6.5	49.6	6.7	5.5	8.4	22.5	6.5	5.5	4.2	6.4	4.6	25.1	39.6	61.2	44.3	68.6	38.0	47.3	73.6	4.2	28.2
5	25.2	26.8	26.8	19.7	12.5	17.4	18.1	15.0	16.4	15.3	18.1	40.2	51.8	29.7	67.4	30.9	43.5	12.4	11.9	11.7	17.3	22.6	14.7	13.6	67.4	11.7	24.1
6	13.7	14.2	13.2	13.0	12.1	12.7	14.2	14.0	15.8	45.8	29.3	31.5	45.2	27.7	39.6	26.5	10.5	43.8	69.8	76.6	60.5	69.1	70.4	43.3	76.6	10.5	33.9
7	66.3	72.6	50.3	55.1	67.4	75.3	57.5	61.1	33.8	30.1	43.7	33.6	22.8	22.4	29.6	17.5	20.2	24.6	22.0	14.4	24.9	28.6	19.9	15.1	75.3	14.4	37.9
8	14.7	13.3	10.3	11.6	10.3	8.5	9.2	5.8	5.9	16.1	5.2	7.1	5.9	5.8	5.0	4.3	4.3	10.6	11.7	50.9	26.6	41.0	10.3	8.6	50.9	4.3	12.6
9	18.5	14.5	11.0	15.2	41.3	39.2	4.8	4.3	21.4	5.9	13.0	6.5	6.7	6.4	22.4	13.8	6.5	11.0	13.0	13.6	10.8	25.7	51.9	42.1	51.9	4.3	17.5
10	42.8	6.6	48.8	39.6	51.2	39.9	7.0	4.7	36.7	5.9	10.5	14.0	9.3	9.4	9.4	6.1	6.3	5.7	10.1	11.8	12.9	17.2	20.0	22.0	51.2	4.7	18.7
11	34.7	17.3	57.4	69.4	46.7	61.1	34.2	8.1	9.9	8.8	6.5	4.3	4.3	4.9	4.6	4.2	6.7	10.2	10.2	45.2	18.5	8.2	9.7	14.2	69.4	4.2	20.8
12	48.4	43.3	52.4	17.9	9.7	10.6	39.1	27.7	23.0	5.3	5.1	5.8	4.2	4.2	5.4	4.3	6.8	9.3	10.0	10.4	10.7	11.8	8.0	12.8	52.4	4.2	16.1
13	31.5	23.0	25.6	17.1	17.8	27.2	25.8	39.8	11.5	15.1	28.6	14.9	9.2	10.3	12.6	12.3	9.0	8.9	9.0	10.6	16.9	11.8	8.7	12.9	39.8	8.7	17.1
14	27.8	20.4	25.1	20.2	21.0	16.1	17.6	23.5	18.2	14.9	10.5	9.5	12.5	11.8	7.6	8.4	8.2	7.8	9.9	11.7	19.3	16.8	11.6	15.8	27.8	7.6	15.3
15	24.9	29.1	26.7	34.3	15.6	45.5	16.2	13.0	19.1	11.6	49.5	27.6	52.2	44.1	9.1	10.2	7.3	10.4	12.1	21.6	16.3	13.5	10.9	48.1	52.2	7.3	23.7
16	23.2	8.4	10.0	14.3	56.5	7.8	12.0	7.5	8.4	9.7	32.2	40.8	26.5	35.8	40.2	28.7	70.3	59.1	68.1	48.9	31.9	51.6	53.6	56.6	70.3	7.5	33.4
17	54.3	10.9	9.0	9.3	8.8	9.3	10.9	9.6	9.8	9.9	9.6	11.5	9.0	9.4	9.1	10.1	9.9	10.0	10.1	9.8	11.3	9.7	8.8	8.9	54.3	8.8	11.6
18	9.6	10.3	10.3	10.7	9.5	8.7	9.2	8.9	7.0	33.3	21.8	13.7	5.1	5.5	6.1	5.9	6.9	5.9	13.2	20.3	39.1	36.3	59.2	51.0	59.2	5.1	17.0
19	20.4	31.9	62.0	21.9	56.2	23.4	10.3	8.6	10.9	26.3	17.8	13.9	15.8	18.7	31.1	37.9	25.7	35.8	60.6	70.8	47.8	20.9	56.9	43.8	70.8	8.6	32.1
20	40.6	58.9	18.5	19.1	63.5	70.7	69.5	37.6	42.7	27.8	51.9	42.2	54.9	45.4	51.7	54.1	60.9	52.7	60.6	60.7	19.5	16.6	12.0	18.9	70.7	12.0	43.8
21	21.5	35.6	21.8	21.7	13.6	24.7	19.4	10.5	16.4	55.4	39.6	47.4	65.1	57.0	55.6	42.4	56.3	68.7	77.7	26.2	56.2	43.2	54.5	65.4	77.7	10.5	41.5
22	78.0	27.4	36.8	44.4	11.8	7.3	12.6	11.4	9.1	20.9	41.8	49.5	36.7	62.2	56.7	15.3	32.2	29.4	29.2	36.7	23.2	30.5	32.8	34.0	78.0	7.3	32.1
23	39.6	21.5	11.3	17.2	26.7	28.5	64.6	75.1	33.9	14.3	37.1	53.4	39.4	48.8	12.1	23.1	31.4	35.4	65.9	24.6	19.0	42.2	47.6	25.7	75.1	11.3	34.9
24	8.6	20.9	35.8	7.9	6.1	7.0	36.1	11.8	41.3	14.2	18.0	9.8	11.6	18.3	38.1	28.7	41.7	27.3	30.4	23.8	35.7	43.4	61.0	56.4	61.0	6.1	26.4
25	69.1	70.4	40.3	34.1	66.4	71.4	44.3	21.9	42.0	33.0	12.7	20.0	23.0	10.8	5.3	5.6	7.1	8.8	10.6	24.5	32.8	47.0	52.0	8.4	71.4	5.3	31.7
26	6.5	34.9	35.1	18.7	21.4	23.5	27.6	12.1	7.2	10.9	23.6	33.8	29.5	27.7	12.7	18.9	25.1	48.2	57.4	62.4	44.5	50.0	29.9	22.4	62.4	6.5	28.5
27	14.7	14.9	12.7	18.4	22.2	20.1	27.9	20.1	18.1	30.5	27.3	56.2	47.7	35.3	48.2	46.4	49.9	55.9	65.9	55.2	16.4	15.4	14.5	20.8	65.9	12.7	31.4
28	25.8	49.0	53.5	65.9	31.4	36.9	10.4	29.0	11.0	50.2	31.6	30.4	9.5	8.7	13.5	30.4	6.3	17.2	38.6	21.1	15.0	21.7	22.1	21.9	65.9	6.3	27.1
29	19.5	16.4	15.7	23.0	23.8	18.1	16.4	23.9	19.6	16.3	19.3	20.2	17.7	16.9	22.6	19.8	20.1	26.5	19.6	25.4	36.4	29.1	39.6	59.7	59.7	15.7	23.6
30	45.2	28.8	60.0	53.5	15.8	17.9	15.1	29.5	26.4	26.5	34.7	43.4	56.9	37.0	58.4	65.1	23.9	18.6	32.5	54.4	15.8	11.4	13.4	17.8	65.1	11.4	33.4
31	22.0	17.2	16.8	17.8	19.0	21.8	43.3	42.9	22.3	36.8	58.6	61.5	65.1	55.1	35.5	33.7	58.4	57.6	57.1	56.0	27.9	12.3	11.0	14.3	65.1	11.0	36.0
Max.	**78.0**	**73.6**	**62.0**	**69.4**	**67.4**	**75.3**	**69.5**	**75.1**	**47.9**	**55.4**	**58.6**	**82.6**	**65.1**	**62.2**	**67.4**	**65.1**	**70.3**	**68.7**	**77.7**	**76.6**	**60.5**	**69.1**	**70.4**	**65.4**	**82.6**		
Min.	**5.6**	**6.6**	**9.0**	**7.9**	**6.1**	**7.0**	**4.8**	**4.3**	**5.9**	**5.3**	**5.1**	**4.3**	**4.2**	**4.2**	**4.2**	**4.2**	**4.3**	**5.7**	**9.0**	**9.8**	**9.9**	**8.2**	**8.0**	**8.4**		**4.2**	
Avg.	**30.2**	**28.2**	**28.0**	**27.4**	**27.2**	**26.5**	**24.3**	**22.2**	**20.3**	**21.5**	**24.7**	**28.5**	**26.0**	**23.3**	**24.5**	**21.7**	**23.1**	**25.7**	**32.1**	**33.5**	**25.8**	**28.6**	**30.2**	**28.7**			**26.3**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	12.6	14.2	30.8	21.3	16.3	18.8	16.3	10.6	6.7	8.5	12.0	38.6	33.4	24.5	54.4	48.5	16.9	17.2	15.6	30.3	71.6	43.6	12.6	15.4	71.6	6.7	24.6
2	7.2	9.9	6.7	7.3	6.7	8.1	24.1	6.7	4.2	4.0	30.0	11.5	22.6	19.8	29.3	35.3	19.5	35.5	53.3	38.6	31.7	47.7	63.4	49.1	63.4	4.0	23.8
3	41.5	64.3	61.1	32.9	26.2	23.4	14.9	7.8	8.2	8.2	9.9	12.4	14.4	12.8	19.8	9.4	9.9	8.4	8.7	8.6	8.8	8.2	8.8	8.7	64.3	7.8	18.2
4	9.2	8.6	9.5	9.3	10.4	10.9	9.0	9.6	8.9	8.6	8.0	6.2	6.9	7.8	6.9	7.7	12.2	17.5	7.2	5.6	10.3	39.5	45.4	12.2	45.4	5.6	12.0
5	13.2	29.6	22.6	31.0	6.0	6.8	22.0	6.3	8.7	7.7	7.2	32.1	47.6	46.4	56.6	70.2	81.9	49.0	27.1	7.4	8.6	7.2	7.7	7.6	81.9	6.0	25.4
6	5.3	6.0	6.6	6.5	8.6	46.9	64.8	33.2	47.7	19.7	12.9	17.7	23.2	16.9	18.6	28.0	67.8	37.4	64.6	18.6	18.8	19.0	22.3	53.3	67.8	5.3	27.7
7	21.3	25.1	16.2	9.9	27.6	21.6	20.3	15.3	13.3	23.2	37.3	54.3	56.9	28.7	78.6	49.1	60.8	41.6	38.5	38.9	31.9	51.2	50.8	37.6	78.6	9.9	35.4
8	54.8	37.8	27.7	24.2	16.2	17.7	16.3	30.8	7.1	8.5	4.9	20.0	16.0	33.8	15.6	23.3	26.0	13.8	26.9	48.0	69.2	54.0	15.3	32.4	69.2	4.9	26.7
9	21.3	8.4	8.2	10.6	16.6	16.8	22.3	30.6	36.9	50.1	26.6	35.2	50.3	43.1	58.2	36.3	25.5	31.3	7.4	16.9	56.5	60.7	64.4	51.1	64.4	7.4	32.7
10	34.6	51.3	44.2	35.1	16.6	18.2	10.7	10.4	23.1	35.9	60.9	48.9	46.0	57.1	44.6	41.9	41.7	32.1	27.4	15.8	23.2	47.0	15.7	15.0	60.9	10.4	33.2
11	30.5	8.0	16.6	14.6	8.7	7.6	7.3	8.9	29.1	31.7	13.0	11.3	10.0	8.9	9.4	13.4	18.1	30.7	27.8	31.3	53.8	70.3	56.0	57.0	70.3	7.3	23.9
12	42.5	64.4	35.1	13.5	28.2	60.9	50.8	43.6	54.2	42.7	19.6	17.3	17.2	27.0	17.3	13.3	22.4	31.4	26.4	17.6	24.8	17.5	23.8	19.7	64.4	13.3	30.5
13	22.5	22.3	16.4	42.3	60.4	35.4	59.8	33.8	53.9	49.1	38.9	59.5	62.2	46.9	26.4	22.3	26.2	25.2	17.5	18.0	15.3	60.6	27.9	48.3	62.2	15.3	37.1
14	56.6	20.5	51.2	69.1	44.0	63.7	31.0	34.4	5.2	4.2	29.9	12.4	20.1	10.0	36.7	13.5	18.2	17.4	40.7	54.0	58.0	48.0	74.1	57.5	74.1	4.2	36.3
15	44.4	61.1	69.7	38.1	70.4	67.8	57.5	52.5	67.3	27.5	28.6	23.1	53.1	56.0	56.9	71.5	75.3	74.6	68.8	66.5	24.1	9.1	7.9	9.5	75.3	7.9	49.2
16	9.0	9.4	17.6	26.9	44.5	63.5	54.7	71.2	47.5	30.9	25.3	59.3	77.0	60.4	49.2	44.8	36.4	36.9	61.3	64.1	60.7	63.2	56.3	76.3	77.0	9.0	47.8
17	54.7	21.9	27.8	9.9	7.9	6.7	7.5	8.6	8.9	9.4	8.0	6.8	11.3	22.8	43.9	61.4	38.9	16.5	11.8	50.0	11.1	26.2	47.4	17.7	61.4	6.7	22.4
18	15.0	20.5	14.9	13.8	23.8	24.8	24.4	54.6	58.5	66.1	47.6	53.7	45.8	63.4	41.2	33.2	42.8	59.4	45.9	58.2	43.2	48.4	72.2	51.5	72.2	13.8	42.6
19	77.3	45.9	55.4	65.5	62.0	53.2	44.9	54.0	49.7	61.0	79.2	63.4	50.3	36.4	41.6	41.9	40.4	54.2	52.0	30.8	40.1	23.3	17.1	18.8	79.2	17.1	48.3
20	15.3	13.2	13.6	16.7	17.5	19.8	44.0	45.1	42.2	37.8	34.1	40.0	58.0	37.1	34.6	59.2	48.4	42.2	47.5	45.7	45.6	42.1	52.4	66.9	66.9	13.2	38.3
21	60.9	55.3	33.4	30.4	24.5	35.9	25.3	43.5	31.6	20.1	17.5	8.0	44.0	37.7	40.9	18.3	8.1	8.0	10.0	8.5	9.1	30.1	49.8	9.2	60.9	8.0	27.5
22	7.8	22.9	7.1	6.5	6.8	10.9	10.1	15.8	27.4	31.0	28.3	48.9	74.2	59.8	68.1	76.1	27.5	11.7	9.2	7.4	28.9	45.8	51.1	76.4	76.4	6.5	31.6
23	57.4	68.0	39.6	45.3	26.7	52.3	52.3	49.0	38.0	29.8	27.7	10.0	28.1	55.3	50.7	63.2	62.3	51.1	49.4	20.8	9.1	19.3	23.9	14.6	68.0	9.1	39.3
24	14.6	14.0	23.6	21.6	27.6	35.3	24.7	18.1	23.8	29.0	24.0	13.9	12.6	18.6	31.6	35.2	32.5	26.8	15.6	20.8	18.7	12.5	24.8	26.9	35.3	12.5	22.8
25	18.8	19.0	10.9	11.0	17.4	15.5	15.1	11.8	18.0	15.8	22.6	20.2	16.9	17.4	15.2	28.8	19.8	30.1	21.5	20.3	28.9	65.7	45.8	57.6	65.7	10.9	23.5
26	45.2	28.7	30.9	33.6	26.8	7.6	6.6	8.3	30.4	27.4	20.6	38.7	54.5	62.8	15.8	18.9	14.5	13.0	11.0	10.1	11.7	12.6	11.3	11.2	62.8	6.6	23.0
27	10.6	10.5	10.1	10.2	10.5	11.3	10.6	11.4	11.0	9.9	9.2	9.2	9.4	9.7	9.9	10.2	9.4	9.5	9.0	9.6	9.2	9.7	8.5	8.5	11.4	8.5	9.9
28	8.2	6.7	7.0	8.0	9.3	34.7	28.9	19.9	82.3	42.2	51.7	38.7	26.1	10.7	32.6	6.6	5.8	47.1	37.9	12.6	21.1	17.2	26.3	21.2	82.3	5.8	25.1
29	15.1	39.3	44.2	42.6	72.1	48.3	50.9	40.5	37.7	38.2	50.0	54.5	64.7	29.9	34.6	29.6	32.6	28.0	31.8	26.1	27.0	22.5	24.8	19.8	72.1	15.1	37.7
30	25.8	25.9	22.2	28.7	36.1	33.8	28.5	35.9	46.5	51.6	62.0	58.0	40.3	49.0	31.6	44.8	34.3	23.3	12.4	13.8	12.8	15.1	13.7	14.6	62.0	12.4	31.7
Max.	**77.3**	**68.0**	**69.7**	**69.1**	**72.1**	**67.8**	**64.8**	**71.2**	**82.3**	**66.1**	**79.2**	**63.4**	**77.0**	**63.4**	**78.6**	**76.1**	**81.9**	**74.6**	**68.8**	**66.5**	**71.6**	**70.3**	**74.1**	**76.4**	**82.3**		
Min.	**5.3**	**6.0**	**6.6**	**6.5**	**6.0**	**6.7**	**6.6**	**6.3**	**4.2**	**4.0**	**4.9**	**6.2**	**6.9**	**7.8**	**6.9**	**6.6**	**5.8**	**8.0**	**7.2**	**5.6**	**8.6**	**7.2**	**7.7**	**7.6**		**4.0**	
Avg.	**28.4**	**27.8**	**26.0**	**24.5**	**25.9**	**29.3**	**28.5**	**27.4**	**30.9**	**27.7**	**28.2**	**30.8**	**36.4**	**33.7**	**35.7**	**35.2**	**32.5**	**30.7**	**29.5**	**27.2**	**29.5**	**34.6**	**34.1**	**32.2**			**30.3**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	13.5	13.2	16.7	17.9	16.0	24.5	34.2	39.5	34.1	30.2	30.9	37.0	66.9	47.5	57.9	35.5	38.6	38.3	42.9	52.7	44.9	57.9	55.8	72.3	72.3	13.2	38.3
2	38.9	63.0	47.5	68.1	64.8	59.3	66.8	36.3	53.2	41.4	64.2	32.5	63.2	47.0	55.6	36.2	37.8	42.9	62.0	42.8	22.7	14.2	23.4	9.2	68.1	9.2	45.5
3	9.1	10.3	8.0	9.8	9.4	8.5	22.8	44.4	10.2	6.6	10.6	11.8	11.4	10.9	10.5	8.6	10.3	11.4	10.2	10.4	13.7	11.3	21.0	10.6	44.4	6.6	12.6
4	11.1	12.7	11.2	10.5	10.1	9.2	9.5	9.9	10.8	10.8	10.5	10.4	10.1	10.4	10.1	10.5	10.2	9.5	10.0	9.7	9.4	9.0	9.1	9.1	12.7	9.0	10.2
5	8.5	9.5	9.7	9.4	9.1	8.9	9.7	10.8	8.8	10.9	9.7	10.7	10.9	46.7	50.2	19.2	11.3	9.8	9.1	8.2	7.3	8.4	6.6	7.8	50.2	6.6	13.0
6	13.6	8.6	10.5	10.0	9.1	7.9	9.5	13.2	8.9	7.6	6.1	17.1	16.9	26.5	40.0	59.0	32.9	38.2	12.1	11.9	12.3	6.9	6.9	8.1	59.0	6.1	16.4
7	7.9	13.1	28.5	19.8	36.5	32.9	10.7	15.0	16.8	18.3	13.0	9.6	9.4	11.6	11.3	9.8	9.3	9.0	8.2	15.9	13.5	9.4	8.9	7.8	36.5	7.8	14.4
8	8.1	9.5	11.7	34.4	32.5	41.0	49.3	28.4	21.9	19.0	15.1	34.9	13.6	19.9	10.0	16.8	15.9	10.6	17.1	11.6	7.9	7.1	8.0	6.9	49.3	6.9	18.8
9	28.4	12.4	34.4	50.2	42.5	41.5	11.0	10.6	13.3	12.6	11.9	23.2	17.5	30.9	17.8	15.0	13.8	18.3	17.9	22.8	22.0	14.0	22.0	21.4	50.2	10.6	21.9
10	18.2	15.0	14.5	14.0	33.1	28.1	38.1	42.1	43.5	18.8	8.1	13.0	7.2	7.1	5.8	7.5	34.9	25.4	7.7	9.0	8.8	12.0	18.6	43.2	43.5	5.8	19.7
11	51.9	28.5	10.5	11.0	10.6	8.7	9.8	10.1	8.6	52.5	4.3	9.7	42.7	40.2	49.0	48.7	61.4	66.1	58.4	57.4	54.3	50.5	57.7	43.9	66.1	4.3	35.3
12	40.3	53.2	50.5	51.0	49.7	54.3	51.7	48.7	41.6	54.2	33.0	50.6	53.0	56.7	68.7	44.7	47.0	40.6	46.1	37.5	31.8	46.5	17.3	17.1	68.7	17.1	45.2
13	14.2	18.6	39.6	38.7	47.7	31.2	14.3	13.5	10.5	8.0	11.3	38.5	54.3	43.6	61.6	54.2	51.7	26.7	48.8	56.6	56.3	50.0	55.5	28.0	61.6	8.0	36.4
14	12.7	15.1	15.3	15.5	20.0	16.0	18.4	9.8	7.1	6.1	9.6	7.1	5.2	9.8	29.4	49.0	51.5	43.1	26.1	70.6	56.9	34.3	12.3	11.7	70.6	5.2	23.0
15	12.3	9.4	9.6	9.4	10.3	8.7	9.5	9.4	8.3	10.2	8.0	7.7	5.2	6.1	21.7	4.4	6.0	20.3	63.7	57.2	67.5	35.5	50.4	68.9	68.9	4.4	21.7
16	25.8	17.4	35.7	65.3	29.1	22.1	34.9	65.3	60.9	36.6	45.3	31.6	37.2	31.2	24.5	39.6	60.8	53.5	57.9	43.5	18.9	32.6	47.3	11.9	65.3	11.9	38.7
17	7.7	9.6	9.2	9.0	9.7	34.6	23.9	17.5	50.4	27.9	10.8	10.5	7.8	48.8	33.7	21.5	27.9	33.7	22.1	24.1	11.3	11.0	12.0	10.8	50.4	7.7	20.2
18	9.0	12.5	11.3	11.4	19.3	17.6	14.3	14.1	13.6	17.6	22.9	35.3	35.5	43.2	64.6	54.6	35.5	33.5	44.2	14.2	47.9	16.8	14.8	18.3	64.6	9.0	25.9
19	8.3	8.0	7.9	7.4	8.4	9.1	37.5	12.4	12.2	14.4	16.6	17.8	18.6	17.1	25.7	49.1	74.1	71.6	72.2	73.7	75.6	58.0	44.7	19.6	75.6	7.4	31.7
20	44.3	21.1	20.8	19.0	18.5	15.5	10.6	9.6	10.9	10.8	10.1	11.1	10.4	11.4	11.2	11.0	10.3	10.1	9.5	9.6	10.2	10.2	11.5	10.4	44.3	9.5	13.7
21	7.4	11.3	12.4	15.3	11.7	10.3	17.3	24.3	41.4	35.5	24.3	12.0	15.4	6.7	9.1	9.1	25.3	73.6	63.0	23.4	17.2	56.7	56.1	38.1	73.6	6.7	25.7
22	63.8	36.0	53.0	82.1	57.0	21.5	19.7	15.4	15.7	30.4	31.8	58.8	53.1	51.7	29.4	27.5	26.0	37.8	44.9	36.7	32.9	42.3	28.9	41.0	82.1	15.4	39.0
23	29.8	29.7	41.9	37.1	38.8	34.6	54.1	53.9	51.2	62.2	55.3	62.9	37.9	29.4	26.0	35.0	27.8	16.5	14.1	9.0	15.3	7.9	6.7	7.0	62.9	6.7	32.7
24	8.8	6.3	45.9	71.4	6.6	10.0	21.5	25.1	23.0	24.2	15.3	15.4	13.9	32.8	15.2	13.3	13.8	23.9	19.1	14.2	15.2	17.0	17.7	20.8	71.4	6.3	20.4
25	23.4	19.9	19.5	27.6	44.9	26.1	14.0	14.1	15.3	24.0	10.1	9.3	7.5	8.6	13.5	9.7	22.6	23.1	20.5	19.8	25.6	27.4	17.7	27.1	44.9	7.5	19.6
26	25.4	23.4	20.8	21.8	28.1	27.7	23.8	26.6	23.3	11.8	7.2	11.5	7.6	9.0	8.4	26.6	39.4	41.0	21.4	31.8	34.9	36.0	18.9	24.8	41.0	7.2	23.0
27	31.4	19.5	14.2	17.1	24.1	12.6	10.1	7.7	6.7	5.8	3.7	3.0	2.9	4.7	19.9	16.1	50.1	27.8	11.2	6.6	5.6	7.3	8.7	16.9	50.1	2.9	13.9
28	11.6	13.2	9.6	14.1	15.9	23.0	15.7	8.9	9.8	30.2	6.4	9.2	12.4	25.1	32.4	18.1	14.0	16.7	17.5	23.0	45.6	23.4	23.2	12.2	45.6	6.4	18.0
29	7.2	8.0	9.2	7.2	5.0	4.9	6.7	6.4	6.4	6.9	7.5	8.0	8.5	8.9	11.3	8.4	9.5	9.4	8.1	7.7	9.3	9.3	8.5	11.9	11.9	4.9	8.1
30	12.0	14.1	12.6	10.3	10.3	9.8	12.5	7.9	13.8	12.5	20.5	41.1	61.4	43.1	30.8	13.9	14.1	15.2	14.5	13.3	14.9	14.8	16.5	19.6	61.4	7.9	18.7
31	18.8	16.8	15.2	15.3	14.7	14.0	14.2	14.4	13.7	25.6	24.7	14.7	16.6	17.9	15.6	17.7	17.2	13.9	14.2	14.5	34.5	33.9	18.0	27.6	34.5	13.7	18.5
Max.	**63.8**	**63.0**	**53.0**	**82.1**	**64.8**	**59.3**	**66.8**	**65.3**	**60.9**	**62.2**	**64.2**	**62.9**	**66.9**	**56.7**	**68.7**	**59.0**	**74.1**	**73.6**	**72.2**	**73.7**	**75.6**	**58.0**	**57.7**	**72.3**	**82.1**		
Min.	**7.2**	**6.3**	**7.9**	**7.2**	**5.0**	**4.9**	**6.7**	**6.4**	**6.4**	**5.8**	**3.7**	**3.0**	**2.9**	**4.7**	**5.8**	**4.4**	**6.0**	**9.0**	**7.7**	**6.6**	**5.6**	**6.9**	**6.6**	**6.9**		**2.9**	
Avg.	**20.1**	**18.0**	**21.2**	**25.8**	**24.0**	**21.7**	**22.4**	**21.5**	**21.5**	**22.0**	**18.0**	**21.5**	**23.7**	**25.9**	**28.1**	**25.5**	**29.1**	**29.4**	**28.9**	**27.1**	**27.2**	**24.9**	**23.4**	**22.1**			**23.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	29.1	40.4	23.7	26.0	38.1	19.3	24.7	43.5	9.0	17.1	18.0	8.1	16.3	21.0	15.6	22.1	18.3	19.2	16.5	15.5	24.4	31.3	49.9	26.9	49.9	8.1	23.9
2	19.5	21.2	51.4	64.1	49.1	27.7	20.9	28.3	39.6	17.3	12.1	10.1	13.0	47.4	26.5	25.5	33.6	33.6	34.9	34.2	49.0	59.0	54.3	50.8	64.1	10.1	34.3
3	36.4	55.6	35.6	55.5	55.5	36.4	46.2	24.5	25.3	44.8	51.4	62.5	31.7	25.3	17.6	14.7	16.2	16.9	13.9	14.7	26.6	36.8	18.1	16.6	62.5	13.9	32.4
4	17.9	14.2	14.7	16.2	15.5	23.6	17.7	35.6	16.4	14.6	13.0	13.6	14.9	18.8	19.5	30.7	21.2	17.6	18.8	16.8	14.4	13.7	30.1	19.8	35.6	13.0	18.7
5	40.8	26.6	35.1	14.9	14.6	15.8	16.5	30.4	32.9	46.4	44.2	13.6	54.7	48.6	67.1	58.8	79.5	63.9	56.9	52.1	41.1	34.5	54.5	52.9	79.5	13.6	41.5
6	21.5	64.0	41.2	22.7	30.6	46.8	44.4	52.0	74.1	70.0	39.0	48.6	21.9	38.1	31.6	36.5	38.7	42.7	31.5	43.9	42.6	67.7	57.0	36.2	74.1	21.5	43.5
7	33.9	45.0	17.9	30.0	49.3	16.4	16.9	29.5	21.0	19.1	13.7	11.1	8.7	7.7	9.9	11.8	11.1	9.2	9.1	9.9	9.5	9.8	9.4	8.6	49.3	7.7	17.4
8	9.1	8.5	9.7	9.4	9.2	10.5	9.7	10.2	10.5	11.2	10.4	10.6	11.3	12.3	16.4	13.5	11.1	20.1	9.8	13.3	16.4	10.2	7.3	8.6	20.1	7.3	11.2
9	9.1	7.9	7.6	6.7	8.7	8.6	8.3	7.7	8.4	10.6	27.1	25.4	13.5	15.5	34.3	14.8	54.9	20.1	27.1	28.8	49.4	43.9	40.7	33.9	54.9	6.7	21.4
10	31.4	48.8	34.7	18.9	14.3	13.6	20.1	40.4	14.9	14.9	14.2	14.0	14.4	14.2	15.6	14.5	14.2	13.6	14.1	14.9	15.4	23.9	25.1	61.3	61.3	13.6	21.7
11	21.3	10.6	19.6	27.3	36.9	51.0	18.2	50.2	41.4	39.2	20.0	16.3	11.8	13.6	17.5	13.7	21.4	31.2	17.5	36.2	29.7	38.0	23.1	26.7	51.0	10.6	26.3
12	26.1	24.3	16.4	58.0	42.5	67.8	60.3	68.7	30.8	19.5	45.0	8.5	7.7	12.4	9.0	13.7	14.6	12.9	12.4	7.7	11.6	15.0	21.7	31.5	68.7	7.7	26.6
13	30.9	37.2	17.6	20.3	11.4	18.5	24.8	13.4	18.5	17.9	14.9	15.5	11.0	10.9	10.0	14.0	14.6	14.6	11.5	10.3	7.9	6.0	5.9	7.2	37.2	5.9	15.2
14	6.1	7.1	7.3	8.4	8.3	8.2	9.3	7.4	9.2	8.9	9.1	9.7	9.7	5.3	6.8	7.1	8.3	8.2	7.9	7.8	7.5	6.6	7.1	8.2	9.7	5.3	7.9
15	8.1	8.6	9.8	10.4	23.0	33.3	15.0	52.5	17.2	10.1	56.8	9.9	52.5	23.3	38.7	66.3	55.0	74.9	45.1	44.5	19.8	12.0	11.6	5.6	74.9	5.6	29.3
16	4.4	9.6	9.0	9.4	9.5	10.0	10.0	11.3	10.0	9.3	9.0	9.9	9.2	7.9	9.5	9.4	8.9	8.3	8.7	10.0	7.7	7.8	8.9	6.5	11.3	4.4	8.9
17	6.2	5.5	6.1	5.6	5.2	5.0	6.4	6.9	10.6	56.5	26.9	36.7	42.7	50.4	42.9	29.9	22.8	13.7	12.4	23.0	16.8	11.8	8.3	11.0	56.5	5.0	19.3
18	19.6	17.1	22.2	19.5	9.3	9.3	8.8	9.1	9.3	9.3	9.5	10.1	8.8	9.1	8.7	9.1	8.5	8.8	30.5	67.0	27.3	24.5	29.7	48.3	67.0	8.5	18.1
19	42.6	70.3	43.6	32.4	55.9	58.5	54.7	19.4	13.9	14.0	25.7	35.9	43.0	21.3	25.0	26.4	24.6	26.3	22.3	16.5	19.9	43.6	30.9	24.5	70.3	13.9	33.0
20	8.9	6.0	6.6	7.3	8.2	7.1	7.2	7.1	7.6	7.6	9.4	9.3	9.1	9.4	8.8	7.6	7.5	7.2	10.6	8.7	8.3	11.3	8.9	11.6	11.6	6.0	8.4
21	8.0	10.0	12.3	12.2	24.7	16.9	15.4	14.7	14.0	16.8	13.9	14.2	21.1	54.5	67.9	48.7	18.2	33.1	38.1	24.5	24.4	25.5	60.2	45.6	67.9	8.0	26.5
22	30.1	31.2	38.9	50.3	64.8	54.1	56.5	63.8	66.5	17.7	15.0	27.8	15.0	7.2	6.7	15.4	23.8	16.9	25.0	25.2	12.8	15.0	15.7	16.8	66.5	6.7	29.7
23	18.1	19.7	16.8	16.7	18.3	16.8	17.2	17.6	28.5	25.7	29.4	36.3	29.2	30.7	49.4	36.6	47.4	59.9	41.6	21.3	19.5	33.8	24.0	31.5	59.9	16.7	28.6
24	26.5	33.3	44.9	33.1	15.9	12.3	15.4	14.3	18.5	22.5	47.1	47.3	59.2	37.4	28.1	31.8	42.2	48.5	53.1	40.8	27.9	22.7	20.0	15.2	59.2	12.3	31.6
25	14.0	13.8	14.8	14.9	14.6	14.9	13.7	15.4	18.7	18.9	16.4	14.7	15.7	13.9	13.1	16.1	13.2	15.2	14.1	13.5	12.8	12.6	12.7	14.1	18.9	12.6	14.6
26	13.7	14.6	13.2	14.1	17.2	14.1	13.2	13.0	13.1	15.1	14.7	13.3	13.9	12.7	12.8	13.3	12.3	32.8	37.1	34.0	12.7	19.8	43.3	37.7	43.3	12.3	18.8
27	13.4	14.1	16.4	28.3	45.9	67.7	75.6	20.2	19.1	16.5	9.7	8.9	9.2	8.3	13.9	27.0	15.1	11.5	13.1	8.9	8.1	5.5	5.0	5.7	75.6	5.0	19.5
28	5.7	4.9	7.3	7.6	7.6	5.8	5.3	8.5	4.5	7.2	6.3	6.1	7.0	7.5	7.4	7.5	8.0	8.8	8.3	7.1	9.6	7.7	9.0	7.6	9.6	4.5	7.2
29	22.7	10.5	12.4	10.3	8.8	43.9	13.5	11.8	11.3	14.9	34.3	47.0	48.9	62.9	56.6	44.9	39.8	43.6	48.0	55.4	55.3	51.3	49.0	59.5	62.9	8.8	35.7
30	54.6	45.5	44.5	37.3	43.3	56.7	65.8	78.4	47.1	44.9	17.2	32.1	25.5	23.3	53.8	39.7	22.1	17.6	18.9	18.8	11.4	13.2	38.9	18.1	78.4	11.4	36.2
Max.	**54.6**	**70.3**	**51.4**	**64.1**	**64.8**	**67.8**	**75.6**	**78.4**	**74.1**	**70.0**	**56.8**	**62.5**	**59.2**	**62.9**	**67.9**	**66.3**	**79.5**	**74.9**	**56.9**	**67.0**	**55.3**	**67.7**	**60.2**	**61.3**	**79.5**		
Min.	**4.4**	**4.9**	**6.1**	**5.6**	**5.2**	**5.0**	**5.3**	**6.9**	**4.5**	**7.2**	**6.3**	**6.1**	**7.0**	**5.3**	**6.7**	**7.1**	**7.5**	**7.2**	**7.9**	**7.1**	**7.5**	**5.5**	**5.0**	**5.6**		**4.4**	
Avg.	**21.0**	**24.2**	**21.7**	**22.9**	**25.2**	**26.3**	**24.4**	**26.9**	**22.1**	**21.9**	**22.4**	**20.9**	**21.7**	**22.4**	**24.7**	**24.0**	**24.2**	**25.0**	**23.6**	**24.2**	**21.3**	**23.8**	**26.0**	**24.9**			**23.6**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	23.9	13.1	26.0	21.0	20.0	15.4	21.5	17.4	23.4	30.4	20.5	19.5	15.7	14.1	15.1	22.9	23.2	17.8	25.0	28.2	27.0	13.2	11.6	17.9	30.4	11.6	20.2
2	29.2	24.5	19.5	15.2	19.9	26.2	43.5	58.1	49.1	15.4	17.9	42.2	57.0	59.3	44.0	58.6	68.2	60.4	36.5	22.3	25.5	36.1	51.6	57.3	68.2	15.2	39.1
3	36.3	49.2	49.3	34.9	18.9	17.8	16.0	13.4	15.6	14.0	14.1	14.0	15.3	13.4	13.6	15.1	15.6	29.0	19.3	26.3	33.2	26.8	19.1	40.3	49.3	13.4	23.4
4	44.8	23.0	37.0	12.6	9.7	9.5	6.1	5.0	9.1	8.0	7.6	8.1	11.3	10.1	9.0	6.8	6.9	8.9	9.4	6.2	8.2	6.0	8.5	7.2	44.8	5.0	11.6
5	6.7	7.5	6.3	6.5	9.4	6.4	6.6	11.0	9.2	10.0	9.5	10.8	10.4	9.9	10.1	10.5	9.8	8.4	10.3	9.8	9.2	9.4	8.3	9.0	11.0	6.3	9.0
6	9.8	9.3	8.9	9.9	9.4	9.5	9.0	9.8	9.4	8.6	10.2	8.5	10.3	12.9	11.2	3.4	5.5	6.6	8.1	21.8	26.7	23.9	18.4	15.4	26.7	3.4	11.5
7	14.0	11.0	9.3	9.4	8.2	9.2	10.0	10.8	8.8	9.1	9.5	9.1	9.2	9.6	9.8	9.6	8.9	13.0	12.4	11.1	9.7	9.3	9.8	11.2	14.0	8.2	10.1
8	12.1	23.0	15.1	8.4	8.0	7.2	5.4	4.6	6.5	11.5	11.3	58.8	63.1	66.9	46.7	47.1	56.8	74.7	38.5	40.2	63.8	42.6	61.6	67.7	74.7	4.6	35.1
9	49.8	51.4	54.5	51.8	65.8	59.9	41.8	41.8	37.5	8.3	9.7	9.0	10.2	10.9	10.4	9.5	10.3	24.5	68.0	77.5	11.0	54.7	43.3	32.1	77.5	8.3	35.2
10	63.6	51.5	18.0	10.1	21.3	8.2	11.2	11.1	6.1	8.6	8.3	9.1	14.0	31.1	28.3	21.0	10.7	19.2	44.9	24.9	13.1	9.2	9.9	11.0	63.6	6.1	19.3
11	11.5	8.4	7.4	8.4	46.4	18.3	57.3	15.8	16.9	15.5	17.5	15.1	17.0	17.5	27.5	42.4	42.2	76.3	58.4	37.3	53.8	76.3	47.5	42.2	76.3	7.4	32.4
12	38.2	43.5	43.4	46.7	40.6	31.3	43.1	45.2	42.6	72.4	45.0	41.2	43.1	61.1	59.4	43.3	41.8	55.6	38.0	31.9	37.5	36.7	32.2	22.5	72.4	22.5	43.2
13	14.0	28.4	23.6	9.8	7.7	9.4	8.6	8.4	8.0	8.6	8.5	8.5	8.2	8.5	8.9	8.7	10.5	10.0	9.3	9.1	9.4	9.7	9.6	10.0	28.4	7.7	10.6
14	9.7	9.9	9.8	9.9	9.4	9.6	9.3	9.5	9.3	9.0	9.3	9.6	9.7	9.2	10.1	10.2	9.2	9.1	8.6	9.1	9.5	9.7	9.6	9.0	10.2	8.6	9.5
15	11.1	10.6	11.8	10.2	10.3	9.8	9.8	9.2	9.5	9.9	9.0	10.5	9.2	8.7	8.4	8.2	8.6	9.2	9.0	9.2	9.4	18.5	24.6	31.1	31.1	8.2	11.5
16	50.7	46.7	45.0	64.6	58.5	55.4	50.1	53.8	47.9	66.7	46.7	32.5	15.9	27.6	27.2	14.7	14.3	42.0	53.9	18.2	19.7	26.3	16.6	15.3	66.7	14.3	37.9
17	22.0	16.7	13.1	14.8	11.1	11.5	16.3	18.2	18.8	35.6	7.7	7.8	12.1	9.9	13.0	11.3	17.1	18.4	10.7	12.3	10.4	11.6	12.4	9.2	35.6	7.7	14.3
18	9.5	9.6	10.9	9.8	10.3	9.6	10.3	10.6	10.3	9.0	9.7	10.9	15.9	11.0	12.2	9.8	11.8	11.5	8.9	9.8	10.2	9.5	9.7	9.9	15.9	8.9	10.5
19	9.8	10.3	9.4	9.7	9.2	8.5	12.9	10.2	9.2	9.4	9.5	11.4	11.1	12.2	12.1	26.0	27.7	40.9	9.7	15.5	18.2	35.9	7.7	10.5	40.9	7.7	14.5
20	9.8	7.4	11.5	10.2	8.5	9.3	9.2	49.8	72.0	45.4	14.5	33.9	27.5	55.8	36.1	31.1	41.7	15.5	28.9	15.9	58.6	25.9	43.7	22.3	72.0	7.4	28.5
21	34.7	5.9	34.0	26.1	48.1	37.6	9.6	16.7	52.5	13.2	19.8	11.6	15.5	20.8	21.0	10.2	19.7	15.8	9.6	14.4	24.8	22.3	29.7	18.6	52.5	5.9	22.2
22	19.9	28.5	20.2	13.3	13.5	46.1	31.7	23.0	17.5	9.5	9.6	7.0	5.8	6.3	8.0	42.0	33.5	6.2	8.7	9.5	7.4	7.4	5.2	9.0	46.1	5.2	16.2
23	10.7	29.1	57.8	25.1	15.1	16.5	30.1	11.4	16.2	7.8	6.9	7.1	9.5	18.9	22.4	11.9	6.5	6.9	7.3	5.6	8.4	9.7	9.0	8.6	57.8	5.6	14.9
24	10.2	11.8	8.9	9.6	7.3	7.6	7.6	7.0	8.6	9.3	7.5	7.2	7.3	9.5	7.6	7.3	7.3	9.0	8.6	10.2	10.7	9.1	9.2	9.4	11.8	7.0	8.7
25	9.4	10.2	9.4	9.3	10.7	11.8	10.2	10.6	10.8	11.7	10.6	11.1	9.9	10.5	9.9	9.3	10.2	9.7	9.9	9.9	9.4	9.0	10.2	10.1	11.8	9.0	10.2
26	10.5	9.7	10.7	8.8	10.7	11.2	9.4	8.8	8.9	9.3	9.3	9.3	9.4	9.4	9.6	9.0	9.7	9.8	9.2	7.9	9.0	9.0	8.6	8.5	11.2	7.9	9.4
27	9.0	9.5	9.7	9.7	9.9	10.4	11.2	13.0	11.9	10.6	10.1	10.4	11.2	8.7	7.2	11.5	10.9	10.3	9.6	9.6	9.6	9.7	9.8	10.2	13.0	7.2	10.2
28	9.4	9.2	10.1	9.8	10.4	9.5	9.5	9.3	9.6	9.7	9.4	9.6	8.6	9.8	10.0	9.8	9.9	10.0	9.6	10.5	9.4	10.4	9.1	9.2	10.5	8.6	9.7
29	9.3	8.7	8.7	8.9	9.4	10.6	11.0	15.5	20.7	29.3	22.3	11.6	10.7	9.8	9.8	9.9	9.4	9.8	9.8	9.6	9.6	10.0	9.8	10.1	29.3	8.7	11.8
30	9.6	9.6	9.1	9.7	9.9	9.5	10.4	11.4	15.2	16.6	45.4	52.4	43.9	9.8	10.3	10.8	9.8	9.9	9.0	9.5	9.8	9.5	10.6	9.7	52.4	9.0	15.0
31	9.0	10.3	9.3	10.3	9.4	10.0	9.5	9.9	9.0	9.1	9.2	10.0	12.8	11.1	9.4	11.2	10.5	8.8	8.4	9.2	9.2	9.1	9.3	9.8	12.8	8.4	9.7
Max.	**63.6**	**51.5**	**57.8**	**64.6**	**65.8**	**59.9**	**57.3**	**58.1**	**72.0**	**72.4**	**46.7**	**58.8**	**63.1**	**66.9**	**59.4**	**58.6**	**68.2**	**76.3**	**68.0**	**77.5**	**63.8**	**76.3**	**61.6**	**67.7**	**77.5**		
Min.	**6.7**	**5.9**	**6.3**	**6.5**	**7.3**	**6.4**	**5.4**	**4.6**	**6.1**	**7.8**	**6.9**	**7.0**	**5.8**	**6.3**	**7.2**	**3.4**	**5.5**	**6.2**	**7.3**	**5.6**	**7.4**	**6.0**	**5.2**	**7.2**		**3.4**	
Avg.	**19.9**	**19.3**	**19.9**	**16.6**	**18.0**	**16.9**	**17.7**	**17.7**	**19.4**	**17.5**	**14.7**	**16.7**	**17.1**	**18.8**	**17.4**	**17.8**	**18.7**	**21.2**	**19.6**	**17.5**	**18.8**	**19.6**	**18.6**	**18.2**			**18.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	9.0	9.4	7.2	8.0	8.8	9.7	9.6	9.5	10.5	11.4	10.8	10.1	9.9	10.5	8.9	8.9	8.9	8.8	9.1	9.0	8.5	12.0	11.6	9.9	12.0	7.2	9.6
2	11.4	9.2	9.8	8.0	10.3	8.5	9.6	9.6	9.7	9.5	9.7	9.2	9.7	9.1	9.7	9.6	9.8	10.1	13.4	10.7	10.7	8.9	13.4	16.1	16.1	8.0	10.2
3	13.1	15.8	13.7	17.2	11.6	12.2	15.4	10.0	8.2	8.7	9.1	8.1	8.0	7.5	7.7	9.6	8.5	8.1	7.7	6.6	10.3	8.7	9.1	7.4	17.2	6.6	10.1
4	7.5	8.8	49.8	21.9	9.7	9.5	45.7	52.9	45.3	43.4	16.5	8.4	5.1	5.3	4.0	13.0	9.4	27.9	49.2	8.9	27.9	32.7	58.5	15.0	58.5	4.0	24.0
5	17.1	9.0	9.1	9.7	9.8	8.0	8.6	35.9	52.7	36.9	11.7	67.1	36.2	9.3	9.0	38.6	38.2	26.9	6.4	6.4	11.6	6.0	69.2	40.0	69.2	6.0	23.9
6	17.3	28.8	19.0	6.1	7.3	13.7	7.2	5.3	8.7	10.9	50.4	16.8	23.2	11.0	6.1	24.6	45.3	6.4	22.3	30.3	23.9	8.4	9.2	66.2	66.2	5.3	19.5
7	31.1	31.5	8.0	10.4	22.9	18.2	36.9	29.0	18.2	8.8	9.7	9.5	9.6	9.2	8.6	9.6	9.1	9.4	8.9	10.3	9.6	8.8	9.2	8.6	36.9	8.0	14.4
8	8.5	9.4	9.3	10.1	9.0	8.5	9.1	8.8	9.3	10.1	11.3	9.3	9.1	8.9	71.6	35.5	14.7	51.5	30.5	35.6	18.3	12.7	10.4	11.6	71.6	8.5	17.6
9	14.0	9.9	7.7	7.5	8.3	11.8	11.8	14.5	15.1	16.9	30.2	37.9	60.5	25.4	11.6	14.4	22.5	7.4	11.0	16.4	8.6	30.8	39.7	25.0	60.5	7.4	19.1
10	65.2	18.5	26.1	17.1	5.9	8.4	13.6	60.7	71.9	62.2	61.8	45.1	9.7	72.0	51.5	38.0	15.3	12.0	10.0	15.9	29.6	10.6	12.9	46.0	72.0	5.9	32.5
11	49.4	27.6	44.4	66.0	51.9	9.3	12.9	51.6	29.0	31.8	42.8	41.6	18.2	15.6	9.7	12.4	33.0	54.4	21.7	22.9	19.1	20.3	33.2	36.4	66.0	9.3	31.5
12	53.9	43.7	11.3	37.5	28.6	13.4	12.2	9.0	26.4	50.4	14.3	21.0	13.9	12.9	17.2	15.1	12.9	14.7	38.2	33.6	29.1	23.4	57.1	27.9	57.1	9.0	25.7
13	52.9	25.8	21.7	33.2	27.2	28.4	20.5	32.8	36.7	28.7	51.8	42.0	29.5	18.4	21.8	17.5	24.0	25.5	22.8	34.0	47.7	25.6	15.1	31.3	52.9	15.1	29.8
14	14.1	10.5	14.8	11.9	9.5	6.5	6.7	10.7	13.8	8.0	12.5	9.2	7.4	7.6	8.3	8.3	7.3	8.4	7.6	8.0	8.1	6.6	7.1	8.1	14.8	6.5	9.2
15	9.8	7.9	7.2	8.4	8.1	7.7	7.4	9.2	9.3	8.2	9.7	7.2	8.5	7.0	7.7	8.8	9.2	9.2	8.9	8.7	8.3	8.8	8.7	9.3	9.8	7.0	8.5
16	8.9	8.7	8.8	8.6	7.5	9.1	9.4	9.5	9.7	9.6						7.8	11.6	13.1	21.5	18.0	61.0	24.9	8.8	7.2	61.0	7.2	13.9
17	24.4	14.2	10.6	11.1	11.7	17.0	19.2	22.0	25.8	19.3	31.6	27.5	12.4	65.1	65.0	82.7	44.2	41.3	20.2	29.5	34.0	13.6	9.5	8.5	82.7	8.5	27.5
18	12.5	8.9	10.4	22.2	18.5	12.0	21.1	23.0	20.8	38.2	22.1	13.0	13.4	16.5	17.3	13.4	21.2	36.0	26.0	21.4	42.5	41.8	43.1	63.5	63.5	8.9	24.1
19	46.8	50.7	16.6	23.0	25.5	23.2	33.2	27.5	25.0	26.1	26.5	14.0	14.0	15.5	15.2	18.2	24.6	22.2	26.1	30.5	44.3	43.9	14.5	17.2	50.7	14.0	26.0
20	17.7	10.9	19.2	7.9	9.8	8.0	8.0	6.8	6.6	7.6	6.1	7.3	9.1	8.3	9.6	9.8	8.3	7.9	10.4	11.3	10.7	10.2	9.7	8.6	19.2	6.1	9.6
21	8.7	7.9	7.1	6.6	8.5	5.5	6.9	8.1	9.9	8.9	8.1	6.3	10.3	11.7	8.4	6.3	13.9	10.8	11.8	30.0	12.8	14.4	14.1	20.4	30.0	5.5	10.7
22	32.7	58.3	60.4	50.2	55.9	58.9	59.6	28.7	27.5	25.2	27.4	30.2	28.5	22.7	18.4	15.0	17.8	15.9	13.9	14.6	14.6	15.2	15.8	14.9	60.4	13.9	30.1
23	14.4	14.3	29.8	15.6	13.1	17.8	23.9	19.6	39.3	13.4	12.3	22.1	24.4	15.3	13.6	23.7	15.0	31.6	47.9	43.9	28.4	49.6	18.3	21.2	49.6	12.3	23.7
24	19.5	23.7	37.2	32.2	18.7	18.4	18.9	17.8	16.1	17.7	15.8	10.7	12.0	12.8	11.0	10.4	29.7	9.5	11.6	13.2	17.4	18.7	21.2	20.0	37.2	9.5	18.1
25	23.0	20.5	24.8	18.9	25.6	25.5	19.9	19.5	13.9	12.3	9.9	5.4	5.4	6.3	8.6	10.2	18.1	18.5	13.5	13.6	11.5	9.6	12.7	11.9	25.6	5.4	15.0
26	9.9	11.0	9.3	8.6	8.9	9.5	11.0	8.8	11.8	6.8	7.8	7.9	6.4	7.7	7.8	7.4	7.7	10.5	10.1	13.3	28.5	21.4	13.3	18.2	28.5	6.4	11.0
27	20.2	62.3	30.9	48.6	51.3	47.7	72.3	29.0	55.1	48.4	32.5	21.8	19.5	13.7	14.2	14.2	13.8	14.4	13.5	13.0	15.4	15.8	16.0	14.4	72.3	13.0	29.1
28	12.9	14.1	13.3	13.2	13.4	13.1	13.4	13.7	13.7	14.8	15.2	16.8	15.7	28.2	23.5	15.2	10.8	27.7	11.4	18.0	42.7	19.8	26.4	11.4	42.7	10.8	17.4
29	9.1	10.2	8.7	9.4	9.1	11.9	12.5	12.4	11.6	11.3	8.8	9.1	10.5	10.0	12.8	34.0	20.3	33.1	22.8	25.4	11.4	12.8	28.6	11.3	34.0	8.7	14.9
30	8.8	8.6	8.8	9.2	13.5	13.5	10.7	12.3	14.7	14.9	18.1	17.2	10.2	13.1	12.6	11.5	14.9	20.7	23.9	55.2	7.7	7.8	6.2	8.9	55.2	6.2	14.3
31	7.8	7.5	8.3	9.3	8.6	8.7	9.0	8.6	12.3	7.8	7.8	7.9	9.4	11.0	8.0	6.2	17.8	19.6	23.2	33.9	12.2	12.9	8.8	13.1	33.9	6.2	11.7
Max.	**65.2**	**62.3**	**60.4**	**66.0**	**55.9**	**58.9**	**72.3**	**60.7**	**71.9**	**62.2**	**61.8**	**67.1**	**60.5**	**72.0**	**71.6**	**82.7**	**45.3**	**54.4**	**49.2**	**55.2**	**61.0**	**49.6**	**69.2**	**66.2**	**82.7**		
Min.	**7.5**	**7.5**	**7.1**	**6.1**	**5.9**	**5.5**	**6.7**	**5.3**	**6.6**	**6.8**	**6.1**	**5.4**	**5.1**	**5.3**	**4.0**	**6.2**	**7.3**	**6.4**	**6.4**	**6.4**	**7.7**	**6.0**	**6.2**	**7.2**		**4.0**	
Avg.	**21.0**	**19.3**	**18.2**	**18.3**	**17.0**	**15.3**	**18.6**	**19.9**	**21.9**	**20.3**	**20.1**	**18.6**	**15.3**	**16.3**	**16.6**	**17.7**	**18.0**	**19.8**	**18.6**	**20.7**	**21.5**	**18.0**	**20.4**	**20.3**			**18.8**

Total Hours in Month 744 **Hours Data Available** 739 **Data Recovery** 99.3%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	13.0	9.5	13.0	11.3	24.4	27.8	16.5	15.2	20.4	13.1	14.3	13.9	14.8	13.9	12.7	19.2	27.1	79.3	73.0	39.2	42.1	67.0	31.2	29.7	79.3	9.5	26.7
2	26.5	15.2	20.5	20.9	23.7	18.5	14.5	17.3	10.9	14.8	29.9	46.3	20.5	10.6	12.2	19.1	14.2	12.9	17.3	17.2	8.1	5.2	7.2	6.8	46.3	5.2	17.1
3	6.3	7.7	8.3	8.8	8.4	8.7	9.5	9.9	9.4	9.8	8.5	7.8	9.4	8.6	8.9	10.2	10.4	10.5	10.2	9.1	9.6	9.2	9.0	9.4	10.5	6.3	9.1
4	11.0	11.3	9.8	9.8	10.4	10.5	10.5	10.6	10.2	9.9	11.8	10.4	10.0	10.2	9.6	9.7	9.5	9.7	9.7	9.4	9.1	9.2	9.6	9.7	11.8	9.1	10.1
5	9.6	9.4	10.0	8.9	9.2	9.3	8.9	8.8	8.6	9.1	9.2	9.9	11.5	8.5	11.1	9.5	9.2	8.7	9.2	9.3	9.3	9.3	9.0	8.9	11.5	8.5	9.3
6	9.6	9.4	9.5	9.3	9.4	9.2	8.6	9.6	11.4	19.9	37.2	44.1	59.7	47.0	30.2	55.6	37.1	11.7	14.9	18.3	16.6	23.7	12.9	10.7	59.7	8.6	21.9
7	7.6	5.2	6.8	6.8	40.4	46.9	75.2	65.2	24.4	28.7	30.8	19.1	21.0	24.5	22.6	32.1	50.7	39.9	31.8	25.9	22.4	19.7	44.1	72.2	75.2	5.2	31.8
8	72.6	54.4	42.0	50.3	35.8	10.8	13.0	13.8	7.5	10.0	8.1	11.8	9.8	9.4	11.1	10.1	9.9	10.2	9.1	9.3	10.7	10.0	10.4	9.6	72.6	7.5	18.7
9	10.0	10.0	9.0	9.5	10.0	9.7	9.3	9.4	9.4	9.1	8.7	8.7	9.0	9.2	9.5	9.5	10.6	10.0	9.8	9.5	10.2	11.2	16.3	23.2	23.2	8.7	10.4
10	13.2	12.2	9.8	9.8	10.8	10.4	8.7	10.0	10.7	9.6	9.4	11.9	28.2	42.8			60.8	43.3	35.9	36.8	62.8	51.0	68.5	35.4	68.5	8.7	26.9
11	38.3	17.7	9.4	6.7	9.0	9.1	7.9	7.8	8.3	10.1	9.1	9.9	9.3	9.2	10.5	9.9	9.9	9.7	9.9	8.2	9.2	10.2	9.8	10.3	38.3	6.7	10.8
12	9.9	11.1	28.4	48.2	6.7	15.4	23.8	16.8	16.3	43.4	43.1	27.9	26.0	37.6	40.5	42.9	36.0	30.2	44.3	32.5	20.8	15.5	26.8	29.2	48.2	6.7	28.0
13	61.5	36.3	18.4	43.1	30.7	25.9	62.2	9.8	7.3	30.9	54.1	6.3	5.7	10.4	11.1	20.7	18.9	14.2	12.9	20.6	20.1	13.4	25.3	23.7	62.2	5.7	24.3
14	31.3	32.3	33.0	19.3	13.9	14.9	16.4	18.1	20.8	22.1	12.5	11.5	11.5	11.1	10.0	8.9	11.1	10.4	11.2	17.8	9.4	8.1	9.7	10.4	33.0	8.1	15.6
15	12.1	11.0	13.3	11.0	11.6	11.3	10.5	11.0	14.3	30.1	20.9	54.7	30.7	57.5	14.3	37.5	37.5	41.5	31.4	29.9	37.4	34.0	54.7	32.1	57.5	10.5	27.1
16	9.1	15.9	12.9	4.3	3.4	4.0	53.3	16.9	16.7	33.3	44.9	50.0	55.1	10.8	13.7	45.9	9.3	9.6	9.3	8.9	9.2	8.0	6.5	6.9	55.1	3.4	19.1
17	9.9	8.9	8.1	8.7	9.8	9.9	9.5	10.4	11.1	9.6	10.9	11.3	15.4	16.9	18.3	11.6	9.3	10.5	14.7	23.6	21.3	18.6	17.3	30.7	30.7	8.1	13.6
18	37.1	23.0	13.6	18.2	10.7	9.8	32.4	13.5	20.4	20.4	31.2	53.3	45.2	41.3	66.2	27.8	34.5	49.6	53.2	26.7	9.5	5.6	5.5	7.3	66.2	5.5	27.3
19	46.7	49.8	17.6	17.7	22.3	50.0	48.7	52.6	37.3	36.8	30.6	63.6	50.9	61.2	22.7	30.4	43.7	16.3	18.6	23.2	21.8	19.6	18.8	20.5	63.6	16.3	34.2
20	21.1	22.2	19.4	61.6	71.4	55.6	40.8	39.2	41.2	44.0	50.6	36.4	46.8	25.1	37.1	49.1	16.2	18.8	22.8	15.4	22.8	14.7	15.3	18.7	71.4	14.7	33.6
21	14.7	36.0	38.7	57.1	34.7	63.2	44.2	48.6	32.9	32.1	42.4	32.8	29.9	46.1	43.3	45.9	40.2	42.8	35.7	43.6	36.0	56.0	63.0	42.7	63.2	14.7	41.8
22	45.0	43.8	57.5	50.7	54.5	56.0	21.7	29.7	26.9	44.5	46.2	35.4	59.9	42.6	36.3	51.0	32.5	47.2	51.0	57.2	54.8	40.0	52.5	43.5	59.9	21.7	45.0
23	68.9	21.2	44.6	10.7	37.4	7.5	33.2	52.6	45.6	39.6	39.3	20.3	38.0	38.9	38.8	37.2	36.6	44.0	52.8	72.1	31.0	21.1	19.3	30.2	72.1	7.5	36.7
24	20.2	23.8	19.6	21.8	28.6	17.2	21.8	16.9	8.4	7.1	5.9	9.1	7.7	7.6	8.4	11.1	24.0	24.2	24.9	22.1	17.9	15.9	12.6	11.2	28.6	5.9	16.2
25	7.5	8.5	7.6	8.2	10.0	12.0	8.6	15.8	47.6	7.3	24.1	51.5	9.1	41.7	51.2	34.5	35.0	39.0	23.5	26.4	22.2	29.7	41.1	31.0	51.5	7.3	24.7
26	40.4	50.7	38.0	70.6	58.2	59.1	65.7	58.0	67.0	22.9	36.2	48.2	31.2	53.1	61.6	55.5	56.3	34.5	28.7	17.9	16.9	6.9	6.7	6.1	70.6	6.1	41.3
27	7.4	6.8	7.1	8.5	8.3	9.8	18.6	38.3	7.7	10.8	21.3	28.8	52.8	22.9	13.7	13.9	19.2	26.7	12.8	18.8	36.1	46.1	33.1	34.3	52.8	6.8	21.0
28	28.4	15.1	16.9	22.1	22.0	14.8	12.5	13.7	39.6	31.1	34.2	23.2	15.7	16.9	13.9	28.2	31.9	28.6	29.5	53.2	41.7	13.8	14.2	13.5	53.2	12.5	23.9
Max.	**72.6**	**54.4**	**57.5**	**70.6**	**71.4**	**63.2**	**75.2**	**65.2**	**67.0**	**44.5**	**54.1**	**63.6**	**59.9**	**61.2**	**66.2**	**55.6**	**60.8**	**79.3**	**73.0**	**72.1**	**62.8**	**67.0**	**68.5**	**72.2**	**79.3**		
Min.	**6.3**	**5.2**	**6.8**	**4.3**	**3.4**	**4.0**	**7.9**	**7.8**	**7.3**	**7.1**	**5.9**	**6.3**	**5.7**	**7.6**	**8.4**	**8.9**	**9.2**	**8.7**	**9.1**	**8.2**	**8.1**	**5.2**	**5.5**	**6.1**		**3.4**	
Avg.	**24.6**	**20.6**	**19.4**	**22.6**	**22.3**	**21.7**	**25.2**	**22.8**	**21.1**	**21.8**	**25.9**	**27.1**	**26.2**	**26.3**	**23.7**	**27.3**	**26.5**	**26.2**	**25.3**	**25.1**	**22.8**	**21.2**	**23.2**	**22.1**			**23.8**

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	14.1	30.3	22.9	23.5	16.6	13.0	16.2	21.1	29.2	15.7	6.5	6.4	4.2	6.4	6.9	8.1	9.1	9.3	7.1	8.1	8.0	6.6	7.1	9.6	30.3	4.2	12.7
2	13.0	7.3	7.9	8.7	9.5	9.2	9.5	7.5	6.5	7.4	6.8	7.9	7.3	7.0	6.8	8.9	8.5	9.4	9.7	9.5	9.6	8.4	9.3	7.8	13.0	6.5	8.5
3	8.7	8.1	8.9	8.9	8.9	7.5	6.7	8.4	8.1	8.7	8.8	8.8	8.9	5.7	5.2	5.3	5.3	7.2	5.6	6.2	6.3	7.7	5.9	6.3	8.9	5.2	7.3
4	6.8	7.1	6.6	7.6	7.6	6.8	7.9	7.9	7.9	7.2	8.1	7.1	13.6	27.6	21.5	19.3	15.1	8.7	9.4	10.7	14.1	8.3	8.3	7.6	27.6	6.6	10.5
5	8.8	7.9	11.8	9.6	8.7	8.3	10.5	26.8	51.0	72.3	61.7	30.9	50.7	46.2	31.7	65.0	52.0	52.4	34.0	25.8	40.5	44.8	37.5	37.4	72.3	7.9	34.4
6	31.8	21.6	42.4	39.5	24.0	26.1	42.8	53.0	27.6	21.1	13.3	13.0	12.2	19.5	14.7	24.7	17.6	22.5	32.8	40.1	27.8	20.4	20.4	9.8	53.0	9.8	25.8
7	8.3	10.6	24.7	24.3	42.5	25.3	14.6	27.2	14.2	12.1	11.4	10.5	13.1	13.3	14.7	24.6	30.7	59.9	62.7	61.4	61.4	64.4	73.1	32.0	73.1	8.3	30.7
8	29.1	23.1	27.4	26.4	29.9	55.8	40.6	28.5	60.0	61.6	63.0	46.6	51.2	48.6	53.6	43.6	34.4	47.2	46.6	48.1	65.5	59.4	83.2	71.8	83.2	23.1	47.7
9	55.1	78.8	70.6	71.4	69.9	66.7	69.5	46.7	78.7	56.8	51.6	62.0	70.5	49.8	63.4	71.2	46.7	28.0	26.4	22.8	18.9	14.0	17.1	24.4	78.8	14.0	51.3
10	14.2	23.3	32.2	26.5																					32.2	14.2	24.1
11																											
12														9.1	8.4	6.9	5.9	5.8	6.9	6.4	7.3	8.3	37.5	42.8	42.8	5.8	13.2
13	9.6	21.9	34.2	49.1	47.9	7.6	36.2	37.5	39.7	9.9	15.3	12.7	8.4	7.4	8.3	6.1	6.8	11.9	15.4	8.4	9.2	35.5	13.5	29.1	49.1	6.1	20.1
14	42.1	9.2	12.8	8.2	5.9	7.0	7.9	8.9	12.0																42.1	5.9	12.7
15														11.7	26.7	40.3	11.1	13.6	37.2	33.4	7.8	7.8	8.0	9.2	40.3	7.8	18.8
16	7.8	8.5	8.2	8.1	6.9	8.3	8.2	8.2	9.1	8.7	7.8	7.2	7.0	10.2	11.8	11.8	9.4	9.8	12.1	10.3	9.7	9.3	10.9	9.5	12.1	6.9	9.1
17	8.6	9.2	5.7	4.7	6.5	7.2	7.6	7.8	8.1	7.4	7.7	9.3	8.3	9.4	8.5	8.6	9.8	11.2	10.9	10.1	8.4	9.5	8.6	8.9	11.2	4.7	8.4
18	8.4	8.4	9.7	9.3	8.4	8.9	8.2	10.2	9.5	8.7	8.6	8.2	8.0	8.5	8.6	9.2	9.4	9.8	41.5	46.1	39.6	17.9	39.5	21.2	46.1	8.0	15.2
19	15.3	20.5	11.3	12.8	10.4	8.7	7.8	7.9	49.2	10.4	8.7	36.3	6.7	5.4	11.1	7.4	16.5	25.3	25.6	24.0	56.2	8.8	6.2	6.5	56.2	5.4	16.6
20	7.5	4.8	6.8	6.3	6.5	5.8	6.2	8.9	52.8	32.5	21.0	28.7	65.2	10.1	5.4	7.4	33.1	19.0	17.4	19.4	23.7	16.4	12.4	14.8	65.2	4.8	18.0
21	23.4	30.7	30.1	18.5	22.6	26.3	46.9	29.9	48.5	60.7	29.1	18.7	51.2	27.0	65.7	47.5	36.5	25.8	68.1	33.9	25.1	46.3	54.2	26.0	68.1	18.5	37.2
22	25.7	18.7	16.4	16.7	18.8	15.5	10.9	12.8	26.1	29.3	9.1	9.4	8.5	7.3	8.6	7.8	16.6	54.5	37.4	69.4	38.2	17.7	21.4	17.4	69.4	7.3	21.4
23	17.8	22.2	16.6	44.5	69.4	57.0	10.9	19.1	11.3	10.3	15.9	27.3	53.7	22.2	58.8	37.0	48.2	28.7	15.0	32.2	25.7	27.6	32.9	32.6	69.4	10.3	30.7
24	16.3	12.4	11.0	9.2	8.0	9.4	8.3	20.0	16.0	10.6	14.4	12.2	27.5	47.3	26.3	7.1	22.6	70.3	56.2	17.4	12.9	16.1	14.6	15.7	70.3	7.1	20.1
25	15.7	14.8	15.7	61.6	15.9	30.0	25.8	13.6	10.0	11.0	9.6	10.7	38.0	26.4	19.7	32.0	49.2	56.6	33.8	19.2	32.4	26.5	18.5	17.1	61.6	9.6	25.2
26	44.3	25.3	14.0	15.7	15.8	17.0	19.3	29.5	11.7	11.8	34.7	18.3	9.2	7.2	7.3	5.4	12.4	11.1	62.1	40.8	24.8	34.7	20.1	23.0	62.1	5.4	21.5
27	22.8	11.0	39.2	21.7	11.3	33.8	54.3	13.1	7.6	25.4	34.0	5.9	4.9	5.1	3.1	4.6	8.3	10.3	9.5	14.9	24.9	19.9	8.9	56.1	56.1	3.1	18.8
28	10.7	26.1	46.7	7.6	7.4	5.2	4.3	4.2	50.5	49.4	52.3	13.9	4.7	6.0	5.7	5.1	6.5	8.6	6.8	10.8	49.7	22.7	15.3	77.4	77.4	4.2	20.7
29	39.1	29.8	29.4	14.4	15.2	18.0	14.0	15.3	12.0	6.6	4.9	6.4	14.9	16.8	4.4	5.6	15.0	44.6	35.1	61.6	48.7	49.7	12.7	6.2	61.6	4.4	21.7
30	5.2	7.7	9.9	9.0	11.0	11.5	12.2	15.4	9.7	21.1	26.3	24.4	16.2	23.4	17.1	13.1	14.5	17.7	18.8	26.1	42.5	25.4	26.6	21.2	42.5	5.2	17.8
31	20.9	25.2	24.9	29.1	22.0	17.5	17.3	29.6	16.4	13.0	8.6	8.8	9.0	8.8	8.4	8.8	10.6	9.5	9.3	67.1	59.9	17.1	14.9	27.8	67.1	8.4	20.2
Max.	**55.1**	**78.8**	**70.6**	**71.4**	**69.9**	**66.7**	**69.5**	**53.0**	**78.7**	**72.3**	**63.0**	**62.0**	**70.5**	**49.8**	**65.7**	**71.2**	**52.0**	**70.3**	**68.1**	**69.4**	**65.5**	**64.4**	**83.2**	**77.4**	**83.2**		
Min.	**5.2**	**4.8**	**5.7**	**4.7**	**5.9**	**5.2**	**4.3**	**4.2**	**6.5**	**6.6**	**4.9**	**5.9**	**4.2**	**5.1**	**3.1**	**4.6**	**5.3**	**5.8**	**5.6**	**6.2**	**6.3**	**6.6**	**5.9**	**6.2**		**3.1**	
Avg.	**19.0**	**18.7**	**21.3**	**21.2**	**19.5**	**19.0**	**19.4**	**19.2**	**25.3**	**22.7**	**20.7**	**17.4**	**22.0**	**17.6**	**19.0**	**19.4**	**20.1**	**24.6**	**26.9**	**28.0**	**28.5**	**23.3**	**22.8**	**23.9**			**21.7**

Total Hours in Month 744 **Hours Data Available** 659 **Data Recovery** 88.6%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	20.6	11.3	18.5	33.1	41.3	42.0	32.4	17.3	19.2	22.5	22.1	64.6	71.5	54.5	41.7	61.3	64.2	46.0	47.7	38.2	48.9	43.1	58.3	52.4	71.5	11.3	40.5
2	49.8	25.5	23.1	27.9	20.9	31.4	47.2	57.7	44.3	38.3	37.6	21.3	27.1	20.7	24.3	7.9	9.5	7.2	8.6	7.8	8.9	6.7	7.3	8.4	57.7	6.7	23.7
3	6.4	7.0	7.9	8.1	7.9	7.9	7.8	8.2	8.3	9.6	8.0	8.3	7.9	8.1	9.7	10.6	8.3	7.8	7.8	8.2	7.6	11.3	8.7	9.8	11.3	6.4	8.4
4	11.2	12.0	7.8	6.0	4.7	5.6	6.7	5.5	5.9	6.2	7.6	39.5	15.4	44.3	45.3	29.6	48.3	19.1	23.4	56.3	72.6	73.5	71.3	59.0	73.5	4.7	28.2
5	64.5	41.9	41.2	50.0	48.0	54.0	37.8	61.3	17.5	28.7	33.5	24.3	23.6	44.7	59.4	34.3	47.2	38.6	46.8	54.0	44.9	32.6	27.3	18.3	64.5	17.5	40.6
6	15.0	12.9	12.4	25.5	35.0	41.1	17.2	18.7	14.6	10.1	16.9	8.4	8.6	7.7	5.9	7.8	8.0	10.5	10.2	21.8	51.8	49.1	49.7	50.1	51.8	5.9	21.2
7	50.0	37.4	42.4	44.9	67.3	10.4	7.8	6.8	4.9	12.0	33.6	30.6	26.1	64.8	27.1	46.1	49.2	55.1	51.3	48.9	46.1	33.3	22.9	30.8	67.3	4.9	35.4
8	39.8	40.7	36.6	38.4	47.8	53.2	34.1	10.4	16.6	21.5	20.1	15.4	15.4	29.9	30.5	32.9	24.9	18.9	8.7	7.5	3.9	9.8	20.4	42.6	53.2	3.9	25.8
9	39.6	66.9	53.3	8.4	15.2	23.1	16.9	20.6	8.2	4.7	3.4	41.5	18.4	4.9	5.5	5.9	12.7	15.8	59.2	52.5	63.1	55.9	89.1	50.9	89.1	3.4	30.6
10	44.7	36.3	47.4	46.8	30.5	51.5	16.0	12.9	16.8	18.6	19.9	23.1	32.4	21.2	13.9	16.8	18.1	30.5	57.0	73.7	40.3	24.4	24.0	33.1	73.7	12.9	31.2
11	34.6	26.4	44.5	42.3	72.0	61.2	27.8	18.0	22.2	12.1	12.1	8.5	9.3	12.4	11.9	8.6	7.9	8.0	7.8	8.4	9.6	8.9	9.4	9.5	72.0	7.8	20.6
12	9.5	9.9	8.0	7.7	8.0	8.4	8.8	8.0	8.2	8.9	9.1	9.4	8.2	6.8	5.9	9.5	10.7	19.6	41.1	39.3	34.2	56.4	62.9	86.1	86.1	5.9	20.2
13	53.5	19.1	19.7	17.9	21.6	18.0	17.9	28.9	59.7	51.1	26.7	54.2	41.7	21.7	24.3	32.6	36.9	28.5	45.6	64.6	34.2	26.2	14.2	13.3	64.6	13.3	32.2
14	13.0	12.6	12.7	13.5	12.5	12.3	12.9	13.5	13.4	12.9	13.5	14.0	16.6	19.6	21.5	29.2	31.0	56.6	53.7	55.6	51.8	28.3	25.7	27.1	56.6	12.3	23.9
15	21.2	27.5	31.4	23.8	26.5	46.5	58.1	47.7	67.0	33.8	52.0	48.6	22.0	22.0	27.3	20.4	16.6	15.3	15.4	12.5	16.2	41.7	23.0	11.4	67.0	11.4	30.3
16	13.2	6.4	7.8	9.7	12.8	10.7	9.0	10.2	9.8	8.5	10.2	10.3	10.5	10.4	10.9	9.9	9.0	9.1	8.9	9.0	10.2	10.1	9.6	10.1	13.2	6.4	9.8
17	9.2	8.7	9.5	9.1	9.9	9.3	10.6	9.3	14.7	9.3	14.5	13.1	17.7	16.1	12.4	10.6	8.6	11.5	10.9	9.5	11.6	10.6	8.0	36.7	36.7	8.0	12.1
18	52.6	8.4	32.4	14.9	53.1	61.4	48.2	9.3	5.0	5.4	15.3	4.6	3.6	6.2	5.2	6.5	8.8	27.0	72.7	48.5	15.0	31.8	36.9	65.4	72.7	3.6	26.6
19	44.1	11.9	11.8	12.1	12.7	12.2	13.2	22.5	33.2	26.3	20.6	35.0	9.8	7.9	23.5	24.4	14.2	49.6	50.9	56.5	53.6	26.3	42.3	22.2	56.5	7.9	26.5
20	39.1	20.5	13.5	13.4	8.6	8.0	7.2	10.8	12.4	8.1	15.5	48.2	38.3	35.1	31.4	13.2	27.6	38.2	15.5	27.3	36.8	17.7	12.3	11.3	48.2	7.2	21.2
21	10.0	8.1	7.9	8.5	8.1	8.7	9.4	9.1	9.1	9.4	10.4	9.4	10.6	10.8	13.3	45.2	45.1	12.7	51.3	9.8	20.4	23.4	37.8	28.1	51.3	7.9	17.4
22	15.9	14.7	11.2	8.8	9.9	9.0	6.8	9.5	7.6	16.3	49.0	28.1	31.0	25.8	6.6	7.6	6.4	5.9	9.8	12.3	14.5	21.0	13.9	15.3	49.0	5.9	14.9
23	10.4	8.9	11.4	8.4	10.4	9.5	7.9	7.3	11.3	9.7	11.0	7.8	4.7	11.3	22.3	5.8	6.7	35.2	50.6	19.5	12.1	15.6	13.9	14.1	50.6	4.7	13.6
24	24.9	21.8	48.9	38.3	53.9	14.9	59.0	44.1	67.2	63.4	61.1	47.9	39.1	28.4	27.8	30.1	40.2	50.6	23.7	23.8	57.3	55.0	20.8	13.9	67.2	13.9	39.8
25	13.9	36.8	36.2	44.4	28.9	12.0	7.5	6.7	5.1	4.8	12.7	12.3	8.3	8.8	9.4	11.7	11.1	11.0	13.6	11.1	12.7	15.5	11.8	14.3	44.4	4.8	15.0
26	10.6	10.6	9.4	9.1	8.5	9.2	9.6	9.7	9.7	8.8	9.2	9.4	9.9	9.9	11.1	10.9	10.4	10.0	9.3	9.0	9.3	10.5	10.6	9.6	11.1	8.5	9.8
27	9.3	9.0	8.6	10.5	9.4	9.5	10.5	9.0	10.1	11.2	11.5	9.8	12.3	14.6	59.9	24.2	21.1	40.0	37.2	64.5	37.0	27.4	34.6	42.5	64.5	8.6	22.2
28	21.2	31.5	22.3	13.2	13.1	16.3	19.8	27.3	32.3	22.8	10.9	32.5	12.6	15.3	31.8	4.9	5.6	3.0	28.9	48.9	26.2	32.4	16.1	12.1	48.9	3.0	20.9
29	17.3	25.0	14.9	13.7	13.5	13.4	17.2	10.9	12.9	16.1	17.2	25.1	27.4	6.5	32.0	14.4	13.6	16.4	31.9	32.9	17.0	21.8	25.4	24.6	32.9	6.5	19.2
30	8.5	9.8	11.4	16.6	23.0	21.0	13.5	20.0	5.2	3.8	4.4	55.5	35.1	50.4	10.2	11.6	20.0	38.8	49.1	46.9	64.1	62.7	67.3	56.4	67.3	3.8	29.4
Max.	**64.5**	**66.9**	**53.3**	**50.0**	**72.0**	**61.4**	**59.0**	**61.3**	**67.2**	**63.4**	**61.1**	**64.6**	**71.5**	**64.8**	**59.9**	**61.3**	**64.2**	**56.6**	**72.7**	**73.7**	**72.6**	**73.5**	**89.1**	**86.1**	**89.1**		
Min.	**6.4**	**6.4**	**7.8**	**6.0**	**4.7**	**5.6**	**6.7**	**5.5**	**4.9**	**3.8**	**3.4**	**4.6**	**3.6**	**4.9**	**5.2**	**4.9**	**5.6**	**3.0**	**7.8**	**7.5**	**3.9**	**6.7**	**7.3**	**8.4**		**3.0**	
Avg.	**25.8**	**20.6**	**22.1**	**20.8**	**24.5**	**23.1**	**20.0**	**18.4**	**19.1**	**17.2**	**19.6**	**25.4**	**20.5**	**21.4**	**22.1**	**19.5**	**21.4**	**24.6**	**31.6**	**32.6**	**31.1**	**29.4**	**29.2**	**29.3**			**23.7**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	27.8	17.8	12.3	11.4	12.7	15.1	12.3	8.7	11.1	10.9	10.7	10.7	10.5	9.8	9.9	11.3	10.3	11.2	11.7	11.7	11.2	10.1	10.2	10.3	27.8	8.7	12.1
2	10.1	10.0	9.7	9.4	9.7	8.9	9.8	8.9	9.7	9.4	9.2	9.4	9.9	10.9	9.9	9.9	11.0	11.2	8.1	9.0	7.5	31.9	37.9	18.6	37.9	7.5	12.1
3	10.7	11.6	11.0	10.6	10.0	9.3	9.1	9.9	10.2	9.1	9.4	9.8	9.3	9.1	10.3	13.0	13.4	15.7	11.9	10.3	10.9	11.6	10.5	10.1	15.7	9.1	10.7
4	9.4	9.5	11.4	9.9	14.8	33.1	63.2	38.4	49.9	46.7	26.9	46.9	58.0	66.5	37.5	45.3	67.0	30.6	41.5	43.6	73.0	33.8	15.4	16.6	73.0	9.4	37.0
5	11.3	12.7	19.9	13.5	11.5	10.2	9.4	9.6	8.4	9.6	9.6	9.3	9.8	10.1	56.7	42.4	55.0	75.8	42.7	38.5	28.0	42.3	42.5	10.3	75.8	8.4	24.5
6	13.0	45.4	39.0	21.6	17.5	17.7	17.9	10.6	7.3	26.9	16.7	18.7	17.4	18.8	34.3	14.7	15.0	14.4	20.0	28.6	29.3	31.4	32.7	28.0	45.4	7.3	22.4
7	20.5	25.5	30.5	28.0	33.2	39.4	34.1	28.2	28.2	26.1	23.6	29.2	48.9	68.8	56.3	48.7	31.8	42.7	46.1	42.6	49.3	56.7	19.4	16.6	68.8	16.6	36.4
8	14.8	27.4	36.3	17.0	11.7	9.1	8.0	5.9	8.7	11.6	9.0	9.8	9.5	9.6	10.6	10.4	10.5	10.0	9.3	9.5	9.4	9.8	9.8	10.1	36.3	5.9	12.0
9	10.1	9.8	10.0	9.8	10.0	10.2	9.8	11.0	9.8	10.3	10.3	10.2	9.8	9.7	9.3	10.1	10.1	9.3	9.4	10.4	10.4	10.3	10.3	10.6	11.0	9.3	10.0
10	10.5	10.0	10.8	10.2	9.5	8.9	10.0	12.9	13.6	23.1	22.9	16.1	33.7	37.5	35.2	41.6	49.5	60.4	37.4	60.2	15.7	36.3	9.9	21.7	60.4	8.9	24.9
11	22.6	5.9	8.8	23.1	49.8	12.4	11.5	6.4	5.3	5.5	6.4	24.3	23.5	34.4	39.3	18.6	9.7	26.0	43.4	11.4	32.4	13.8	14.7	20.6	49.8	5.3	19.6
12	12.7	13.4	13.7	9.8	16.3	13.7	39.3	12.9	10.5	16.8	17.7	39.3	39.1	26.7	14.1	24.5	59.1	65.8	65.0	59.5	66.0	12.7	18.0	8.8	66.0	8.8	28.1
13	9.1	7.1	14.2	11.7	11.4	11.7	12.8	13.0	12.3	14.7	6.8	9.9	27.3	42.4	38.7	26.9	38.1	38.2	65.7	56.1	19.0	12.2	29.9	57.5	65.7	6.8	24.4
14	53.3	22.6	24.5	17.3	33.1	12.4	9.1	5.0	36.6	29.7	11.7	16.0	20.9	23.5	19.2	18.0	17.4	24.6	16.9	19.9	16.2	39.0	54.8	12.2	54.8	5.0	23.1
15	21.2	36.1	8.9	22.1	36.7	16.5	43.0	13.2	11.5	20.6	17.9	12.1	6.3	8.7	6.0	5.3	5.6	6.0	10.6	13.9	29.8	25.5	19.2	62.5	62.5	5.3	19.1
16	65.4	38.7	13.7	13.1	17.4	14.4	20.3	28.5	14.1	5.0	10.4	13.4	11.3	15.7	9.4	7.2	6.0	7.7	5.8	20.5	9.1	7.9	9.8	20.2	65.4	5.0	16.0
17	37.2	9.9	5.6	6.2	5.5	6.7	7.8	7.4	9.2	9.0	10.0	13.2	11.3	15.7	13.2	11.3	13.8	22.5	25.4	30.1	33.2	40.8	55.7	17.0	55.7	5.5	17.4
18	8.0	9.4	10.9	6.2	6.9	18.4	3.4	14.2	41.2	27.6	23.8	35.6	34.6	28.0	44.1	63.0	57.5	36.4	38.0	40.3	36.5	62.5	65.2	29.7	65.2	3.4	30.9
19	22.9	26.1	17.1	15.0	18.1	28.3	12.5	7.5	4.6	34.9	15.3	26.4	18.1	31.2	27.8	53.0	57.6	37.6	14.2	13.9	41.3	38.1	24.4	13.8	57.6	4.6	25.0
20	9.5	9.7	8.8	11.4	10.6	8.4	8.7	9.4	10.2	9.4	9.8	10.9	9.5	8.8	8.3	10.5	10.6	11.2	8.4	14.7	28.7	29.4	19.4	56.2	56.2	8.3	13.9
21	37.1	31.1	62.1	48.3	64.9	39.6	16.2	14.3	31.1	16.0	15.0	15.8	20.3	51.2	46.7	29.2	56.1	59.7	40.5	25.7	21.1	13.6	12.4	14.6	64.9	12.4	32.6
22	18.0	18.8	14.7	17.3	18.0	15.6	13.3	10.8	12.1	10.9	49.8	20.0	36.7	38.1	17.5	15.8	15.1	13.7	13.1	24.3	58.7	12.2	27.0	18.4	58.7	10.8	21.2
23	7.0	23.3	51.2	62.4	51.3	54.9	32.9	34.8	40.3	17.4	20.6	26.9	10.1	6.5	7.4	10.8	19.5	14.3	21.7	58.2	64.9	19.7	9.3	10.1	64.9	6.5	28.1
24	7.5	7.5	10.1	57.1	54.2	12.3	32.9	9.8	23.6	8.3	8.4	13.4	2.2	64.6	20.0	16.3	13.8	18.2	51.8	45.2	55.8	23.8	10.5	10.6	64.6	2.2	24.1
25	14.0	9.3	60.1	51.3	37.1	12.4	49.8	56.3	52.8	33.1	9.2	13.3	7.6	18.5	23.2	12.9	29.3	39.3	49.7	74.0	23.8	12.2	10.8	9.4	74.0	7.6	29.6
26	8.9	10.1	11.1	8.4	10.2	13.0	10.2	8.2	8.0	41.0	24.5	10.1	7.5	18.7	46.7	13.0	16.5	25.7	30.0	57.4	40.6	13.7	9.9	24.0	57.4	7.5	19.5
27	11.6	9.2	71.1	56.1	11.5	14.3	16.0	13.7	18.6	15.1	30.3	12.9	59.4	57.9	9.8	20.1	16.3	31.1	20.3	31.6	53.0	14.7	7.7	17.9	71.1	7.7	25.8
28	8.8	13.0	38.2	16.1	13.7	10.9	41.7	47.6	22.9	5.3	5.5	4.7	4.6	4.6	3.4	4.2	3.9	8.0	12.4	15.1	33.3	19.5	18.1	15.9	47.6	3.4	15.5
29	44.6	45.2	46.9	37.3	57.6	31.9	12.4	49.9	28.7	15.5	48.9	18.2	28.6	30.3	28.1	44.7	68.1	49.2	53.1	40.6	66.6	32.8	46.8	43.8	68.1	12.4	40.4
30	39.2	23.7	41.9	20.4	35.2	8.5	9.5	10.2	17.1	11.8	39.5	40.2	46.4	42.3	37.0	50.8	22.3	67.7	39.9	38.1	62.1	66.1	46.9	33.7	67.7	8.5	35.4
31	62.4	8.3	10.4	11.2	11.4	14.5	15.7	36.8	18.7	14.1	10.3	8.2	5.7	6.4	9.0	8.8	8.0	8.0	17.3	19.1	11.1	18.7	24.5	45.6	62.4	5.7	16.8
Max.	**65.4**	**45.4**	**71.1**	**62.4**	**64.9**	**54.9**	**63.2**	**56.3**	**52.8**	**46.7**	**49.8**	**46.9**	**59.4**	**68.8**	**56.7**	**63.0**	**68.1**	**75.8**	**65.7**	**74.0**	**73.0**	**66.1**	**65.2**	**62.5**	**75.8**		
Min.	**7.0**	**5.9**	**5.6**	**6.2**	**5.5**	**6.7**	**3.4**	**5.0**	**4.6**	**5.0**	**5.5**	**4.7**	**2.2**	**4.6**	**3.4**	**4.2**	**3.9**	**6.0**	**5.8**	**9.0**	**7.5**	**7.9**	**7.7**	**8.8**		**2.2**	
Avg.	**21.3**	**18.0**	**23.7**	**21.4**	**22.9**	**17.2**	**19.4**	**17.9**	**18.9**	**17.6**	**17.4**	**17.9**	**20.9**	**26.6**	**23.8**	**23.0**	**26.4**	**28.8**	**28.4**	**31.4**	**33.8**	**25.9**	**23.7**	**22.4**			**22.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	64.6	60.1	63.6	25.7	32.6	21.3	14.7	10.9	18.6	13.3	10.3	8.3	12.1	7.2	5.9	7.6	6.2	14.5	27.4	18.5	36.5	28.3	22.0	8.2	64.6	5.9	22.4
2	14.1	15.5	9.4	6.3	8.9	19.6	11.9	9.8	7.1	5.1	5.1	4.6	9.0	70.1	39.5	34.5	32.9	38.6	49.5	77.0	68.3	21.9	46.0	39.1	77.0	4.6	26.8
3	48.5	65.9	64.6	35.0	43.3	59.2	25.3	21.8	39.0	48.9	68.4	30.9	38.9	52.3	49.9	33.8	30.9	63.8	36.7	57.6	37.0	34.2	73.6	30.7	73.6	21.8	45.4
4	23.8	14.2	22.3	27.9	14.3	14.1	10.5	6.8	16.1	20.1	29.2	10.5	12.9	6.4	6.1	8.7	10.1	11.7	10.0	11.7	13.5	11.6	39.3	8.1	39.3	6.1	15.0
5	6.7	7.2	17.7	57.1	71.9	52.2	4.3	5.3	23.8	30.9	10.8	5.5	5.1	5.4	5.0	4.9	6.2	7.2	10.4	7.7	6.4	15.0	21.2	17.1	71.9	4.3	16.9
6	6.6	7.8	8.9	58.5	7.3	22.6	6.9	19.4	19.3	20.3	18.5	12.2	10.3	12.6	12.3	17.8	23.0	47.4	50.3	48.2	47.1	32.6	61.0	19.7	61.0	6.6	24.6
7	18.9	9.1	20.0	37.3	47.8	58.6	46.6	78.7	60.4	36.4	75.7	51.9	84.2	75.1	71.0	55.6	56.1	48.7	41.7	65.5	51.0	23.4	42.0	38.4	84.2	9.1	49.8
8	42.1	28.9	31.2	17.2	18.2	10.9	15.2	10.5	10.2	9.1	8.6	10.2	10.2	10.3	11.7	10.9	12.8	11.6	11.7	9.2	11.8	10.2	9.0	9.1	42.1	8.6	14.2
9	10.4	10.3	10.2	10.7	9.8	10.8	9.9	10.2	9.7	9.4	10.1	10.4	10.8	10.4	9.9	11.2	11.3	50.7	46.2	46.2	32.0	60.5	28.6	45.6	60.5	9.4	20.2
10	51.8	56.8	74.8	39.9	52.3	57.3	78.9	66.3	73.2	64.5	61.3	71.3	73.5	69.3	53.8	66.1	49.4	65.6	60.2	61.4	53.0	28.8	37.9	63.5	78.9	28.8	59.6
11	68.9	42.8	56.0	26.6	22.8	14.7	33.8	14.1	14.8	17.5	14.6	9.6	9.2	9.8	9.8	10.4	9.3	9.6	10.3	10.2	11.8	9.8	10.0	9.3	68.9	9.2	19.0
12	9.5	9.4	11.0	9.3	9.7	10.1	9.3	10.0	9.1	12.3	34.2	25.5	36.4	46.0	27.7	67.4	28.9	23.7	22.7	11.8	19.3	15.0	37.9	58.5	67.4	9.1	23.1
13	29.1	31.0	22.0	42.2	27.1	70.1	23.3	26.4	32.2	48.0	15.4	7.7	4.8	5.2	6.0	7.1	3.5	5.3	7.1	10.4	9.1	8.4	27.1	55.8	70.1	3.5	21.8
14	39.4	18.8	58.4	34.6	29.1	53.8	49.5	16.0	82.8	8.8	13.0	11.6	7.3	11.3	38.2	42.1	26.3	6.3	7.4	40.5	27.5	21.7	9.9	8.1	82.8	6.3	27.6
15	9.3	9.6	10.4	10.1	14.9	38.7	27.7	19.3	18.4	16.2	11.4	7.8	8.1	15.1	8.7	10.9	34.3	41.3	28.6	16.5	45.7	54.5	26.6	52.1	54.5	7.8	22.3
16	36.9	24.2	24.2	52.0	15.5	13.0	26.5	8.0	12.9	8.4	8.4	41.3	30.3	13.8	48.4	51.3	34.0	27.4	32.5	52.1	28.4	7.6	5.4	9.7	52.1	5.4	25.5
17	6.4	39.2	18.5	71.1	23.5	10.0	5.7	8.0	4.2	4.7	8.4	24.3	28.5	13.8	11.4	11.8	8.7	6.4	8.4	10.8	31.2	37.3	14.2	14.0	71.1	4.2	17.5
18	13.0	56.6	9.8	9.1	9.7	10.4	11.2	10.8	10.2	11.1	9.2	10.2	10.0	10.0	9.8	10.0	9.9	9.5	9.4	8.6	10.3	14.8	10.0	8.8	56.6	8.6	12.2
19	10.2	8.8	10.2	8.7	9.6	9.3	9.4	9.6	11.6	12.3	13.1	11.9	8.6	10.1	11.0	22.3	43.6	23.6	19.1	11.5	10.3	26.6	11.0	6.3	43.6	6.3	13.7
20	13.2	10.7	48.5	13.7	50.0	52.9	7.4	27.6	3.8	4.5	6.3	13.7	19.8	44.0	40.7	19.1	60.1	54.7	20.8	29.9	9.2	9.8	17.8	18.3	60.1	3.8	24.9
21	14.3	8.3	16.7	10.1	11.8	13.3	10.2	8.5	8.3	20.7	12.6	6.9	7.8	3.8	4.9	7.3	4.4	6.3	6.9	12.4	13.9	44.7	64.4	56.5	64.4	3.8	15.6
22	71.8	17.3	15.4	39.6	17.0	11.9	39.1	54.7	56.2	21.1	19.9	29.1	8.9	24.9	40.9	40.1	53.5	17.1	19.6	21.7	21.9	15.7	41.6	6.9	71.8	6.9	29.4
23	9.1	10.1	16.1	18.2	45.8	60.4	6.9	32.3	7.0	4.2	19.0	10.8	12.7	9.3	7.1	4.1	3.5	7.4	4.0	6.0	13.9	7.9	23.1	24.9	60.4	3.5	15.2
24	26.9	26.4	24.0	9.6	14.8	7.9	8.7	6.5	18.9	25.1	5.7	3.8	9.0	12.2	8.4	16.4	13.2	8.6	8.8	8.8	23.5	35.7	20.6	18.4	35.7	3.8	15.1
25	12.5	14.4	32.5	78.0	46.7	27.2	18.2	46.2	10.8	11.7	17.0	14.1	6.9	6.2	15.1	7.2	12.5	6.7	11.6	22.0	19.1	23.4	25.3	31.9	78.0	6.2	21.5
26	27.4	18.7	28.5	46.7	50.2	47.2	8.9	11.3	35.5	26.9	46.0	19.5	16.0	23.1	35.1	59.7	18.3	9.7	35.8	52.1	27.2	46.8	13.4	16.6	59.7	8.9	30.0
27	29.0	30.4	62.2	42.7	57.2	11.6	6.5	26.3	9.7	10.6	5.8	5.6	6.4	5.4	6.3	5.5	6.1	5.0	16.6	70.9	63.2	21.9	41.1	25.2	70.9	5.0	23.8
28	23.7	37.1	58.6	41.8	31.4	17.7	15.7	14.8	14.8	14.4	15.5	41.2	42.3	48.2	40.8	47.3	43.9	32.5	51.1	45.5	43.6	46.7	41.3	55.7	58.6	14.4	36.1
29	43.3	48.2	51.3	41.3	45.5	40.0	32.6	56.2	25.4	39.0	36.3	13.3	19.4	11.7	41.8	33.3	39.5	43.1	34.6	58.3	73.7	75.5	76.2	75.7	76.2	11.7	44.0
30	62.0	17.9	52.9	39.0	19.3	9.1	9.1	9.1	8.5	9.0	45.9	11.9	8.4	8.7	7.4	7.5	9.6	13.0	14.5	45.8	46.9	23.7	14.3	18.9	62.0	7.4	21.3
Max.	**71.8**	**65.9**	**74.8**	**78.0**	**71.9**	**70.1**	**78.9**	**78.7**	**82.8**	**64.5**	**75.7**	**71.3**	**84.2**	**75.1**	**71.0**	**67.4**	**60.1**	**65.6**	**60.2**	**77.0**	**73.7**	**75.5**	**76.2**	**75.7**	**84.2**		
Min.	**6.4**	**7.2**	**8.9**	**6.3**	**7.3**	**7.9**	**4.3**	**5.3**	**3.8**	**4.2**	**5.1**	**3.8**	**4.8**	**3.8**	**4.9**	**4.1**	**3.5**	**5.0**	**4.0**	**6.0**	**6.4**	**7.6**	**5.4**	**6.3**		**3.5**	
Avg.	**28.1**	**25.2**	**31.7**	**32.0**	**28.6**	**28.5**	**19.5**	**21.8**	**22.4**	**19.5**	**21.8**	**17.8**	**18.9**	**21.7**	**22.8**	**24.4**	**23.4**	**23.9**	**23.8**	**31.6**	**30.2**	**27.1**	**30.4**	**28.4**			**25.2**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (Climatronics)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	22.2	16.5	24.8	19.6	14.2	18.2	19.5	21.8	24.4	19.3	10.9	10.0	12.4	11.8	10.9	8.6	6.9	10.6	24.6	55.9	52.6	38.6	70.7	32.0	70.7	6.9	23.2
2	20.5	10.7	24.6	40.4	23.2	22.2	19.2	12.7	11.2	11.4	27.3	47.6	17.2	27.6	14.0	38.6	31.9	32.5	54.9	78.7	74.6	31.1	41.9	17.8	78.7	10.7	30.5
3	18.4	33.5	26.5	27.0	14.9	33.9	12.8	22.4	10.1	15.8	11.0	16.7	9.4	6.7	6.9	6.1	12.0	40.6	27.1	17.0	19.7	18.1	22.8	50.6	50.6	6.1	20.0
4	38.1	20.0	31.2	43.2	41.4	15.3	14.0	14.1	11.2	9.9	8.4	7.5	6.8	7.1	5.4	5.3	6.7	14.3	9.8	10.8	20.7	19.9	11.4	31.6	43.2	5.3	16.8
5	25.9	49.4	19.7	12.3	22.3	20.8	28.7	20.2	33.1	11.3	10.3	13.7	11.1	10.3	9.3	9.8	10.4	8.8	9.3	11.1	19.7	16.1	16.8	11.0	49.4	8.8	17.1
6	20.3	48.0	33.7	26.0	12.3	21.9	15.8	13.2	9.7	10.1	6.8	7.3	8.3	8.9	7.2	7.7	10.4	8.6	10.9	29.7	23.9	49.1	54.3	36.1	54.3	6.8	20.0
7	61.6	31.2	71.2	65.9	52.6	53.7	40.8	43.5	42.1	18.6	27.3	12.7	28.8	30.3	14.5	32.4	49.8	38.6	20.9	33.7	42.9	65.3	12.0	7.5	71.2	7.5	37.4
8	7.6	9.3	47.9	27.2	45.7	18.1	41.0	39.6	65.4	21.5	25.1	22.9	15.9	14.3	15.4	40.9	16.8	28.5	37.9	15.3	16.8	28.3	39.8	16.7	65.4	7.6	27.4
9	15.6	17.5	18.0	11.4	12.8	11.1	12.6	10.9	25.9	23.3	12.7	8.6	6.2	7.2	6.0	17.2	56.5	33.5	24.1	30.8	26.9	46.1	46.5	25.0	56.5	6.0	21.1
10	34.2	40.8	37.9	19.0	30.9	38.7	51.3	41.9	24.4	40.3	24.1	22.1	28.1	35.8	28.7	43.9	42.9	65.3	18.2	53.4	29.5	21.6	44.1	45.9	65.3	18.2	36.0
11	51.0	36.1	30.2	25.0	37.9	37.3	23.7	21.0	10.9	31.4	11.2	10.1	32.6	33.0	5.2	12.6	9.3	27.5	30.8	23.9	9.0	13.6	44.5	43.2	51.0	5.2	25.5
12	64.9	16.7	15.6	14.9	8.0	9.5	10.0	8.0	15.8	8.5	26.6	15.0	10.1	7.8	6.9	25.7	49.9	57.0	12.9	36.7	58.9	58.2	42.6	15.6	64.9	6.9	24.8
13	60.4	36.7	50.8	72.4	75.2	29.1	62.9	84.4	51.5	46.3	28.4	14.4	14.1	14.6	18.6	22.9	26.2	28.0	21.3	20.1	17.3	26.8	30.8	40.1	84.4	14.1	37.2
14	32.1	32.3	34.1	36.7	30.1	51.5	72.0	69.3	55.5	36.7	26.8	21.3	18.9	19.6	21.6	39.1	65.0	62.4	45.7	66.6	27.7	33.1	32.4	30.6	72.0	18.9	40.0
15	31.3	34.6	13.7	16.0	24.4	16.9	16.3	20.6	38.1	32.7	55.6	81.3	65.9	37.7	7.8	16.0	29.7	43.4	24.6	29.9	60.2	80.4	63.9	15.9	81.3	7.8	35.7
16	11.0	41.7	18.7	35.2	58.5	17.3	14.8	21.0	47.5	67.9	76.7	42.1	72.8	45.5	28.7	38.1	59.2	37.5	49.7	57.7	34.3	66.3	51.8	38.9	76.7	11.0	43.0
17	57.0	63.7	21.2	25.6	40.2	26.6	43.6	60.3	69.2	58.3	63.8	55.0	38.4	14.1	8.9	11.0	30.5	28.3	15.4	13.4	13.0	27.8	12.1	16.3	69.2	8.9	33.9
18	20.5	17.4	12.7	14.1	17.9	14.2	9.7	16.0	54.7	18.0	53.9	36.4	55.4	49.5	59.9	21.4	59.5	37.3	31.5	38.2	17.6	42.5	58.2	38.5	59.9	9.7	33.1
19	49.4	60.4	38.7	19.1	13.1	12.2	9.9	8.8	10.2	10.3	9.9	9.2	9.3	10.5	9.7	9.9	10.1	12.4	10.4	10.3	46.0	49.9	25.7	10.3	60.4	8.8	19.4
20	13.1	12.5	13.4	14.2	9.2	10.0	9.8	11.0	10.4	11.0	9.9	9.2	9.4	10.6	10.1	10.5	9.0	9.7	10.0	9.6	53.9	12.6	38.1	46.8	53.9	9.0	15.2
21	6.9	13.1	11.8	58.6	38.4	25.2	12.5	12.8	11.4	9.8	11.0	10.8	10.8	10.7	11.5	35.3	26.2	12.3	25.9	14.9	38.0	16.4	14.8	22.8	58.6	6.9	19.2
22	10.2	16.5	16.3	12.9	27.8	9.2	10.0	9.3	10.2	10.2	9.1	9.5	10.0	31.2	31.7	17.4	35.3	64.5	20.8	11.3	9.1	9.8	8.3	11.3	64.5	8.3	17.2
23	13.4	10.3	15.7	57.1	16.4	22.9	15.2	15.1	10.7	11.6	10.2	9.6	9.8	9.8	9.7	10.1	43.5	42.3	11.2	9.6	9.3	8.8	8.9	10.2	57.1	8.8	16.3
24	11.5	11.8	11.7	9.4	9.8	9.2	10.1	10.0	13.2	13.8	11.4	10.3	11.3	53.7	33.5	34.3	60.6	52.9	33.5	44.1	34.2	51.8	36.7	18.1	60.6	9.2	24.9
25	13.6	9.1	8.7	9.2	35.2	41.6	59.3	48.4	34.3	20.8	37.6	46.8	23.8	7.1	6.9	9.3	13.5	56.7	42.2	16.7	24.1	37.8	21.7	26.6	59.3	6.9	27.1
26	24.2	10.9	13.1	44.6	49.2	49.2	59.9	52.1	73.0	73.2	60.2	33.1	29.9	39.5	35.4	29.8	31.9	29.7	27.9	25.3	19.5	16.1	13.1	13.7	73.2	10.9	35.6
27	13.2	13.6	13.9	14.4	15.6	29.2	18.0	7.3	8.8	11.1	23.8	29.7	17.0	14.2	10.9	6.4	5.4	7.6	11.2	7.9	8.0	40.0	15.4	8.0	40.0	5.4	14.6
28	32.7	14.3	30.7	14.0	62.2	4.9	6.3	6.2	10.0	36.4	10.8	11.7	11.0	6.7	6.0	6.5	5.6	6.0	7.9	45.9	71.9	39.1	53.7	43.0	71.9	4.9	22.6
29	49.7	59.6	26.5	39.2	23.2	23.4	22.3	19.8	17.2	24.7	23.3	44.3	45.1	28.4	34.0	28.3	33.6	28.8	45.0	40.6	48.5	37.3	47.5	38.2	59.6	17.2	34.5
30	46.3	50.6	56.4	38.7	48.5	38.5	43.0	45.9	57.2	41.6	56.8	59.8	74.8	70.4	33.0	41.4	37.3	44.5	44.2	37.9	62.1	58.8	59.3	65.6	74.8	33.0	50.5
31	38.9	21.3	18.6	17.6	14.7	32.3	33.4	17.9	22.9	25.3	55.6	40.9	76.8	62.2	63.3	65.3	32.6	68.8	59.1	49.9	20.2	12.5	12.6	24.8	76.8	12.5	37.0
Max.	**64.9**	**63.7**	**71.2**	**72.4**	**75.2**	**53.7**	**72.0**	**84.4**	**73.0**	**73.2**	**76.7**	**81.3**	**76.8**	**70.4**	**63.3**	**65.3**	**65.0**	**68.8**	**59.1**	**78.7**	**74.6**	**80.4**	**70.7**	**65.6**	**84.4**		
Min.	**6.9**	**9.1**	**8.7**	**9.2**	**8.0**	**4.9**	**6.3**	**6.2**	**8.8**	**8.5**	**6.8**	**7.3**	**6.2**	**6.7**	**5.2**	**5.3**	**5.4**	**6.0**	**7.9**	**7.9**	**8.0**	**8.8**	**8.3**	**7.5**		**4.9**	
Avg.	**29.5**	**27.7**	**26.1**	**28.4**	**29.9**	**24.6**	**26.4**	**26.0**	**28.7**	**25.2**	**27.0**	**24.8**	**25.5**	**23.8**	**18.4**	**22.6**	**29.6**	**33.5**	**26.4**	**30.5**	**32.6**	**34.6**	**33.9**	**27.5**			**27.6**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	5.2	2.8	4.9	4.1	1.8	1.3	1.5	2.7	2.3	1.7	2.6	3.2	3.8	3.7	3.0	4.1	5.5	2.6	3.3	2.9	3.6	5.4	3.4	5.2	5.5	1.3	3.4
2	6.4	5.3	5.2	4.6	4.6	5.8	6.3	7.2	6.3	6.8	8.1	7.6	8.6	9.6	9.2	9.9	11.0	11.1	11.0	12.3	10.8	12.1	9.7	11.3	12.3	4.6	8.4
3	10.1	12.2	10.1	9.7	9.2	10.4	7.7	6.0	2.8	1.9	2.6	4.6	3.2	4.5	4.1	4.1	3.1	2.1	2.3	2.5	2.5	3.0	5.7	4.6	12.2	1.9	5.4
4	3.2	1.9	1.8	2.3	2.6	2.8	2.9	3.7	3.5	2.1	2.1	2.6	2.9	5.2	6.0	3.9	6.8	6.6	4.4	2.3	3.5	7.4	10.1	13.6	13.6	1.8	4.3
5	11.5	11.9	12.3	14.6	11.3	12.3	11.6	11.4	9.8	10.5	8.9	8.2	7.0	8.7	6.7	2.3	7.9	9.2	9.5	9.2	7.9	10.0	10.6	12.2	14.6	2.3	9.8
6	13.1	11.8	12.2	13.2	12.1	12.1	12.0	10.0	9.7	8.2	2.7	2.1	2.5	6.1	5.1	2.1	9.3	7.4	3.6	3.6	4.9	9.4	8.1	10.4	13.2	2.1	8.0
7	11.5	7.0	3.8	5.1	4.7	11.3	12.9	18.0	14.9	14.3	14.8	15.7	14.5	10.4	9.9	9.4	9.2	8.4	7.6	9.2	9.9	6.0	6.6	5.4	18.0	3.8	10.0
8	5.3	4.4	3.9	3.0	3.0	3.4	3.5	4.3	4.3	3.1	3.7	4.2	3.9	3.8	4.1	4.0	4.2	3.9	2.8	2.5	2.0	1.3	2.4	3.0	5.3	1.3	3.5
9	3.2	2.9	2.1	2.1	2.3	2.2	5.6	5.3	3.2	4.4	5.7	6.1	6.0	5.5	7.9	5.9	5.3	4.4	3.2	3.4	2.9	2.7	5.2	4.0	7.9	2.1	4.2
10	5.5	8.1	5.3	2.1	1.8	3.8	7.1	7.4	4.8	5.2	5.0	6.1	6.4	5.3	5.7	5.1	5.0	4.7	3.9	1.8	2.1	1.4	1.4	1.5	8.1	1.4	4.4
11	1.7	1.5	1.3	2.0	1.8	2.3	3.0	3.2	2.9	3.1	3.8	3.9	4.0	3.0	3.9	4.2	4.2	3.1	2.4	2.3	1.7	4.8	4.5	3.0	4.8	1.3	3.0
12	3.1	2.3	1.8	1.9	3.4	3.2	2.7	1.4	2.1	3.8	3.8	4.0	4.1	4.0	3.8	4.2	4.1	2.8	2.8	3.6	2.6	3.6	4.2	3.5	4.2	1.4	3.2
13	2.1	2.7	1.9	3.3	3.7	3.2	3.7	3.5	4.4	3.9	2.9	3.0	4.9	4.4	3.6	4.1	4.4	5.0	5.0	4.4	3.0	2.9	4.4	4.5	5.0	1.9	3.7
14	3.8	3.6	4.2	3.8	3.8	4.1	4.9	3.3	3.4	3.7	4.0	3.6	3.1	3.3	4.2	4.0	4.1	4.2	4.1	4.0	3.0	2.2	2.8	2.9	4.9	2.2	3.7
15	3.1	3.4	2.5	2.7	2.8	3.0	2.8	2.5	2.5	3.4	3.8	4.1	4.0	2.9	3.8	3.7	4.3	4.9	4.9	3.3	3.2	4.0	3.2	3.8	4.9	2.5	3.4
16	2.7	4.4	4.5	3.0	3.8	5.9	6.9	6.9	5.3	6.3	6.3	6.6	9.6	10.4	8.6	7.9	7.3	4.8	4.2	4.9	7.7	8.7	5.2	6.6	10.4	2.7	6.2
17	7.6	7.7	7.6	8.4	8.1	8.8	11.1	12.2	12.3	13.1	10.9	13.5	12.5	11.4	11.7	12.9	14.2	14.6	13.4	12.0	12.6	9.8	10.7	9.1	14.6	7.6	11.1
18	8.4	9.3	9.1	9.9	9.1	7.5	10.8	10.7	8.0	5.8	8.2	4.4	4.4	4.3	3.8	4.1	4.0	3.1	3.0	2.6	2.2	1.9	1.4	1.1	10.8	1.1	5.7
19	2.5	3.4	1.4	2.2	3.3	7.9	6.9	6.0	4.4	3.1	2.0	2.8	4.2	4.4	3.6	8.0	9.3	11.4	10.8	9.4	9.6	12.2	11.2	12.7	12.7	1.4	6.4
20	6.6	9.9	17.8	16.4	15.4	14.4	12.1	12.1	12.7	9.6	8.4	13.0	12.5	10.1	13.0	11.1	12.3	9.9	8.3	8.0	14.2	24.3	23.1	19.9	24.3	6.6	13.1
21	15.4	19.0	25.6	22.4	22.4	29.3	24.6	20.6	18.8	15.6	10.5	14.0	19.0	11.5	9.9	9.0	10.3	8.4	5.5	3.7	4.0	3.1	3.5	3.1	29.3	3.1	13.7
22	3.1	4.6	3.8	2.9	5.5	5.2	5.6	6.9	6.8	5.9	5.0	7.5	6.8	4.7	9.2	9.0	8.9	13.1	10.6	11.6	14.5	15.6	12.3	16.3	16.3	2.9	8.1
23	14.6	10.9	10.6	10.8	11.1	17.1	13.2	10.2	6.1	8.7	7.7	12.9	10.4	5.2	5.9	5.4	5.7	3.5	1.3	3.0	4.1	3.6	2.7	4.0	17.1	1.3	7.9
24	3.8	2.8	4.1	4.8	5.1	4.9	3.6	3.1	2.6	2.3	4.3	7.3	11.6	10.7	8.6	10.7	11.1	14.9	19.3	16.0	14.3	13.2	17.7	17.3	19.3	2.3	8.9
25	13.6	11.3	11.3	17.4	14.9	18.6	13.9	11.1	8.1	10.6	6.2	2.9	8.8	7.3	6.0	4.4	4.8	3.8	3.0	2.6	2.5	1.9	3.3	3.9	18.6	1.9	8.0
26	4.2	3.4	3.7	5.2	4.4	5.8	4.9	4.8	5.7	5.9	5.6	9.1	7.8	6.1	11.3	13.7	12.2	8.2	5.6	10.4	12.3	16.4	14.5	17.5	17.5	3.4	8.3
27	16.1	15.9	15.5	15.6	9.1	10.6	10.5	7.4	7.5	8.8	8.0	9.2	9.5	13.9	7.6	8.5	13.7	20.4	20.9	19.9	16.6	13.2	19.5	15.4	20.9	7.4	13.0
28	13.9	9.5	8.3	6.3	6.8	3.3	2.5	1.9	6.3	5.4	1.1	1.8	4.5	3.5	2.2	2.6	6.7	22.1	26.4	25.5	20.3	31.1	31.4	26.9	31.4	1.1	11.3
29	24.6	18.5	16.4	24.6	18.1	28.0	18.7	14.0	11.9	15.6	12.4	15.3	15.8	12.8	15.1	15.6	13.1	12.9	16.1	13.6	11.7	12.5	15.4	11.6	28.0	11.6	16.0
30	11.2	12.7	12.6	13.3	11.8	9.4	11.0	11.7	8.4	7.3	7.9	8.0	9.3	9.9	12.2	8.5	12.2	12.6	9.2	11.2	13.9	16.1	13.9	13.7	16.1	7.3	11.2
31	15.2	12.8	14.2	13.9	12.3	13.7	11.1	15.8	13.8	14.8	16.2	16.4	13.3	12.3	13.4	14.8	17.6	11.6	10.8	13.9	14.5	12.3	11.9	12.3	17.6	10.8	13.7
Max.	**24.6**	**19.0**	**25.6**	**24.6**	**22.4**	**29.3**	**24.6**	**20.6**	**18.8**	**15.6**	**16.2**	**16.4**	**19.0**	**13.9**	**15.1**	**15.6**	**17.6**	**22.1**	**26.4**	**25.5**	**20.3**	**31.1**	**31.4**	**26.9**	**31.4**		
Min.	**1.7**	**1.5**	**1.3**	**1.9**	**1.8**	**1.3**	**1.5**	**1.4**	**2.1**	**1.7**	**1.1**	**1.8**	**2.5**	**2.9**	**2.2**	**2.1**	**3.1**	**2.1**	**1.3**	**1.8**	**1.7**	**1.3**	**1.4**	**1.1**		**1.1**	
Avg.	**8.1**	**7.7**	**7.7**	**8.1**	**7.4**	**8.8**	**8.2**	**7.9**	**6.9**	**6.9**	**6.3**	**7.2**	**7.7**	**7.1**	**7.2**	**7.0**	**8.1**	**8.2**	**7.7**	**7.6**	**7.7**	**8.8**	**9.0**	**9.0**			**7.8**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	12.7	10.5	10.2	6.9	6.3	5.8	9.0	8.1	8.4	8.2	7.7	5.2	13.3	13.8	9.9	11.7	13.9	13.4	13.6	12.5	12.0	12.3	13.0	9.6	13.9	5.2	10.3
2	4.9	4.1	4.8	4.4	4.4	3.9	4.2	4.8	4.4	4.2	3.9	2.7	5.0	6.2	7.1	7.1	7.5	4.2	5.0	6.0	5.7	5.9	7.6	6.0	7.6	2.7	5.2
3	8.2	4.1	3.6	7.3	5.2	4.3	6.5	7.6	7.5	8.3	9.2	9.9	9.8	9.9	11.4	11.5	11.9	12.1	12.3	12.8	12.3	12.4	12.8	12.1	12.8	3.6	9.3
4	10.8	10.3	10.9	10.9	12.2	15.4	11.4	11.4	11.0	9.4	8.4	7.8	6.9	6.0	5.2	3.9	3.3	4.4	5.6	6.2	5.2	3.8	2.0	2.9	15.4	2.0	7.7
5	3.3	3.4	3.0	3.3	3.7	4.4	3.8	5.7	5.9	6.8	6.4	7.0	5.3	4.3	4.7	6.2	6.1	5.7	5.8	5.2	7.3	6.8	7.2	6.3	7.3	3.0	5.3
6	6.0	6.0	5.2	4.4	3.8	9.8	5.9	3.0	4.9	12.2	17.8	15.6	24.6	20.2	14.8	12.9	8.8	14.4	3.7	14.3	15.3	18.2	18.2	13.2	24.6	3.0	11.4
7	16.2	14.2	14.9	17.4	15.7	10.8	13.1	14.0	18.8	15.9	13.1	11.0	9.3	11.1	8.4	12.2	8.6	7.9	11.4	11.2	12.6	12.3	14.5	18.5	18.8	7.9	13.0
8	21.6	21.2	16.8	16.9	15.8	14.7	11.3	9.8	8.0	8.7	5.1	2.2	3.4	3.0	3.0	4.3	4.0	3.4	3.7	4.2	4.9	7.6	8.8	6.0	21.6	2.2	8.7
9	8.1	8.5	10.1	10.8	10.5	9.9	11.2	14.3	13.0	14.0	13.1	13.2	9.2	8.5	11.0	6.1	3.0	6.8	6.6	5.2	2.6	9.4	10.2	12.9	14.3	2.6	9.5
10	13.9	13.0	13.2	17.1	15.5	17.3	15.7	14.8	18.6	18.9	19.8	20.9	17.7	16.1	5.3	7.6	11.7	7.3	1.6	3.9	3.2	2.0	3.6	3.5	20.9	1.6	11.8
11	3.7	5.9	6.8	5.6	6.1	5.7	6.2	4.2	4.9	5.6	5.6	6.5	8.8	7.9	8.1	8.8	6.9	9.1	10.2	12.5	7.8	5.5	6.2	7.5	12.5	3.7	6.9
12	4.7	3.5	5.7	7.3	15.6	18.1	20.7	14.9	10.4	14.2	18.9	24.7	23.3	16.1	16.5	21.5	26.8	22.7	33.9	32.0	32.4	32.3	20.9	22.0	33.9	3.5	19.1
13	24.7	21.3	20.1	13.9	9.4	10.3	9.3	16.6	12.8	13.8	18.0	8.3	6.4	14.6	13.1	12.9	14.9	13.0	9.4	14.3	12.6	10.9	12.7	11.1	24.7	6.4	13.5
14	13.3	16.7	9.6	4.1	3.1	3.7	3.5	3.3	4.7	4.7	2.5	2.3	2.4	3.6	7.0	10.2	10.0	6.7	9.4	13.0	9.8	6.3	10.5	8.5	16.7	2.3	7.0
15	11.0	12.0	9.7	10.0	5.3	8.1	10.1	7.4	8.3	8.7	6.5	8.3	7.1	7.3	8.6	5.5	5.9	7.1	4.8	8.0	9.2	6.0	5.3	7.1	12.0	4.8	7.8
16	7.0	5.6	8.0	14.4	14.1	19.6	13.4	13.7	15.5	14.5	15.5	11.4	13.9	16.0	15.4	12.5	12.0	14.1	11.1	2.8	4.2	3.3	8.7	10.2	19.6	2.8	11.5
17	14.6	9.7	7.6	4.4	5.4	4.6	4.8	4.5	4.3	5.9	5.0	5.5	6.9	6.8	5.6	2.4	2.1	3.2	2.9	1.9	3.0	5.8	7.8	9.8	14.6	1.9	5.6
18	10.5	13.3	13.5	13.4	16.0	14.2	14.0	15.6	17.1	15.5	17.7	14.2	10.8	10.1	13.2	15.6	14.2	11.6	16.7	10.8	10.7	11.1	13.9	12.1	17.7	10.1	13.6
19	13.0	14.7	12.4	14.8	23.2	18.7	22.8	21.5	24.1	20.0	13.8	13.4	12.2	10.2	7.7	7.9	9.7	9.7	13.0	13.2	13.7	14.2	15.2	14.9	24.1	7.7	14.7
20	14.0	16.0	14.8	13.7	15.4	14.5	12.1	12.0	13.3	15.3	8.7	12.7	11.3	15.4	15.1	10.0	9.5	10.3	11.9	19.4	19.2	14.7	8.0	14.3	19.4	8.0	13.4
21	16.8	17.7	13.9	13.8	14.0	12.8	10.8	11.5	4.6	2.9	3.9	4.1	3.9	2.7	2.2	3.7	5.4	6.1	6.2	5.5	4.2	3.0	3.3	3.7	17.7	2.2	7.4
22	3.3	3.6	5.6	7.2	6.3	8.5	9.1	10.0	9.9	9.9	9.0	8.5	9.9	5.9	7.8	6.4	6.9	7.0	6.6	5.8	5.1	4.3	9.7	5.7	10.0	3.3	7.2
23	8.5	12.3	7.1	4.8	2.9	3.1	4.8	1.4	2.5	2.8	6.1	7.3	6.6	3.7	5.3	7.4	6.3	5.7	6.1	7.0	32.5	35.9	28.9	35.3	35.9	1.4	10.2
24	36.2	37.1	31.3	30.1	25.3	18.8	20.3	17.6	25.9	22.7	20.3	16.5	19.7	30.5	17.5	19.4	19.0	15.5	17.7	14.5	25.9	11.5	16.7	19.2	37.1	11.5	22.1
25	18.1	17.4	18.2	21.3	22.1	24.4	19.0	19.6	19.4	19.4	20.1	19.5	17.0	21.5	18.8	16.3	13.9	13.2	15.0	14.6	11.0	6.8	9.4	9.0	24.4	6.8	16.9
26	4.2	4.1	3.7	2.5	4.1	5.3	7.5	6.8	6.2	8.5	10.4	11.0	7.4	7.9	11.5	13.5	12.3	16.0	11.6	12.0	13.8	17.8	14.4	17.2	17.8	2.5	9.6
27	20.0	18.3	19.1	20.1	19.7	22.6	23.6	24.8	22.7	21.3	21.1	21.7	22.5	22.5	20.0	22.6	20.4	16.4	15.4	15.0	13.9	10.7	11.1	9.4	24.8	9.4	18.9
28	8.8	8.2	7.7	7.8	7.0	5.1	5.7	6.3	3.0	3.7	3.9	1.3	1.9	1.8	2.4	4.4	6.9	5.3	5.3	2.8	3.6	4.4	7.6	9.2	9.2	1.3	5.2
29	10.4	15.0	14.7	15.4	14.9	15.4	15.3	15.3	13.4	13.6	14.8	15.4	13.0	17.0	16.7	19.2	12.8	15.6	17.2	14.3	15.4	16.6	16.2	15.4	19.2	10.4	15.1
30	17.2	15.8	14.3	13.4	15.3	13.8	16.5	17.1	14.4	16.3	15.7	14.1	13.5	11.2	12.9	9.4	11.1	9.9	10.4	10.7	11.0	11.8	9.5	10.8	17.2	9.4	13.2
Max.	**36.2**	**37.1**	**31.3**	**30.1**	**25.3**	**24.4**	**23.6**	**24.8**	**25.9**	**22.7**	**21.1**	**24.7**	**24.6**	**30.5**	**20.0**	**22.6**	**26.8**	**22.7**	**33.9**	**32.0**	**32.5**	**35.9**	**28.9**	**35.3**	**37.1**		
Min.	**3.3**	**3.4**	**3.0**	**2.5**	**2.9**	**3.1**	**3.5**	**1.4**	**2.5**	**2.8**	**2.5**	**1.3**	**1.9**	**1.8**	**2.2**	**2.4**	**2.1**	**3.2**	**1.6**	**1.9**	**2.6**	**2.0**	**2.0**	**2.9**		**1.3**	
Avg.	**12.2**	**12.1**	**11.2**	**11.2**	**11.3**	**11.5**	**11.4**	**11.2**	**11.3**	**11.5**	**11.4**	**10.7**	**10.8**	**11.0**	**10.2**	**10.4**	**10.2**	**9.9**	**10.1**	**10.4**	**11.3**	**10.8**	**11.1**	**11.4**			**11.0**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	10.2	10.0	11.5	14.7	14.2	14.2	14.8	14.7	16.9	15.7	18.6	16.0	14.2	16.5	16.9	20.2	19.0	18.2	23.6	16.5	15.8	20.9	16.0	18.1	23.6	10.0	16.1
2	17.1	19.6	19.8	21.3	17.8	15.8	12.5	15.3	15.1	13.7	19.7	16.8	16.7	15.2	15.3	16.1	12.6	8.4	9.8	12.6	9.1	8.0	4.6	3.9	21.3	3.9	14.0
3	4.0	4.6	5.9	6.2	8.2	6.8	6.2	4.9	7.6	9.1	11.2	9.9	11.9	13.0	13.6	12.2	13.0	10.3	10.8	10.8	11.9	8.1	10.9	10.7	13.6	4.0	9.2
4	12.0	10.9	11.0	11.6	13.1	10.9	11.6	13.1	13.1	13.8	13.5	12.8	11.5	15.5	16.6	16.3	18.1	17.6	17.2	18.3	20.8	20.1	18.2	17.1	20.8	10.9	14.8
5	16.6	14.2	13.1	13.9	13.0	11.7	11.6	9.9	9.2	10.0	12.1	8.1	7.8	4.5	2.3	3.9	5.7	8.0	8.1	8.3	8.4	7.5	7.6	6.7	16.6	2.3	9.3
6	6.3	5.0	5.5	3.5	3.7	3.7	3.6	3.8	2.4	3.7	3.3	3.0	2.9	2.5	6.3	4.3	4.6	4.6	3.3	4.2	3.5	3.8	4.4	4.4	6.3	2.4	4.0
7	5.1	5.4	6.0	4.2	5.8	4.7	6.1	8.1	9.6	9.1	7.7	8.2	8.3	6.8	8.4	8.8	8.7	8.5	8.3	8.5	7.9	6.6	5.7	4.6	9.6	4.2	7.1
8	4.5	5.3	4.3	2.5	2.8	3.1	5.7	5.3	6.1	5.0	4.8	3.5	3.2	2.8	4.6	4.3	5.8	4.5	4.7	4.6	3.8	4.6	3.9	4.0	6.1	2.5	4.3
9	3.8	4.6	4.4	3.5	3.4	4.4	4.0	4.8	5.1	6.7	5.4	6.1	6.3	8.6	9.9	11.3	13.0	12.3	14.2	13.1	16.8	19.0	18.4	15.9	19.0	3.4	9.0
10	17.1	14.3	14.7	16.8	13.9	16.8	19.0	16.0	20.2	10.1	8.4	7.5	4.6	3.9	3.0	3.4	3.6	4.4	4.5	6.4	6.6	7.8	5.6	6.3	20.2	3.0	9.8
11	5.8	5.6	7.3	8.3	8.4	8.2	7.7	6.1	3.8	2.6	3.9	3.9	7.6	8.9	15.0	18.0	14.8	13.5	20.5	23.1	22.4	18.6	17.6	21.6	23.1	2.6	11.4
12	23.1	16.0	24.1	20.1	23.4	29.5	26.5	26.7	17.4	11.9	25.0	17.8	20.0	20.3	26.4	28.7	19.0	20.8	19.3	16.5	19.8	17.0	16.8	15.9	29.5	11.9	20.9
13	14.3	12.3	11.9	6.4	5.7	7.3	10.9	5.3	4.4	7.5	9.6	8.4	18.6	11.0	10.3	21.2	15.2	14.4	11.5	8.4	4.1	4.4	4.1	3.2	21.2	3.2	9.6
14	4.7	4.6	4.5	6.1	5.5	4.7	4.4	4.1	5.1	6.4	6.8	5.1	5.8	6.4	5.0	4.3	4.7	3.7	6.0	6.1	7.7	7.6	8.1	8.7	8.7	3.7	5.7
15	10.3	10.9	10.3	9.9	9.3	9.4	10.7	9.6	8.6	8.0	7.0	4.9	4.2	3.5	2.8	3.8	4.4	5.4	6.4	2.8	5.1	5.6	3.4	5.6	10.9	2.8	6.7
16	2.6	3.3	2.9	13.5	11.7	12.8	13.2	13.2	10.2	6.9	7.8	13.8	9.3	11.6	17.8	11.7	11.7	13.3	11.6	6.4	8.6	4.6	3.8	4.0	17.8	2.6	9.4
17	4.0	5.6	8.7	9.5	9.1	8.9	8.9	9.2	8.0	8.8	11.0	10.5	10.9	9.8	17.3	23.1	23.2	18.1	18.0	16.8	17.2	16.4	16.5	10.6	23.2	4.0	12.5
18	9.9	17.8	17.8	22.3	27.4	22.9	25.6	27.4	29.0	25.0	22.9	16.1	14.8	15.5	12.3	15.4	12.3	7.5	13.9	19.5	6.5	2.5	3.7	4.6	29.0	2.5	16.3
19	7.0	7.2	7.0	6.8	6.7	6.0	6.8	11.0	8.4	8.5	8.1	10.0	9.8	10.1	10.1	9.5	7.3	9.2	11.8	17.9	12.2	13.6	15.6	13.2	17.9	6.0	9.7
20	13.2	13.5	11.0	15.7	14.1	15.0	12.3	13.9	14.8	15.4	15.7	17.1	18.2	17.3	18.1	17.0	16.3	17.1	15.1	17.6	17.6	18.0	17.3	19.3	19.3	11.0	15.9
21	15.4	10.0	10.8	6.7	6.7	8.3	6.4	4.9	1.4	2.1	1.5	1.2	1.6	2.1	3.7	3.6	2.9	2.2	10.8	11.7	18.8	15.9	10.4	12.9	18.8	1.2	7.2
22	13.1	15.4	15.8	11.9	16.9	14.3	14.8	15.9	19.7	19.0	18.8	25.7	23.5	30.1	31.9	28.7	26.0	11.8	12.9	12.0	18.9	18.6	22.4	19.5	31.9	11.8	19.1
23	14.9	25.5	20.2	23.5	20.6	16.9	16.0	15.3	14.8	19.2	14.7	8.8	11.0	10.3	11.1	9.5	7.6	3.0	2.2	2.1	4.5	4.6	5.3	5.1	25.5	2.1	11.9
24	4.1	5.1	3.8	2.9	6.1	4.7	6.2	8.7	10.3	7.3	8.8	7.8	9.4	14.0	13.0	13.3	15.4	16.0	18.0	17.8	16.0	15.8	18.8	17.0	18.8	2.9	10.8
25	17.2	17.7	14.6	14.2	9.3	16.7	13.4	14.3	13.4	8.9	8.3	8.9	6.8	5.1	3.6	4.3	4.1	3.3	7.5	7.5	7.2	5.8	6.9	6.1	17.7	3.3	9.4
26	5.9	6.8	6.3	6.2	5.9	4.4	7.5	8.8	7.0	8.9	8.8	9.9	7.8	7.7	8.3	6.8	6.7	8.8	9.6	4.8	7.6	7.0	6.4	4.7	9.9	4.4	7.2
27	5.8	5.2	5.4	5.5	5.4	5.7	4.3	4.1	4.4	4.6	5.5	5.0	4.2	3.7	2.4	2.5	2.1	3.0	3.5	3.6	4.1	4.2	4.4	4.9	5.8	2.1	4.3
28	4.2	3.8	5.3	4.0	5.1	5.5	6.3	5.6	6.0	7.6	6.0	6.4	7.2	6.0	5.5	4.5	2.9	2.9	6.6	6.6	3.7	3.4	6.6	5.2	7.6	2.9	5.3
29	5.2	4.9	5.2	4.4	4.0	4.6	4.8	4.9	5.0	5.3	5.6	5.8	6.2	5.5	5.6	6.6	6.3	7.2	6.0	6.6	6.4	6.6	6.0	6.1	7.2	4.0	5.6
30	6.1	5.7	5.7	6.9	5.0	4.9	5.0	4.4	3.5	5.4	4.7	3.0	2.1	3.2	5.5	8.4	10.7	10.0	10.0	11.3	12.1	10.9	10.8	8.4	12.1	2.1	6.8
31	9.4	11.1	11.5	13.0	14.7	14.5	18.7	18.5	15.5	12.5	16.2	17.9	16.8	14.7	21.5	16.2	12.9	15.0	14.8	13.7	12.5	13.2	9.4	8.8	21.5	8.8	14.3
Max.	**23.1**	**25.5**	**24.1**	**23.5**	**27.4**	**29.5**	**26.5**	**27.4**	**29.0**	**25.0**	**25.0**	**25.7**	**23.5**	**30.1**	**31.9**	**28.7**	**26.0**	**20.8**	**23.6**	**23.1**	**22.4**	**20.9**	**22.4**	**21.6**	**31.9**		
Min.	**2.6**	**3.3**	**2.9**	**2.5**	**2.8**	**3.1**	**3.6**	**3.8**	**1.4**	**2.1**	**1.5**	**1.2**	**1.6**	**2.1**	**2.3**	**2.5**	**2.1**	**2.2**	**2.2**	**2.1**	**3.5**	**2.5**	**3.4**	**3.2**		**1.2**	
Avg.	**9.4**	**9.7**	**9.9**	**10.2**	**10.2**	**10.2**	**10.5**	**10.6**	**10.2**	**9.6**	**10.4**	**9.7**	**9.8**	**9.9**	**11.1**	**11.5**	**10.7**	**9.8**	**11.0**	**10.8**	**10.9**	**10.3**	**10.0**	**9.6**			**10.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	7.8	8.9	10.3	7.2	5.5	4.9	4.1	3.7	4.3	2.8	7.0	6.9	6.7	7.4	8.8	10.0	11.1	12.8	14.7	13.0	13.3	13.7	14.3	12.0	14.7	2.8	8.8
2	11.9	12.0	12.5	15.2	10.0	10.1	9.1	8.7	8.2	8.3	6.4	7.0	10.8	9.6	10.3	12.6	8.4	11.3	14.3	12.7	9.6	11.1	10.3	8.9	15.2	6.4	10.4
3	8.4	10.7	12.4	11.6	14.8	8.6	10.3	14.1	11.8	11.3	12.8	14.1	18.4	16.7	20.1	18.1	17.7	16.3	16.0	16.7	16.0	19.2	15.7	14.5	20.1	8.4	14.4
4	18.2	20.1	18.7	15.2	13.5	13.5	15.9	13.1	16.3	15.9	15.1	16.3	15.0	16.9	20.4	17.4	16.7	16.1	16.4	17.2	14.0	13.6	6.5	9.5	20.4	6.5	15.5
5	8.5	7.2	13.7	13.7	16.6	14.2	13.1	12.1	13.2	12.4	17.1	17.2	13.9	16.9	14.3	11.5	16.4	17.2	17.8	19.3	24.4	16.7	15.0	12.1	24.4	7.2	14.8
6	19.6	11.1	7.1	7.4	2.2	3.8	4.4	3.1	4.9	8.4	16.2	15.7	22.2	16.9	8.9	10.4	13.4	12.9	14.6	17.8	19.9	12.7	10.4	12.5	22.2	2.2	11.5
7	10.5	11.8	17.1	20.8	15.1	15.8	14.7	10.0	10.6	9.7	8.4	7.0	6.2	5.9	5.4	7.3	7.9	7.5	8.0	9.6	10.9	9.2	12.3	12.5	20.8	5.4	10.6
8	12.4	12.4	11.9	12.8	11.5	10.1	11.2	9.9	10.9	9.3	8.4	7.7	5.3	5.2	3.1	3.4	2.9	2.7	2.8	2.6	2.8	2.9	2.9	2.8	12.8	2.6	7.0
9	3.1	2.7	2.3	2.3	2.5	2.2	3.0	2.4	2.0	2.7	4.3	6.6	6.9	6.0	5.9	6.6	4.3	6.6	6.1	7.6	5.2	7.8	10.3	13.2	13.2	2.0	5.1
10	9.1	11.3	14.7	16.3	19.0	22.9	18.7	17.9	19.3	21.4	19.7	21.1	20.2	21.1	22.0	19.8	17.4	17.9	16.8	16.3	15.1	14.0	6.8	5.8	22.9	5.8	16.9
11	6.6	7.2	6.7	4.8	1.9	2.4	6.4	3.7	5.3	6.0	7.7	8.0	7.7	7.9	5.7	6.7	7.0	7.5	8.1	5.4	4.5	2.2	7.6	7.2	8.1	1.9	6.0
12	5.7	3.2	5.4	5.5	4.1	3.8	2.6	5.2	7.0	5.1	2.0	3.5	3.5	3.7	3.8	4.4	3.5	3.7	4.0	3.9	3.6	5.7	6.1	7.6	7.6	2.0	4.5
13	6.4	7.8	8.8	8.8	8.9	8.8	8.4	8.3	9.0	8.2	9.7	6.8	4.4	4.7	5.3	3.2	3.5	3.6	5.6	5.0	6.6	5.8	6.0	5.7	9.7	3.2	6.6
14	6.7	7.7	8.1	9.0	9.7	10.2	10.6	10.7	11.8	12.3	12.2	12.5	14.3	13.3	14.8	15.5	17.0	18.0	18.0	17.7	17.8	16.5	17.5	18.0	18.0	6.7	13.3
15	17.9	16.0	9.7	8.7	8.1	2.3	2.8	2.3	4.2	3.5	3.7	3.5	5.9	10.0	6.0	4.1	5.9	8.9	7.9	9.7	5.7	4.7	6.1	5.2	17.9	2.3	6.8
16	5.8	8.5	8.9	10.6	10.0	15.4	17.0	16.6	17.0	13.8	11.2	10.8	9.8	9.2	10.4	10.4	11.7	9.8	9.5	9.5	10.2	10.3	10.0	10.0	17.0	5.8	11.1
17	9.8	8.8	8.9	9.2	8.4	7.4	7.4	6.7	6.2	3.8	1.8	3.2	9.4	15.5	16.6	17.7	16.7	15.0	12.2	6.9	5.5	7.7	7.1	6.7	17.7	1.8	9.1
18	8.1	9.9	14.5	11.7	11.5	11.1	13.1	12.6	16.2	15.5	15.0	10.9	11.9	13.0	13.9	11.4	10.3	8.4	6.3	23.0	22.2	25.6	25.4	24.4	25.6	6.3	14.4
19	25.2	14.9	16.6	18.6	18.2	16.7	11.8	16.0	25.2	21.9	20.9	16.7	13.1	18.3	22.0	24.8	20.7	22.0	23.8	21.5	17.5	9.4	3.9	6.6	25.2	3.9	17.8
20	5.6	6.2	6.8	7.5	9.0	9.3	8.5	8.4	9.0	9.4	12.3	12.4	11.4	12.7	11.8	9.4	5.7	5.6	4.7	3.9	2.7	2.3	2.1	3.4	12.7	2.1	7.5
21	4.2	3.5	3.6	4.4	8.3	9.3	9.9	10.1	13.2	13.5	14.8	13.1	16.9	15.6	18.0	16.9	19.5	17.3	21.1	26.7	27.2	16.3	10.6	12.9	27.2	3.5	13.6
22	13.9	17.0	19.6	15.7	9.8	8.7	11.8	13.0	12.3	13.4	11.5	9.8	8.4	9.6	8.8	8.1	7.9	7.5	9.7	16.4	16.9	18.7	17.2	19.2	19.6	7.5	12.7
23	19.3	20.1	24.0	25.1	22.4	25.6	26.8	29.4	31.7	27.8	31.2	25.6	24.9	24.2	21.6	19.7	22.2	22.1	19.8	19.3	20.9	15.7	15.7	17.0	31.7	15.7	23.0
24	16.7	21.3	23.8	20.1	21.5	18.6	16.4	19.5	22.1	25.4	23.6	25.8	28.0	34.4	37.3	31.2	32.5	39.5	33.1	32.0	27.2	25.5	23.5	23.8	39.5	16.4	25.9
25	23.2	22.8	23.3	22.1	21.1	24.9	22.4	24.4	27.0	27.0	25.7	25.6	22.6	23.4	25.8	22.0	20.2	20.3	22.0	19.9	21.2	20.9	19.9	19.5	27.0	19.5	22.8
26	17.3	16.3	17.5	18.6	18.1	17.8	18.4	18.2	19.0	17.6	17.2	18.8	20.1	19.0	19.1	22.6	19.4	18.2	13.5	13.3	11.1	9.6	9.3	10.3	22.6	9.3	16.7
27	10.8	10.7	10.9	10.2	9.0	8.7	10.0	9.3	9.8	9.2	10.9	9.9	9.2	8.6	7.2	6.6	7.1	5.3	6.3	4.4	4.8	4.2	5.2	4.2	10.9	4.2	8.0
28	5.0	5.0	3.9	3.9	4.9	4.2	4.4	3.3	4.4	5.0	3.5	3.5	3.5	3.1	2.7	2.6	3.9	3.1	2.6	2.7	3.2	3.5	3.2	2.9	5.0	2.6	3.7
29	3.8	3.8	4.2	5.2	5.9	4.7	5.8	7.1	4.3	3.5	3.2	11.8	14.4	11.3	4.3	15.4	15.9	20.1	17.4	10.8	9.8	12.0	14.5	11.5	20.1	3.2	9.2
30	11.8	11.2	8.9	14.4	9.3	7.5	9.0	9.4	7.3	14.6	17.8	10.3	14.4	16.1	8.4	8.4	9.2	7.6	7.5	9.7	10.4	10.9	8.0	8.7	17.8	7.3	10.4
Max.	**25.2**	**22.8**	**24.0**	**25.1**	**22.4**	**25.6**	**26.8**	**29.4**	**31.7**	**27.8**	**31.2**	**25.8**	**28.0**	**34.4**	**37.3**	**31.2**	**32.5**	**39.5**	**33.1**	**32.0**	**27.2**	**25.6**	**25.4**	**24.4**	**39.5**		
Min.	**3.1**	**2.7**	**2.3**	**2.3**	**1.9**	**2.2**	**2.6**	**2.3**	**2.0**	**2.7**	**1.8**	**3.2**	**3.5**	**3.1**	**2.7**	**2.6**	**2.9**	**2.7**	**2.6**	**2.6**	**2.7**	**2.2**	**2.1**	**2.8**		**1.8**	
Avg.	**11.1**	**11.0**	**11.8**	**11.9**	**11.0**	**10.8**	**10.9**	**11.0**	**12.1**	**11.9**	**12.4**	**12.1**	**12.6**	**13.2**	**12.7**	**12.6**	**12.5**	**12.8**	**12.7**	**13.2**	**12.7**	**11.6**	**10.8**	**10.9**			**11.9**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	9.7	8.6	10.4	12.2	12.2	11.6	9.6	9.6	9.2	10.7	8.3	10.2	12.9	14.2	11.6	12.4	12.9	13.8	10.6	9.9	17.7	14.7	16.0	13.8	17.7	8.3	11.8
2	13.3	12.9	15.0	13.9	13.1	14.2	13.3	8.4	15.3	15.4	15.5	17.0	17.0	18.0	23.4	22.4	21.8	20.6	18.4	21.1	20.3	22.8	27.3	25.2	27.3	8.4	17.7
3	21.6	22.9	24.0	30.4	24.1	21.4	19.7	17.0	18.6	16.6	18.7	18.1	17.7	17.1	17.6	19.2	17.5	11.9	6.3	10.1	9.7	9.8	12.8	10.3	30.4	6.3	17.2
4	10.9	10.1	11.3	11.3	9.5	10.0	9.1	7.8	7.7	5.4	6.0	9.4	11.1	10.4	11.4	10.3	11.5	11.7	10.9	10.8	11.5	12.2	10.9	12.0	12.2	5.4	10.1
5	12.9	12.7	12.8	13.6	10.8	12.1	11.0	9.7	10.8	11.1	12.9	13.8	11.7	11.8	12.2	14.1	15.1	13.2	16.1	16.9	16.0	19.0	20.8	15.9	20.8	9.7	13.6
6	17.4	16.4	17.2	15.6	15.7	15.8	16.0	14.8	12.9	13.1	15.4	16.3	11.9	10.3	8.9	6.4	6.0	6.8	8.9	9.8	10.3	9.9	13.4	15.0	17.4	6.0	12.7
7	11.8	11.7	12.8	15.5	15.5	16.0	15.6	17.2	16.8	16.6	18.2	16.2	16.9	17.3	17.2	15.7	14.1	19.3	20.3	12.9	12.3	12.5	11.2	11.7	20.3	11.2	15.2
8	9.5	9.2	7.4	9.3	8.8	6.2	4.9	6.0	5.8	6.8	6.8	6.1	4.7	5.9	5.4	8.7	6.0	6.0	8.2	11.0	7.7	8.0	7.9	7.8	11.0	4.7	7.2
9	7.0	6.1	7.3	7.6	6.6	9.3	11.8	14.1	14.7	11.1	11.1	10.3	10.3	12.1	10.1	7.5	6.1	4.7	4.9	3.5	2.6	2.9	2.8	2.9	14.7	2.6	7.8
10	2.4	1.9	2.5	4.0	4.8	4.4	4.4	4.3	5.7	7.0	8.0	8.2	8.0	8.2	6.4	5.7	5.8	7.4	10.5	12.3	6.1	7.1	7.3	8.2	12.3	1.9	6.3
11	9.2	9.1	7.3	8.0	6.4	4.9	11.7	16.3	16.2	18.4	22.3	22.4	25.3	27.0	24.7	26.7	24.2	30.5	24.1	27.3	25.3	29.7	27.8	32.2	32.2	4.9	19.9
12	30.4	27.1	23.8	24.2	22.5	22.2	13.2	12.9	14.7	11.3	11.6	12.9	19.5	9.2	7.0	12.4	8.6	10.6	9.7	11.0	7.3	6.3	5.3	6.6	30.4	5.3	14.2
13	8.2	8.2	6.0	6.8	6.4	5.7	7.5	9.7	10.0	10.3	11.9	12.1	11.8	13.1	13.5	12.9	13.4	14.7	15.6	17.9	18.1	16.5	16.6	17.4	18.1	5.7	11.8
14	19.5	19.4	18.0	19.3	21.2	20.0	19.7	21.4	21.0	19.3	21.8	20.5	22.1	24.1	21.9	21.3	20.0	19.4	19.5	18.7	17.0	16.4	15.0	14.9	24.1	14.9	19.7
15	14.1	13.9	13.3	11.7	12.2	14.4	13.9	13.9	14.4	17.8	17.2	18.5	17.1	15.7	15.4	15.4	15.1	16.4	15.7	17.0	16.4	16.2	13.8	11.6	18.5	11.6	15.0
16	12.9	18.2	16.4	19.6	10.9	8.6	10.8	7.6	8.2	11.1	12.1	10.2	10.8	12.5	12.4	8.8	8.3	7.1	6.1	7.8	8.0	11.7	13.7	13.1	19.6	6.1	11.1
17	11.1	7.0	4.7	3.8	3.1	3.3	3.8	4.2	4.2	2.0	5.8	6.4	7.7	9.0	9.2	8.9	7.6	7.2	8.2	8.5	8.7	10.4	8.5	9.0	11.1	2.0	6.8
18	8.0	9.4	11.2	11.7	10.7	13.7	15.1	12.6	12.0	11.7	11.4	9.4	8.7	9.2	7.4	8.9	10.2	9.8	9.1	13.5	12.4	12.6	14.3	13.1	15.1	7.4	11.1
19	14.2	12.1	11.2	9.3	10.0	9.4	9.4	9.9	10.1	10.2	9.2	6.9	8.4	7.4	5.1	5.0	4.2	5.4	6.8	6.0	6.0	6.4	5.4	5.0	14.2	4.2	8.0
20	5.9	6.2	8.9	12.9	9.0	6.3	6.0	5.3	2.8	1.7	2.3	3.9	3.7	2.2	9.5	11.6	8.1	4.9	4.1	4.8	2.0	2.0	2.7	2.6	12.9	1.7	5.4
21	3.7	3.2	2.3	1.7	3.3	3.5	3.5	2.9	1.7	3.6	3.5	4.0	2.0	1.1	1.5	2.1	1.8	4.2	6.4	5.2	4.3	4.2	5.1	5.6	6.4	1.1	3.3
22	6.0	3.7	5.9	6.6	6.5	5.3	6.2	5.7	6.7	4.3	4.5	5.2	4.7	3.7	4.2	4.3	4.6	4.3	4.5	3.7	4.8	7.2	5.2	4.7	7.2	3.7	5.1
23	5.4	2.1	2.1	3.6	3.5	3.1	2.1	3.6	2.9	4.1	3.7	4.5	3.1	2.6	1.5	1.8	3.5	3.7	6.0	6.4	6.6	7.3	7.8	7.0	7.8	1.5	4.1
24	7.7	7.5	6.8	8.8	7.3	7.5	6.1	7.6	9.1	8.7	8.4	7.3	7.1	8.1	7.1	8.1	7.4	8.8	8.7	9.0	8.0	8.8	9.1	9.7	9.7	6.1	8.0
25	9.6	10.1	10.1	9.2	10.6	10.1	10.5	12.4	9.5	9.0	11.2	11.9	14.4	15.4	14.5	14.9	15.9	16.4	17.3	17.1	18.6	18.4	17.4	19.8	19.8	9.0	13.5
26	16.9	14.6	17.5	16.2	13.1	12.3	10.7	11.8	11.5	15.4	13.4	14.4	12.2	12.1	11.0	9.0	8.9	7.9	7.2	8.8	10.4	10.4	10.6	11.5	17.5	7.2	12.0
27	10.1	9.5	11.1	9.9	10.6	12.6	9.8	5.9	7.6	12.0	13.0	11.9	9.2	9.1	7.9	7.6	11.1	11.3	18.5	16.0	12.1	15.3	16.8	15.0	18.5	5.9	11.4
28	13.3	14.6	13.7	15.3	15.4	16.7	16.2	12.6	15.6	15.2	15.6	16.6	15.1	15.2	14.4	16.6	15.3	15.8	13.0	14.3	15.5	17.0	15.8	16.5	17.0	12.6	15.2
29	16.0	15.4	14.7	15.6	12.6	12.2	11.7	13.1	13.9	13.2	10.5	9.8	9.3	12.8	14.7	15.2	15.2	14.9	14.3	14.2	13.9	15.4	13.8	15.0	16.0	9.3	13.6
30	12.1	13.0	11.7	13.9	14.7	13.2	13.2	9.2	6.0	5.7	6.0	3.5	14.0	16.4	13.4	12.8	14.2	12.8	13.3	13.1	12.3	9.9	11.1	11.5	16.4	3.5	11.5
31	11.7	11.1	11.9	13.5	11.9	9.7	10.1	10.0	6.6	6.0	8.0	7.3	7.9	6.8	9.8	7.1	9.5	8.4	9.7	13.2	11.5	11.0	10.6	12.2	13.5	6.0	9.8
Max.	**30.4**	**27.1**	**24.0**	**30.4**	**24.1**	**22.2**	**19.7**	**21.4**	**21.0**	**19.3**	**22.3**	**22.4**	**25.3**	**27.0**	**24.7**	**26.7**	**24.2**	**30.5**	**24.1**	**27.3**	**25.3**	**29.7**	**27.8**	**32.2**	**32.2**		
Min.	**2.4**	**1.9**	**2.1**	**1.7**	**3.1**	**3.1**	**2.1**	**2.9**	**1.7**	**1.7**	**2.3**	**3.5**	**2.0**	**1.1**	**1.5**	**1.8**	**1.8**	**3.7**	**4.1**	**3.5**	**2.0**	**2.0**	**2.7**	**2.6**		**1.1**	
Avg.	**11.7**	**11.2**	**11.3**	**12.1**	**11.1**	**10.8**	**10.5**	**10.2**	**10.4**	**10.5**	**11.1**	**11.1**	**11.5**	**11.5**	**11.3**	**11.4**	**11.1**	**11.3**	**11.4**	**12.0**	**11.4**	**12.0**	**12.1**	**12.1**			**11.3**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	10.0	10.6	8.3	8.3	8.7	10.7	9.3	10.4	11.1	9.5	9.6	7.3	7.4	8.7	8.4	9.9	9.0	11.4	10.4	10.3	10.0	10.9	11.8	11.9	11.9	7.3	9.7
2	11.6	8.9	9.4	7.8	9.5	9.5	8.9	10.2	13.9	13.2	12.0	11.1	10.2	9.4	9.8	9.6	9.5	9.0	13.2	8.6	8.5	9.4	8.8	9.7	13.9	7.8	10.1
3	7.2	10.4	8.1	9.6	10.8	8.8	9.1	9.1	7.7	7.2	6.0	5.8	6.6	7.3	6.8	7.6	7.9	8.1	6.9	6.4	6.0	7.6	8.0	6.4	10.8	5.8	7.7
4	5.4	7.1	4.4	4.8	6.5	4.2	5.2	1.6	3.4	2.4	2.1	3.0	2.8	4.1	4.3	3.4	7.1	6.4	2.9	6.2	6.1	2.9	4.0	6.3	7.1	1.6	4.4
5	6.4	7.6	9.4	6.7	6.9	8.5	8.4	6.0	4.0	4.5	2.8	2.2	2.4	3.6	3.5	2.0	1.6	3.9	5.2	4.7	3.9	4.4	3.5	2.5	9.4	1.6	4.8
6	3.4	3.1	3.7	3.9	3.5	3.0	3.7	3.1	4.1	3.9	2.3	1.7	3.7	3.7	3.5	2.9	1.4	2.6	2.2	1.5	1.5	3.5	3.3	5.1	5.1	1.4	3.1
7	6.0	3.6	3.3	3.3	3.1	1.9	1.2	4.8	8.5	9.0	9.3	11.6	14.2	15.0	15.4	12.3	10.2	9.7	9.0	14.2	13.1	13.1	14.6	13.5	15.4	1.2	9.2
8	12.3	11.3	11.3	12.3	12.2	12.5	12.1	12.0	12.5	11.2	9.6	9.0	8.9	6.0	5.9	2.9	3.0	2.9	3.2	3.0	3.2	3.7	4.5	4.2	12.5	2.9	7.9
9	3.4	3.6	3.7	3.3	4.0	3.9	2.5	3.9	4.2	4.1	4.3	2.5	2.6	4.8	3.8	2.0	1.5	3.3	2.6	1.5	2.3	1.8	2.9	2.7	4.8	1.5	3.1
10	1.4	2.8	2.4	5.0	6.1	6.9	4.8	4.1	3.7	4.8	3.8	2.9	3.8	4.0	5.2	8.3	7.5	7.6	8.8	8.3	9.6	10.0	9.7	9.8	10.0	1.4	5.9
11	10.8	10.4	8.6	7.2	9.0	9.0	7.6	4.7	5.8	7.3	5.6	5.9	6.2	4.1	3.7	3.7	2.7	3.0	7.5	7.6	6.8	7.0	4.6	7.9	10.8	2.7	6.5
12	3.8	8.1	10.4	11.0	11.0	11.2	12.4	12.8	11.7	8.1	4.6	6.4	6.5	6.6	6.1	5.2	6.5	5.2	4.3	4.4	5.7	4.0	4.4	5.7	12.8	3.8	7.3
13	6.2	4.1	5.2	3.6	4.3	4.1	4.1	5.7	7.9	9.2	4.4	10.0	8.9	10.0	9.7	8.1	9.7	8.3	10.3	7.6	6.5	7.5	5.5	5.2	10.3	3.6	6.9
14	5.4	7.1	5.9	6.5	6.9	6.5	6.8	5.2	5.2	6.7	7.4	8.2	8.1	10.0	9.4	10.0	9.1	9.5	9.9	9.5	9.3	9.4	11.2	10.8	11.2	5.2	8.1
15	11.3	11.1	11.1	12.1	11.6	12.3	12.5	13.3	11.3	12.0	10.8	10.9	11.1	12.1	11.1	11.5	12.4	10.8	11.5	12.4	13.0	13.9	12.3	13.1	13.9	10.8	11.9
16	11.6	11.5	10.7	10.7	13.7	13.1	12.3	11.9	10.5	10.9	9.8					7.2	5.3	5.6	4.0	2.6	1.4	2.1	2.6	2.7	13.7	1.4	8.0
17	2.2	3.0	3.4	3.9	3.5	5.0	8.5	7.1	8.6	7.5	7.4	9.5	10.8	11.5	12.8	14.4	18.5	17.5	23.3	15.9	15.4	12.4	13.1	13.1	23.3	2.2	10.3
18	14.4	13.8	11.8	13.3	12.5	12.5	12.3	14.5	13.1	10.1	6.3	5.1	5.6	5.8	4.5	6.3	7.6	7.6	7.8	3.5	7.1	6.8	11.3	8.2	14.5	3.5	9.2
19	10.2	11.1	12.3	10.8	10.3	8.1	9.4	10.5	12.8	11.6	12.4	11.7	12.9	11.2	7.6	9.4	11.1	6.7	6.1	4.9	4.8	5.9	7.8	7.2	12.9	4.8	9.4
20	6.2	5.2	6.0	4.8	5.3	6.5	7.1	5.9	5.6	6.1	5.3	5.7	6.4	6.2	6.7	5.3	5.1	4.5	4.0	3.3	3.7	4.3	3.4	4.7	7.1	3.3	5.3
21	4.5	8.4	8.3	10.1	8.5	10.4	9.6	9.2	8.2	7.0	6.2	3.8	6.0	7.8	9.6	10.1	14.3	13.8	11.6	18.1	24.4	27.2	28.3	32.6	32.6	3.8	12.4
22	31.7	32.0	35.7	38.3	37.9	28.8	29.0	30.7	33.1	29.8	30.8	31.7	35.4	31.4	31.5	32.6	34.2	34.2	35.5	34.9	29.9	31.1	26.5	23.1	38.3	23.1	32.1
23	22.7	20.9	18.8	10.2	8.6	11.0	10.8	9.9	9.2	11.7	11.2	10.6	12.3	11.3	12.3	12.0	12.9	12.5	10.3	11.1	10.7	10.3	12.0	11.1	22.7	8.6	12.3
24	10.9	10.8	11.4	13.1	10.8	10.8	9.8	11.5	11.3	13.2	12.4	12.9	12.8	13.3	14.3	13.4	12.8	12.7	11.8	13.1	11.1	11.2	10.1	9.6	14.3	9.6	11.9
25	9.4	9.1	8.9	7.1	7.6	8.6	8.5	5.4	6.2	5.4	6.5	7.3	7.5	6.1	5.6	6.3	7.0	8.9	9.1	9.9	9.9	12.4	12.3	15.7	15.7	5.4	8.4
26	14.4	15.5	14.3	14.7	14.5	14.9	13.5	14.3	14.5	14.7	13.6	14.5	14.3	13.5	14.3	12.9	11.1	11.2	12.2	14.7	15.8	16.9	15.5	15.0	16.9	11.1	14.2
27	14.7	19.0	16.8	26.0	26.0	34.1	27.2	25.6	23.5	23.6	25.1	29.1	24.3	22.7	24.0	25.8	27.4	25.1	25.2	29.1	28.1	24.8	27.4	26.7	34.1	14.7	25.0
28	25.7	27.8	26.7	26.6	28.2	33.0	33.5	29.2	29.4	28.4	30.1	26.4	24.0	20.7	13.7	12.6	12.4	13.3	14.0	12.3	12.5	13.8	11.9	12.3	33.5	11.9	21.6
29	10.7	10.0	9.6	10.1	8.9	7.9	8.6	9.2	9.2	9.4	8.0	7.7	9.4	8.2	8.6	8.1	9.2	8.2	8.4	8.2	8.3	9.3	8.7	8.3	10.7	7.7	8.8
30	8.2	8.2	8.9	8.2	8.2	7.2	7.4	7.3	8.0	7.2	6.8	6.6	7.3	6.1	5.1	4.5	4.9	4.8	4.0	3.7	4.5	4.9	6.3	7.0	8.9	3.7	6.5
31	6.9	6.9	7.6	8.4	6.0	5.1	5.7	4.8	6.3	6.3	6.7	6.6	5.9	6.2	7.8	8.1	8.2	10.1	12.3	13.0	13.3	15.8	15.5	14.9	15.8	4.8	8.7
Max.	**31.7**	**32.0**	**35.7**	**38.3**	**37.9**	**34.1**	**33.5**	**30.7**	**33.1**	**29.8**	**30.8**	**31.7**	**35.4**	**31.4**	**31.5**	**32.6**	**34.2**	**34.2**	**35.5**	**34.9**	**29.9**	**31.1**	**28.3**	**32.6**	**38.3**		
Min.	**1.4**	**2.8**	**2.4**	**3.3**	**3.1**	**1.9**	**1.2**	**1.6**	**3.4**	**2.4**	**2.1**	**1.7**	**2.4**	**3.6**	**3.5**	**2.0**	**1.4**	**2.6**	**2.2**	**1.5**	**1.4**	**1.8**	**2.6**	**2.5**		**1.2**	
Avg.	**10.0**	**10.4**	**10.2**	**10.4**	**10.5**	**10.6**	**10.4**	**10.1**	**10.5**	**10.2**	**9.5**	**9.6**	**9.9**	**9.7**	**9.5**	**9.3**	**9.7**	**9.6**	**9.9**	**9.8**	**9.9**	**10.3**	**10.4**	**10.5**			**10.0**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	13.1	14.5	14.6	16.6	19.0	17.7	22.9	19.0	22.8	24.4	20.7	24.8	23.4	26.5	27.5	27.2	25.8	22.2	22.2	23.0	18.9	22.4	28.2	27.1	28.2	13.1	21.8
2	25.3	24.7	24.5	23.2	22.6	23.7	22.4	25.3	22.9	22.4	16.0	15.5	13.6	12.5	13.9	14.7	13.6	12.2	11.3	9.1	8.3	7.5	7.9	7.1	25.3	7.1	16.7
3	7.5	9.4	10.6	10.4	10.6	11.2	12.3	10.5	10.4	9.5	9.7	9.0	11.2	11.2	9.5	10.9	12.3	12.4	11.4	11.4	12.0	12.3	12.5	12.5	12.5	7.5	10.9
4	12.5	12.6	14.7	14.8	16.1	16.4	16.3	17.8	17.2	15.8	18.7	16.8	17.0	18.4	17.7	19.4	20.6	20.0	19.1	17.0	17.9	19.2	20.6	22.5	22.5	12.5	17.5
5	21.6	23.1	21.0	20.7	21.9	20.7	20.8	20.5	19.8	19.6	20.8	19.3	16.0	13.5	13.0	14.4	16.0	18.2	16.7	18.8	18.8	19.5	17.5	17.1	23.1	13.0	18.7
6	19.1	16.5	14.9	14.5	13.7	14.2	13.9	10.2	10.6	7.5	3.9	2.8	9.2	4.9	9.3	7.3	5.3	4.0	4.4	3.3	4.6	4.2	4.1	2.9	19.1	2.8	8.6
7	4.0	5.3	5.1	4.0	3.2	2.7	3.1	9.0	16.6	15.9	13.1	19.7	23.0	28.1	23.4	9.9	10.0	8.2	12.4	16.6	14.7	12.0	18.5	18.7	28.1	2.7	12.4
8	19.3	16.0	8.3	6.6	5.4	5.2	5.4	6.7	7.4	9.4	8.0	10.0	8.4	10.6	14.1	12.8	13.4	14.2	13.3	12.2	13.1	13.3	13.1	12.7	19.3	5.2	10.8
9	16.9	17.9	14.8	17.3	15.8	20.3	21.1	22.6	24.6	24.4	23.8	23.2	22.5	24.2	21.5	17.9	18.6	17.7	15.6	14.1	14.3	12.7	11.9	11.0	24.6	11.0	18.5
10	13.5	14.8	13.3	14.1	14.9	15.8	14.6	15.4	14.3	15.1	14.6	12.4	10.4	9.6			4.8	9.6	8.0	9.6	8.2	7.8	10.1	12.4	15.8	4.8	12.0
11	11.2	10.8	9.5	7.7	9.8	12.3	10.4	12.2	13.3	13.4	14.1	13.1	10.9	11.5	12.1	14.4	14.1	13.9	14.2	12.4	11.6	13.2	12.2	11.4	14.4	7.7	12.1
12	9.0	9.2	8.0	8.0	11.8	11.2	12.7	13.1	17.0	16.9	21.7	27.1	27.1	21.3	16.4	16.4	23.5	25.8	28.1	23.0	21.7	18.5	14.7	13.3	28.1	8.0	17.3
13	6.9	3.6	4.0	4.6	4.3	2.9	2.0	5.5	6.4	6.0	5.2	8.0	8.0	9.3	8.5	8.6	7.5	11.1	9.8	11.6	9.1	6.9	7.4	7.2	11.6	2.0	6.9
14	9.5	10.5	13.5	9.7	8.8	9.6	7.1	11.7	9.8	8.4	8.3	10.0	11.1	9.7	8.7	7.9	7.9	7.3	7.6	8.6	10.2	10.7	11.3	11.2	13.5	7.1	9.5
15	11.2	11.9	9.7	10.7	12.2	10.8	11.3	12.1	14.4	9.7	5.5	9.4	8.2	8.6	9.4	14.8	12.0	10.6	10.2	14.7	11.2	9.2	8.4	6.8	14.8	5.5	10.5
16	6.6	5.9	5.6	5.2	5.4	5.0	3.2	2.9	2.9	2.8	2.1	2.2	4.1	4.1	2.8	4.3	6.1	5.0	6.5	7.3	6.0	6.0	6.5	6.5	7.3	2.1	4.8
17	9.1	8.8	9.1	9.2	9.0	11.1	12.2	14.3	17.2	17.2	14.1	12.8	15.0	11.4	12.7	11.8	11.0	9.2	11.2	11.4	14.5	12.6	14.2	12.2	17.2	8.8	12.1
18	12.7	9.8	8.2	8.2	7.0	7.3	9.2	7.8	11.5	13.7	18.2	9.2	7.6	9.1	4.2	7.8	6.6	6.5	6.5	6.8	7.3	6.8	6.4	6.1	18.2	4.2	8.5
19	4.6	17.8	25.7	23.6	15.4	11.9	11.1	14.9	16.8	13.2	16.0	16.2	15.4	9.8	13.4	13.0	19.3	23.9	25.6	23.0	16.5	19.1	12.8	13.3	25.7	4.6	16.3
20	10.8	13.9	12.1	10.5	7.3	7.7	7.8	10.4	11.5	15.1	9.8	8.9	9.5	20.0	16.2	16.7	22.1	26.7	32.0	28.7	24.9	26.8	30.3	31.0	32.0	7.3	17.1
21	25.7	19.3	18.7	14.7	17.8	21.0	17.7	18.9	22.6	16.2	14.6	13.9	18.4	17.8	14.8	14.6	11.0	10.2	9.6	9.3	10.6	10.2	13.7	12.4	25.7	9.3	15.6
22	11.2	12.2	10.0	7.3	7.2	7.6	17.2	17.8	11.2	10.4	11.2	14.7	10.3	9.6	7.7	5.8	6.8	6.4	6.0	15.6	9.1	9.6	8.2	8.0	17.8	5.8	10.0
23	5.6	5.1	4.7	3.4	1.7	3.7	3.4	5.2	3.7	11.7	16.1	12.6	13.2	11.9	13.3	7.9	9.2	13.1	10.3	6.3	7.9	8.0	8.6	9.0	16.1	1.7	8.2
24	7.4	8.1	9.9	9.0	8.2	7.8	8.5	7.6	10.0	9.4	8.9	9.3	6.0	5.0	4.9	4.5	4.0	4.2	8.3	6.7	6.8	7.1	5.8	4.8	10.0	4.0	7.2
25	4.8	4.6	5.2	3.3	3.3	3.3	2.5	1.8	1.5	4.8	4.0	1.5	7.5	4.4	19.4	10.6	13.5	13.7	17.0	18.7	21.9	20.2	12.7	12.7	21.9	1.5	8.9
26	19.5	13.1	16.8	12.0	12.5	12.2	8.6	10.5	7.3	8.4	7.8	9.9	9.7	12.0	7.8	8.9	7.9	8.2	5.6	3.0	2.7	5.5	5.7	8.0	19.5	2.7	9.3
27	8.8	9.0	10.1	9.8	9.1	7.1	4.0	11.1	13.8	7.9	8.7	7.6	6.9	5.0	10.1	8.6	9.3	11.5	13.5	14.7	11.7	11.1	11.1	11.9	14.7	4.0	9.7
28	14.2	17.3	15.9	15.4	17.3	17.7	17.2	17.8	19.2	14.9	12.6	15.7	18.5	20.4	22.8	25.6	23.6	22.8	20.6	26.9	20.6	17.5	17.0	16.4	26.9	12.6	18.7
Max.	**25.7**	**24.7**	**25.7**	**23.6**	**22.6**	**23.7**	**22.9**	**25.3**	**24.6**	**24.4**	**23.8**	**27.1**	**27.1**	**28.1**	**27.5**	**27.2**	**25.8**	**26.7**	**32.0**	**28.7**	**24.9**	**26.8**	**30.3**	**31.0**	**32.0**		
Min.	**4.0**	**3.6**	**4.0**	**3.3**	**1.7**	**2.7**	**2.0**	**1.8**	**1.5**	**2.8**	**2.1**	**1.5**	**4.1**	**4.1**	**2.8**	**4.3**	**4.0**	**4.0**	**4.4**	**3.0**	**2.7**	**4.2**	**4.1**	**2.9**		**1.5**	
Avg.	**12.2**	**12.3**	**12.1**	**11.2**	**11.1**	**11.4**	**11.4**	**12.6**	**13.4**	**13.0**	**12.4**	**12.7**	**12.9**	**12.9**	**13.1**	**12.5**	**12.7**	**13.2**	**13.5**	**13.7**	**12.7**	**12.5**	**12.6**	**12.4**			**12.5**

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	19.6	13.4	8.0	12.0	11.8	11.5	11.5	11.2	7.3	8.7	8.2	6.6	6.7	6.1	4.5	3.7	5.2	5.9	8.5	8.9	7.8	9.0	10.0	9.0	19.6	3.7	9.0
2	5.6	8.8	9.3	8.8	10.0	10.2	10.8	11.8	12.0	12.0	12.0	11.0	11.2	12.2	10.8	11.4	13.1	11.3	11.7	11.3	11.5	12.4	11.5	12.2	13.1	5.6	10.9
3	11.9	11.2	10.5	9.4	11.3	10.9	10.0	10.5	11.1	10.7	9.9	8.0	8.7	8.0	7.6	7.3	5.5	4.6	5.5	5.9	6.4	6.8	6.0	7.0	11.9	4.6	8.5
4	6.7	6.8	7.3	8.3	7.6	7.2	7.9	8.3	8.7	7.8	7.2	7.0	8.5	8.9	9.5	8.0	7.9	8.3	8.1	7.9	8.1	8.3	8.4	8.2	9.5	6.7	7.9
5	8.5	8.2	10.1	9.5	10.2	9.4	9.5	3.9	7.5	3.8	4.2	10.8	10.7	9.5	7.6	6.3	7.5	11.2	14.0	15.9	12.6	10.8	9.0	10.6	15.9	3.8	9.2
6	15.8	13.9	16.4	13.6	15.3	11.3	10.6	19.9	23.2	21.2	21.5	15.6	17.0	13.0	12.6	11.7	10.4	8.6	6.8	5.8	7.5	7.9	8.4	8.8	23.2	5.8	13.2
7	9.0	8.5	8.5	9.5	9.8	7.9	9.3	10.7	16.2	17.1	18.4	18.3	16.2	15.7	18.1	18.6	20.3	22.8	24.8	36.0	22.7	24.8	26.1	25.0	36.0	7.9	17.3
8	28.1	30.0	27.8	26.4	29.9	34.0	34.0	35.8	32.7	29.5	28.8	26.2	27.2	25.3	30.2	30.1	31.9	37.4	30.3	21.9	29.9	21.0	18.4	17.7	37.4	17.7	28.5
9	24.9	24.2	22.8	21.6	38.1	35.9	24.9	31.7	21.9	32.9	31.6	27.6	26.7	27.6	26.7	21.9	20.5	22.4	17.3	20.1	19.3	18.4	18.2	16.1	38.1	16.1	24.7
10	11.1	9.9	9.2	9.8	9.7	10.0	10.8	5.5	7.6	6.3	6.0	4.7	4.1	3.8	4.2	3.0	3.3	6.9	8.2	7.0	7.9	8.7	9.2	8.7	11.1	3.0	7.3
11	9.2	8.8	13.1	13.5	11.6	13.5	11.6	12.6	13.6	14.4	13.3	13.3	11.3	12.6	12.3	10.9	10.6	12.6	12.1	13.3	12.9	11.9	11.4	10.0	14.4	8.8	12.1
12	14.8	13.1	13.6	13.5	12.6	12.1	10.8	10.1	9.0	8.1	8.7	10.3	10.1	10.8	11.4	10.2	8.8	8.2	8.2	7.3	6.8	5.6	4.7	4.3	14.8	4.3	9.7
13	4.9	4.0	2.8	2.2	2.5	3.0	3.1	3.8	2.9	3.3	6.0	7.1	4.4	4.0	3.4	3.2	3.2	2.8	2.8	2.9	2.3	2.1	3.4	2.9	7.1	2.1	3.5
14	2.9	3.8	3.5	4.0	4.4	4.0	3.5	4.2	5.7	6.0	6.1	4.1	5.1	4.6	5.6	6.2	3.7	6.1	6.4	5.7	6.8	7.0	7.0	4.6	7.0	2.9	5.1
15	6.2	6.4	6.3	7.3	7.1	7.6	6.8	5.8	5.3	6.4	4.0	2.9	2.3	2.2	2.2	2.5	3.9	3.7	5.6	4.3	5.0	6.2	7.9	7.8	7.9	2.2	5.2
16	6.9	9.6	8.8	7.8	7.8	7.9	8.1	9.2	10.3	10.7	10.5	9.1	9.5	9.0	6.9	8.4	8.2	5.2	6.9	7.0	7.3	8.1	9.0	7.1	10.7	5.2	8.3
17	7.3	7.4	6.3	8.1	8.4	8.1	7.6	8.6	8.4	8.3	8.7	11.9	12.7	13.3	11.0	11.2	10.2	10.6	11.3	9.7	10.3	11.4	11.2	10.7	13.3	6.3	9.7
18	12.4	15.4	13.8	13.0	12.0	11.8	12.3	11.5	11.8	10.4	12.1	13.1	13.8	14.3	12.3	10.4	7.9	6.0	4.0	1.8	1.4	1.7	0.9	1.7	15.4	0.9	9.4
19	3.5	2.8	3.5	3.8	3.1	3.0	4.6	4.8	5.0	5.1	4.2	3.0	3.4	4.2	7.5	6.5	5.8	4.6	4.5	3.2	2.0	4.4	6.1	6.1	7.5	2.0	4.4
20	5.7	5.6	5.2	5.3	6.4	6.6	6.0	5.0	4.0	4.8	3.7	2.1	3.6	4.9	5.1	9.6	9.9	8.9	11.7	12.3	11.5	12.4	11.8	11.6	12.4	2.1	7.2
21	11.9	11.8	11.1	8.9	8.4	10.0	8.0	7.9	5.4	5.5	7.7	7.0	3.6	4.4	2.9	4.1	6.6	7.7	6.6	7.9	7.4	7.9	7.2	9.5	11.9	2.9	7.5
22	11.8	12.8	12.6	12.6	12.4	14.4	15.7	15.2	20.6	16.4	13.8	11.4	12.6	10.4	9.3	8.0	5.3	5.3	2.2	4.2	7.4	8.4	7.9	7.1	20.6	2.2	10.7
23	8.1	5.3	4.8	3.3	3.1	3.5	4.9	7.7	8.3	9.9	8.1	10.7	8.4	9.2	3.8	5.1	7.9	15.4	16.9	16.2	14.7	17.3	16.4	11.9	17.3	3.1	9.2
24	11.3	11.6	13.1	12.7	11.7	11.9	11.6	11.0	11.4	11.6	10.2	7.6	4.4	3.5	5.2	6.0	4.2	6.3	6.9	9.0	9.7	9.4	8.6	8.0	13.1	3.5	9.0
25	8.0	7.5	7.3	5.2	7.9	7.4	8.0	7.7	7.7	8.0	9.3	2.7	1.9	3.1	3.0	2.5	4.0	6.3	6.2	9.0	8.3	8.0	9.3	10.6	10.6	1.9	6.6
26	9.2	10.6	10.6	10.8	10.2	10.3	10.8	12.1	11.2	11.2	9.1	7.1	2.9	3.3	3.1	3.9	3.9	4.3	2.0	8.9	7.3	8.6	6.9	7.0	12.1	2.0	7.7
27	7.0	6.1	5.9	5.1	5.7	5.5	3.6	3.9	4.3	2.5	2.4	3.4	3.6	3.8	4.3	3.9	3.9	3.8	3.2	2.7	2.3	2.1	4.8	4.6	7.0	2.1	4.1
28	3.7	4.8	4.6	5.7	5.3	5.6	5.7	5.2	5.7	3.6	1.8	3.3	4.5	4.5	4.7	3.9	4.0	3.7	5.4	3.5	2.1	1.8	2.6	6.1	6.1	1.8	4.2
29	9.7	7.2	5.7	5.8	6.6	7.6	6.1	7.1	5.3	5.7	4.0	3.3	1.9	5.3	5.9	6.7	6.9	1.9	3.1	2.6	1.7	1.8	4.4	5.0	9.7	1.7	5.0
30	6.7	5.3	7.0	7.5	7.2	10.6	9.8	10.8	10.9	11.6	10.9	12.9	12.1	22.1	13.5	14.5	12.5	14.9	12.3	15.9	12.7	16.7	18.8	13.5	22.1	5.3	12.1
31	17.8	17.2	14.8	17.2	16.5	12.4	16.3	17.4	11.4	14.1	11.2	11.3	14.5	12.3	12.3	11.6	10.4	9.7	7.3	6.5					17.8	6.5	13.1
Max.	**28.1**	**30.0**	**27.8**	**26.4**	**38.1**	**35.9**	**34.0**	**35.8**	**32.7**	**32.9**	**31.6**	**27.6**	**27.2**	**27.6**	**30.2**	**30.1**	**31.9**	**37.4**	**30.3**	**36.0**	**29.9**	**24.8**	**26.1**	**25.0**	**38.1**		
Min.	**2.9**	**2.8**	**2.8**	**2.2**	**2.5**	**3.0**	**3.1**	**3.8**	**2.9**	**2.5**	**1.8**	**2.1**	**1.9**	**2.2**	**2.2**	**2.5**	**3.2**	**1.9**	**2.0**	**1.8**	**1.4**	**1.7**	**0.9**	**1.7**		**0.9**	
Avg.	**10.3**	**10.1**	**9.8**	**9.7**	**10.5**	**10.5**	**10.1**	**10.7**	**10.5**	**10.6**	**10.1**	**9.5**	**9.1**	**9.4**	**9.0**	**8.7**	**8.6**	**9.3**	**9.1**	**9.5**	**9.1**	**9.4**	**9.5**	**9.1**			**9.7**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1					10.4	10.3	12.1	14.4	15.9	15.4	15.8	16.9	16.6	23.4	20.9	16.7	14.3	16.2	13.7	14.8	13.2	11.6	17.4	13.7	23.4	10.3	15.2
2	10.3	13.9	15.1	15.0	16.3	14.4	9.9	10.7	8.1	6.6	7.3	3.2	3.2	3.0	3.7	4.2	4.3	3.5	3.0	4.4	5.6	6.7	7.1	8.6	16.3	3.0	7.8
3	9.2	9.2	9.0	9.6	10.0	10.3	10.4	11.0	11.0	12.7	11.8	11.4	12.4	11.6	12.3	12.2	10.6	9.2	8.3	8.4	8.4	9.2	9.5	9.8	12.7	8.3	10.3
4	10.0	8.3	8.4	6.6	6.8	7.9	7.1	7.3	7.9	7.5	6.0	5.6	2.8	2.0	2.2	2.1	2.4	1.8	1.7	1.9	2.4	2.6	2.8	2.4	10.0	1.7	4.9
5	5.7	11.5	10.5	11.7	8.3	7.8	11.0	13.1	15.1	13.0	16.7	18.1	18.4	19.8	18.3	18.1	13.8	19.4	20.4	28.4	24.2	22.3	21.3	20.4	28.4	5.7	16.1
6	15.8	17.0	15.7	10.5	9.5	11.5	11.5	10.2	11.5	10.4	4.9	4.4	4.4	5.2	4.7	4.6	4.6	4.4	3.2	3.7	5.1	3.2	2.0	2.6	17.0	2.0	7.5
7	3.7	2.3	5.5	4.8	3.2	6.7	5.4	5.3	5.3	4.0	3.9	4.4	2.8	2.6	2.7	3.1	6.2	3.6	4.3	4.4	3.4	7.2	7.0	7.3	7.3	2.3	4.5
8	10.1	15.0	10.0	9.4	10.8	9.1	9.5	10.0	11.9	7.2	10.2	7.1	6.6	11.7	8.5	8.3	9.3	8.6	6.6	5.6	4.7	4.1	2.6	3.7	15.0	2.6	8.4
9	1.8	1.3	2.1	3.2	2.8	2.1	3.4	3.9	3.2	4.2	3.6	2.2	2.8	4.9	5.2	4.9	6.4	4.8	2.1	2.7	3.7	10.0	8.5	13.6	13.6	1.3	4.3
10	14.4	20.3	16.2	14.7	12.2	16.0	14.6	14.7	17.8	16.2	25.0	22.8	18.7	22.7	25.2	29.1	23.7	23.6	11.5	9.9	21.2	21.3	18.7	17.3	29.1	9.9	18.7
11	15.2	14.9	14.0	14.4	11.9	11.5	8.2	6.5	6.5	4.6	5.8	4.7	5.9	9.1	11.7	12.4	12.9	13.1	11.8	12.4	12.9	13.2	14.5	12.3	15.2	4.6	10.9
12	12.3	13.1	11.9	11.5	11.6	13.0	12.5	11.6	10.7	11.0	12.1	11.7	10.0	9.3	7.3	5.0	1.4	0.9	1.6	4.0	4.0	12.7	15.4	16.3	16.3	0.9	9.6
13	18.7	18.1	18.4	18.8	18.2	18.0	16.2	22.7	22.4	19.3	20.8	20.8	24.0	26.0	27.9	28.4	33.4	29.3	19.3	20.8	21.5	20.1	18.6	17.8	33.4	16.2	21.6
14	17.6	17.8	16.6	16.1	16.9	19.8	18.5	17.9	17.8	19.5	20.7	18.2	21.3	18.7	19.5	22.2	16.6	18.3	15.6	16.1	16.4	21.7	18.6	17.0	22.2	15.6	18.3
15	15.5	18.0	14.0	15.3	13.2	12.7	10.5	14.2	18.5	19.0	19.3	23.6	20.7	17.2	18.3	15.1	12.6	13.7	10.3	9.9	7.6	7.3	5.7	8.8	23.6	5.7	14.2
16	6.0	7.6	5.8	5.7	10.0	10.8	12.9	13.2	13.5	12.3	12.0	13.9	13.4	11.6	15.6	18.9	15.1	16.0	16.6	16.7	17.0	19.6	18.0	17.4	19.6	5.7	13.3
17	16.2	16.7	16.1	17.3	18.0	14.3	14.3	9.5	5.2	9.3	9.4	6.9	7.3	9.4	8.8	8.3	6.9	8.3	8.7	8.4	5.3	3.8	3.6	9.4	18.0	3.6	10.1
18	5.1	6.9	4.8	3.7	2.9	2.8	3.7	3.3	3.4	2.7	2.5	3.1	4.3	4.1	5.4	6.7	3.0	2.3	2.4	8.0	8.5	9.2	8.0	9.4	9.4	2.3	4.8
19	13.9	13.5	14.7	14.7	15.8	17.0	16.4	14.0	9.1	10.5	9.5	8.5	6.6	6.1	2.7	4.4	4.2	3.7	1.3	1.8	6.0	5.9	5.1	5.3	17.0	1.3	8.8
20	4.3	3.2	4.2	5.1	6.5	5.7	5.3	5.4	5.8	6.3	7.8	6.6	7.4	5.6	6.7	7.0	10.3	10.7	7.7	8.2	9.7	11.2	10.1	9.9	11.2	3.2	7.1
21	10.7	12.0	12.3	13.0	13.0	13.2	17.2	14.1	17.4	15.8	14.5	13.5	11.5	9.8	7.5	6.0	7.0	3.8	4.7	6.2	6.4	7.4	6.4	7.1	17.4	3.8	10.4
22	6.0	7.2	7.0	7.2	7.1	6.4	5.3	4.8	4.4	5.4	2.6	2.7	2.2	2.7	2.7	3.0	3.0	2.8	2.5	3.0	2.7	2.8	3.5	5.0	7.2	2.2	4.2
23	4.4	5.8	6.9	6.7	6.3	7.6	6.9	5.2	4.8	4.4	5.7	6.6	5.5	6.0	2.8	4.9	5.9	3.7	2.9	9.2	11.7	10.1	10.9	12.4	12.4	2.8	6.5
24	10.2	7.7	4.3	4.9	8.9	12.1	16.8	10.1	5.4	19.3	12.3	16.2	17.0	21.0	23.3	16.2	14.8	13.6	20.8	26.5	22.0	15.8	19.8	16.0	26.5	4.3	14.8
25	14.1	10.6	3.7	8.2	5.5	6.2	5.3	5.8	6.0	5.5	6.1	7.1	7.3	6.8	7.8	7.4	9.2	8.6	9.5	7.9	8.8	8.0	9.0	8.3	14.1	3.7	7.6
26	10.8	10.2	10.5	9.9	10.8	12.8	12.1	10.7	11.0	13.1	11.1	11.1	10.8	10.9	9.9	10.1	9.7	8.7	7.8	8.3	8.4	8.5	6.5	7.4	13.1	6.5	10.0
27	8.4	7.7	8.0	9.2	9.1	9.3	9.4	9.8	9.2	8.1	7.2	6.4	6.1	4.3	2.7	3.7	3.4	4.0	2.9	2.9	1.9	3.7	4.7	4.8	9.8	1.9	6.1
28	7.7	7.5	7.9	6.8	4.6	4.4	6.8	4.5	4.9	3.8	3.0	2.5	3.0	4.3	4.1	3.9	4.0	3.1	3.0	1.5	1.8	2.9	3.1	3.2	7.9	1.5	4.3
29	3.1	9.6	12.6	12.4	14.0	14.4	14.5	15.1	16.2	13.9	10.8	10.2	8.5	4.7	8.0	8.7	8.7	8.7	9.0	8.5	9.2	7.7	6.8	6.3	16.2	3.1	10.1
30	5.0	4.3	5.4	4.0	7.2	7.7	8.5	8.6	6.0	7.8	7.3	5.5	3.9	6.0	5.8	5.4	4.1	6.8	2.1	5.0	5.8	7.8	6.3	7.5	8.6	2.1	6.0
Max.	**18.7**	**20.3**	**18.4**	**18.8**	**18.2**	**19.8**	**18.5**	**22.7**	**22.4**	**19.5**	**25.0**	**23.6**	**24.0**	**26.0**	**27.9**	**29.1**	**33.4**	**29.3**	**20.8**	**28.4**	**24.2**	**22.3**	**21.3**	**20.4**	**33.4**		
Min.	**1.8**	**1.3**	**2.1**	**3.2**	**2.8**	**2.1**	**3.4**	**3.3**	**3.2**	**2.7**	**2.5**	**2.2**	**2.2**	**2.0**	**2.2**	**2.1**	**1.4**	**0.9**	**1.3**	**1.5**	**1.8**	**2.6**	**2.0**	**2.4**		**0.9**	
Avg.	**9.9**	**10.7**	**10.1**	**10.0**	**10.1**	**10.5**	**10.5**	**10.3**	**10.2**	**10.3**	**10.2**	**9.9**	**9.5**	**10.0**	**10.1**	**10.0**	**9.4**	**9.2**	**7.8**	**9.0**	**9.3**	**9.9**	**9.7**	**10.0**			**9.9**

Total Hours in Month 720 **Hours Data Available** 716 **Data Recovery** 99.4%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	7.0	6.2	6.4	8.6	9.2	9.1	8.2	10.6	12.8	14.4	12.7	15.4	16.5	15.4	17.7	16.0	16.5	19.0	19.9	21.2	22.0	17.5	16.6	16.8	22.0	6.2	14.0
2	17.1	15.8	14.9	14.3	13.1	14.4	14.1	13.9	11.0	11.9	13.2	12.7	10.7	9.5	8.4	7.6	7.6	6.7	6.8	5.4	5.6	6.0	5.9	6.9	17.1	5.4	10.6
3	7.0	8.3	6.3	5.8	7.1	9.7	8.2	7.8	10.7	11.5	14.7	15.5	15.0	13.9	11.3	7.6	9.9	8.9	8.2	7.6	8.7	8.5	9.8	10.6	15.5	5.8	9.7
4	11.1	13.3	12.7	9.7	7.2	7.2	7.7	9.5	7.5	6.2	5.3	6.0	5.3	6.2	6.8	6.9	6.8	8.6	8.7	8.6	10.5	10.4	9.2	12.0	13.3	5.3	8.5
5	11.5	10.6	11.0	15.7	12.5	11.6	12.5	13.5	16.2	13.6	13.1	13.1	12.3	9.0	6.6	5.6	5.1	4.9	3.6	2.2	2.6	5.4	3.8	5.8	16.2	2.2	9.2
6	5.2	2.0	2.5	1.9	2.5	1.9	1.3	2.0	2.0	1.5	1.8	1.8	2.2	1.8	6.9	10.5	11.6	13.6	14.7	17.4	16.5	16.9	21.0	20.0	21.0	1.3	7.5
7	18.5	19.1	20.9	24.3	25.2	22.7	19.8	21.7	22.5	17.9	17.8	18.3	18.6	19.6	18.9	18.8	22.0	21.9	13.7	16.0	16.2	17.8	14.3	13.2	25.2	13.2	19.1
8	9.7	9.8	7.8	7.0	3.3	4.1	5.6	5.9	7.0	8.3	7.8	8.6	11.0	11.2	11.5	11.3	10.8	11.3	11.5	12.2	12.2	12.2	13.2	15.6	15.6	3.3	9.5
9	14.5	14.9	15.0	17.6	16.5	15.1	15.5	16.2	18.0	17.8	17.0	17.5	17.3	16.1	15.9	16.4	16.4	14.7	14.6	14.3	13.1	10.1	10.4	10.8	18.0	10.1	15.2
10	12.4	11.4	15.9	11.1	10.0	6.2	8.3	7.8	6.9	6.2	7.2	5.2	3.5	5.2	2.1	2.4	4.4	3.2	2.8	4.4	3.7	2.0	4.8	4.5	15.9	2.0	6.3
11	2.1	4.9	6.0	5.5	2.4	3.2	3.6	5.5	3.9	3.4	3.5	3.2	2.2	2.2	2.5	3.8	3.4	3.3	2.2	2.4	9.5	5.8	7.6	6.5	9.5	2.1	4.1
12	7.1	7.2	5.5	4.8	5.8	5.1	6.3	7.7	7.7	8.4	7.3	5.3	3.5	11.1	10.5	9.9	9.4	3.9	2.2	2.2	2.2	4.0	5.4	5.9	11.1	2.2	6.2
13	5.3	4.5	4.5	4.0	3.9	5.1	6.3	7.8	9.2	8.5	5.2	5.7	4.5	4.3	2.3	4.3	3.8	2.7	2.1	1.3	4.9	3.3	2.5	2.3	9.2	1.3	4.5
14	1.1	1.9	2.0	3.2	3.7	4.2	4.4	5.1	2.9	5.4	5.7	5.1	3.9	4.9	5.1	4.2	4.4	4.8	4.0	4.3	3.8	2.9	3.0	4.4	5.7	1.1	3.9
15	3.7	2.6	3.1	2.3	3.3	1.9	2.5	3.4	4.3	2.4	2.1	4.5	4.1	5.7	6.2	7.2	7.2	7.1	5.8	4.2	3.3	2.3	3.4	2.3	7.2	1.9	3.9
16	2.5	10.5	9.7	10.6	12.3	10.3	10.7	8.0	5.1	5.0	6.0	4.2	4.6	5.4	4.4	5.1	6.4	5.6	6.4	4.4	2.1	1.9	2.2	1.5	12.3	1.5	6.0
17	2.5	3.7	5.5	5.6	6.0	6.1	7.9	8.5	9.7	9.6	9.3	8.6	6.2	4.4	5.6	5.3	4.8	4.4	3.0	3.4	3.3	3.2	2.7	2.2	9.7	2.2	5.5
18	2.8	3.6	3.8	3.7	3.1	3.0	3.6	2.9	4.9	6.7	4.5	6.9	8.6	14.5	14.6	17.9	17.1	19.1	17.8	17.3	11.7	15.4	16.8	19.8	19.8	2.8	10.0
19	20.2	17.7	17.0	14.7	8.9	11.3	6.2	5.5	6.3	4.8	3.9	2.9	4.2	6.8	6.9	4.8	7.2	8.4	9.8	12.1	11.7	8.7	7.6	8.6	20.2	2.9	9.0
20	9.2	10.7	11.0	10.8	9.2	10.0	9.9	9.4	9.2	9.9	10.4	9.8	8.6	9.7	11.1	10.4	8.6	9.1	5.2	3.8	1.9	4.0	2.9	6.0	11.1	1.9	8.3
21	6.6	4.4	7.0	7.1	8.4	5.8	7.0	7.1	10.6	11.7	10.4	11.4	12.1	10.4	10.6	12.3	12.4	11.1	9.3	12.7	11.7	12.8	12.8	14.1	14.1	4.4	10.0
22	13.1	11.1	7.9	6.9	9.5	8.7	8.7	8.4	8.5	7.2	6.8	5.0	9.0	10.2	9.8	9.8	12.6	11.7	11.9	9.1	5.4	4.8	4.0	4.4	13.1	4.0	8.5
23	4.6	5.4	4.3	2.6	2.6	3.7	7.2	7.8	2.4	3.0	5.7	3.2	5.1	6.2	6.4	3.4	3.7	2.7	2.5	1.3	2.7	5.4	5.6	5.5	7.8	1.3	4.3
24	6.3	6.3	5.7	5.4	2.5	6.6	3.6	3.8	3.2	3.1	3.7	3.8	5.1	4.4	2.5	2.5	3.8	2.1	0.9	1.3	3.0	4.1	4.4	4.3	6.6	0.9	3.9
25	4.0	4.5	4.2	1.4	2.6	3.9	3.3	2.2	2.5	3.7	2.8	2.1	2.6	2.5	3.5	2.9	2.7	2.6	1.4	1.2	2.9	4.3	5.4	6.3	6.3	1.2	3.1
26	5.8	5.9	5.0	4.6	5.1	4.5	6.0	6.4	6.9	5.7	2.5	2.5	3.1	3.1	2.4	5.1	2.5	2.4	2.9	3.1	3.9	4.5	6.2	6.7	6.9	2.4	4.5
27	6.6	4.7	3.3	2.9	3.9	3.4	3.7	3.9	5.1	4.1	3.0	2.2	3.1	2.5	3.3	3.2	3.4	3.0	2.6	2.6	4.1	6.6	6.1	6.4	6.6	2.2	3.9
28	6.0	6.0	5.4	6.4	5.3	7.1	6.5	2.2	6.8	5.9	7.3	9.5	6.7	6.1	6.0	5.8	5.1	3.9	2.5	2.4	1.8	2.0	4.4	4.0	9.5	1.8	5.2
29	2.1	2.1	3.3	5.0	3.3	6.4	5.6	5.8	7.4	3.6	2.8	3.4	2.6	3.4	3.1	3.4	4.5	4.6	3.4	4.1	2.0	3.3	2.8	2.6	7.4	2.0	3.8
30	3.0	3.3	2.5	2.6	2.2	3.0	4.5	6.2	4.8	4.5	1.7	2.4	1.8	2.8	4.4	2.5	2.3	3.2	2.7	4.5	2.8	1.8	2.1	2.3	6.2	1.7	3.1
31	2.5	4.4	3.8	4.6	4.4	2.4	3.1	2.5	1.9	2.6	2.5	3.5	3.1	3.4	3.9	4.3	3.2	2.9	3.8	3.0	2.8	2.7	1.6	2.2	4.6	1.6	3.1
Max.	**20.2**	**19.1**	**20.9**	**24.3**	**25.2**	**22.7**	**19.8**	**21.7**	**22.5**	**17.9**	**17.8**	**18.3**	**18.6**	**19.6**	**18.9**	**18.8**	**22.0**	**21.9**	**19.9**	**21.2**	**22.0**	**17.8**	**21.0**	**20.0**	**25.2**		
Min.	**1.1**	**1.9**	**2.0**	**1.4**	**2.2**	**1.9**	**1.3**	**2.0**	**1.9**	**1.5**	**1.7**	**1.8**	**1.8**	**1.8**	**2.1**	**2.4**	**2.3**	**2.1**	**0.9**	**1.2**	**1.8**	**1.8**	**1.6**	**1.5**		**0.9**	
Avg.	**7.5**	**7.6**	**7.5**	**7.4**	**6.9**	**7.0**	**7.1**	**7.4**	**7.7**	**7.4**	**7.0**	**7.1**	**7.0**	**7.5**	**7.5**	**7.5**	**7.7**	**7.5**	**6.7**	**6.8**	**6.7**	**6.8**	**7.0**	**7.6**			**7.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	2.8	2.8	6.7	9.2	7.9	4.6	3.7	4.4	2.8	2.3	2.1	3.4	5.2	5.4	4.8	4.1	3.2	2.6	1.6	2.3	2.0	1.8	4.6	6.5	9.2	1.6	4.0
2	10.9	8.3	6.1	4.4	4.4	4.8	6.8	6.0	6.2	7.0	7.0	5.9	4.9	8.6	8.1	13.2	10.0	7.9	4.4	4.4	4.0	5.2	4.0	2.8	13.2	2.8	6.5
3	3.2	2.7	4.0	14.6	11.1	17.4	18.6	19.9	20.2	15.7	19.0	18.9	18.5	13.1	12.4	15.0	14.8	11.5	8.9	11.1	17.4	14.0	11.7	14.2	20.2	2.7	13.7
4	12.9	12.1	13.1	7.7	5.9	6.3	6.0	5.0	4.0	1.9	6.9	5.7	5.2	4.9	5.1	5.3	5.3	5.8	4.7	4.5	4.0	3.3	3.9	5.3	13.1	1.9	6.0
5	5.5	5.2	5.3	3.1	4.8	3.7	4.1	2.7	2.2	4.5	6.1	5.0	4.7	4.6	4.8	5.5	5.1	3.9	4.0	3.5	3.3	2.7	2.9	4.2	6.1	2.2	4.2
6	4.4	4.4	3.4	2.5	3.1	3.3	3.2	2.2	4.4	7.2	4.3	4.1	4.1	3.0	3.8	3.8	3.6	4.8	3.9	5.7	2.7	4.6	4.3	5.5	7.2	2.2	4.0
7	7.9	7.3	7.9	8.3	7.4	5.9	6.7	6.0	7.3	8.1	6.0	6.4	6.9	5.2	6.1	5.4	5.2	6.1	7.2	6.8	7.5	10.0	7.9	8.1	10.0	5.2	7.0
8	9.2	8.6	7.1	8.8	9.2	7.6	8.1	8.6	8.6	9.2	10.6	11.7	10.8	9.7	10.9	12.4	11.5	12.6	10.8	10.0	13.8	11.6	10.8	12.9	13.8	7.1	10.2
9	13.0	14.9	13.3	14.8	13.9	18.4	13.5	14.8	14.3	14.2	15.7	14.3	15.3	12.4	12.3	11.5	12.9	9.2	10.8	11.5	11.0	11.7	8.6	9.4	18.4	8.6	13.0
10	9.9	7.9	6.9	5.8	6.1	7.6	12.9	9.7	10.9	6.8	5.4	7.7	7.2	11.3	11.4	9.2	9.7	13.2	8.7	12.9	8.9	12.3	12.5	11.9	13.2	5.4	9.4
11	11.6	10.2	7.3	6.6	6.4	7.6	9.9	9.3	9.9	9.5	9.9	10.3	10.2	10.1	8.4	8.4	9.5	9.5	9.5	11.7	10.8	10.9	10.0	10.0	11.7	6.4	9.5
12	9.4	10.4	9.0	9.1	8.3	7.8	8.7	7.1	6.2	7.3	5.0	2.7	2.2	2.3	2.1	1.7	4.1	3.9	2.9	3.0	3.9	4.5	5.4	3.8	10.4	1.7	5.5
13	3.8	4.7	4.3	5.3	4.5	1.8	1.9	3.4	2.7	1.2	2.1	2.5	3.9	3.8	3.3	4.4	4.7	4.6	2.4	2.7	2.6	2.1	1.4	1.9	5.3	1.2	3.2
14	1.1	2.7	2.9	3.8	1.5	1.1	1.6	1.9	1.5	2.4	2.4	2.0	2.7	2.9	2.2	2.0	4.5	5.1	4.0	3.3	2.4	3.1	4.0	3.4	5.1	1.1	2.7
15	4.4	4.4	5.8	3.8	2.9	2.6	4.2	3.7	4.1	1.5	3.3	3.6	3.7	5.3	3.4	2.0	2.7	2.7	2.1	2.2	2.0	1.1	1.5	1.0	5.8	1.0	3.1
16	2.1	3.6	2.8	4.5	4.9	4.8	3.9	5.1	4.6	2.9	2.2	3.5	2.5	2.7	2.9	3.7	3.3	3.5	1.4	1.4	2.5	5.4	5.1	5.6	5.6	1.4	3.6
17	5.8	5.2	5.1	4.1	3.7	4.4	4.2	4.4	5.1	6.5	6.3	5.8	6.1	6.1	6.0	5.3	7.7	7.8	8.0	8.7	5.7	2.8	4.8	5.2	8.7	2.8	5.6
18	4.7	2.8	5.1	4.7	7.1	6.3	7.4	8.0	13.2	10.8	10.6	8.6	9.0	10.0	8.9	8.7	8.1	7.6	7.6	7.3	7.6	6.9	7.1	6.8	13.2	2.8	7.7
19	7.9	6.8	8.9	9.6	11.5	10.3	9.6	9.7	9.3	8.1	9.6	6.4	7.3	7.2	5.9	4.9	8.3	10.5	6.1	4.4	4.1	2.5	6.1	4.8	11.5	2.5	7.5
20	6.1	6.6	4.3	3.2	3.0	2.1	2.6	6.8	7.6	5.3	5.6	6.2	10.3	7.3	5.3	5.5	6.4	3.7	2.8	3.2	3.1	2.8	2.4	1.8	10.3	1.8	4.7
21	3.5	4.7	4.0	3.6	3.4	3.5	4.3	3.9	3.7	2.8	2.9	3.4	2.9	4.4	4.3	4.6	4.8	5.0	5.3	5.3	6.9	4.9	4.9	3.1	6.9	2.8	4.2
22	4.7	4.9	3.4	3.0	3.3	5.1	4.7	2.5	3.8	3.1	2.4	2.3	3.4	6.9	5.9	2.8	2.6	5.8	8.2	4.2	3.6	3.1	3.6	3.7	8.2	2.3	4.0
23	3.9	3.8	3.4	3.0	2.0	3.0	7.0	6.0	4.2	3.1	3.0	2.5	3.1	4.0	4.6	5.1	5.7	5.4	5.2	5.1	2.4	3.7	3.7	1.7	7.0	1.7	3.9
24	1.6	1.8	2.3	3.2	3.0	3.3	2.8	2.5	2.1	2.6	4.0	4.2	5.2	5.4	6.1	5.5	5.4	4.9	3.7	2.9	2.3	2.4	3.0	4.3	6.1	1.6	3.5
25	4.4	5.0	4.7	2.6	2.9	6.0	6.3	4.7	7.5	8.1	7.5	7.0	8.4	9.5	7.4	8.8	6.2	8.9	8.4	4.7	4.7	3.0	2.5	3.1	9.5	2.5	5.9
26	3.3	2.8	3.6	3.7	2.9	4.5	4.3	3.0	3.5	2.8	4.7	5.1	4.5	3.5	3.8	3.1	3.0	3.1	1.7	1.3	2.0	1.6	2.1	2.6	5.1	1.3	3.2
27	1.9	2.7	2.2	2.1	2.6	2.9	3.3	2.9	3.0	3.3	4.0	4.1	4.7	4.5	4.1	4.0	4.1	3.3	3.5	3.7	11.5	13.1	16.3	18.5	18.5	1.9	5.3
28	17.5	20.1	18.6	19.3	19.3	19.6	17.1	15.1	16.7	16.7	17.8	15.4	17.0	16.5	18.1	17.6	17.5	15.6	14.6	16.5	21.8	14.2	24.3	17.2	24.3	14.2	17.7
29	22.5	21.8	18.8	16.6	17.6	17.9	11.5	8.3	6.1	4.0	4.6	4.6	4.9	5.4	5.4	8.2	5.1	3.3	4.6	6.7	7.1	6.5	6.6	8.4	22.5	3.3	9.4
30	9.8	7.2	8.1	5.4	7.3	6.5	6.0	6.2	6.8	4.3	2.9	3.8	4.5	4.1	4.4	4.7	4.4	4.9	5.4	4.5	11.4	12.0	10.3	10.9	12.0	2.9	6.5
Max.	**22.5**	**21.8**	**18.8**	**19.3**	**19.3**	**19.6**	**18.6**	**19.9**	**20.2**	**16.7**	**19.0**	**18.9**	**18.5**	**16.5**	**18.1**	**17.6**	**17.5**	**15.6**	**14.6**	**16.5**	**21.8**	**14.2**	**24.3**	**18.5**	**24.3**		
Min.	**1.1**	**1.8**	**2.2**	**2.1**	**1.5**	**1.1**	**1.6**	**1.9**	**1.5**	**1.2**	**2.1**	**2.0**	**2.2**	**2.3**	**2.1**	**1.7**	**2.6**	**2.6**	**1.4**	**1.3**	**2.0**	**1.1**	**1.4**	**1.0**		**1.0**	
Avg.	**7.0**	**6.9**	**6.6**	**6.5**	**6.4**	**6.7**	**6.8**	**6.5**	**6.8**	**6.1**	**6.5**	**6.2**	**6.6**	**6.7**	**6.4**	**6.5**	**6.6**	**6.5**	**5.8**	**5.9**	**6.4**	**6.1**	**6.6**	**6.6**			**6.5**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum Instantaneous Wind Speed (Climatronics) (m/s)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.6	8.1	10.5	6.9	5.0	5.5	6.7	6.5	5.3	2.5	3.7	3.6	4.7	5.0	6.1	6.4	6.0	5.9	5.7	11.3	15.3	10.2	12.7	13.2	15.3	2.5	7.3
2	13.3	12.4	12.5	10.7	11.4	12.9	9.2	7.2	8.8	8.0	4.4	3.7	3.6	3.0	3.8	11.2	15.4	16.0	13.8	14.1	11.0	3.4	4.7	5.1	16.0	3.0	9.1
3	4.6	5.7	6.3	3.5	2.3	4.9	6.1	3.6	4.4	3.8	3.6	4.0	4.0	4.3	5.0	5.2	4.0	3.2	3.3	3.3	3.6	3.1	3.7	2.2	6.3	2.2	4.1
4	2.9	3.8	3.5	3.5	2.7	3.2	2.6	1.8	3.7	3.8	4.1	4.2	6.1	4.6	5.2	4.9	4.2	4.5	3.9	4.1	3.6	3.5	2.8	2.5	6.1	1.8	3.7
5	2.5	4.7	5.5	4.4	2.8	3.8	5.3	4.4	4.0	4.8	4.8	4.3	3.2	3.4	3.5	3.7	3.3	3.5	3.7	3.5	3.2	2.2	2.3	2.5	5.5	2.2	3.7
6	2.5	0.9	1.1	1.1	2.5	1.5	2.5	2.8	2.7	2.9	2.9	2.6	2.9	3.4	3.6	3.9	4.7	4.3	3.3	3.7	3.5	2.3	2.8	4.9	4.9	0.9	2.9
7	3.2	3.9	3.1	4.9	4.6	2.4	3.2	3.5	3.2	4.4	4.1	4.3	4.0	4.9	7.5	6.5	4.7	3.8	4.4	4.5	5.1	3.2	5.0	4.2	7.5	2.4	4.3
8	4.1	3.7	2.5	2.6	2.2	4.1	5.3	8.4	14.4	13.2	13.1	13.2	12.1	11.3	10.3	8.9	4.4	5.5	10.8	10.2	9.6	9.1	6.1	4.2	14.4	2.2	7.9
9	3.9	5.1	4.0	4.5	4.3	4.4	4.8	4.8	2.8	2.5	3.9	4.3	4.3	4.2	3.8	4.2	4.6	3.7	4.0	4.4	6.3	4.8	5.8	5.0	6.3	2.5	4.4
10	6.4	4.4	4.9	5.4	6.8	6.4	6.2	6.1	4.9	3.6	2.9	3.4	4.7	6.5	4.9	6.0	7.2	4.4	4.4	3.2	4.4	5.0	3.7	3.5	7.2	2.9	5.0
11	2.2	2.7	3.7	2.4	2.8	2.1	2.7	3.3	2.7	6.0	7.0	6.5	6.3	4.8	6.3	4.9	4.3	3.7	2.7	7.2	6.6	3.3	2.4	2.2	7.2	2.1	4.1
12	2.0	2.5	2.4	2.8	2.9	3.5	4.4	4.6	5.3	4.0	2.2	3.8	3.4	3.3	3.4	2.3	5.5	8.5	11.5	14.2	16.3	14.2	10.0	6.3	16.3	2.0	5.8
13	8.7	12.7	13.0	5.5	16.9	16.0	19.4	18.5	19.2	19.2	18.7	17.8	16.5	20.8	21.5	24.1	23.3	24.5	23.6	23.2	22.9	21.0	22.8	19.0	24.5	5.5	18.7
14	26.4	20.1	23.9	22.8	19.8	20.2	17.6	19.0	18.8	20.5	18.4	17.9	16.1	16.5	17.6	15.2	16.6	15.4	13.8	12.6	15.9	13.4	14.8	9.9	26.4	9.9	17.6
15	10.5	8.0	13.5	16.5	13.3	14.7	14.4	12.2	9.3	8.3	10.7	10.5	8.8	8.6	9.2	5.1	4.3	4.4	4.0	3.5	3.8	2.1	3.1	2.9	16.5	2.1	8.4
16	3.2	3.4	5.2	5.5	5.1	4.9	7.8	6.9	6.3	4.4	5.0	4.8	7.1	5.1	5.5	4.3	5.2	4.9	5.2	4.8	6.0	5.5	6.3	5.4	7.8	3.2	5.3
17	6.0	7.7	8.7	8.3	7.1	6.8	5.8	6.8	6.1	6.5	5.6	5.5	9.3	7.5	7.3	7.3	7.2	7.5	7.7	7.5	5.3	6.7	8.0	7.6	9.3	5.3	7.1
18	9.8	9.2	7.5	6.9	7.1	5.1	6.3	5.6	5.2	6.0	5.8	5.3	5.2	4.6	3.6	6.9	6.1	6.0	4.3	5.8	6.0	3.7	3.7	3.8	9.8	3.6	5.8
19	3.4	3.7	3.0	8.1	9.6	9.3	8.3	9.8	9.3	12.0	11.7	10.3	8.4	10.4	10.7	9.8	10.8	7.9	9.6	6.9	5.9	3.2	4.4	5.9	12.0	3.0	8.0
20	6.5	2.6	2.7	2.9	9.9	8.2	6.8	8.6	9.6	10.5	9.2	8.6	10.8	8.9	9.0	6.9	8.3	8.0	10.1	7.9	13.2	4.7	5.4	7.5	13.2	2.6	7.8
21	8.1	7.8	4.6	3.7	3.8	6.4	7.2	6.4	11.0	8.3	9.6	9.7	9.2	8.4	8.8	8.4	6.3	2.9	3.4	4.4	6.3	6.7	5.2	3.8	11.0	2.9	6.7
22	3.3	4.1	3.4	2.4	3.8	6.5	7.3	7.3	6.7	9.6	7.9	6.3	6.7	6.8	6.0	4.3	3.9	7.0	6.2	5.6	5.8	6.0	7.0	6.0	9.6	2.4	5.8
23	8.0	5.9	6.7	5.5	5.0	6.0	8.2	8.1	9.3	10.3	13.4	13.6	13.3	14.2	12.7	11.9	13.1	8.9	11.7	13.8	13.3	9.9	9.8	10.3	14.2	5.0	10.1
24	9.9	11.8	10.2	10.7	10.7	10.1	11.0	8.2	7.6	8.9	9.4	8.0	9.6	7.7	4.1	3.2	3.8	3.9	5.1	4.5	5.2	4.2	5.2	7.6	11.8	3.2	7.5
25	6.8	5.8	6.8	7.5	7.8	5.4	4.5	4.0	4.0	2.5	1.6	1.9	1.7	5.5	5.7	5.9	6.3	2.9	1.1	1.5	1.6	1.9	2.1	2.3	7.8	1.1	4.1
26	5.8	4.0	3.5	2.5	3.0	3.7	7.0	11.0	12.2	14.7	15.3	13.9	15.3	13.0	14.9	15.1	17.5	18.8	19.5	19.5	17.6	19.1	15.5	15.4	19.5	2.5	12.4
27	14.9	15.7	16.8	15.9	12.8	12.3	8.1	10.4	7.3	3.6	3.4	4.0	3.6	3.8	5.4	3.2	3.2	3.1	3.2	3.2	4.9	3.0	2.8	6.5	16.8	2.8	7.1
28	8.0	5.7	7.0	11.0	9.1	11.6	12.2	11.8	9.1	6.7	3.4	5.6	7.4	7.8	5.4	4.6	4.2	3.8	3.4	4.6	8.6	15.5	22.8	17.4	22.8	3.4	8.6
29	15.1	12.9	14.2	12.2	20.7	18.9	18.7	27.2	30.0	24.3	24.4	19.9	16.4	19.7	17.2	13.4	14.6	13.5	17.8	17.2	16.6	24.7	29.7	25.9	30.0	12.2	19.4
30	20.5	23.0	21.2	23.1	17.3	17.6	22.1	23.5	23.2	24.6	22.6	18.6	17.3	17.6	16.5	16.1	11.1	9.0	10.5	15.7	8.3	5.4	9.6	15.1	24.6	5.4	17.1
31	14.7	13.7	14.4	12.3	14.0	11.3	11.9	12.9	13.0	13.0	10.8	8.6	13.2	10.8	13.4	12.6	12.9	14.4	13.2	11.5	10.7	11.1	14.5	15.1	15.1	8.6	12.7
Max.	**26.4**	**23.0**	**23.9**	**23.1**	**20.7**	**20.2**	**22.1**	**27.2**	**30.0**	**24.6**	**24.4**	**19.9**	**17.3**	**20.8**	**21.5**	**24.1**	**23.3**	**24.5**	**23.6**	**23.2**	**22.9**	**24.7**	**29.7**	**25.9**	**30.0**		
Min.	**2.0**	**0.9**	**1.1**	**1.1**	**2.2**	**1.5**	**2.5**	**1.8**	**2.7**	**2.5**	**1.6**	**1.9**	**1.7**	**3.0**	**3.4**	**2.3**	**3.2**	**2.9**	**1.1**	**1.5**	**1.6**	**1.9**	**2.1**	**2.2**		**0.9**	
Avg.	**7.9**	**7.6**	**7.9**	**7.6**	**8.0**	**8.1**	**8.5**	**8.9**	**9.0**	**8.8**	**8.5**	**8.0**	**8.2**	**8.3**	**8.3**	**7.9**	**8.0**	**7.5**	**7.9**	**8.3**	**8.6**	**7.5**	**8.2**	**7.8**			**8.1**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	4.8	2.3	4.0	3.8	1.7	1.5	1.4	2.5	2.1	1.4	2.2	2.8	3.5	3.4	2.9	3.6	4.9	2.4	3.0	2.7	3.0	5.0	3.1	4.5	5.0	1.4	3.0
2	5.1	4.2	4.1	3.9	4.0	4.8	5.4	6.0	5.4	5.7	6.2	6.7	6.9	7.5	7.5	7.7	8.4	8.8	9.1	9.5	8.7	9.0	7.5	8.7	9.5	3.9	6.7
3	8.6	9.4	8.0	8.4	7.5	7.9	6.4	5.0	2.3	1.8	2.4	3.6	3.0	4.0	3.8	3.6	2.9	2.0	2.2	2.2	2.2	2.6	4.3	3.6	9.4	1.8	4.5
4	2.6	1.7	1.7	2.0	2.4	2.5	2.7	3.3	3.3	1.9	1.9	2.5	2.7	4.1	4.5	3.6	5.7	6.3	3.5	2.3	3.2	5.6	6.6	8.2	8.2	1.7	3.5
5	8.4	9.2	9.6	10.2	9.3	9.3	8.8	8.6	7.1	7.0	7.2	6.6	5.6	6.9	5.5	2.1	6.1	7.1	7.4	7.1	6.2	7.9	8.2	9.5	10.2	2.1	7.5
6	10.3	9.2	9.2	10.1	9.5	9.3	9.6	8.2	7.4	6.1	2.3	1.7	2.0	4.9	4.3	2.0	8.6	6.0	2.8	3.1	3.4	5.9	5.1	7.7	10.3	1.7	6.2
7	7.9	4.7	3.2	3.7	4.0	8.7	9.1	12.1	10.6	10.7	9.4	10.6	9.2	7.7	7.0	8.0	7.0	6.2	5.5	6.5	7.8	4.5	4.7	4.6	12.1	3.2	7.2
8	4.3	3.7	3.4	2.7	2.8	3.1	3.1	3.8	3.9	2.6	3.5	3.8	3.6	3.6	4.0	3.9	3.9	3.7	2.5	2.0	1.5	1.3	2.2	2.7	4.3	1.3	3.2
9	2.9	2.6	1.9	2.0	2.1	2.0	5.2	5.0	3.0	4.1	5.2	5.2	5.1	5.0	5.5	5.0	4.2	3.9	2.7	2.7	2.3	2.4	4.2	3.5	5.5	1.9	3.6
10	4.4	6.9	4.4	2.0	1.6	3.2	6.3	6.2	4.5	4.5	4.0	5.3	5.6	4.6	4.8	4.6	4.5	4.3	3.4	1.6	1.8	1.3	1.3	1.4	6.9	1.3	3.9
11	1.5	1.4	1.2	1.9	1.6	1.9	2.6	2.9	2.6	2.9	3.5	3.7	3.7	2.8	3.7	3.9	3.7	2.5	2.1	1.9	1.6	4.2	4.0	2.6	4.2	1.2	2.7
12	2.8	1.8	1.5	1.7	3.0	3.0	2.5	1.3	1.9	3.5	3.5	3.7	3.9	3.8	3.8	3.9	3.8	2.5	2.2	2.6	2.3	3.2	3.7	3.1	3.9	1.3	2.9
13	1.8	2.3	1.6	2.9	2.9	2.7	3.2	3.2	3.7	3.4	2.5	2.7	4.4	3.8	3.4	3.7	3.9	4.5	4.4	4.0	2.6	2.6	3.4	3.7	4.5	1.6	3.2
14	2.9	3.0	3.8	3.4	3.5	3.8	3.7	2.9	3.0	3.2	3.6	3.3	2.7	3.1	3.6	3.5	3.8	3.7	3.5	3.6	2.5	1.9	2.4	2.5	3.8	1.9	3.2
15	2.7	3.0	2.1	2.3	2.4	2.5	2.4	2.2	2.2	3.1	3.1	3.2	3.4	2.2	3.5	3.4	4.0	4.6	4.2	3.0	2.8	3.3	2.8	3.5	4.6	2.1	3.0
16	2.5	3.8	4.3	2.7	3.6	5.0	5.7	6.2	4.7	5.2	4.8	5.0	7.2	7.2	6.6	5.4	5.2	3.7	3.4	3.9	6.2	7.3	3.7	4.7	7.3	2.5	4.9
17	5.8	6.3	6.6	6.6	6.5	7.4	8.9	9.3	9.9	9.7	9.0	10.5	9.6	9.1	9.3	11.0	11.5	11.3	10.4	9.5	10.1	7.7	9.0	7.6	11.5	5.8	8.9
18	7.3	7.7	7.0	8.6	7.1	6.3	7.5	8.4	7.2	5.0	6.2	3.9	4.1	3.9	3.6	3.8	3.8	2.8	2.9	2.4	1.8	1.8	1.3	1.0	8.6	1.0	4.8
19	2.3	3.0	1.4	2.1	3.0	5.5	5.5	5.2	4.1	3.0	1.9	2.6	3.2	3.3	3.0	5.7	7.0	7.9	7.1	6.5	7.4	8.8	8.6	10.2	10.2	1.4	4.9
20	6.0	7.7	13.5	11.6	9.6	10.1	9.5	6.9	9.0	7.2	6.7	8.3	9.3	8.0	10.8	9.5	9.4	6.9	5.7	5.3	11.2	18.7	17.4	13.2	18.7	5.3	9.6
21	10.9	15.4	18.0	14.4	16.5	19.4	17.9	14.6	16.0	11.4	9.3	8.8	14.2	9.1	7.1	7.2	4.6	6.8	4.1	2.8	2.9	2.8	3.0	2.8	19.4	2.8	10.0
22	2.8	3.9	3.2	2.6	5.0	4.9	4.9	6.2	5.5	4.2	4.4	5.6	5.5	3.8	7.7	7.4	7.0	9.4	7.7	8.1	11.5	9.3	8.7	12.2	12.2	2.6	6.3
23	10.9	8.1	9.3	8.5	8.9	9.5	9.1	7.2	4.6	7.8	7.0	9.4	7.8	4.1	5.3	4.9	5.3	3.2	1.2	2.7	3.6	3.2	2.6	3.8	10.9	1.2	6.2
24	3.1	2.4	3.6	4.2	4.5	4.1	3.2	2.8	2.4	2.1	2.9	6.4	8.9	8.7	7.6	8.5	8.7	11.5	14.8	13.3	11.4	8.0	8.9	11.0	14.8	2.1	6.8
25	9.3	7.8	7.9	11.6	10.9	11.0	9.3	8.8	6.1	8.0	5.4	2.7	7.5	5.9	5.5	3.9	4.3	3.4	2.5	2.3	2.0	1.6	2.9	3.8	11.6	1.6	6.0
26	3.8	2.9	3.2	4.3	4.1	4.8	4.7	4.3	5.2	5.2	4.4	6.0	6.5	4.6	9.0	8.8	9.6	6.7	4.4	8.0	10.0	10.6	9.4	11.6	11.6	2.9	6.3
27	11.1	11.1	11.8	9.9	7.1	7.6	7.6	6.7	6.6	6.0	5.9	7.4	7.0	8.7	6.0	6.2	9.4	12.1	12.9	15.6	11.1	9.9	12.4	11.0	15.6	5.9	9.2
28	10.9	7.2	6.2	4.7	4.9	3.0	2.3	1.7	5.6	4.6	0.9	1.5	4.2	3.2	2.1	2.4	6.3	13.7	19.5	17.8	15.8	17.5	21.0	18.9	21.0	0.9	8.2
29	16.4	12.5	11.7	15.3	12.2	15.1	14.5	11.5	8.2	12.1	9.4	13.1	11.9	10.9	11.6	12.9	10.2	9.7	11.7	10.2	9.0	9.0	10.9	8.9	16.4	8.2	11.6
30	8.5	7.8	8.9	8.1	9.6	7.2	8.3	8.6	6.6	5.9	5.7	6.4	7.1	6.9	9.0	6.8	10.3	10.6	7.9	8.1	9.4	11.0	9.7	9.6	11.0	5.7	8.2
31	9.3	9.2	11.4	11.0	9.3	9.7	7.0	8.3	9.3	8.5	11.2	12.3	10.2	9.0	9.0	10.6	10.7	7.1	7.3	10.9	9.8	10.0	9.5	9.6	12.3	7.0	9.6
Max.	**16.4**	**15.4**	**18.0**	**15.3**	**16.5**	**19.4**	**17.9**	**14.6**	**16.0**	**12.1**	**11.2**	**13.1**	**14.2**	**10.9**	**11.6**	**12.9**	**11.5**	**13.7**	**19.5**	**17.8**	**15.8**	**18.7**	**21.0**	**18.9**	**21.0**		
Min.	**1.5**	**1.4**	**1.2**	**1.7**	**1.6**	**1.5**	**1.4**	**1.3**	**1.9**	**1.4**	**0.9**	**1.5**	**2.0**	**2.2**	**2.1**	**2.0**	**2.9**	**2.0**	**1.2**	**1.6**	**1.5**	**1.3**	**1.3**	**1.0**		**0.9**	
Avg.	**6.2**	**5.9**	**6.1**	**6.0**	**5.8**	**6.3**	**6.4**	**6.1**	**5.6**	**5.4**	**5.0**	**5.7**	**6.1**	**5.6**	**5.8**	**5.7**	**6.4**	**6.3**	**5.9**	**5.9**	**6.0**	**6.4**	**6.5**	**6.8**			**6.0**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.8	8.5	8.2	5.9	5.6	4.4	7.8	6.8	7.7	7.3	6.7	3.9	10.2	10.8	8.5	9.7	11.1	11.1	10.6	9.7	8.4	9.0	9.5	7.6	11.1	3.9	8.2
2	4.3	3.7	4.3	3.9	4.1	3.6	3.9	4.3	4.0	4.0	3.8	2.5	4.4	5.6	5.5	5.7	6.5	3.5	3.8	4.3	4.3	4.8	4.9	5.2	6.5	2.5	4.4
3	5.6	3.2	2.8	5.9	4.7	3.7	5.1	6.8	6.2	7.4	7.7	7.1	8.1	8.4	8.6	8.8	9.5	10.5	10.3	11.0	10.7	10.3	10.5	10.3	11.0	2.8	7.6
4	9.0	8.6	8.9	9.0	9.9	9.9	9.4	9.3	9.4	7.7	6.8	6.9	6.2	5.4	4.5	3.6	2.9	3.7	4.9	5.8	4.7	3.0	1.9	2.6	9.9	1.9	6.4
5	2.5	3.0	2.8	3.1	3.3	3.9	3.5	5.1	5.1	5.9	5.8	5.1	4.1	3.5	3.9	4.4	4.5	4.5	5.1	4.5	6.2	5.8	6.2	5.5	6.2	2.5	4.5
6	5.3	5.4	4.5	4.1	3.2	6.5	4.3	2.8	3.3	9.3	13.2	11.6	15.2	15.2	10.9	10.3	7.6	11.0	3.0	11.1	11.0	13.3	13.3	10.5	15.2	2.8	8.6
7	12.0	10.7	11.8	10.9	11.8	8.9	11.1	10.4	12.8	12.8	9.9	9.3	7.3	8.9	6.3	9.1	6.6	6.5	8.5	7.6	9.6	8.5	11.1	12.5	12.8	6.3	9.8
8	13.2	13.0	11.8	12.5	11.7	10.6	8.3	7.4	7.3	7.6	4.8	2.1	2.6	2.7	2.7	3.2	3.3	2.9	3.1	3.5	4.4	6.4	6.4	5.0	13.2	2.1	6.5
9	6.5	7.0	8.9	9.3	8.7	8.2	8.4	10.2	10.0	9.9	10.2	9.1	6.2	5.7	6.6	4.2	2.5	5.8	5.6	4.8	2.3	6.1	7.4	8.8	10.2	2.3	7.2
10	10.2	10.0	8.9	12.7	12.0	13.2	12.1	12.1	13.8	12.7	12.1	13.0	13.6	11.4	3.7	6.7	9.1	5.9	1.5	3.4	2.8	2.1	3.3	3.2	13.8	1.5	8.7
11	3.1	5.4	6.1	5.0	5.8	5.5	5.4	3.9	3.5	4.4	4.9	5.3	6.8	6.6	6.9	8.0	5.8	7.2	7.9	8.2	5.7	4.3	5.1	5.4	8.2	3.1	5.7
12	3.4	3.5	4.3	6.2	10.1	12.0	14.6	9.1	7.7	9.7	15.1	19.3	19.3	12.5	11.9	15.7	21.7	16.0	25.2	26.1	20.5	22.0	15.4	17.7	26.1	3.4	14.1
13	18.3	14.9	15.1	10.2	7.2	7.6	7.5	13.0	10.8	8.8	10.3	5.7	4.7	10.2	9.3	9.6	9.8	10.1	7.3	9.5	10.1	8.8	9.7	7.3	18.3	4.7	9.8
14	9.3	10.8	6.9	4.1	2.5	3.4	3.0	2.9	4.5	4.5	2.5	2.0	2.1	3.2	6.1	7.9	7.9	5.7	7.0	8.7	5.3	4.3	6.2	6.8	10.8	2.0	5.3
15	7.5	6.6	7.2	7.6	3.6	5.7	6.9	5.5	4.8	6.4	5.4	6.8	5.4	5.7	6.9	3.6	4.7	4.4	3.3	5.9	7.7	5.2	4.6	5.7	7.7	3.3	5.7
16	5.5	5.1	6.3	10.0	10.8	10.2	9.4	7.8	10.6	11.0	10.5	7.5	7.4	9.9	10.3	9.9	8.8	10.3	8.5	2.3	3.1	2.5	5.6	8.2	11.0	2.3	8.0
17	8.5	7.4	5.7	4.0	4.9	4.3	4.4	4.1	4.1	5.3	4.5	5.1	6.4	6.0	4.4	1.9	1.9	2.8	2.6	1.8	2.6	4.2	6.3	8.1	8.5	1.8	4.6
18	8.4	9.4	9.4	10.6	10.3	10.4	10.7	10.0	10.9	9.7	10.2	10.7	8.0	7.2	9.1	9.2	10.3	8.6	12.3	9.0	8.1	8.1	9.7	8.2	12.3	7.2	9.5
19	9.8	9.2	8.4	11.4	14.4	14.6	12.8	13.2	14.8	12.9	8.9	10.2	8.0	6.8	6.1	5.9	7.8	6.6	8.6	8.4	9.6	10.1	10.0	10.3	14.8	5.9	10.0
20	10.8	10.8	10.6	10.9	11.2	9.9	9.9	9.1	9.1	10.7	6.1	9.3	8.4	11.1	10.2	8.0	7.7	6.7	8.4	11.7	11.8	10.5	6.2	9.3	11.8	6.1	9.5
21	11.7	10.9	9.8	9.6	9.6	9.5	8.7	8.8	4.3	2.6	3.7	3.9	3.5	2.4	1.8	3.2	4.6	5.5	4.9	4.5	3.5	2.8	2.9	3.5	11.7	1.8	5.7
22	3.0	3.2	5.0	6.5	5.7	6.7	7.7	7.2	6.6	6.4	7.1	5.9	6.5	4.2	5.3	4.6	4.8	5.9	5.3	5.0	4.4	3.7	6.1	4.0	7.7	3.0	5.5
23	7.0	7.5	5.2	3.7	2.5	2.7	4.1	1.2	2.3	1.9	5.4	6.5	5.8	3.0	4.6	5.7	4.2	4.6	4.3	5.5	21.2	24.4	22.1	24.1	24.4	1.2	7.5
24	22.2	25.7	23.8	18.8	18.1	14.1	13.9	13.0	17.0	16.0	14.5	12.4	11.9	17.7	11.7	14.5	15.8	11.9	14.7	11.0	13.2	8.4	13.7	11.2	25.7	8.4	15.2
25	12.6	13.9	13.6	14.7	16.3	18.2	12.9	14.2	14.2	14.2	14.3	13.9	12.6	13.4	13.2	13.0	11.3	10.2	11.4	11.3	9.3	5.6	7.3	6.6	18.2	5.6	12.4
26	2.8	3.6	3.5	2.3	3.4	4.8	6.8	6.2	5.3	6.2	7.8	8.0	6.2	5.6	9.2	9.9	8.9	11.0	9.6	9.7	10.3	11.3	11.4	13.1	13.1	2.3	7.4
27	15.2	14.1	14.7	15.1	15.3	17.0	18.5	19.4	17.1	17.1	16.6	17.2	17.4	18.2	16.6	16.3	15.1	12.7	12.9	12.5	11.1	9.2	8.8	8.0	19.4	8.0	14.8
28	7.8	7.4	6.8	7.1	6.4	4.5	5.0	5.5	2.2	3.5	3.5	1.1	1.7	1.7	2.2	3.8	6.1	4.7	4.5	2.4	3.3	3.5	5.9	6.4	7.8	1.1	4.5
29	7.8	10.5	10.3	11.3	10.3	9.4	10.6	9.4	9.6	9.1	9.3	11.1	10.5	12.3	12.8	12.7	10.7	12.4	10.9	10.5	11.4	12.4	11.4	12.3	12.8	7.8	10.8
30	13.3	12.1	11.5	11.4	10.6	10.5	12.3	12.3	10.8	10.2	10.2	8.5	8.6	7.8	8.2	6.3	7.4	6.6	8.5	8.5	8.5	7.5	7.8	8.0	13.3	6.3	9.5
Max.	**22.2**	**25.7**	**23.8**	**18.8**	**18.1**	**18.2**	**18.5**	**19.4**	**17.1**	**17.1**	**16.6**	**19.3**	**19.3**	**18.2**	**16.6**	**16.3**	**21.7**	**16.0**	**25.2**	**26.1**	**21.2**	**24.4**	**22.1**	**24.1**	**26.1**		
Min.	**2.5**	**3.0**	**2.8**	**2.3**	**2.5**	**2.7**	**3.0**	**1.2**	**2.2**	**1.9**	**2.5**	**1.1**	**1.7**	**1.7**	**1.8**	**1.9**	**1.9**	**2.8**	**1.5**	**1.8**	**2.3**	**2.1**	**1.9**	**2.6**		**1.1**	
Avg.	**8.8**	**8.8**	**8.6**	**8.6**	**8.5**	**8.5**	**8.6**	**8.4**	**8.3**	**8.5**	**8.4**	**8.0**	**8.0**	**8.1**	**7.6**	**7.8**	**8.0**	**7.6**	**7.8**	**7.9**	**8.2**	**7.9**	**8.4**	**8.5**			**8.2**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.3	8.6	9.4	10.9	11.2	11.1	9.6	9.4	11.6	11.8	12.5	11.3	8.8	12.3	12.6	13.5	11.2	11.5	10.9	9.3	11.5	12.9	11.7	10.8	13.5	8.3	10.9
2	12.3	12.9	11.9	12.7	12.6	12.2	8.9	11.4	9.9	10.6	9.5	10.8	10.8	11.5	9.5	12.8	9.4	6.4	7.3	8.6	7.0	6.6	4.1	3.6	12.9	3.6	9.7
3	3.3	4.1	5.2	5.2	7.2	6.3	5.4	4.4	6.9	8.2	8.7	7.6	9.3	10.1	11.5	11.0	10.7	8.1	9.0	8.9	8.6	6.2	8.4	8.4	11.5	3.3	7.6
4	9.8	8.6	8.9	9.0	10.0	8.9	9.2	10.0	10.8	10.4	10.7	10.4	9.9	12.9	12.8	13.2	14.1	13.4	13.5	14.0	16.6	15.9	15.9	14.5	16.6	8.6	11.8
5	14.4	11.0	9.9	10.6	10.2	9.6	8.9	7.8	7.5	8.0	9.4	6.7	6.6	4.0	2.0	3.4	4.8	5.7	6.9	7.1	7.5	6.4	6.7	5.8	14.4	2.0	7.5
6	5.7	4.5	5.0	3.1	3.0	3.4	3.1	3.2	2.1	3.5	3.1	2.8	2.4	2.4	4.6	3.6	3.4	3.5	2.9	3.7	2.9	3.4	3.9	4.1	5.7	2.1	3.5
7	4.6	5.1	5.4	3.4	4.5	3.7	4.5	5.9	7.3	7.7	6.6	6.4	6.6	5.7	6.6	7.7	7.4	7.1	6.9	7.2	6.5	6.0	4.8	4.1	7.7	3.4	5.9
8	4.2	4.6	3.6	2.1	2.1	2.5	4.7	4.3	5.2	4.5	3.7	3.4	2.8	2.6	4.1	3.8	4.2	3.9	4.1	3.6	3.4	4.0	3.4	3.7	5.2	2.1	3.7
9	3.5	4.1	3.9	3.2	3.1	3.9	3.7	3.9	3.9	5.9	4.5	5.0	4.6	6.6	7.2	8.1	9.6	8.9	9.7	9.4	11.1	12.8	13.0	12.4	13.0	3.1	6.8
10	12.6	11.3	11.2	12.6	11.8	11.5	14.0	11.8	13.3	8.8	7.7	6.7	4.2	3.7	2.8	3.1	3.4	3.8	3.9	5.6	5.9	6.6	4.8	5.3	14.0	2.8	7.8
11	4.9	4.7	6.1	6.9	6.9	6.5	6.6	5.2	3.5	2.3	3.5	3.7	6.0	6.7	9.2	10.9	9.9	8.5	12.2	14.1	11.9	11.5	11.7	13.8	14.1	2.3	7.8
12	14.8	10.4	15.3	16.0	14.2	14.3	13.8	16.1	11.9	8.6	16.6	11.1	12.3	13.7	17.5	17.2	14.0	14.9	13.5	11.1	13.6	11.5	11.9	11.6	17.5	8.6	13.6
13	10.7	8.9	9.2	5.7	4.9	6.1	7.1	4.7	4.1	6.1	6.5	6.8	12.0	8.3	7.9	11.0	9.6	9.2	8.7	8.1	3.0	3.8	3.7	2.5	12.0	2.5	7.0
14	3.9	3.7	3.0	5.3	5.2	4.4	3.6	3.7	4.7	6.0	6.2	4.4	5.3	5.6	4.1	3.8	3.8	3.2	4.5	3.9	5.6	6.2	6.9	7.2	7.2	3.0	4.8
15	8.5	8.6	8.3	8.5	8.2	7.9	8.1	7.6	7.4	7.0	5.6	4.1	3.9	2.9	2.5	3.6	4.1	5.1	5.4	2.3	3.8	4.3	3.0	4.4	8.6	2.3	5.6
16	2.4	2.7	2.6	8.4	7.7	8.7	9.2	8.6	8.9	5.7	6.5	9.7	6.8	8.6	12.1	8.4	9.6	9.3	8.1	5.5	6.8	4.0	3.3	3.6	12.1	2.4	6.9
17	3.7	5.2	7.3	7.4	7.3	7.8	6.5	6.7	6.3	6.8	8.7	8.5	9.5	8.8	12.1	14.9	17.3	13.7	12.5	12.3	12.8	12.2	12.0	8.6	17.3	3.7	9.5
18	7.3	13.3	13.7	15.7	17.7	18.6	19.1	20.1	21.5	19.1	16.2	11.6	10.8	11.2	8.6	11.4	9.6	6.1	11.5	12.2	5.8	1.9	3.4	4.2	21.5	1.9	12.1
19	6.1	6.6	6.3	5.8	5.9	5.2	5.4	9.1	7.1	7.0	6.7	7.4	7.1	7.3	7.7	6.5	5.2	6.4	6.9	8.7	7.4	10.5	11.2	10.2	11.2	5.2	7.2
20	10.5	10.6	8.6	12.1	10.3	10.7	10.5	10.5	11.2	11.6	12.6	14.1	13.7	13.9	14.3	13.1	13.1	12.6	12.2	13.6	13.9	13.9	13.9	15.4	15.4	8.6	12.4
21	12.3	9.2	8.9	5.5	5.7	6.2	5.3	4.2	1.2	1.6	1.3	1.1	1.4	1.8	3.0	3.1	2.6	1.9	8.7	8.9	11.3	12.0	7.5	9.9	12.3	1.1	5.6
22	10.5	10.7	9.6	7.6	11.3	9.4	10.6	12.1	14.0	12.7	12.2	14.5	17.4	16.7	19.0	20.4	17.9	9.2	6.9	8.6	11.8	12.9	18.0	12.9	20.4	6.9	12.8
23	11.4	18.9	16.7	14.8	13.5	10.5	9.2	11.3	10.3	11.1	10.1	7.0	8.6	7.7	8.3	7.5	5.6	2.5	2.1	1.9	3.6	3.9	4.6	4.5	18.9	1.9	8.6
24	3.8	4.4	3.4	2.3	5.2	4.1	5.4	7.2	8.6	6.5	7.6	6.6	7.8	9.0	9.1	9.7	12.6	11.9	12.2	13.8	11.7	12.2	12.5	13.7	13.8	2.3	8.4
25	13.3	12.1	11.3	10.6	7.2	11.0	10.3	11.1	9.5	6.9	7.3	7.5	5.9	4.5	3.2	3.7	3.4	2.9	6.6	6.7	6.0	5.2	6.1	5.3	13.3	2.9	7.4
26	4.2	6.2	5.4	5.6	5.3	3.7	6.9	6.4	6.0	7.8	7.7	8.1	6.6	7.0	6.4	5.4	5.7	6.6	6.8	3.4	4.8	6.1	5.6	3.8	8.1	3.4	5.9
27	4.9	4.1	3.9	4.5	4.0	4.1	3.7	3.5	3.8	4.3	5.3	4.7	4.2	3.5	2.3	2.1	1.6	2.6	3.1	3.2	3.8	3.9	4.1	4.4	5.3	1.6	3.7
28	3.9	3.3	4.7	3.7	4.3	4.5	5.2	5.0	5.3	6.3	5.7	4.8	6.5	5.3	3.8	3.9	2.6	2.3	5.5	5.7	3.0	2.8	6.1	4.1	6.5	2.3	4.5
29	4.4	4.0	4.7	3.9	3.7	4.3	4.2	4.4	4.4	4.6	4.4	5.1	5.3	4.8	4.9	5.8	5.3	6.0	4.9	5.6	5.7	5.4	4.9	5.6	6.0	3.7	4.9
30	5.2	5.1	4.9	5.8	4.0	3.4	4.0	3.7	3.0	4.6	3.8	2.6	1.8	2.9	4.2	6.2	8.3	7.5	7.5	9.0	8.5	8.3	7.6	7.0	9.0	1.8	5.4
31	6.8	8.2	7.7	9.3	10.2	11.1	13.1	12.2	11.4	9.5	12.3	13.3	12.3	11.0	15.1	10.4	9.5	11.0	11.3	10.5	9.0	9.6	8.2	7.5	15.1	6.8	10.4
Max.	**14.8**	**18.9**	**16.7**	**16.0**	**17.7**	**18.6**	**19.1**	**20.1**	**21.5**	**19.1**	**16.6**	**14.5**	**17.4**	**16.7**	**19.0**	**20.4**	**17.9**	**14.9**	**13.5**	**14.1**	**16.6**	**15.9**	**18.0**	**15.4**	**21.5**		
Min.	**2.4**	**2.7**	**2.6**	**2.1**	**2.1**	**2.5**	**3.1**	**3.2**	**1.2**	**1.6**	**1.3**	**1.1**	**1.4**	**1.8**	**2.0**	**2.1**	**1.6**	**1.9**	**2.1**	**1.9**	**2.9**	**1.9**	**3.0**	**2.5**		**1.1**	
Avg.	**7.5**	**7.6**	**7.6**	**7.7**	**7.7**	**7.6**	**7.7**	**7.9**	**7.8**	**7.6**	**7.8**	**7.3**	**7.5**	**7.5**	**8.0**	**8.4**	**8.0**	**7.3**	**7.9**	**8.0**	**7.9**	**7.8**	**7.8**	**7.5**			**7.7**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.8	7.7	8.5	6.5	3.8	4.1	3.5	3.4	3.7	2.5	6.3	6.3	5.5	6.1	7.3	7.7	8.1	9.9	10.9	9.4	10.4	9.8	11.2	9.1	11.2	2.5	7.0
2	9.2	7.5	8.2	9.5	7.4	7.7	7.9	7.6	6.2	6.4	5.3	6.1	8.2	7.6	7.9	8.6	6.7	8.6	10.0	8.8	6.4	7.1	6.2	5.4	10.0	5.3	7.5
3	7.4	7.2	8.7	7.7	9.6	6.0	6.9	9.3	8.0	8.6	8.6	9.4	10.8	12.6	14.2	12.9	12.3	12.8	13.2	13.1	11.5	12.5	12.4	11.1	14.2	6.0	10.3
4	13.6	14.8	13.7	12.5	10.0	10.7	11.4	10.2	13.1	11.7	11.4	11.0	11.0	12.6	14.4	12.2	11.8	12.2	12.0	12.7	10.7	10.6	5.5	8.5	14.8	5.5	11.6
5	6.1	5.5	8.4	10.2	10.9	11.0	9.5	9.5	10.9	8.6	13.7	12.4	11.0	12.3	10.3	9.3	10.1	12.2	12.4	14.8	15.0	12.5	10.3	9.0	15.0	5.5	10.7
6	15.3	8.5	5.0	5.6	2.0	3.4	4.0	2.8	4.3	5.4	13.1	12.0	18.2	16.0	7.5	6.8	8.5	9.2	11.5	13.1	13.3	8.8	8.3	9.0	18.2	2.0	8.8
7	7.2	9.0	13.1	13.5	10.7	12.5	11.0	7.9	8.7	8.2	6.5	5.8	5.3	5.2	4.9	6.3	7.1	6.1	7.1	7.0	8.4	8.1	9.7	10.3	13.5	4.9	8.3
8	9.9	10.3	10.5	11.1	9.7	8.7	9.3	8.2	8.7	7.6	7.2	6.3	4.8	4.4	2.7	3.1	2.6	2.6	2.3	2.3	2.4	2.5	2.4	2.6	11.1	2.3	5.9
9	2.9	2.4	2.1	2.1	2.3	2.0	2.7	2.2	1.7	2.3	3.3	5.7	5.9	5.3	5.2	5.7	3.6	5.8	5.6	6.3	4.7	5.7	7.1	9.1	9.1	1.7	4.2
10	6.9	8.6	9.5	11.4	14.1	14.8	12.1	11.6	13.7	14.5	14.2	15.2	14.6	15.0	14.2	14.6	13.4	13.7	12.9	11.4	11.7	9.3	6.1	4.2	15.2	4.2	12.0
11	5.2	5.7	5.4	4.0	1.7	2.0	5.2	3.1	4.3	4.9	6.4	6.8	6.1	5.9	4.6	5.3	6.1	6.6	7.2	3.3	3.4	2.0	6.5	6.1	7.2	1.7	4.9
12	3.9	2.8	4.9	4.8	3.2	3.3	2.3	4.3	6.1	5.0	1.6	3.3	3.2	3.0	3.4	3.8	3.1	3.5	3.1	3.4	3.1	4.8	4.9	6.6	6.6	1.6	3.8
13	5.5	6.8	7.3	7.7	7.5	7.2	7.1	7.1	7.4	6.4	7.8	5.9	3.8	4.1	4.5	2.6	3.2	3.1	5.2	4.5	5.4	5.0	5.5	5.3	7.8	2.6	5.7
14	5.9	6.6	7.1	7.6	8.5	8.7	9.3	9.4	9.6	10.5	10.4	10.4	12.0	11.8	13.0	13.4	14.4	14.8	15.0	14.6	14.2	14.5	14.5	15.9	15.9	5.9	11.3
15	14.4	14.0	8.2	7.4	5.9	2.1	2.5	2.1	3.4	3.2	3.2	3.3	4.0	8.0	4.2	3.4	4.6	6.4	6.0	7.4	5.3	4.1	5.6	4.9	14.4	2.1	5.6
16	5.3	7.1	7.6	8.8	7.9	12.4	12.4	13.7	13.8	10.7	9.6	9.3	8.4	7.7	9.3	9.3	9.8	8.4	8.0	8.1	8.6	9.2	8.7	8.5	13.8	5.3	9.3
17	8.9	7.8	8.2	8.0	7.3	6.8	6.6	6.0	5.9	3.2	1.7	3.0	6.9	9.5	12.2	12.0	12.6	11.4	9.7	5.8	4.3	6.3	6.7	5.9	12.6	1.7	7.4
18	7.0	7.6	12.2	8.9	10.0	9.2	10.8	10.2	12.8	12.3	11.5	9.1	9.9	10.4	10.9	8.9	8.6	6.7	5.1	14.3	15.3	17.4	17.7	14.8	17.7	5.1	10.9
19	13.7	9.0	12.4	12.5	12.7	9.3	10.3	13.1	16.3	16.7	14.5	12.1	9.2	13.3	16.4	15.6	16.3	16.1	17.9	14.8	12.1	6.5	3.1	5.9	17.9	3.1	12.5
20	5.0	5.7	6.1	6.9	8.0	7.9	7.9	7.8	7.6	7.7	9.7	9.9	9.8	10.1	9.7	8.5	5.1	4.9	4.2	3.3	2.4	2.2	2.0	3.0	10.1	2.0	6.5
21	3.7	3.2	3.1	3.9	6.1	7.6	7.2	7.8	11.1	10.2	11.2	9.6	12.2	11.6	10.6	13.9	14.4	12.6	12.8	17.7	17.1	12.5	8.6	9.7	17.7	3.1	9.9
22	11.8	12.9	12.9	10.2	7.1	6.3	7.4	10.3	9.6	9.6	8.5	7.0	7.3	8.3	7.4	6.8	6.5	6.4	7.5	10.5	12.8	14.0	12.7	13.9	14.0	6.3	9.5
23	14.9	15.6	16.4	17.9	17.1	19.4	20.7	21.6	19.3	21.4	20.8	17.9	17.0	16.4	14.1	13.8	11.4	12.6	13.8	14.2	14.4	11.9	11.5	11.9	21.6	11.4	16.1
24	11.7	13.2	15.8	14.5	15.6	15.3	12.6	14.7	15.9	17.1	15.8	19.6	20.2	23.9	24.0	22.8	22.2	25.1	22.0	19.5	18.7	18.2	17.7	19.3	25.1	11.7	18.1
25	17.2	16.5	17.1	17.6	16.3	18.5	16.8	17.8	18.8	20.1	18.8	17.9	17.1	18.0	17.5	17.0	15.4	14.1	15.1	16.4	16.7	14.7	13.6	14.9	20.1	13.6	16.8
26	12.8	11.4	12.5	12.5	12.7	12.9	13.4	13.4	13.5	13.5	13.0	14.3	12.7	14.2	14.9	13.7	13.8	12.7	8.7	10.2	9.2	8.0	8.5	8.9	14.9	8.0	12.1
27	8.6	8.6	8.5	8.5	7.1	6.1	7.9	8.0	7.9	8.3	9.0	8.1	8.2	7.6	6.0	5.8	6.1	5.6	4.4	3.8	4.1	3.8	4.5	3.7	9.0	3.7	6.7
28	4.2	4.6	3.5	3.5	4.2	3.8	3.9	3.1	4.1	4.6	3.1	3.1	3.2	3.0	2.5	2.3	3.4	2.8	2.3	2.4	2.9	3.2	2.9	2.6	4.6	2.3	3.3
29	3.4	3.4	3.7	4.8	4.6	4.1	5.1	5.7	3.7	3.3	2.7	8.2	10.2	6.9	3.5	10.7	12.3	15.6	12.0	7.4	7.8	8.3	8.3	7.1	15.6	2.7	6.8
30	9.0	7.7	6.5	10.0	6.3	5.7	6.3	7.3	5.2	9.9	12.0	8.7	11.7	11.5	7.1	6.4	6.5	5.9	6.0	7.4	7.8	8.0	6.0	6.4	12.0	5.2	7.7
Max.	**17.2**	**16.5**	**17.1**	**17.9**	**17.1**	**19.4**	**20.7**	**21.6**	**19.3**	**21.4**	**20.8**	**19.6**	**20.2**	**23.9**	**24.0**	**22.8**	**22.2**	**25.1**	**22.0**	**19.5**	**18.7**	**18.2**	**17.7**	**19.3**	**25.1**		
Min.	**2.9**	**2.4**	**2.1**	**2.1**	**1.7**	**2.0**	**2.3**	**2.1**	**1.7**	**2.3**	**1.6**	**3.0**	**3.2**	**3.0**	**2.5**	**2.3**	**2.6**	**2.6**	**2.3**	**2.3**	**2.4**	**2.0**	**2.0**	**2.6**		**1.6**	
Avg.	**8.6**	**8.4**	**8.9**	**9.0**	**8.3**	**8.3**	**8.5**	**8.6**	**9.2**	**9.1**	**9.4**	**9.3**	**9.6**	**10.1**	**9.5**	**9.4**	**9.3**	**9.6**	**9.5**	**9.6**	**9.3**	**8.7**	**8.3**	**8.5**			**9.0**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	7.8	7.3	7.5	9.5	8.2	9.1	8.0	7.9	7.3	6.9	7.5	7.7	9.8	9.5	8.9	8.5	11.2	11.5	7.6	7.0	12.9	11.2	12.5	10.7	12.9	6.9	9.0
2	10.1	9.0	11.8	11.2	11.0	10.1	9.9	6.5	10.1	11.4	11.3	11.6	10.6	13.6	13.7	13.5	12.6	12.9	12.0	13.3	14.2	16.1	16.1	18.0	18.0	6.5	12.1
3	16.2	17.0	15.1	19.2	17.1	16.0	15.0	14.0	13.6	12.2	12.4	13.5	12.2	12.2	13.0	13.6	12.5	7.9	5.3	8.9	8.6	7.5	10.3	8.9	19.2	5.3	12.6
4	8.6	8.9	9.1	9.2	8.4	8.2	8.0	7.2	6.6	4.8	5.3	7.7	8.8	9.1	9.6	9.2	9.9	10.6	9.8	9.5	10.4	10.6	9.6	10.4	10.6	4.8	8.7
5	11.0	11.3	11.1	11.8	9.4	10.4	9.2	8.1	9.4	9.3	10.4	11.3	10.0	9.5	9.9	10.6	11.7	11.2	14.0	12.7	12.8	15.2	17.5	13.1	17.5	8.1	11.3
6	14.7	13.5	12.8	13.3	12.5	12.4	12.3	11.8	10.2	10.2	12.4	12.2	9.7	8.4	6.8	6.0	5.5	6.0	7.3	8.8	9.4	8.0	9.0	10.9	14.7	5.5	10.2
7	8.2	8.6	10.7	12.8	12.8	12.2	12.3	13.5	14.1	13.6	13.1	13.2	13.9	13.5	12.9	13.3	11.9	14.5	14.4	10.9	10.4	10.4	9.4	9.5	14.5	8.2	12.1
8	8.5	7.7	6.3	8.4	7.1	5.5	4.6	5.5	5.1	6.3	5.9	5.2	3.9	4.2	3.6	5.9	4.0	4.7	6.4	7.3	5.6	4.7	6.1	5.6	8.5	3.6	5.8
9	4.6	4.4	5.2	5.4	4.3	6.1	7.3	9.4	8.5	9.1	8.4	7.9	8.1	9.1	7.7	6.3	5.3	4.0	4.1	2.9	2.4	2.7	2.6	2.6	9.4	2.4	5.8
10	2.1	1.7	2.4	3.7	4.4	4.1	4.1	4.0	5.2	6.1	7.0	7.0	6.4	6.5	5.5	5.0	4.9	5.9	7.6	7.0	5.3	6.0	6.5	6.3	7.6	1.7	5.2
11	7.4	7.3	6.1	7.1	5.4	4.2	8.4	11.9	13.3	14.0	14.9	17.8	18.6	19.0	19.3	18.2	16.7	15.1	15.4	18.7	17.3	15.7	16.6	16.7	19.3	4.2	13.5
12	20.0	17.6	16.3	16.4	17.1	17.9	10.6	8.6	10.5	7.9	8.2	6.8	14.4	6.1	4.9	9.6	7.0	8.0	8.2	8.9	5.9	5.2	4.7	6.0	20.0	4.7	10.3
13	6.9	7.2	5.0	5.7	5.7	5.0	6.5	7.7	8.1	8.5	10.0	10.2	9.4	10.6	11.6	11.0	11.1	12.1	11.9	14.9	13.5	12.6	12.6	14.2	14.9	5.0	9.7
14	15.2	15.5	14.4	15.1	15.7	15.9	15.9	17.6	16.2	15.2	18.5	18.2	17.4	18.4	16.9	17.2	15.5	14.9	15.9	15.7	14.2	13.1	12.8	12.8	18.5	12.8	15.7
15	11.2	11.4	10.8	9.6	10.0	11.4	10.9	10.9	11.7	13.2	13.7	14.4	12.2	13.4	11.9	11.9	12.3	13.1	13.4	13.7	13.1	13.1	10.3	7.8	14.4	7.8	11.9
16	9.8	13.0	11.0	10.8	7.4	6.5	7.3	6.3	6.2	7.1	8.5	8.3	8.5	8.3	9.0	7.7	7.0	6.5	4.5	6.8	6.8	8.7	11.0	9.8	13.0	4.5	8.2
17	8.4	5.7	3.9	3.0	2.8	2.9	3.2	3.5	3.1	1.9	5.1	5.9	6.1	7.4	7.7	7.4	6.2	6.0	7.2	6.8	7.0	7.9	7.4	7.9	8.4	1.9	5.6
18	6.6	7.5	8.8	9.5	8.9	10.5	12.0	10.2	9.3	9.8	9.0	7.8	6.8	7.3	6.9	7.1	8.4	7.7	7.8	10.9	9.6	10.8	11.1	9.3	12.0	6.6	8.9
19	10.8	9.0	8.9	7.7	8.4	7.7	7.7	8.3	8.1	8.5	7.9	6.0	6.7	5.6	4.0	4.4	4.1	4.4	5.6	5.0	4.9	5.1	4.8	4.4	10.8	4.0	6.6
20	5.1	5.7	7.5	10.1	7.9	5.5	4.9	4.3	2.3	1.7	2.2	3.5	3.4	2.0	7.8	10.0	6.7	4.5	3.7	4.4	1.9	1.8	2.5	2.3	10.1	1.7	4.6
21	3.2	2.9	2.2	1.5	3.1	3.2	3.1	2.7	1.6	3.2	3.1	3.2	1.8	0.9	1.4	2.0	1.7	3.7	5.1	4.7	3.7	3.6	4.6	5.1	5.1	0.9	3.0
22	5.4	3.1	5.4	6.0	5.7	4.6	5.5	5.0	5.8	3.2	3.8	4.7	4.2	3.4	3.7	3.9	4.2	3.9	4.0	3.3	4.6	6.2	4.8	4.3	6.2	3.1	4.5
23	4.5	2.3	2.0	3.2	3.1	3.1	2.0	3.2	2.5	3.6	3.3	3.9	2.7	2.4	1.4	1.6	3.2	3.5	4.9	5.6	6.0	6.6	6.5	6.0	6.6	1.4	3.6
24	6.6	6.5	5.6	7.5	6.5	6.7	5.2	6.7	7.9	7.0	7.2	6.2	6.7	7.1	6.5	7.2	6.0	7.4	7.5	7.5	6.4	6.9	7.8	8.0	8.0	5.2	6.9
25	8.3	8.0	8.4	7.7	8.8	8.4	8.7	9.3	7.7	7.5	9.1	9.7	11.7	12.2	12.3	12.3	13.2	13.4	13.5	13.8	14.3	14.7	13.9	14.5	14.7	7.5	10.9
26	13.7	11.9	14.2	13.5	10.6	9.7	8.4	9.5	9.7	11.7	10.8	10.0	9.2	9.1	8.7	7.3	7.4	6.2	5.9	7.4	8.4	8.3	8.7	9.1	14.2	5.9	9.6
27	7.7	7.9	8.6	7.9	8.5	8.9	7.6	4.9	5.6	9.7	10.9	9.8	8.0	8.0	7.2	6.6	7.8	9.6	13.9	14.6	10.2	12.3	13.8	12.2	14.6	4.9	9.3
28	11.4	11.1	11.3	11.9	12.2	12.2	12.0	10.4	11.5	12.2	11.7	13.1	11.6	12.5	11.4	12.0	11.7	12.9	10.1	11.0	12.9	14.3	12.9	13.3	14.3	10.1	12.0
29	12.5	12.1	11.8	12.4	9.8	10.1	10.1	9.9	10.3	9.1	8.2	8.3	7.7	9.6	11.7	12.7	12.4	12.1	11.8	11.4	11.6	12.2	11.1	10.8	12.7	7.7	10.8
30	10.7	9.6	9.6	11.0	11.2	10.8	10.3	7.8	4.4	5.4	5.0	3.2	11.2	13.1	10.3	10.3	10.3	9.9	11.1	10.2	9.5	7.9	9.2	9.1	13.1	3.2	9.2
31	9.8	9.3	9.3	9.9	10.0	7.7	8.4	8.4	5.4	5.6	6.4	6.6	6.0	6.2	8.2	5.8	7.2	7.1	7.8	9.8	8.9	9.2	9.0	9.1	10.0	5.4	7.9
Max.	**20.0**	**17.6**	**16.3**	**19.2**	**17.1**	**17.9**	**15.9**	**17.6**	**16.2**	**15.2**	**18.5**	**18.2**	**18.6**	**19.0**	**19.3**	**18.2**	**16.7**	**15.1**	**15.9**	**18.7**	**17.3**	**16.1**	**17.5**	**18.0**	**20.0**		
Min.	**2.1**	**1.7**	**2.0**	**1.5**	**2.8**	**2.9**	**2.0**	**2.7**	**1.6**	**1.7**	**2.2**	**3.2**	**1.8**	**0.9**	**1.4**	**1.6**	**1.7**	**3.5**	**3.7**	**2.9**	**1.9**	**1.8**	**2.5**	**2.3**		**0.9**	
Avg.	**9.3**	**8.8**	**8.8**	**9.4**	**8.8**	**8.6**	**8.4**	**8.2**	**8.1**	**8.2**	**8.7**	**8.9**	**9.0**	**9.0**	**8.9**	**9.0**	**8.7**	**8.7**	**9.0**	**9.5**	**9.1**	**9.3**	**9.5**	**9.3**			**8.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.4	8.5	7.2	6.6	7.2	8.1	7.9	8.2	9.3	7.6	7.8	6.3	6.2	7.0	6.7	7.9	7.4	9.3	9.0	8.6	8.6	8.8	9.3	9.3	9.3	6.2	8.0
2	9.1	7.7	7.7	6.4	7.7	7.3	7.4	8.3	11.0	10.6	10.1	9.2	7.7	8.1	8.4	8.0	7.7	7.4	9.1	7.3	7.3	7.7	7.0	6.9	11.0	6.4	8.1
3	6.4	8.3	6.3	7.6	8.5	7.1	7.4	7.0	6.3	6.2	5.3	5.3	5.4	5.9	5.7	6.6	6.6	7.0	5.9	5.6	5.1	6.4	7.2	5.7	8.5	5.1	6.4
4	4.9	5.9	3.9	4.2	5.2	3.6	4.3	1.4	2.8	2.4	2.1	2.7	2.5	3.8	4.0	3.1	6.0	5.3	2.5	5.6	5.2	2.7	2.8	5.1	6.0	1.4	3.8
5	5.3	5.9	7.1	5.7	5.8	7.2	7.0	5.2	3.8	4.1	2.2	1.9	1.9	3.2	3.1	1.7	1.4	3.4	4.6	4.1	3.7	3.9	3.1	2.3	7.2	1.4	4.1
6	2.9	2.9	3.3	3.7	3.1	2.9	3.4	2.8	3.6	3.3	1.9	1.5	3.4	3.4	3.3	2.8	1.2	2.4	2.1	1.4	1.5	3.1	2.9	4.5	4.5	1.2	2.8
7	5.5	3.3	3.0	3.0	2.9	1.8	1.2	4.3	7.9	8.0	7.8	9.1	11.6	12.0	12.2	10.4	8.0	8.0	7.5	11.7	11.7	11.1	11.9	10.5	12.2	1.2	7.7
8	10.0	9.4	9.4	10.9	9.8	10.0	9.5	9.8	9.6	8.5	7.6	6.9	7.4	5.2	5.2	2.3	2.7	2.5	2.7	2.7	2.9	3.3	3.9	3.3	10.9	2.3	6.5
9	2.7	3.3	3.2	2.9	3.5	3.5	2.4	3.5	3.8	3.5	3.3	2.2	2.5	4.5	3.6	1.8	1.3	3.0	2.3	1.3	2.1	1.6	2.6	2.5	4.5	1.3	2.8
10	1.3	2.6	2.2	4.5	5.5	6.1	4.4	3.3	3.1	4.3	3.0	2.8	3.7	3.7	4.3	7.3	6.5	7.1	7.3	7.2	7.6	8.0	8.4	7.9	8.4	1.3	5.1
11	8.1	9.0	5.8	6.2	7.0	7.9	6.8	4.0	5.2	6.5	4.4	5.0	5.4	3.4	3.2	3.3	2.3	2.4	6.0	6.3	6.1	6.0	4.1	6.9	9.0	2.3	5.5
12	2.3	7.2	8.0	9.2	8.9	9.6	11.1	9.7	10.3	6.6	4.0	4.9	5.5	5.6	5.2	4.4	5.5	4.1	3.6	3.9	4.4	3.4	3.7	4.5	11.1	2.3	6.1
13	5.1	3.4	4.2	3.1	3.5	3.7	3.6	5.1	5.8	7.6	3.9	7.5	7.5	8.1	8.1	6.8	8.2	6.6	8.5	6.3	4.8	6.0	4.2	4.5	8.5	3.1	5.7
14	4.5	6.1	4.5	5.6	6.3	5.9	6.0	4.7	4.4	5.7	6.4	7.2	7.1	8.3	8.0	8.8	8.0	7.8	8.5	7.9	8.5	8.3	8.9	9.1	9.1	4.4	6.9
15	9.8	9.4	9.6	10.0	10.3	10.3	10.2	10.9	10.1	10.3	9.4	9.9	9.6	9.8	9.8	9.9	10.7	9.1	9.9	10.6	10.4	11.0	9.5	10.2	11.0	9.1	10.0
16	9.5	8.7	9.1	9.3	11.4	11.2	9.7	9.4	8.7	9.1	8.4					6.4	4.7	4.7	3.4	2.6	1.2	2.0	2.3	2.4	11.4	1.2	6.7
17	1.9	2.7	3.2	3.3	3.1	4.2	7.7	6.4	7.2	6.5	6.5	8.5	9.5	9.3	10.4	8.5	10.8	11.3	13.5	12.2	11.9	10.0	10.3	11.4	13.5	1.9	7.9
18	11.1	10.7	10.4	10.7	10.1	10.2	10.4	9.8	10.5	8.1	5.1	4.3	4.9	4.9	3.8	5.3	6.1	6.3	5.2	2.7	5.6	5.0	7.6	6.2	11.1	2.7	7.3
19	6.8	8.5	10.1	9.2	8.0	4.8	7.5	8.7	9.8	9.3	10.0	9.9	10.6	9.6	6.2	7.4	8.2	5.6	4.7	4.0	4.0	5.0	6.2	6.4	10.6	4.0	7.5
20	4.5	4.5	5.3	4.4	4.5	5.4	5.8	5.2	4.9	5.7	4.7	4.9	5.4	5.7	5.7	4.7	4.5	3.8	3.5	3.1	3.4	3.7	2.9	4.1	5.8	2.9	4.6
21	3.9	7.2	7.6	8.8	7.5	8.8	7.9	7.7	6.7	6.2	5.5	3.5	5.3	7.1	7.8	8.8	10.2	10.5	9.7	12.0	18.0	21.1	23.2	24.3	24.3	3.5	10.0
22	21.2	19.4	19.5	21.1	19.9	19.4	20.2	21.2	21.7	22.3	22.3	21.8	22.5	21.2	22.2	24.2	23.7	24.2	25.0	24.3	21.8	20.6	18.3	17.5	25.0	17.5	21.5
23	16.8	15.9	13.0	8.7	7.6	8.8	8.9	6.7	7.7	10.3	9.1	8.0	9.3	9.7	10.2	9.8	11.3	9.6	7.8	8.9	8.7	8.0	9.5	8.6	16.8	6.7	9.7
24	8.8	9.2	9.0	10.8	8.6	9.0	8.0	9.2	9.8	9.0	10.1	10.6	11.2	10.8	11.3	10.8	10.2	10.2	10.0	10.3	9.1	8.9	8.0	7.9	11.3	7.9	9.6
25	7.5	7.7	7.6	5.4	6.0	7.3	7.0	4.5	5.1	4.8	5.8	6.5	6.4	5.2	4.8	5.5	6.1	7.3	8.2	7.9	8.7	10.8	10.5	12.1	12.1	4.5	7.0
26	12.5	12.2	11.5	12.9	12.1	12.1	11.1	11.1	11.7	12.8	11.4	11.8	12.2	11.3	11.8	10.9	9.8	9.4	10.9	13.2	13.7	13.9	12.5	12.5	13.9	9.4	11.9
27	12.5	13.4	11.0	14.3	15.6	19.6	14.5	17.7	18.1	17.1	16.8	20.2	16.4	17.6	18.3	20.9	20.4	18.2	18.9	21.9	21.6	19.3	20.7	20.0	21.9	11.0	17.7
28	17.6	20.8	20.0	19.9	20.9	23.9	24.1	21.7	21.2	19.5	20.7	18.8	17.6	13.5	11.1	9.6	11.0	11.6	11.7	10.6	10.9	10.8	10.0	9.9	24.1	9.6	16.1
29	9.4	8.5	8.5	8.0	7.3	7.0	7.5	7.8	7.8	7.2	6.6	6.6	7.1	7.1	7.1	6.3	6.6	6.8	6.8	7.0	6.6	7.6	7.7	6.7	9.4	6.3	7.3
30	6.7	6.7	7.3	7.0	6.7	6.0	6.3	6.5	6.3	6.0	5.9	5.7	5.8	5.2	4.5	3.9	4.2	4.3	3.3	3.4	4.0	4.3	5.1	6.1	7.3	3.3	5.5
31	6.2	5.7	6.7	7.0	5.5	4.4	5.4	4.3	5.7	5.5	5.9	5.8	5.1	5.7	6.6	7.1	7.2	8.4	9.7	11.3	11.1	13.4	13.2	12.0	13.4	4.3	7.4
Max.	**21.2**	**20.8**	**20.0**	**21.1**	**20.9**	**23.9**	**24.1**	**21.7**	**21.7**	**22.3**	**22.3**	**21.8**	**22.5**	**21.2**	**22.2**	**24.2**	**23.7**	**24.2**	**25.0**	**24.3**	**21.8**	**21.1**	**23.2**	**24.3**	**25.0**		
Min.	**1.3**	**2.6**	**2.2**	**2.9**	**2.9**	**1.8**	**1.2**	**1.4**	**2.8**	**2.4**	**1.9**	**1.5**	**1.9**	**3.2**	**3.1**	**1.7**	**1.2**	**2.4**	**2.1**	**1.3**	**1.2**	**1.6**	**2.3**	**2.3**		**1.2**	
Avg.	**7.8**	**8.2**	**7.9**	**8.1**	**8.1**	**8.3**	**8.2**	**7.9**	**8.4**	**8.2**	**7.5**	**7.6**	**7.9**	**7.9**	**7.8**	**7.6**	**7.7**	**7.7**	**7.8**	**7.9**	**8.1**	**8.2**	**8.3**	**8.4**			**8.0**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	11.3	12.7	12.7	13.1	13.1	11.5	13.8	14.7	14.5	17.7	16.0	19.5	18.3	18.6	20.6	21.6	16.9	15.1	16.1	17.0	13.1	14.0	19.1	18.9	21.6	11.3	15.8
2	19.0	19.0	18.3	17.5	16.7	16.5	18.0	18.0	17.7	17.3	12.4	11.8	10.5	10.9	11.1	12.1	11.3	10.3	9.9	8.7	7.5	6.9	7.1	6.4	19.0	6.4	13.1
3	6.6	8.0	8.9	9.0	9.2	8.7	10.2	8.6	9.4	8.2	8.5	7.9	9.6	9.1	8.2	9.0	10.3	9.6	9.3	9.7	10.2	11.0	10.5	10.9	11.0	6.6	9.2
4	10.8	10.5	11.4	12.9	13.0	12.3	12.5	12.5	12.9	12.2	13.5	13.7	13.1	14.6	13.7	15.8	16.7	14.6	15.8	13.4	14.9	16.5	16.0	17.4	17.4	10.5	13.8
5	17.8	18.3	15.8	16.8	17.0	16.3	15.5	15.8	16.3	16.0	17.2	14.8	11.9	11.6	11.3	11.7	13.0	15.0	12.5	14.9	14.6	15.4	14.0	13.5	18.3	11.3	14.9
6	13.8	13.3	12.8	12.0	11.9	12.0	10.9	7.9	8.7	6.6	3.5	1.9	6.2	3.1	6.6	4.8	4.3	3.2	3.8	3.6	4.2	3.8	3.6	2.6	13.8	1.9	6.9
7	3.6	5.0	4.6	3.6	3.0	2.4	2.9	7.2	12.6	11.8	10.6	13.4	14.5	17.4	16.1	8.1	7.4	6.6	8.8	12.6	12.0	8.9	11.2	10.8	17.4	2.4	9.0
8	10.1	11.4	6.1	5.9	5.1	4.6	4.5	6.1	6.5	7.6	7.4	7.8	7.5	8.4	12.1	11.3	10.8	11.5	11.1	9.5	10.1	10.6	11.1	10.0	12.1	4.5	8.6
9	13.0	12.0	12.6	13.1	12.7	15.3	16.1	17.7	19.1	19.5	19.2	18.6	18.2	17.4	16.6	13.9	14.0	13.0	11.3	10.7	11.5	10.7	8.5	8.0	19.5	8.0	14.3
10	9.9	11.2	10.5	11.2	10.9	12.8	11.9	11.4	11.8	11.8	12.4	10.7	8.1	6.7			4.4	7.2	5.5	7.5	6.3	5.0	7.2	8.3	12.8	4.4	9.2
11	9.1	8.7	7.9	7.2	8.4	9.6	9.0	10.1	11.2	11.3	11.1	10.4	9.7	9.6	9.7	11.8	12.1	11.3	11.3	10.7	9.5	10.4	10.7	9.4	12.1	7.2	10.0
12	7.4	7.0	6.9	7.4	10.7	9.9	10.1	10.5	12.2	11.1	15.5	16.7	18.1	13.9	11.9	10.8	16.7	20.3	20.1	14.5	16.2	14.4	11.5	10.3	20.3	6.9	12.7
13	5.4	2.7	3.4	3.5	3.8	2.7	1.7	5.0	5.6	5.5	4.5	7.3	7.7	8.0	7.4	7.4	6.9	8.7	8.1	8.4	8.0	6.1	6.0	6.3	8.7	1.7	5.8
14	7.4	8.1	8.3	7.9	7.0	7.6	6.2	9.1	8.0	7.5	6.9	8.8	8.7	8.4	7.4	6.8	6.6	6.6	6.3	6.9	8.0	9.4	8.0	9.8	9.8	6.2	7.7
15	9.6	10.1	8.5	8.9	9.9	9.0	9.8	10.2	9.7	7.6	5.3	7.8	6.8	6.7	7.4	9.2	9.0	8.5	8.6	9.8	8.0	7.4	6.5	6.3	10.2	5.3	8.4
16	6.1	5.3	5.3	4.9	5.0	4.7	2.9	2.7	2.7	2.5	1.9	2.1	3.9	3.9	2.5	3.5	4.9	4.4	5.4	6.2	5.3	5.1	5.7	5.8	6.2	1.9	4.3
17	7.1	7.9	7.8	7.8	7.3	9.2	10.2	11.8	13.7	12.8	10.5	11.2	11.7	10.0	10.1	9.8	9.5	7.9	8.4	8.6	8.8	8.8	10.4	9.0	13.7	7.1	9.6
18	9.3	7.7	7.1	7.2	6.4	6.1	7.1	6.3	7.9	9.9	10.1	7.1	5.5	6.5	3.1	5.6	5.7	4.9	5.2	5.5	6.7	6.2	5.8	5.7	10.1	3.1	6.6
19	4.3	13.6	16.0	14.2	11.4	9.5	7.5	8.2	12.1	9.0	12.1	12.5	11.4	7.1	10.0	10.3	13.7	14.5	15.6	15.2	12.9	13.1	9.9	9.8	16.0	4.3	11.4
20	8.2	9.5	8.8	8.0	5.6	6.5	5.9	7.8	8.3	10.4	7.5	6.8	7.1	13.7	12.4	11.8	13.2	19.3	21.1	20.4	17.2	19.4	19.3	16.9	21.1	5.6	11.9
21	17.6	15.0	15.2	10.4	13.4	15.1	13.9	12.8	16.2	11.0	10.3	10.5	14.6	12.1	10.8	10.5	8.3	7.5	7.5	7.4	8.9	7.0	7.8	8.5	17.6	7.0	11.3
22	8.4	9.3	7.8	5.7	5.9	6.3	13.3	10.3	8.1	8.1	8.9	9.9	8.1	6.1	5.9	5.0	5.5	5.1	5.3	9.1	7.9	7.4	6.6	5.6	13.3	5.0	7.5
23	4.6	4.2	4.0	3.5	1.6	3.4	2.9	4.3	3.2	9.5	12.6	10.1	9.2	8.8	9.2	6.6	7.4	10.0	7.4	4.8	5.9	6.2	5.9	6.9	12.6	1.6	6.3
24	6.5	5.7	6.0	6.6	6.0	7.1	7.4	7.4	8.5	8.3	8.0	7.8	5.2	4.4	4.3	4.2	3.2	3.6	6.4	6.1	6.1	6.1	4.8	4.2	8.5	3.2	6.0
25	4.3	4.1	4.6	2.9	3.0	2.8	2.3	1.7	1.4	4.5	3.9	1.3	6.6	3.9	13.7	9.1	11.3	9.1	13.3	13.5	15.2	12.0	9.1	10.2	15.2	1.3	6.8
26	12.0	9.9	12.7	9.6	9.9	8.9	6.8	7.7	5.6	5.7	6.1	8.0	6.8	9.2	7.5	6.5	6.5	6.7	4.5	2.8	2.4	4.8	5.1	6.2	12.7	2.4	7.2
27	7.9	8.1	8.8	8.5	7.9	6.0	3.7	9.8	12.3	6.8	6.9	5.4	5.5	4.2	6.7	6.8	6.7	8.9	10.4	10.1	8.5	7.6	9.5	9.3	12.3	3.7	7.7
28	11.1	12.0	10.9	11.8	12.0	13.2	13.5	12.9	12.6	12.2	9.0	11.4	13.0	14.0	16.5	18.5	14.9	14.3	14.6	16.0	13.9	13.9	12.8	13.0	18.5	9.0	13.2
Max.	**19.0**	**19.0**	**18.3**	**17.5**	**17.0**	**16.5**	**18.0**	**18.0**	**19.1**	**19.5**	**19.2**	**19.5**	**18.3**	**18.6**	**20.6**	**21.6**	**16.9**	**20.3**	**21.1**	**20.4**	**17.2**	**19.4**	**19.3**	**18.9**	**21.6**		
Min.	**3.6**	**2.7**	**3.4**	**2.9**	**1.6**	**2.4**	**1.7**	**1.7**	**1.4**	**2.5**	**1.9**	**1.3**	**3.9**	**3.1**	**2.5**	**3.5**	**3.2**	**3.2**	**3.8**	**2.8**	**2.4**	**3.8**	**3.6**	**2.6**		**1.3**	
Avg.	**9.4**	**9.6**	**9.4**	**9.0**	**8.8**	**8.9**	**8.9**	**9.6**	**10.3**	**10.1**	**9.7**	**9.8**	**9.9**	**9.6**	**10.1**	**9.7**	**9.7**	**9.9**	**10.1**	**10.1**	**9.8**	**9.6**	**9.4**	**9.3**			**9.6**

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	14.8	9.5	5.9	10.2	9.8	9.3	10.1	10.1	5.8	6.7	7.1	5.8	5.7	5.6	4.1	3.2	4.2	5.1	7.5	7.9	6.9	8.1	8.7	8.1	14.8	3.2	7.5
2	4.7	7.5	8.1	7.7	7.9	8.8	8.6	10.2	10.8	10.7	10.1	9.7	9.8	10.3	9.2	9.3	11.1	9.4	9.8	9.7	10.0	10.5	9.7	10.5	11.1	4.7	9.3
3	9.7	9.8	8.8	7.6	8.7	9.1	8.6	8.5	9.4	8.6	8.5	6.9	7.1	7.3	6.5	6.4	4.8	4.2	4.9	5.2	5.2	5.7	5.5	6.2	9.8	4.2	7.2
4	5.9	5.7	6.0	7.1	6.3	6.3	6.8	6.8	7.6	6.9	6.6	6.4	7.3	7.4	7.9	7.4	7.5	7.4	7.2	6.7	7.3	7.2	7.2	6.8	7.9	5.7	6.9
5	7.0	7.0	8.6	8.0	8.1	7.5	7.8	2.8	5.0	2.5	2.9	8.2	7.6	8.0	5.6	4.9	5.9	8.3	10.0	11.4	9.0	9.2	6.7	7.9	11.4	2.5	7.1
6	11.5	10.9	9.7	10.4	9.7	8.3	7.8	12.8	15.7	14.7	16.3	12.2	13.9	9.0	10.0	9.0	7.8	6.3	5.6	4.9	5.8	6.8	7.0	7.9	16.3	4.9	9.7
7	8.0	6.7	6.5	7.2	7.3	7.0	8.1	7.7	12.1	13.5	14.0	15.2	13.6	12.4	13.1	14.2	15.0	14.9	15.9	14.8	13.3	18.8	15.0	16.8	18.8	6.5	12.1
8	18.8	20.1	18.4	17.3	21.8	22.2	20.4	22.7	20.5	18.5	17.9	17.5	18.0	17.3	18.0	20.8	22.5	24.4	21.5	15.2	18.2	13.7	10.6	13.3	24.4	10.6	18.7
9	16.4	13.9	16.2	13.5	20.9	21.2	15.7	15.6	15.8	17.2	19.3	17.4	15.3	16.8	13.7	14.6	13.2	13.9	11.9	14.1	14.5	13.5	12.8	11.2	21.2	11.2	15.3
10	9.5	8.6	8.1	8.4	7.8	8.2	9.3	4.3	6.6	5.6	5.5	4.1	3.7	3.5	3.7	2.9	3.1	5.6	6.7	5.7	5.8	7.5	7.5	7.0	9.5	2.9	6.2
11	6.9	7.7	10.7	11.1	9.6	11.2	9.8	10.9	11.0	11.8	10.9	10.0	9.5	10.2	9.5	8.9	8.9	10.5	9.9	10.0	10.5	10.0	9.1	7.7	11.8	6.9	9.8
12	12.0	11.1	10.9	11.5	10.5	10.4	9.2	8.7	7.4	7.1	7.7	8.4	9.2	8.8	9.1	9.1	8.1	7.1	7.2	6.4	5.9	4.8	4.1	3.5	12.0	3.5	8.3
13	3.9	3.4	2.4	2.0	2.3	2.7	2.9	3.3	2.6	3.0	5.2	6.3	4.1	3.5	3.0	2.9	3.0	2.5	2.4	2.6	2.0	2.0	3.0	2.7	6.3	2.0	3.1
14	2.6	3.4	3.2	3.7	4.0	3.4	3.0	3.4	5.0	5.4	5.4	3.7	4.6	4.2	5.1	5.7	3.4	4.9	5.7	4.3	5.0	6.1	5.6	3.7	6.1	2.6	4.4
15	5.7	5.7	5.3	6.6	6.5	6.0	5.9	5.3	4.8	5.9	3.8	2.6	2.0	2.0	2.0	2.2	3.4	3.4	5.0	3.6	4.5	5.5	6.8	6.9	6.9	2.0	4.6
16	6.0	8.2	7.7	6.6	6.7	7.0	6.6	7.8	8.6	9.2	9.1	8.3	8.5	7.8	5.8	7.4	7.0	4.4	6.3	6.0	5.8	6.1	7.6	6.0	9.2	4.4	7.1
17	5.9	6.0	5.8	7.3	7.7	7.3	6.5	6.9	7.5	6.6	7.7	10.4	11.4	11.2	9.5	9.6	9.0	9.3	9.9	7.9	9.1	9.3	9.3	9.0	11.4	5.8	8.3
18	10.5	11.8	10.7	11.1	10.2	9.8	9.7	9.8	9.8	9.1	9.8	10.8	11.5	11.1	10.4	9.0	6.2	5.2	3.3	1.6	1.3	1.6	0.8	1.5	11.8	0.8	7.8
19	3.3	2.1	2.9	3.3	2.7	2.6	4.2	4.3	4.6	4.7	3.8	2.9	3.1	3.9	6.2	6.1	5.0	3.9	3.5	2.6	1.8	3.9	5.7	5.7	6.2	1.8	3.9
20	5.4	5.2	5.0	4.9	5.6	5.9	5.3	4.6	3.6	4.2	3.4	2.1	3.2	4.2	4.6	7.9	7.4	6.9	8.8	9.1	8.4	9.8	9.9	8.1	9.9	2.1	6.0
21	8.4	9.2	7.6	7.6	7.2	7.4	6.5	6.9	4.4	4.3	6.8	5.8	3.3	3.5	2.4	3.3	5.6	6.7	5.6	6.2	5.8	5.5	5.0	7.4	9.2	2.4	5.9
22	10.0	10.2	10.2	10.3	11.0	11.4	11.9	11.9	13.8	11.6	11.2	10.0	9.8	8.5	7.4	7.3	4.7	4.6	2.1	3.4	6.4	6.8	6.7	5.8	13.8	2.1	8.6
23	5.7	4.2	4.2	3.0	2.9	3.1	4.0	5.8	6.6	8.1	8.1	8.4	6.0	7.1	3.3	3.7	6.2	11.8	11.8	11.3	10.6	11.6	11.1	9.1	11.8	2.9	7.0
24	9.4	10.0	10.7	10.5	10.3	10.2	10.2	9.0	9.1	9.5	8.2	6.1	3.8	3.2	4.4	5.3	3.8	4.8	5.9	7.8	8.2	8.2	7.3	6.9	10.7	3.2	7.6
25	6.1	6.3	6.4	4.3	6.8	6.2	6.8	7.0	6.8	7.1	7.7	2.3	1.7	2.7	2.7	2.1	3.0	4.9	4.4	6.9	6.6	7.1	8.0	9.0	9.0	1.7	5.5
26	8.1	8.7	8.4	8.3	8.8	8.5	9.5	10.1	9.7	8.9	7.8	5.8	2.4	2.8	2.6	3.4	3.7	3.9	1.9	6.4	5.8	6.8	5.6	5.9	10.1	1.9	6.4
27	6.1	5.1	5.5	4.6	4.9	5.0	3.2	3.4	3.8	1.9	2.3	3.1	3.3	3.4	4.2	3.7	3.4	3.2	2.7	2.3	2.1	1.8	4.3	4.2	6.1	1.8	3.7
28	3.3	4.1	4.3	5.3	4.9	5.1	5.1	4.7	5.3	3.4	1.7	2.9	4.3	4.2	4.5	3.6	3.7	3.3	4.9	3.1	1.9	1.6	2.4	4.1	5.3	1.6	3.8
29	6.4	5.5	4.5	5.3	5.6	6.7	4.7	6.0	4.9	5.1	3.4	3.1	1.6	4.6	5.7	6.1	6.1	1.6	2.5	2.2	1.5	1.6	4.1	4.7	6.7	1.5	4.3
30	6.0	4.8	5.7	6.5	6.2	9.1	8.4	9.5	9.2	8.9	8.7	9.8	9.9	13.3	10.8	11.1	10.7	11.2	8.8	11.2	10.7	11.9	13.7	9.4	13.7	4.8	9.4
31	11.9	12.3	11.2	11.8	10.6	9.8	10.3	12.0	9.7	10.5	9.4	9.5	11.5	10.6	10.4	9.7	8.4	7.7	5.9	5.9					12.3	5.9	9.9
Max.	**18.8**	**20.1**	**18.4**	**17.3**	**21.8**	**22.2**	**20.4**	**22.7**	**20.5**	**18.5**	**19.3**	**17.5**	**18.0**	**17.3**	**18.0**	**20.8**	**22.5**	**24.4**	**21.5**	**15.2**	**18.2**	**18.8**	**15.0**	**16.8**	**24.4**		
Min.	**2.6**	**2.1**	**2.4**	**2.0**	**2.3**	**2.6**	**2.9**	**2.8**	**2.6**	**1.9**	**1.7**	**2.1**	**1.6**	**2.0**	**2.0**	**2.1**	**3.0**	**1.6**	**1.9**	**1.6**	**1.3**	**1.6**	**0.8**	**1.5**		**0.8**	
Avg.	**8.1**	**7.9**	**7.7**	**7.8**	**8.2**	**8.3**	**8.0**	**8.1**	**8.3**	**8.1**	**8.1**	**7.6**	**7.3**	**7.4**	**6.9**	**7.1**	**7.0**	**7.1**	**7.1**	**7.0**	**7.0**	**7.4**	**7.4**	**7.2**			**7.6**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

April *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1					8.0	7.4	8.9	11.1	12.3	11.1	12.4	10.4	9.4	16.6	14.0	10.1	10.8	12.5	11.2	10.6	8.4	9.2	9.6	10.8	16.6	7.4	10.7
2	7.8	10.8	10.9	10.6	12.8	9.8	8.0	7.9	6.5	5.4	5.2	3.0	2.9	2.7	3.2	3.9	3.9	3.1	2.7	4.0	4.9	6.1	6.4	7.6	12.8	2.7	6.2
3	8.0	8.3	7.7	8.5	8.2	8.5	8.9	9.5	9.7	10.7	10.2	9.7	10.7	10.3	10.6	10.5	9.4	7.9	7.2	7.6	7.6	8.0	8.3	8.0	10.7	7.2	8.9
4	8.6	7.5	7.3	6.2	6.1	7.1	6.1	6.4	7.0	6.2	5.3	4.5	2.4	1.7	1.9	1.8	2.3	1.7	1.5	1.8	2.0	2.3	2.5	2.3	8.6	1.5	4.3
5	4.6	8.6	8.3	8.2	6.1	6.8	9.4	8.7	10.8	10.4	12.5	14.2	14.1	13.5	11.2	12.9	10.0	12.7	12.5	16.3	15.8	14.8	14.8	14.0	16.3	4.6	11.3
6	12.2	12.8	11.7	8.4	8.2	8.4	9.2	8.5	9.5	8.6	4.6	3.6	3.8	4.7	4.4	4.1	4.3	4.1	3.0	3.2	4.4	2.8	1.8	2.3	12.8	1.8	6.2
7	3.1	2.0	5.2	4.6	2.8	5.9	5.1	4.7	4.8	3.9	3.9	4.0	2.6	2.3	2.5	2.6	4.9	2.7	3.2	3.2	2.8	5.4	6.0	5.5	6.0	2.0	3.9
8	7.0	10.4	6.7	7.6	8.5	7.0	6.7	8.7	8.8	5.9	6.4	5.7	5.5	8.6	6.5	6.6	6.9	6.9	6.1	5.1	4.4	3.7	2.4	3.3	10.4	2.4	6.5
9	1.5	1.2	2.0	2.9	2.6	2.0	3.2	3.6	2.5	4.1	3.4	2.1	2.6	4.7	4.9	4.4	5.4	4.4	1.9	2.5	3.2	7.7	6.3	8.5	8.5	1.2	3.7
10	8.7	12.0	11.5	11.3	8.7	11.9	10.8	11.6	12.6	13.3	15.8	17.2	13.2	15.1	19.9	21.1	18.8	17.9	8.7	7.3	16.5	16.7	14.3	13.4	21.1	7.3	13.7
11	12.4	10.6	9.9	9.0	6.9	8.7	6.4	5.9	5.9	4.1	5.3	4.8	4.7	8.0	9.7	10.3	10.8	11.0	10.3	10.2	10.4	11.4	11.5	10.1	12.4	4.1	8.7
12	10.5	10.8	9.9	10.1	10.0	11.0	10.9	10.5	9.5	9.5	9.9	9.5	8.7	7.9	6.4	4.6	1.3	0.8	1.5	3.4	3.6	8.6	9.8	8.5	11.0	0.8	7.8
13	10.7	12.7	12.7	12.8	13.5	13.2	12.5	13.7	14.4	12.2	13.0	12.7	18.2	18.8	20.4	22.4	21.7	21.2	12.2	14.3	13.8	14.0	13.3	13.7	22.4	10.7	14.9
14	13.8	14.0	13.2	12.5	14.0	14.2	14.4	13.7	13.9	14.0	14.3	14.5	14.4	14.0	13.9	13.2	12.6	12.1	10.5	10.3	11.7	15.2	12.5	11.6	15.2	10.3	13.3
15	12.3	10.9	10.3	10.1	9.8	8.9	7.2	10.1	12.8	12.3	12.1	14.8	15.9	11.0	11.8	10.5	9.8	10.4	9.0	7.7	6.4	6.4	5.1	8.1	15.9	5.1	10.1
16	5.1	6.5	5.1	4.5	7.7	8.7	10.2	10.6	11.2	9.9	9.8	10.8	11.4	10.2	12.4	14.8	12.5	13.1	12.8	13.5	14.1	15.0	12.7	13.9	15.0	4.5	10.7
17	13.0	13.2	12.8	13.9	12.6	11.4	11.1	7.8	4.6	7.9	8.1	5.9	6.4	7.8	7.2	6.8	6.1	7.0	6.9	7.0	4.7	3.4	3.3	7.6	13.9	3.3	8.2
18	4.7	5.7	4.3	3.4	2.5	2.3	3.4	3.1	3.3	2.5	2.4	3.0	4.0	3.7	5.1	6.1	2.7	2.0	2.0	6.0	6.6	7.4	5.8	6.4	7.4	2.0	4.1
19	9.8	11.5	11.4	12.3	10.7	13.0	12.1	10.7	6.9	8.0	7.0	5.8	5.9	5.5	2.2	3.9	3.5	3.1	1.2	1.5	5.5	4.3	4.6	4.8	13.0	1.2	6.9
20	3.6	3.1	3.6	4.7	5.5	5.2	5.0	5.2	5.4	5.8	6.7	5.0	5.7	4.7	5.6	6.1	8.2	7.9	6.0	6.1	6.6	8.4	8.0	8.3	8.4	3.1	5.8
21	8.7	10.1	10.6	10.7	11.2	10.6	12.2	11.9	12.4	12.4	11.5	10.9	9.5	7.9	6.5	4.4	6.0	3.5	4.2	5.5	5.8	5.4	5.3	5.9	12.4	3.5	8.5
22	5.4	6.3	5.7	6.4	6.1	5.1	4.7	4.4	4.0	4.4	2.4	2.5	2.0	2.5	2.5	2.5	2.7	2.7	2.3	2.7	2.4	2.5	3.1	4.8	6.4	2.0	3.8
23	3.9	5.5	6.2	5.7	5.8	7.0	6.0	4.7	4.5	4.1	5.0	6.0	5.1	4.4	2.4	4.5	5.2	2.9	2.5	7.2	7.9	8.5	8.7	8.6	8.7	2.4	5.5
24	7.8	5.7	4.1	3.8	7.1	9.0	10.9	7.2	4.4	9.7	9.8	10.0	11.6	15.0	13.5	11.8	11.1	9.4	15.0	19.0	14.1	10.5	13.4	12.0	19.0	3.8	10.2
25	10.6	8.2	3.2	6.5	4.5	4.9	4.6	5.1	5.4	5.1	5.4	6.0	6.4	5.9	6.7	6.5	7.8	7.5	8.1	6.8	7.6	6.7	7.6	7.1	10.6	3.2	6.4
26	8.2	8.6	8.3	8.0	8.0	10.0	9.9	9.1	9.4	10.7	9.2	9.3	8.8	8.9	8.1	8.0	7.6	6.9	6.3	6.9	6.9	7.1	5.5	5.9	10.7	5.5	8.2
27	6.4	6.4	6.6	6.8	7.6	7.8	7.9	7.8	7.6	7.1	6.0	6.0	5.4	3.7	2.7	2.9	2.8	3.1	2.4	2.1	1.8	3.1	3.7	4.1	7.9	1.8	5.1
28	5.9	6.2	5.5	5.5	4.0	3.8	5.8	4.2	4.3	3.7	2.9	2.3	2.9	4.0	3.6	3.5	3.6	3.0	2.8	1.3	1.5	2.4	2.6	2.7	6.2	1.3	3.7
29	2.7	7.1	9.7	9.3	10.9	11.5	11.7	11.7	11.7	9.5	8.9	7.5	6.1	4.3	6.6	6.9	7.1	6.6	6.6	6.0	6.4	6.7	4.8	4.3	11.7	2.7	7.7
30	4.0	3.7	4.3	3.4	6.2	6.2	7.2	7.5	5.3	7.3	6.6	5.2	3.6	4.4	4.9	4.8	3.7	4.3	1.8	4.0	5.2	5.2	5.0	5.7	7.5	1.8	5.0
Max.	**13.8**	**14.0**	**13.2**	**13.9**	**14.0**	**14.2**	**14.4**	**13.7**	**14.4**	**14.0**	**15.8**	**17.2**	**18.2**	**18.8**	**20.4**	**22.4**	**21.7**	**21.2**	**15.0**	**19.0**	**16.5**	**16.7**	**14.8**	**14.0**	**22.4**		
Min.	**1.5**	**1.2**	**2.0**	**2.9**	**2.5**	**2.0**	**3.2**	**3.1**	**2.5**	**2.5**	**2.4**	**2.1**	**2.0**	**1.7**	**1.9**	**1.8**	**1.3**	**0.8**	**1.2**	**1.3**	**1.5**	**2.3**	**1.8**	**2.3**		**0.8**	
Avg.	**7.6**	**8.3**	**7.9**	**7.8**	**7.9**	**8.2**	**8.3**	**8.2**	**8.0**	**8.0**	**7.9**	**7.6**	**7.5**	**7.7**	**7.7**	**7.8**	**7.4**	**7.1**	**6.1**	**6.8**	**7.1**	**7.6**	**7.3**	**7.7**			**7.6**

Total Hours in Month 720 **Hours Data Available** 716 **Data Recovery** 99.4%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	5.6	5.1	5.2	7.0	6.9	7.2	7.0	8.6	10.7	11.3	10.6	11.6	11.8	12.8	13.5	13.1	13.1	14.5	14.9	16.8	16.2	13.9	13.1	13.3	16.8	5.1	11.0
2	13.7	12.7	11.9	11.5	10.2	11.2	11.4	11.5	9.1	9.1	11.2	10.2	9.4	8.0	6.9	6.2	6.5	5.4	5.7	4.6	4.8	5.2	4.6	4.8	13.7	4.6	8.6
3	5.9	5.9	5.3	5.0	6.2	6.9	7.1	6.4	9.2	10.1	11.8	12.5	12.7	11.1	9.3	5.9	7.6	7.1	6.5	6.2	6.2	6.4	7.7	8.7	12.7	5.0	7.8
4	9.3	10.5	10.1	7.6	5.1	5.7	5.0	7.6	5.3	4.9	4.5	4.6	4.3	4.3	5.2	5.6	5.6	7.0	7.1	5.9	6.3	8.4	7.5	9.7	10.5	4.3	6.6
5	9.5	9.1	8.6	10.5	9.6	8.9	9.8	11.0	11.4	11.6	10.9	9.8	9.4	7.6	5.0	4.2	4.1	3.9	2.6	1.9	2.2	4.4	3.3	5.1	11.6	1.9	7.3
6	5.0	1.8	2.2	1.7	2.1	1.9	1.3	1.6	1.8	1.4	1.6	1.5	2.0	1.5	5.5	7.9	8.7	11.2	11.6	12.3	11.3	11.9	12.8	13.5	13.5	1.3	5.6
7	13.9	14.1	14.8	15.2	14.0	14.0	13.2	14.7	12.9	14.8	12.9	13.4	13.3	12.4	10.7	12.0	13.2	13.7	9.4	10.5	10.7	12.2	11.3	10.3	15.2	9.4	12.8
8	8.3	6.7	6.4	4.2	2.8	3.4	4.9	5.3	6.4	7.3	6.8	7.2	9.3	9.3	9.0	8.3	8.9	9.0	9.0	10.1	9.7	9.5	10.1	11.3	11.3	2.8	7.6
9	12.3	11.8	12.1	13.6	12.5	11.8	13.1	12.7	14.6	13.6	12.8	14.1	13.8	12.8	12.4	13.2	13.0	12.5	11.0	11.7	10.6	8.2	8.0	8.6	14.6	8.0	12.1
10	9.5	8.8	12.1	9.2	8.3	5.2	6.6	6.3	5.7	4.5	6.4	4.6	2.8	4.4	1.8	2.2	3.9	2.8	2.7	3.6	3.3	1.8	4.3	3.7	12.1	1.8	5.2
11	1.8	4.2	5.3	5.2	2.1	2.9	3.1	4.8	3.6	3.2	3.0	3.0	2.0	1.9	2.1	3.7	3.0	3.2	1.9	2.1	6.4	5.0	5.9	6.1	6.4	1.8	3.6
12	5.8	6.3	4.7	4.0	4.8	4.5	5.1	6.4	6.8	6.7	6.6	4.6	2.9	8.7	7.5	7.2	6.8	2.9	1.8	2.0	1.9	3.5	5.2	5.5	8.7	1.8	5.1
13	4.6	3.9	3.9	3.5	3.4	4.5	5.4	6.7	7.3	6.9	4.7	5.1	4.1	3.9	2.0	3.8	3.5	2.4	1.9	1.2	3.8	2.9	2.3	1.9	7.3	1.2	3.9
14	1.1	1.7	1.9	2.8	3.1	3.9	4.2	4.4	2.9	4.8	5.2	4.6	2.9	4.2	4.6	3.3	3.9	3.9	3.5	3.7	3.2	2.5	2.8	3.9	5.2	1.1	3.5
15	3.2	2.1	2.6	2.1	2.9	1.8	2.3	3.1	3.8	2.2	1.7	4.1	3.8	5.1	5.7	6.3	6.3	6.1	5.0	4.0	2.6	2.1	2.9	2.0	6.3	1.7	3.5
16	1.9	7.8	7.6	8.4	9.2	8.5	7.7	5.7	4.2	4.7	5.0	4.0	4.2	4.9	3.9	4.7	5.6	5.0	5.2	4.1	1.9	1.9	1.8	1.4	9.2	1.4	5.0
17	2.0	3.3	4.7	5.1	5.0	5.7	7.2	7.7	8.3	8.3	7.6	7.3	5.0	3.7	4.2	4.6	4.2	3.4	2.3	3.0	2.3	3.0	2.4	2.0	8.3	2.0	4.7
18	2.6	3.3	3.2	3.3	2.8	2.6	3.3	2.8	3.6	5.4	3.9	5.0	7.0	10.4	10.5	12.5	10.9	12.3	14.1	12.8	8.8	11.5	12.9	12.9	14.1	2.6	7.4
19	12.7	12.4	11.7	10.4	7.3	7.9	4.9	5.0	5.7	4.6	3.5	2.7	3.7	6.2	5.5	3.6	6.4	6.7	7.5	9.6	9.3	7.4	6.3	7.3	12.7	2.7	7.0
20	7.9	8.8	9.3	9.1	7.7	8.4	8.3	8.0	7.4	7.9	8.7	7.9	7.2	7.7	8.8	8.6	6.9	6.8	4.6	3.5	1.8	3.0	2.5	3.5	9.3	1.8	6.8
21	5.2	3.9	4.8	5.4	7.0	5.1	5.3	5.4	7.3	8.7	7.8	9.0	8.6	7.4	7.1	9.4	7.9	7.7	7.7	7.4	9.4	9.6	10.0	9.9	10.0	3.9	7.4
22	9.7	8.0	6.2	5.2	8.7	7.0	7.3	7.2	7.1	5.7	5.8	4.2	6.7	7.7	8.0	7.9	8.3	8.8	9.6	7.0	3.8	4.0	3.4	4.0	9.7	3.4	6.7
23	4.3	4.4	3.3	2.1	2.4	3.3	6.8	7.3	2.0	2.9	5.1	3.0	4.8	5.6	5.5	3.2	3.3	2.4	2.2	1.0	2.0	4.3	4.8	4.8	7.3	1.0	3.8
24	5.8	5.5	5.2	5.0	2.1	6.0	3.4	3.4	2.9	2.9	3.4	3.7	4.8	4.2	2.2	2.4	3.6	1.8	0.8	1.2	2.5	3.7	3.8	4.0	6.0	0.8	3.5
25	3.6	4.1	3.8	1.4	2.4	3.5	3.1	1.8	2.3	3.4	2.8	1.7	2.5	2.3	3.3	2.6	2.1	2.4	1.3	1.1	2.5	3.9	4.3	5.8	5.8	1.1	2.8
26	5.2	5.4	4.6	4.5	4.4	3.9	5.4	5.4	5.1	5.0	2.2	2.4	3.0	3.0	2.3	4.8	2.4	2.3	2.7	2.9	3.6	3.8	5.5	6.0	6.0	2.2	4.0
27	6.2	4.3	3.1	2.6	3.5	2.9	3.3	3.6	3.9	3.4	2.7	2.0	2.3	2.3	3.1	3.0	3.0	2.7	2.4	2.0	3.5	5.9	5.6	5.4	6.2	2.0	3.4
28	5.4	5.5	4.9	5.8	4.8	6.0	5.6	2.0	6.0	5.7	6.5	8.8	6.1	5.9	5.7	5.3	4.7	3.7	2.3	2.2	1.5	1.6	3.8	3.3	8.8	1.5	4.7
29	1.9	1.9	2.7	4.0	2.8	5.6	5.5	5.4	4.0	2.9	2.3	2.7	2.2	2.7	2.6	2.7	3.1	3.1	2.7	3.0	1.8	2.8	2.4	2.1	5.6	1.8	3.0
30	2.5	3.0	2.3	2.4	2.1	2.9	4.0	5.3	4.6	4.2	1.5	2.0	1.5	2.1	3.4	2.3	1.9	2.5	2.5	3.9	2.6	1.5	1.9	2.0	5.3	1.5	2.7
31	2.3	3.8	3.2	3.9	3.9	2.2	2.6	2.1	1.8	2.4	2.4	3.2	2.9	3.1	3.6	3.8	2.9	2.6	3.4	2.5	2.4	2.2	1.4	2.1	3.9	1.4	2.8
Max.	**13.9**	**14.1**	**14.8**	**15.2**	**14.0**	**14.0**	**13.2**	**14.7**	**14.6**	**14.8**	**12.9**	**14.1**	**13.8**	**12.8**	**13.5**	**13.2**	**13.2**	**14.5**	**14.9**	**16.8**	**16.2**	**13.9**	**13.1**	**13.5**	**16.8**		
Min.	**1.1**	**1.7**	**1.9**	**1.4**	**2.1**	**1.8**	**1.3**	**1.6**	**1.8**	**1.4**	**1.5**	**1.5**	**1.5**	**1.5**	**1.8**	**2.2**	**1.9**	**1.8**	**0.8**	**1.0**	**1.5**	**1.5**	**1.4**	**1.4**		**0.8**	
Avg.	**6.1**	**6.1**	**6.0**	**5.8**	**5.5**	**5.6**	**5.9**	**6.1**	**6.0**	**6.1**	**5.9**	**5.8**	**5.7**	**6.0**	**5.8**	**5.9**	**6.0**	**5.8**	**5.4**	**5.3**	**5.1**	**5.4**	**5.6**	**6.0**			**5.8**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	2.4	2.1	5.0	6.9	5.2	3.5	3.5	3.7	2.5	2.0	1.9	3.1	4.8	4.8	4.3	3.7	3.1	2.3	1.5	2.0	1.7	1.7	4.4	5.7	6.9	1.5	3.4
2	8.3	6.2	5.6	3.8	3.9	4.0	5.6	5.3	5.4	5.8	6.5	5.2	4.3	5.6	5.9	8.3	6.6	6.4	3.5	3.7	3.4	3.9	3.2	2.4	8.3	2.4	5.1
3	2.8	2.4	2.8	10.5	8.5	11.9	12.5	12.9	13.0	10.3	12.9	12.0	14.9	9.7	10.1	11.7	10.4	7.8	6.8	8.7	11.9	9.7	8.4	10.0	14.9	2.4	9.7
4	9.4	9.1	9.3	5.9	5.1	5.9	5.3	4.6	3.4	1.6	5.9	4.6	4.4	4.5	4.7	5.0	4.9	4.9	3.9	3.7	3.4	2.9	3.5	4.5	9.4	1.6	5.0
5	4.6	4.2	4.8	2.7	4.3	3.3	3.7	2.6	2.0	3.9	5.6	4.6	4.2	4.2	4.5	4.8	4.5	3.6	3.8	3.0	3.1	2.5	2.2	3.9	5.6	2.0	3.8
6	3.9	4.1	2.7	2.3	2.9	2.9	2.7	2.1	3.9	5.2	3.4	2.9	3.6	2.8	3.4	3.5	3.1	4.1	3.1	4.6	2.1	3.6	3.7	4.9	5.2	2.1	3.4
7	5.5	5.8	6.7	6.9	4.4	4.5	5.3	4.8	5.4	5.4	4.5	3.9	5.1	3.9	4.7	4.0	3.7	5.0	4.7	4.4	4.8	7.7	6.5	6.9	7.7	3.7	5.2
8	7.4	5.4	5.2	7.4	6.5	6.6	6.9	7.2	7.2	8.2	9.1	9.8	9.1	8.1	8.1	9.1	9.0	9.0	8.7	8.7	9.8	9.2	8.8	10.3	10.3	5.2	8.1
9	9.4	10.2	9.9	10.7	10.6	12.0	10.3	11.9	11.8	11.4	12.6	11.5	10.8	9.5	10.1	9.2	9.9	7.1	7.5	8.5	8.3	7.7	5.9	7.3	12.6	5.9	9.8
10	6.2	5.7	4.2	4.6	4.4	5.0	6.6	6.9	7.9	4.6	4.1	4.8	5.2	7.4	8.1	7.0	6.8	8.0	6.1	7.3	7.0	8.5	8.1	8.8	8.8	4.1	6.4
11	7.9	7.5	6.0	5.5	5.3	6.3	7.3	7.5	7.9	7.6	7.5	8.4	8.3	8.5	6.8	7.0	7.7	7.6	7.8	9.3	8.2	9.2	8.2	7.8	9.3	5.3	7.5
12	8.2	8.9	7.1	7.6	6.2	6.7	7.3	6.2	5.4	5.7	4.3	2.4	1.8	2.1	1.9	1.6	3.5	3.3	2.7	2.8	3.0	3.7	4.1	3.3	8.9	1.6	4.6
13	3.0	3.8	3.5	4.2	4.1	1.4	1.7	3.3	2.5	1.0	2.0	2.4	3.7	3.7	3.2	4.3	4.3	4.2	2.3	2.6	2.5	1.8	1.3	1.7	4.3	1.0	2.9
14	1.0	2.4	2.5	3.6	1.4	0.9	1.4	1.7	1.3	2.3	2.3	1.8	2.6	2.8	2.1	1.8	4.3	4.7	3.4	3.0	2.3	2.9	3.6	3.2	4.7	0.9	2.5
15	3.7	3.7	4.8	3.3	2.7	2.5	4.0	3.7	3.8	1.4	3.1	3.4	3.5	3.8	3.1	1.7	2.2	2.1	1.8	2.2	1.9	1.1	1.4	1.0	4.8	1.0	2.7
16	2.0	3.2	2.6	3.8	4.6	4.5	3.9	4.1	3.8	2.5	2.1	3.1	2.3	2.5	2.6	3.3	2.8	2.7	1.2	1.3	2.0	4.9	4.7	4.8	4.9	1.2	3.1
17	5.3	4.9	4.4	3.6	3.1	3.8	4.0	4.0	4.6	6.0	5.9	5.1	4.8	5.0	4.3	4.4	6.8	6.9	6.9	7.9	4.9	2.5	4.5	4.6	7.9	2.5	4.9
18	4.2	2.5	4.6	4.2	5.8	5.2	6.4	6.3	9.4	8.5	8.6	7.0	6.9	8.3	7.2	7.3	6.0	5.9	6.4	5.4	6.1	5.7	5.7	5.7	9.4	2.5	6.2
19	6.5	5.6	7.2	7.6	8.5	8.2	7.7	8.0	7.6	6.5	7.2	5.4	6.0	5.6	4.9	4.1	7.4	8.4	4.7	3.7	3.5	2.3	5.1	4.3	8.5	2.3	6.1
20	5.0	5.7	3.9	2.8	2.8	2.0	2.4	6.2	6.9	5.1	5.2	5.6	9.1	6.1	3.9	3.7	4.5	3.0	2.2	2.4	2.7	2.6	2.3	1.6	9.1	1.6	4.1
21	3.0	4.2	3.7	3.3	2.8	3.3	4.0	3.5	3.2	2.6	2.7	3.1	2.8	4.2	3.9	4.2	4.3	4.5	4.8	4.5	5.5	4.2	3.7	2.5	5.5	2.5	3.7
22	4.1	4.6	3.1	2.6	2.8	4.3	4.3	2.0	2.5	2.8	2.1	2.0	3.2	5.0	4.9	2.4	2.0	4.1	5.8	3.3	3.1	2.7	2.9	3.3	5.8	2.0	3.3
23	3.6	3.5	3.1	2.7	1.8	2.2	6.0	5.5	3.9	3.0	2.9	2.2	2.9	3.8	4.1	4.8	5.1	4.8	4.8	4.8	2.1	3.4	3.0	1.5	6.0	1.5	3.6
24	1.5	1.6	2.0	2.9	2.5	2.9	2.6	2.3	1.9	2.4	3.6	3.8	4.2	4.3	4.8	4.8	4.9	4.3	3.3	2.8	2.2	2.0	2.6	3.8	4.9	1.5	3.1
25	3.9	4.2	4.1	2.4	2.6	5.6	5.5	4.5	6.2	6.5	6.3	6.1	7.1	7.8	6.4	7.6	5.7	7.8	6.5	4.0	4.0	2.5	2.1	2.3	7.8	2.1	5.1
26	2.8	2.4	3.0	2.7	2.3	4.2	3.7	2.8	2.8	2.5	4.3	4.8	3.4	3.0	3.1	2.8	2.6	2.9	1.6	1.1	1.7	1.1	1.9	2.3	4.8	1.1	2.7
27	1.6	2.5	2.0	1.9	1.9	2.4	3.1	2.6	2.8	2.9	3.6	3.8	3.9	4.2	3.8	3.8	3.5	3.2	3.3	3.3	9.3	10.9	11.5	12.8	12.8	1.6	4.4
28	13.8	14.5	10.3	13.3	12.1	14.6	14.1	12.1	12.4	12.7	12.3	10.5	12.7	11.5	13.0	11.8	12.3	10.1	11.3	12.9	12.6	10.2	14.9	10.6	14.9	10.1	12.4
29	14.8	14.1	11.2	10.9	10.5	10.1	7.9	5.8	4.9	3.6	4.1	4.3	4.0	4.9	4.7	5.5	3.9	2.8	3.7	4.2	5.1	4.5	4.9	6.4	14.8	2.8	6.5
30	7.4	5.4	6.3	4.0	5.1	4.8	5.4	5.3	5.7	4.0	2.6	3.4	3.7	3.8	3.9	4.2	3.8	3.8	4.5	3.8	9.2	9.2	8.0	8.2	9.2	2.6	5.2
Max.	**14.8**	**14.5**	**11.2**	**13.3**	**12.1**	**14.6**	**14.1**	**12.9**	**13.0**	**12.7**	**12.9**	**12.0**	**14.9**	**11.5**	**13.0**	**11.8**	**12.3**	**10.1**	**11.3**	**12.9**	**12.6**	**10.9**	**14.9**	**12.8**	**14.9**		
Min.	**1.0**	**1.6**	**2.0**	**1.9**	**1.4**	**0.9**	**1.4**	**1.7**	**1.3**	**1.0**	**1.9**	**1.8**	**1.8**	**2.1**	**1.9**	**1.6**	**2.0**	**2.1**	**1.2**	**1.1**	**1.7**	**1.1**	**1.3**	**1.0**		**0.9**	
Avg.	**5.4**	**5.3**	**5.0**	**5.2**	**4.8**	**5.2**	**5.5**	**5.3**	**5.4**	**4.9**	**5.3**	**5.0**	**5.4**	**5.4**	**5.2**	**5.2**	**5.3**	**5.2**	**4.6**	**4.7**	**4.9**	**4.8**	**5.0**	**5.2**			**5.1**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Maximum 1 Minute Wind Speed (m/s)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.5	6.2	7.4	6.2	4.2	4.7	5.3	5.4	4.3	2.3	3.3	3.0	4.0	4.4	5.1	5.7	5.5	5.4	5.0	7.1	10.4	7.4	8.6	9.8	10.4	2.3	5.7
2	10.1	10.1	10.3	8.2	8.4	8.1	7.2	6.6	6.9	6.8	3.5	3.2	3.2	2.9	3.6	8.4	10.4	10.5	9.1	9.2	6.5	3.0	4.2	3.9	10.5	2.9	6.8
3	4.0	4.9	4.6	3.0	2.2	4.1	4.5	3.3	3.5	3.1	3.1	3.7	3.6	4.0	4.6	4.8	3.8	2.7	2.6	3.1	3.4	2.5	3.0	1.9	4.9	1.9	3.5
4	2.6	3.1	3.1	2.5	2.5	2.8	2.5	1.6	3.5	3.6	3.7	3.6	4.7	4.0	4.6	4.6	3.6	3.9	3.7	3.8	2.8	3.1	2.2	2.0	4.7	1.6	3.3
5	2.3	4.0	4.8	4.1	2.4	3.4	4.4	4.0	3.4	4.3	4.5	4.1	2.8	2.9	2.9	3.4	3.0	2.8	3.4	2.9	2.6	2.0	2.2	2.2	4.8	2.0	3.3
6	2.3	0.8	0.9	1.0	2.2	1.4	2.3	2.5	2.4	2.5	2.6	2.2	2.5	3.2	3.3	3.4	4.0	3.8	2.9	3.0	2.9	2.0	2.3	4.2	4.2	0.8	2.5
7	2.4	3.3	2.6	3.8	3.2	1.8	2.6	2.8	2.7	3.9	3.6	3.9	3.7	4.4	6.4	5.2	4.0	2.9	3.9	3.9	4.2	2.8	4.6	3.5	6.4	1.8	3.6
8	3.8	3.2	2.2	2.2	2.1	3.7	4.1	6.3	8.7	8.9	9.6	8.7	9.7	8.5	8.0	7.0	3.7	3.1	7.6	8.1	7.4	7.1	4.8	3.3	9.7	2.1	5.9
9	3.3	4.0	3.5	3.8	3.4	3.7	4.2	4.1	2.5	2.2	2.8	3.8	3.8	3.8	3.3	3.5	3.8	3.1	3.4	3.0	4.6	4.0	5.1	4.1	5.1	2.2	3.6
10	4.5	3.9	4.0	4.5	5.6	4.4	5.1	4.8	4.0	3.0	2.4	3.0	4.0	4.8	4.5	4.7	5.0	3.2	3.8	2.4	3.6	4.3	3.3	2.8	5.6	2.4	4.0
11	1.5	2.3	3.2	2.1	2.4	1.7	2.3	2.6	2.4	4.9	5.9	5.2	5.3	4.4	5.9	4.7	3.8	3.4	2.5	6.5	5.8	3.0	2.1	1.8	6.5	1.5	3.6
12	1.7	2.2	2.1	2.6	2.6	3.2	3.7	4.1	4.9	3.4	2.2	3.3	3.2	3.1	3.1	2.2	3.9	6.4	8.4	10.5	11.1	8.7	7.7	5.0	11.1	1.7	4.6
13	6.1	9.4	8.3	4.3	9.7	11.6	13.1	11.8	12.8	13.4	12.9	13.0	13.2	15.6	18.1	17.0	16.9	18.5	16.8	19.1	16.4	16.3	13.6	13.4	19.1	4.3	13.4
14	14.5	13.7	16.0	14.7	13.6	12.6	12.7	12.3	12.4	14.2	13.6	13.2	11.4	10.0	10.2	10.9	11.3	9.8	10.2	8.8	11.9	10.3	11.3	7.1	16.0	7.1	11.9
15	8.5	6.2	9.5	11.0	10.4	11.4	11.1	10.3	6.9	6.3	8.1	7.3	6.4	7.3	8.3	4.5	3.6	3.1	3.4	2.7	3.0	1.6	2.6	2.4	11.4	1.6	6.5
16	2.9	3.0	4.5	4.7	4.6	4.4	5.8	5.8	4.5	3.1	4.0	4.0	5.0	4.2	4.0	3.3	4.2	4.0	4.3	4.0	5.1	4.3	4.6	3.9	5.8	2.9	4.3
17	4.8	6.7	6.5	6.8	5.0	4.6	3.8	4.6	4.9	5.0	4.7	4.4	6.5	6.4	6.1	5.7	5.8	6.1	6.6	6.6	4.5	6.0	7.2	6.5	7.2	3.8	5.7
18	7.5	7.5	6.1	5.9	5.8	4.7	5.0	4.9	4.7	5.3	3.8	4.1	4.3	3.6	3.0	5.8	4.6	4.6	3.5	4.9	4.8	3.2	2.7	3.2	7.5	2.7	4.7
19	2.8	2.9	2.6	6.8	8.1	7.4	6.6	8.0	7.6	10.1	9.4	8.8	6.7	7.7	8.2	8.5	8.5	6.4	7.9	6.1	4.8	2.9	3.7	5.3	10.1	2.6	6.6
20	5.2	2.1	2.4	2.6	8.4	6.6	6.1	7.1	7.4	7.7	7.4	6.6	8.3	6.9	7.2	5.7	6.4	6.3	7.6	6.7	9.3	4.5	4.1	6.8	9.3	2.1	6.2
21	7.1	6.7	4.3	3.3	2.6	5.3	5.9	5.5	8.3	6.6	7.6	8.2	7.7	7.0	7.5	6.1	5.3	2.7	2.9	4.0	5.3	6.0	4.4	3.1	8.3	2.6	5.6
22	2.8	3.4	3.0	2.1	3.5	5.4	6.2	6.2	5.6	7.4	6.3	5.5	5.6	5.2	4.9	3.4	3.3	5.4	5.1	4.5	5.0	5.1	5.7	4.7	7.4	2.1	4.8
23	6.5	4.8	5.7	4.5	4.4	5.2	6.6	6.7	7.3	8.3	9.9	10.3	9.6	10.5	10.0	9.5	10.7	7.1	9.6	9.9	9.9	8.2	7.8	8.2	10.7	4.4	8.0
24	8.0	8.9	8.3	8.0	8.9	8.8	8.9	6.7	6.3	7.1	7.0	6.6	7.4	6.4	3.3	2.6	3.4	3.5	3.8	3.6	3.8	3.4	3.9	6.2	8.9	2.6	6.0
25	5.5	4.6	5.8	6.1	6.6	4.7	3.5	2.9	3.4	2.4	1.5	1.8	1.5	4.6	5.1	4.7	4.9	2.7	1.0	1.4	1.3	1.7	2.0	2.1	6.6	1.0	3.4
26	4.7	3.5	3.2	2.3	2.6	3.2	4.1	7.3	7.4	8.5	9.5	10.2	10.6	8.6	9.8	10.7	11.4	12.5	13.9	14.1	12.7	12.1	11.3	12.6	14.1	2.3	8.6
27	11.3	12.3	12.2	10.7	9.5	8.9	7.2	7.9	6.2	3.3	3.1	3.6	3.2	3.4	4.5	2.8	3.1	3.0	2.8	2.8	4.4	2.8	2.5	5.9	12.3	2.5	5.7
28	7.1	4.8	6.0	9.1	8.0	9.7	10.5	10.5	7.7	6.1	3.1	4.9	6.3	7.0	4.9	4.2	3.9	3.5	3.1	3.5	5.8	12.2	16.5	12.8	16.5	3.1	7.1
29	11.2	10.2	11.6	9.3	15.7	14.7	14.2	20.0	21.7	17.7	18.1	16.3	12.1	15.7	12.7	10.5	8.9	10.6	14.3	10.9	11.6	17.5	18.0	16.6	21.7	8.9	14.2
30	13.7	15.8	13.6	17.9	11.4	14.2	14.6	17.1	14.9	13.6	13.2	10.7	10.2	9.6	10.8	10.5	7.3	7.0	7.0	9.5	5.6	4.1	6.0	10.2	17.9	4.1	11.2
31	11.0	10.2	9.7	9.9	10.1	8.4	8.8	8.8	8.8	9.7	7.6	6.8	9.5	7.6	9.6	8.6	9.6	10.0	9.2	8.2	8.1	8.5	11.9	11.7	11.9	6.8	9.3
Max.	**14.5**	**15.8**	**16.0**	**17.9**	**15.7**	**14.7**	**14.6**	**20.0**	**21.7**	**17.7**	**18.1**	**16.3**	**13.2**	**15.7**	**18.1**	**17.0**	**16.9**	**18.5**	**16.8**	**19.1**	**16.4**	**17.5**	**18.0**	**16.6**	**21.7**		
Min.	**1.5**	**0.8**	**0.9**	**1.0**	**2.1**	**1.4**	**2.3**	**1.6**	**2.4**	**2.2**	**1.5**	**1.8**	**1.5**	**2.9**	**2.9**	**2.2**	**3.0**	**2.7**	**1.0**	**1.4**	**1.3**	**1.6**	**2.0**	**1.8**		**0.8**	
Avg.	**6.0**	**6.0**	**6.1**	**5.9**	**6.1**	**6.3**	**6.5**	**6.9**	**6.7**	**6.6**	**6.4**	**6.2**	**6.3**	**6.4**	**6.6**	**6.2**	**6.0**	**5.7**	**6.1**	**6.3**	**6.4**	**5.8**	**6.1**	**6.0**			**6.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.6	1.2	2.2	1.4	0.8	0.4	0.3	0.7	0.8	0.5	1.2	1.2	2.8	2.4	1.6	3.0	2.8	1.2	1.8	1.5	1.8	1.8	1.4	2.6	3.6	0.3	1.6
2	2.4	2.1	2.6	2.3	3.1	3.7	3.8	4.5	4.2	4.5	4.6	4.7	5.2	5.6	5.2	5.6	6.7	7.2	6.9	7.3	5.7	6.6	5.4	6.8	7.3	2.1	4.9
3	6.2	6.7	6.1	6.6	6.1	5.8	4.9	2.5	1.2	1.1	1.1	1.3	1.2	2.5	2.3	1.4	1.8	1.0	0.9	1.0	1.5	1.5	2.1	2.1	6.7	0.9	2.9
4	1.1	0.5	0.9	1.0	1.1	1.9	2.3	1.7	2.4	1.4	1.2	1.3	2.0	3.0	3.7	3.0	4.3	4.1	1.6	0.7	1.5	2.1	3.8	3.6	4.3	0.5	2.1
5	4.9	5.6	5.5	6.0	6.2	6.0	5.6	5.5	4.6	4.2	3.7	3.3	2.1	3.2	1.9	0.8	2.1	4.6	5.4	4.7	4.0	4.2	5.4	6.5	6.5	0.8	4.4
6	7.2	6.1	6.1	6.5	6.5	6.3	6.4	5.3	4.6	3.3	1.2	0.9	1.1	1.5	2.1	0.9	4.5	2.5	1.1	1.2	1.4	2.0	2.4	4.2	7.2	0.9	3.6
7	2.6	1.7	1.7	1.9	1.3	2.6	4.8	5.1	5.5	6.0	5.6	5.5	4.8	4.7	3.7	4.3	3.8	3.9	3.5	4.2	3.6	2.2	3.0	3.1	6.0	1.3	3.7
8	2.9	2.8	2.7	1.9	2.1	2.6	2.5	3.2	2.6	1.9	2.8	3.2	3.2	3.1	3.3	3.4	3.4	2.4	1.7	1.0	0.6	0.5	1.4	1.8	3.4	0.5	2.4
9	1.3	1.4	1.2	1.1	1.3	0.8	3.6	3.5	1.5	3.2	3.9	4.5	4.3	4.2	3.4	3.6	3.4	2.8	2.0	1.7	1.6	1.2	2.0	1.3	4.5	0.8	2.5
10	2.3	5.0	1.9	1.1	0.6	1.3	4.7	5.0	2.9	3.2	3.0	3.6	4.5	3.9	4.0	4.0	4.0	3.8	2.2	1.1	0.9	0.6	0.5	0.7	5.0	0.5	2.7
11	0.5	0.7	0.3	0.5	0.6	0.5	1.5	2.3	2.1	1.9	2.4	3.2	3.0	2.5	3.2	3.2	2.5	1.8	1.4	0.7	0.8	2.9	2.3	1.6	3.2	0.3	1.8
12	1.4	1.1	0.6	0.9	1.9	1.9	0.6	0.7	0.7	3.0	2.5	3.0	3.3	3.4	3.2	3.2	2.9	1.9	1.6	1.9	1.3	2.1	3.0	2.1	3.4	0.6	2.0
13	0.8	1.5	0.7	1.6	1.8	1.3	1.6	1.2	2.7	2.2	1.2	1.4	3.5	2.8	2.0	2.7	3.1	3.5	3.5	2.5	1.5	1.6	2.6	2.2	3.5	0.7	2.1
14	1.6	1.9	2.2	2.0	1.9	2.2	1.9	1.3	1.7	2.0	2.7	2.1	2.0	2.3	2.9	3.0	2.9	3.1	2.7	2.4	1.3	1.1	1.8	1.5	3.1	1.1	2.1
15	1.3	1.3	1.2	1.2	1.5	0.8	1.4	1.4	1.3	2.5	1.1	1.6	1.4	0.9	2.5	2.0	2.9	3.2	2.9	1.7	1.5	2.0	2.0	1.9	3.2	0.8	1.7
16	1.3	2.7	3.1	1.5	1.2	3.7	3.9	4.8	3.7	4.1	2.3	2.1	3.2	3.1	2.7	2.9	1.8	1.4	1.0	1.7	2.9	2.8	1.9	1.9	4.8	1.0	2.6
17	2.1	4.5	5.0	4.8	4.9	5.6	6.6	7.4	7.7	7.5	7.1	7.7	7.0	7.3	7.6	7.8	8.7	9.1	7.8	7.4	6.6	5.8	6.3	6.2	9.1	2.1	6.6
18	5.2	5.7	5.6	5.8	5.5	4.8	5.4	6.3	5.9	2.5	3.2	2.7	3.6	3.5	2.8	3.1	2.7	2.1	1.8	1.5	0.8	1.0	0.4	0.5	6.3	0.4	3.4
19	0.9	1.3	0.5	1.0	1.1	3.5	3.4	3.4	2.5	1.7	1.0	1.5	2.1	2.1	1.8	2.7	3.6	4.4	2.9	2.7	3.8	5.5	4.1	4.5	5.5	0.5	2.6
20	2.7	2.6	7.4	7.2	4.4	3.6	4.3	3.4	4.1	3.7	3.2	3.2	4.3	3.5	5.4	3.5	3.6	3.1	2.7	2.3	7.0	9.2	11.6	6.7	11.6	2.3	4.7
21	5.5	6.5	10.1	8.5	8.3	12.0	10.4	10.8	9.6	5.8	3.8	4.7	4.7	3.4	3.0	2.6	2.3	3.1	1.5	1.4	1.2	1.4	1.7	1.2	12.0	1.2	5.2
22	1.2	1.9	1.4	1.2	3.2	3.9	3.6	4.3	4.3	2.3	2.4	2.2	2.0	1.5	3.1	5.5	4.2	4.2	4.2	4.1	5.6	5.5	4.4	5.1	5.6	1.2	3.4
23	5.5	5.6	6.1	6.0	5.5	5.0	3.8	2.7	2.5	6.0	3.3	4.8	4.1	1.8	3.2	2.7	3.4	1.5	0.4	1.7	2.0	1.7	1.0	2.0	6.1	0.4	3.4
24	2.3	1.4	1.7	3.2	3.2	2.9	1.8	1.6	1.4	0.9	0.9	4.6	4.8	5.7	3.6	4.3	3.4	6.8	7.9	7.9	5.3	2.7	2.5	3.5	7.9	0.9	3.5
25	3.6	3.4	3.9	5.2	3.8	4.7	5.1	4.8	3.4	4.2	3.1	1.3	3.0	3.7	4.0	3.1	2.7	2.5	1.8	1.2	1.1	0.7	0.8	2.7	5.2	0.7	3.1
26	3.0	0.8	1.7	2.8	2.4	3.2	2.1	2.9	3.9	3.5	2.2	2.5	2.8	2.7	5.6	3.9	5.1	2.3	1.9	2.9	4.2	5.6	6.1	7.2	7.2	0.8	3.4
27	8.0	7.8	8.2	6.6	3.4	4.4	4.1	4.3	4.0	3.5	2.5	2.8	3.3	3.9	2.4	3.1	4.7	4.2	5.5	5.8	5.9	6.2	8.2	7.4	8.2	2.4	5.0
28	6.2	3.0	2.9	2.0	1.6	1.3	1.5	0.8	2.3	1.2	0.4	0.7	2.5	2.2	1.3	1.3	4.0	4.3	8.4	10.8	9.3	10.1	12.0	10.2	12.0	0.4	4.2
29	8.6	7.4	8.4	7.3	7.2	9.3	8.6	5.0	4.5	7.8	6.5	7.7	7.8	7.4	6.2	8.0	6.5	5.6	8.1	5.3	4.5	5.1	5.0	3.7	9.3	3.7	6.7
30	4.0	5.0	4.3	4.0	5.2	4.3	5.1	4.4	3.5	3.0	2.3	1.9	3.4	3.1	3.7	2.8	5.9	6.3	4.1	4.1	6.2	7.4	7.0	6.3	7.4	1.9	4.5
31	5.9	5.9	6.9	6.8	5.7	5.7	3.3	4.4	6.0	5.3	5.1	5.1	4.0	3.7	4.3	5.1	5.3	3.3	3.3	4.5	5.9	7.0	7.0	6.8	7.0	3.3	5.3
Max.	**8.6**	**7.8**	**10.1**	**8.5**	**8.3**	**12.0**	**10.4**	**10.8**	**9.6**	**7.8**	**7.1**	**7.7**	**7.8**	**7.4**	**7.6**	**8.0**	**8.7**	**9.1**	**8.4**	**10.8**	**9.3**	**10.1**	**12.0**	**10.2**	**12.0**		
Min.	**0.5**	**0.5**	**0.3**	**0.5**	**0.6**	**0.4**	**0.3**	**0.7**	**0.7**	**0.5**	**0.4**	**0.7**	**1.1**	**0.9**	**1.3**	**0.8**	**1.8**	**1.0**	**0.4**	**0.7**	**0.6**	**0.5**	**0.4**	**0.5**		**0.3**	
Avg.	**3.4**	**3.4**	**3.6**	**3.5**	**3.3**	**3.7**	**3.8**	**3.7**	**3.5**	**3.4**	**2.8**	**3.1**	**3.5**	**3.4**	**3.4**	**3.4**	**3.8**	**3.6**	**3.3**	**3.2**	**3.3**	**3.6**	**3.8**	**3.8**			**3.5**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.0	5.3	3.7	3.4	3.1	2.6	5.4	5.3	5.7	5.5	4.2	2.2	4.3	5.9	3.3	3.8	6.0	6.2	7.3	5.1	3.2	4.6	6.4	4.6	7.3	2.2	4.7
2	3.2	2.8	3.3	3.3	3.5	2.8	2.2	3.4	3.3	3.1	1.7	1.7	1.5	2.6	2.7	3.3	3.0	1.3	1.3	1.9	2.5	2.4	2.0	2.3	3.5	1.3	2.5
3	2.6	1.4	1.2	2.4	2.4	2.2	3.5	5.0	5.0	5.7	5.6	5.5	6.1	6.4	6.3	6.8	7.6	8.2	8.4	8.7	8.4	8.9	8.5	8.2	8.9	1.2	5.6
4	7.0	6.7	6.5	6.8	7.1	7.6	7.1	6.7	6.5	6.0	5.8	5.8	5.3	4.2	3.7	2.9	1.7	1.9	3.5	4.9	3.1	1.4	0.7	1.7	7.6	0.7	4.8
5	1.6	1.6	1.5	1.3	2.3	2.6	2.1	3.9	3.8	4.5	4.6	3.0	1.8	1.6	1.4	2.0	1.6	1.5	2.3	3.7	4.7	4.9	5.0	4.6	5.0	1.3	2.8
6	4.9	4.7	3.5	3.4	2.3	2.6	1.8	1.3	1.3	4.7	7.9	7.2	8.6	8.6	6.6	4.9	2.0	4.9	1.4	5.8	6.5	7.7	5.3	3.8	8.6	1.3	4.7
7	7.1	6.0	7.7	7.8	5.3	5.0	6.6	6.5	8.4	7.0	5.4	3.6	2.8	4.5	2.2	4.2	2.5	2.9	3.7	4.1	5.0	4.1	4.5	6.4	8.4	2.2	5.1
8	5.8	7.8	7.2	7.4	7.7	6.6	5.4	4.5	5.7	4.9	3.2	1.2	1.7	1.4	1.8	1.6	1.6	1.8	1.4	1.0	1.5	2.6	4.5	2.5	7.8	1.0	3.8
9	3.4	5.4	6.9	7.2	6.7	6.5	5.6	4.2	4.6	4.0	5.2	4.3	3.7	3.1	2.2	1.9	1.5	3.8	4.5	2.7	1.2	1.6	2.7	3.8	7.2	1.2	4.0
10	5.3	4.9	4.2	7.6	7.4	8.4	8.5	8.6	9.3	6.3	5.0	6.3	5.6	4.4	1.9	2.0	4.4	2.7	0.7	1.8	1.3	0.7	1.7	2.1	9.3	0.7	4.6
11	1.9	3.7	3.5	3.5	4.4	4.0	4.2	2.7	2.0	2.3	3.5	3.8	5.1	4.9	5.2	6.0	4.3	4.5	4.2	3.5	2.4	1.9	2.0	2.3	6.0	1.9	3.6
12	1.6	1.0	2.0	3.9	3.3	5.7	6.8	4.3	3.0	3.6	8.8	10.9	9.4	6.6	7.3	7.9	9.9	8.4	12.6	13.8	11.5	11.9	7.3	9.0	13.8	1.0	7.1
13	10.1	8.5	10.0	3.9	3.0	3.8	2.8	6.4	4.3	3.9	4.2	2.6	1.9	3.4	4.7	5.4	5.9	5.6	4.7	6.1	6.1	3.1	4.8	4.0	10.1	1.9	5.0
14	3.8	5.2	2.7	1.5	1.5	1.5	1.5	1.9	3.4	3.3	1.3	1.0	1.1	2.2	2.2	4.5	4.1	4.1	3.7	2.9	2.8	2.2	2.5	2.7	5.2	1.0	2.6
15	3.4	3.0	3.1	3.5	1.6	2.3	2.5	2.0	1.9	3.5	3.0	4.0	2.5	2.4	2.1	1.6	1.6	1.8	1.4	2.2	5.1	4.0	3.9	4.6	5.1	1.4	2.8
16	4.3	4.2	3.4	5.9	5.8	5.5	4.8	3.7	5.7	5.9	5.8	4.0	3.7	5.0	4.9	3.8	4.5	5.0	2.4	1.1	1.3	1.0	1.6	2.5	5.9	1.0	4.0
17	4.2	4.2	3.3	2.8	3.6	3.2	3.2	3.4	3.1	3.9	3.6	4.1	3.9	3.3	1.6	0.8	0.8	1.4	1.8	0.7	1.8	1.3	2.9	5.1	5.1	0.7	2.8
18	5.7	5.9	6.3	6.7	6.4	6.3	6.6	5.0	4.2	3.5	4.4	4.0	3.4	3.4	4.3	4.6	4.8	3.7	4.4	4.0	4.3	4.3	3.1	4.1	6.7	3.1	4.7
19	3.3	4.2	4.7	3.9	5.2	6.6	7.0	6.7	7.5	6.2	4.1	4.4	3.0	3.0	2.6	2.9	4.0	3.1	4.5	4.8	5.4	6.2	6.6	6.6	7.5	2.6	4.9
20	7.2	7.5	7.3	7.1	6.8	6.5	5.1	4.5	4.8	4.8	3.3	3.4	3.5	5.9	5.6	3.1	4.0	3.9	3.4	4.5	4.4	4.3	2.6	4.0	7.5	2.6	4.9
21	5.0	5.4	5.7	5.6	5.7	4.8	4.4	4.3	2.0	1.5	2.0	2.9	1.8	0.8	0.7	1.2	3.4	3.9	3.7	3.3	2.6	1.3	1.3	2.0	5.7	0.7	3.1
22	2.1	1.9	3.2	5.0	4.8	5.2	5.8	5.8	3.6	3.3	3.6	2.8	2.5	1.9	2.3	1.7	2.6	4.1	4.1	4.1	2.5	2.0	2.3	1.5	5.8	1.5	3.3
23	3.1	2.7	3.0	1.7	1.3	1.3	1.6	0.4	1.3	0.6	2.2	4.9	3.4	1.4	1.8	1.9	2.0	2.0	2.3	3.2	4.1	16.5	10.9	16.3	16.5	0.4	3.7
24	15.3	16.8	12.6	11.5	9.2	6.2	7.5	8.9	8.7	8.4	6.8	7.8	7.5	10.8	6.2	6.3	7.2	5.4	7.4	6.7	6.9	4.8	6.5	6.4	16.8	4.8	8.4
25	7.5	7.8	9.1	10.2	10.3	10.6	8.4	9.8	8.8	8.9	7.5	8.1	7.7	8.0	8.3	6.1	6.7	5.4	7.1	6.9	3.2	1.9	3.7	2.8	10.6	1.9	7.3
26	1.3	2.0	2.1	1.2	1.8	3.8	5.7	4.9	3.5	3.2	3.8	4.2	2.8	2.6	5.6	6.1	6.5	7.6	7.5	7.5	7.9	7.6	8.4	10.0	10.0	1.2	4.9
27	11.3	11.1	11.7	11.9	11.9	12.6	13.8	12.8	12.9	13.4	13.2	13.7	13.9	13.1	12.8	13.2	11.8	9.6	9.2	9.9	7.8	7.3	7.1	6.6	13.9	6.6	11.4
28	6.3	5.9	5.8	5.8	4.4	2.4	2.4	3.8	0.9	1.8	1.6	0.4	1.0	1.1	1.0	3.1	4.7	2.6	2.0	1.8	2.0	1.9	3.4	3.9	6.3	0.4	2.9
29	4.8	4.8	4.2	5.3	3.7	5.0	5.5	5.1	5.4	5.1	5.1	5.2	4.4	8.0	6.9	6.9	5.5	7.3	5.9	6.7	7.6	8.0	8.1	8.2	8.2	3.7	5.9
30	7.4	7.6	7.2	6.8	5.6	6.0	7.0	5.4	4.6	4.7	4.6	4.5	5.0	4.0	4.4	3.5	3.9	4.2	5.5	5.6	5.8	5.0	4.9	5.3	7.6	3.5	5.4
Max.	**15.3**	**16.8**	**12.6**	**11.9**	**11.9**	**12.6**	**13.8**	**12.8**	**12.9**	**13.4**	**13.2**	**13.7**	**13.9**	**13.1**	**12.8**	**13.2**	**11.8**	**9.6**	**12.6**	**13.8**	**11.5**	**16.5**	**10.9**	**16.3**	**16.8**		
Min.	**1.3**	**1.0**	**1.2**	**1.2**	**1.3**	**1.3**	**1.5**	**0.4**	**0.9**	**0.6**	**1.3**	**0.4**	**1.0**	**0.8**	**0.7**	**0.8**	**0.8**	**1.3**	**0.7**	**0.7**	**1.2**	**0.7**	**0.7**	**1.5**		**0.4**	
Avg.	**5.2**	**5.3**	**5.2**	**5.3**	**4.9**	**5.0**	**5.2**	**5.0**	**4.8**	**4.8**	**4.7**	**4.6**	**4.3**	**4.5**	**4.1**	**4.1**	**4.3**	**4.3**	**4.4**	**4.6**	**4.4**	**4.5**	**4.5**	**4.9**			**4.7**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	5.1	5.4	6.0	6.7	7.1	5.9	5.3	5.2	6.8	6.9	7.3	5.5	4.7	5.6	5.9	6.0	5.4	6.5	6.3	4.7	5.5	4.8	4.6	4.1	7.3	4.1	5.7
2	6.8	5.6	6.3	6.1	5.0	5.4	4.2	5.7	4.6	5.6	4.9	6.1	5.3	4.4	4.0	5.2	4.5	3.2	2.5	3.7	4.1	3.9	2.2	2.8	6.8	2.2	4.7
3	2.7	2.7	3.8	3.8	5.6	4.8	4.0	1.8	5.1	6.5	6.4	5.2	7.1	7.7	6.8	7.9	7.5	6.1	6.0	5.4	5.5	4.6	4.2	6.5	7.9	1.8	5.3
4	7.0	5.9	6.2	7.2	7.6	6.9	7.2	8.1	8.0	8.1	7.5	7.9	7.1	8.3	10.4	9.8	10.4	10.2	10.3	11.0	12.3	12.4	11.8	11.0	12.4	5.9	8.8
5	10.7	8.9	8.1	8.5	8.4	8.0	6.9	5.9	5.6	5.6	5.5	4.5	4.3	2.0	0.8	2.1	2.9	4.0	5.6	5.8	5.8	4.8	5.5	4.5	10.7	0.8	5.6
6	4.3	3.6	3.0	2.3	2.3	2.3	2.3	1.8	1.4	2.3	1.8	1.5	1.3	1.2	1.6	1.3	0.9	1.5	2.0	2.6	2.0	2.4	2.8	2.6	4.3	0.9	2.1
7	3.0	3.6	3.2	2.4	2.1	2.3	3.2	3.9	4.5	4.6	4.6	5.0	4.7	4.3	5.1	5.4	5.4	5.4	5.9	4.9	4.9	4.6	3.8	3.4	5.9	2.1	4.2
8	3.4	3.5	2.5	0.8	0.6	0.8	1.9	1.8	2.7	2.8	1.6	1.0	1.6	1.0	2.2	2.6	2.6	2.5	2.3	2.3	2.9	2.7	2.8	3.0	3.5	0.6	2.2
9	2.3	2.8	2.4	1.4	1.6	1.8	2.5	2.8	2.9	3.8	3.1	2.1	3.0	2.9	4.3	5.3	6.3	5.8	5.5	5.7	6.4	9.3	8.7	7.5	9.3	1.4	4.2
10	8.0	7.2	7.2	8.4	5.8	6.7	7.5	6.2	5.7	4.9	5.6	4.3	3.0	2.3	2.2	2.3	1.4	1.8	3.3	3.6	4.4	4.7	3.6	2.9	8.4	1.4	4.7
11	1.9	2.4	4.5	4.4	5.0	4.9	4.6	3.3	2.5	0.8	2.9	2.6	2.5	3.8	4.5	4.4	4.7	4.1	5.4	5.5	5.7	5.5	5.0	7.0	7.0	0.8	4.1
12	6.6	4.7	6.4	6.2	6.0	6.9	6.6	7.2	5.8	4.3	8.3	5.6	5.6	5.7	6.7	8.4	6.8	8.1	6.1	5.2	7.7	6.8	7.3	7.1	8.4	4.3	6.5
13	6.5	5.5	3.8	2.4	2.2	3.4	4.8	2.7	2.9	4.6	4.7	3.9	4.7	4.1	3.2	5.0	5.6	5.3	4.2	1.6	1.1	1.5	1.4	1.2	6.5	1.1	3.6
14	2.0	2.2	2.1	3.2	3.4	2.3	2.4	2.5	3.4	4.3	4.3	3.2	4.3	4.1	2.7	2.2	1.6	1.4	2.5	2.1	2.2	3.8	5.2	5.0	5.2	1.4	3.0
15	6.1	6.6	6.6	6.6	5.9	6.4	6.4	5.7	5.8	5.0	4.5	3.6	3.1	2.4	1.5	2.9	3.0	2.6	2.2	0.9	1.5	2.2	1.5	1.6	6.6	0.9	3.9
16	1.0	1.7	1.2	2.7	4.6	5.7	4.3	2.9	2.4	2.9	3.6	5.0	3.4	5.3	6.8	4.0	3.8	4.1	3.0	2.4	3.3	1.6	1.7	2.8	6.8	1.0	3.3
17	2.6	3.5	5.0	6.1	5.4	4.7	3.8	4.3	2.8	3.4	6.3	6.4	7.6	4.7	4.1	9.1	7.8	6.2	7.2	6.4	8.2	8.5	7.3	6.1	9.1	2.6	5.7
18	5.6	7.6	9.3	10.4	11.0	10.5	13.7	14.2	14.8	12.4	9.2	6.5	4.5	4.7	4.1	4.1	3.8	2.7	5.5	7.3	2.7	1.2	2.1	3.2	14.8	1.2	7.1
19	4.6	4.9	5.1	4.9	4.7	3.9	3.6	6.3	5.1	4.3	4.2	4.9	4.7	5.0	4.6	3.0	2.2	2.6	2.9	3.6	3.4	4.7	5.4	6.2	6.3	2.2	4.4
20	5.4	6.3	5.7	6.4	6.8	7.6	8.0	8.2	8.6	8.9	9.1	10.0	10.3	10.6	10.2	9.9	9.6	9.7	9.5	9.8	10.9	10.9	10.1	11.2	11.2	5.4	8.9
21	10.1	5.3	5.0	3.6	3.7	4.6	3.1	1.7	0.5	0.6	0.5	0.4	0.6	1.4	1.9	2.5	1.2	0.7	3.0	5.1	7.9	3.8	3.0	4.2	10.1	0.4	3.1
22	4.7	5.1	4.5	3.5	5.1	6.0	6.8	7.8	9.3	7.3	7.8	7.4	7.6	8.3	11.3	12.4	9.9	4.1	3.7	4.5	6.4	6.8	10.2	6.6	12.4	3.5	7.0
23	6.7	9.5	8.5	7.8	7.4	5.4	4.4	5.1	5.2	4.9	4.7	2.9	4.1	3.6	4.5	4.0	2.3	1.5	1.2	1.2	2.3	2.9	3.5	3.6	9.5	1.2	4.5
24	2.9	3.3	1.3	0.9	3.5	3.0	2.7	3.5	4.5	3.7	4.4	3.1	4.9	5.2	5.6	5.8	7.3	7.4	8.1	9.4	7.7	7.7	7.4	8.1	9.4	0.9	5.1
25	7.8	7.0	5.9	6.3	3.8	6.7	6.9	6.7	5.8	4.8	4.7	5.5	3.8	3.3	2.1	2.3	1.4	1.5	3.9	4.3	3.7	2.7	4.0	3.0	7.8	1.4	4.5
26	2.4	3.7	2.9	2.6	2.2	2.1	3.5	2.7	3.2	5.0	6.4	5.3	4.2	4.3	4.5	3.2	2.6	3.0	3.1	1.6	2.0	2.8	3.1	2.0	6.4	1.6	3.3
27	2.4	2.4	2.4	2.6	2.2	2.9	2.7	3.1	3.1	3.5	4.4	4.1	3.7	2.8	1.0	1.2	0.8	1.4	2.0	2.5	2.9	2.9	3.2	2.4	4.4	0.8	2.6
28	2.4	2.1	3.2	2.4	2.8	2.7	3.3	3.6	3.9	3.3	4.4	3.4	4.2	3.1	1.9	1.8	1.7	1.5	2.5	3.7	1.2	1.4	3.3	2.4	4.4	1.2	2.8
29	3.6	3.1	3.3	3.4	2.9	3.8	3.6	3.8	3.7	3.9	3.7	4.1	4.2	3.5	3.6	4.7	4.2	4.7	3.9	4.0	3.9	3.6	3.6	3.7	4.7	2.9	3.8
30	3.8	3.5	3.2	3.6	3.0	2.5	2.5	2.8	2.0	3.0	1.9	0.8	0.7	1.3	1.9	3.5	4.6	4.5	4.4	5.8	5.2	5.6	3.8	3.3	5.8	0.7	3.2
31	3.3	4.5	4.5	5.3	6.8	6.7	8.6	8.2	6.7	4.5	6.0	8.9	7.3	5.9	8.2	6.3	5.7	6.9	7.4	6.3	4.8	3.8	4.6	3.3	8.9	3.3	6.0
Max.	**10.7**	**9.5**	**9.3**	**10.4**	**11.0**	**10.5**	**13.7**	**14.2**	**14.8**	**12.4**	**9.2**	**10.0**	**10.3**	**10.6**	**11.3**	**12.4**	**10.4**	**10.2**	**10.3**	**11.0**	**12.3**	**12.4**	**11.8**	**11.2**	**14.8**		
Min.	**1.0**	**1.7**	**1.2**	**0.8**	**0.6**	**0.8**	**1.9**	**1.7**	**0.5**	**0.6**	**0.5**	**0.4**	**0.6**	**1.0**	**0.8**	**1.2**	**0.8**	**0.7**	**1.2**	**0.9**	**1.1**	**1.2**	**1.4**	**1.2**		**0.4**	
Avg.	**4.7**	**4.7**	**4.6**	**4.6**	**4.7**	**4.8**	**4.9**	**4.8**	**4.8**	**4.7**	**5.0**	**4.5**	**4.4**	**4.3**	**4.5**	**4.8**	**4.4**	**4.2**	**4.6**	**4.6**	**4.8**	**4.7**	**4.7**	**4.6**			**4.6**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	2.6	3.3	5.0	2.1	0.9	1.8	1.7	1.6	2.5	1.2	3.1	4.9	3.2	2.8	5.1	4.1	4.7	6.1	6.5	5.7	5.5	6.0	5.3	4.5	6.5	0.9	3.8
2	5.1	4.9	4.9	4.4	2.4	4.7	5.3	3.6	2.8	3.8	4.2	4.1	5.7	3.1	3.7	3.3	2.7	4.9	4.2	4.4	3.2	2.7	2.7	2.5	5.7	2.4	3.9
3	3.2	2.4	3.4	3.6	3.8	2.6	3.6	5.9	4.7	4.0	4.0	4.7	6.7	7.4	9.0	8.3	7.6	7.7	8.1	8.0	5.4	6.5	7.1	6.9	9.0	2.4	5.6
4	8.7	9.7	8.2	6.7	6.6	5.4	6.7	5.2	7.8	8.1	7.9	7.6	7.1	7.7	8.5	7.1	7.8	7.9	7.8	8.2	6.2	6.0	2.8	5.5	9.7	2.8	7.1
5	2.9	2.4	4.4	6.3	7.1	6.3	5.7	5.2	4.9	4.5	6.5	8.7	5.4	5.0	3.8	4.0	3.6	3.9	6.3	5.6	7.1	5.3	4.7	4.5	8.7	2.4	5.2
6	8.1	2.8	2.1	3.0	1.0	1.2	1.9	1.3	1.6	3.2	4.8	5.3	9.1	5.4	3.6	4.1	3.5	4.6	5.2	5.9	6.7	3.7	3.3	4.6	9.1	1.0	4.0
7	3.5	3.3	8.0	7.6	5.9	6.9	4.7	2.6	6.4	3.5	3.7	4.1	4.5	4.4	3.6	3.6	5.1	4.8	5.1	5.5	6.5	6.3	6.3	7.7	8.0	2.6	5.2
8	8.3	8.5	8.0	9.0	7.3	6.6	7.4	6.6	6.7	6.1	5.7	4.8	3.7	3.0	1.7	1.6	1.8	1.2	1.7	1.5	1.6	1.7	1.9	1.8	9.0	1.2	4.5
9	2.0	1.7	1.4	1.4	1.5	1.5	1.8	1.6	1.4	1.7	1.4	3.0	3.6	3.0	2.5	3.4	1.3	2.7	2.2	3.3	1.5	3.0	3.0	5.0	5.0	1.3	2.3
10	3.4	4.3	3.9	6.4	8.3	9.0	7.2	6.0	8.6	9.3	9.7	9.6	9.7	9.4	9.2	9.5	9.0	8.9	8.1	7.4	6.4	4.6	3.1	1.6	9.7	1.6	7.2
11	2.8	4.1	2.7	2.3	0.6	0.6	2.2	1.2	1.7	2.1	3.7	4.1	3.8	3.4	2.6	2.7	3.1	2.8	3.5	1.7	1.4	0.9	3.6	2.4	4.1	0.6	2.5
12	1.9	1.8	3.0	2.0	1.2	1.1	0.8	1.6	4.0	2.3	0.6	2.3	2.3	1.8	2.3	1.9	1.7	2.0	2.0	2.5	2.3	2.8	3.1	3.5	4.0	0.6	2.1
13	2.6	2.9	4.9	5.7	5.2	4.7	4.6	4.6	3.6	2.8	4.4	3.3	2.8	2.8	3.0	1.7	1.9	1.9	2.8	2.8	4.3	4.4	4.5	4.1	5.7	1.7	3.6
14	5.0	4.9	5.6	5.9	6.9	6.9	7.1	7.7	8.0	8.5	8.6	7.9	9.1	10.4	10.3	10.8	11.4	11.5	11.9	11.1	11.7	11.7	11.7	11.7	11.9	4.9	9.0
15	11.4	10.3	6.1	5.2	2.4	1.2	1.4	1.2	1.8	2.1	1.2	1.9	1.6	3.6	2.0	1.2	2.1	2.4	2.2	3.4	3.3	2.9	3.6	3.9	11.4	1.2	3.3
16	4.4	5.6	5.7	6.4	6.4	9.5	10.0	9.9	9.7	8.0	7.6	6.9	6.3	6.4	7.0	7.2	7.5	6.6	6.5	6.5	7.0	6.6	6.4	6.6	10.0	4.4	7.1
17	6.8	6.4	6.5	6.8	6.4	5.7	5.6	5.1	3.6	1.0	0.6	1.0	2.8	4.6	6.3	6.6	7.1	7.6	5.1	2.8	2.7	4.4	5.2	4.4	7.6	0.6	4.8
18	4.7	5.3	6.1	5.3	6.9	7.5	8.3	8.3	10.0	9.8	8.6	7.4	7.8	8.2	8.0	7.4	6.7	5.3	2.3	5.8	9.7	10.1	10.0	7.9	10.1	2.3	7.4
19	7.4	3.9	6.0	6.7	5.2	4.0	4.3	8.2	10.1	11.6	8.4	6.3	4.0	7.6	9.9	9.9	9.4	9.8	11.4	9.1	8.0	2.5	1.5	2.6	11.6	1.5	7.0
20	3.4	4.8	5.3	5.4	5.7	6.7	6.7	6.2	6.4	6.5	7.5	8.0	7.4	6.6	7.1	5.9	4.3	4.3	3.4	2.7	2.1	1.6	1.6	2.1	8.0	1.6	5.1
21	3.3	2.9	2.4	3.0	4.1	4.6	5.2	5.5	6.7	6.7	7.4	6.6	7.1	5.6	5.4	6.5	8.7	7.5	7.2	10.4	9.4	6.5	4.4	4.6	10.4	2.4	5.9
22	6.1	7.9	7.2	4.4	3.1	2.4	3.4	4.4	3.9	6.0	5.6	3.2	3.8	6.6	6.3	4.7	4.0	4.4	4.5	5.6	8.6	9.5	8.4	8.5	9.5	2.4	5.5
23	9.7	10.3	10.2	11.5	10.6	12.4	14.0	14.0	12.1	12.2	12.3	10.2	10.6	9.2	6.7	7.1	6.7	6.8	7.2	8.6	9.0	6.0	7.2	7.6	14.0	6.0	9.7
24	7.1	7.8	8.9	8.7	10.1	10.1	8.2	9.5	9.9	10.6	8.2	9.0	7.9	13.1	15.4	12.7	11.6	11.4	11.5	12.2	10.9	11.0	11.5	12.3	15.4	7.1	10.4
25	12.0	11.1	11.6	11.3	10.8	11.7	11.6	12.0	12.4	12.5	11.5	11.2	10.8	11.8	12.2	11.3	10.0	9.9	10.4	10.8	11.4	9.8	9.2	9.2	12.5	9.2	11.1
26	8.5	8.1	8.2	8.1	7.7	8.6	8.9	9.1	9.6	8.7	8.8	9.5	8.6	8.9	9.8	9.3	9.1	5.9	4.2	5.0	5.7	4.4	3.7	5.1	9.8	3.7	7.6
27	5.7	5.9	5.7	4.7	3.2	1.6	2.3	4.9	5.3	5.7	6.7	6.1	5.7	6.0	3.2	2.2	3.9	3.2	2.9	2.8	2.7	3.1	3.4	2.9	6.7	1.6	4.2
28	3.6	3.1	2.5	2.4	3.0	3.1	3.2	2.2	3.1	3.3	2.5	2.4	2.5	1.7	1.9	1.7	1.9	1.8	1.8	1.7	1.9	2.4	2.3	1.9	3.6	1.7	2.4
29	1.8	2.5	2.3	2.5	3.2	1.7	2.9	3.1	2.9	1.8	1.5	2.4	5.2	2.2	1.7	3.5	5.7	6.8	5.2	2.9	3.9	4.6	3.2	3.1	6.8	1.5	3.2
30	3.3	3.3	3.4	4.1	3.1	2.1	2.4	2.3	2.2	5.3	6.3	4.3	6.3	6.4	3.4	3.4	3.7	3.5	3.6	4.5	5.5	5.1	2.7	3.9	6.4	2.1	3.9
Max.	**12.0**	**11.1**	**11.6**	**11.5**	**10.8**	**12.4**	**14.0**	**14.0**	**12.4**	**12.5**	**12.3**	**11.2**	**10.8**	**13.1**	**15.4**	**12.7**	**11.6**	**11.5**	**11.9**	**12.2**	**11.7**	**11.7**	**11.7**	**12.3**	**15.4**		
Min.	**1.8**	**1.7**	**1.4**	**1.4**	**0.6**	**0.6**	**0.8**	**1.2**	**1.4**	**1.0**	**0.6**	**1.0**	**1.6**	**1.7**	**1.7**	**1.2**	**1.3**	**1.2**	**1.7**	**1.5**	**1.4**	**0.9**	**1.5**	**1.6**		**0.6**	
Avg.	**5.3**	**5.2**	**5.5**	**5.4**	**5.0**	**5.1**	**5.3**	**5.3**	**5.8**	**5.8**	**5.8**	**5.7**	**5.8**	**5.9**	**5.9**	**5.6**	**5.6**	**5.6**	**5.5**	**5.6**	**5.7**	**5.2**	**4.9**	**5.1**			**5.5**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	4.1	4.3	4.0	5.2	5.2	6.0	4.4	5.0	4.2	3.8	4.6	5.0	5.9	6.3	6.0	5.4	5.9	6.8	3.9	4.4	6.8	7.5	8.1	6.1	8.1	3.8	5.4
2	6.5	5.6	7.0	7.4	6.4	5.4	5.0	2.8	5.8	7.2	7.2	6.3	5.1	6.1	5.9	6.2	5.6	6.4	7.4	8.5	8.4	8.5	9.2	7.7	9.2	2.8	6.6
3	9.2	8.5	8.4	10.9	10.7	9.7	8.8	8.8	8.5	8.7	8.1	8.5	7.2	8.1	8.3	8.2	7.4	3.9	2.9	5.2	4.8	2.8	5.9	4.6	10.9	2.8	7.4
4	3.6	5.6	5.1	7.2	5.7	6.7	6.5	6.0	5.4	3.8	4.0	6.0	6.8	7.1	7.9	7.5	8.4	8.2	7.9	8.1	8.3	8.9	7.8	8.1	8.9	3.6	6.7
5	9.1	9.2	9.8	9.6	7.0	9.0	7.8	6.1	7.0	7.2	8.1	8.2	7.4	7.4	8.0	8.4	9.2	8.8	9.3	10.4	10.2	10.9	11.7	10.1	11.7	6.1	8.7
6	11.0	10.4	10.4	9.7	10.1	10.2	9.8	9.3	8.5	8.0	9.3	8.5	7.5	6.0	4.9	5.4	4.5	4.8	5.3	5.5	5.3	5.4	6.1	6.8	11.0	4.5	7.6
7	6.3	6.8	8.2	9.0	10.3	10.0	10.1	9.9	11.1	10.5	10.6	10.2	11.2	10.9	10.2	10.1	9.1	10.0	10.3	8.2	7.4	7.3	7.0	7.0	11.2	6.3	9.2
8	6.0	3.9	3.8	6.2	5.1	3.9	4.0	4.5	4.2	4.7	4.5	2.1	1.4	2.0	1.5	2.2	1.9	1.9	2.7	3.3	2.3	2.5	2.7	2.0	6.2	1.4	3.3
9	2.2	2.4	2.4	2.2	2.1	2.5	3.7	4.7	5.5	7.1	6.6	6.3	6.6	6.6	6.0	4.9	4.2	2.4	1.5	0.9	1.5	1.1	1.2	1.1	7.1	0.9	3.6
10	0.6	0.9	1.1	2.2	2.4	3.2	3.1	2.8	3.7	4.8	5.2	5.4	4.8	3.4	2.7	3.2	3.5	3.7	3.2	3.4	4.0	4.1	4.7	4.9	5.4	0.6	3.4
11	4.9	5.4	5.1	5.6	2.5	1.9	3.2	7.4	7.8	9.3	10.2	11.2	11.9	11.9	11.2	9.9	9.5	7.5	8.2	9.6	8.6	7.0	7.7	8.1	11.9	1.9	7.7
12	10.4	9.8	8.9	7.4	6.5	7.5	5.3	4.0	5.5	3.8	4.1	3.4	6.7	2.6	2.1	4.5	2.8	3.3	4.7	3.9	2.6	2.4	2.4	3.2	10.4	2.1	4.9
13	4.6	3.7	3.2	4.6	4.7	4.1	5.0	5.9	6.5	6.8	8.1	7.9	7.8	8.3	8.8	8.4	8.2	8.7	9.9	10.4	10.8	10.1	10.0	11.0	11.0	3.2	7.4
14	11.1	11.5	11.6	12.1	12.4	12.0	12.9	12.4	12.4	12.4	13.1	12.7	14.0	14.1	13.3	13.6	12.3	12.6	12.6	12.5	11.6	10.2	10.1	10.4	14.1	10.1	12.2
15	8.9	8.9	8.3	7.3	7.1	8.6	7.7	7.9	8.8	9.6	10.4	10.2	9.6	10.1	9.7	9.8	10.4	10.4	10.3	11.3	10.6	7.7	5.9	4.4	11.3	4.4	8.9
16	4.3	5.4	5.0	4.1	2.7	3.3	3.4	2.5	2.5	3.0	3.8	4.9	5.2	4.8	5.1	5.8	5.1	2.9	1.6	4.4	3.6	4.7	6.6	6.5	6.6	1.6	4.2
17	4.5	3.7	2.7	2.1	1.9	1.8	1.5	1.9	1.9	1.1	3.4	4.7	4.7	5.5	5.8	5.2	3.8	4.0	5.3	5.4	4.9	5.7	5.2	5.7	5.8	1.1	3.9
18	5.2	6.1	6.6	7.3	7.1	7.7	8.2	7.6	7.1	7.4	7.3	6.0	5.2	4.7	4.6	5.3	5.6	4.8	5.8	6.9	7.1	8.4	8.2	7.5	8.4	4.6	6.6
19	8.1	6.9	6.6	6.0	6.2	5.9	4.6	6.3	6.2	6.0	5.4	4.1	4.7	3.9	2.8	2.7	1.8	1.5	4.1	3.6	3.6	2.5	3.7	3.5	8.1	1.5	4.6
20	3.8	4.3	5.0	6.5	5.1	4.1	3.6	2.4	0.8	0.7	1.3	1.9	1.2	0.8	4.3	5.0	2.7	2.2	1.4	3.0	0.8	0.9	1.2	1.2	6.5	0.7	2.7
21	1.2	2.1	0.9	0.7	1.1	1.8	2.2	1.2	0.6	1.8	1.9	1.7	1.0	0.4	0.6	1.3	1.0	2.1	4.1	3.2	2.4	2.4	2.4	3.3	4.1	0.4	1.7
22	2.9	1.2	3.1	4.0	2.9	2.1	1.9	2.8	2.9	2.3	2.5	3.8	3.3	2.6	2.6	1.2	2.6	2.9	3.1	2.7	3.3	4.6	3.7	3.0	4.6	1.2	2.8
23	3.2	0.8	0.8	1.3	1.7	1.5	0.9	1.5	1.7	2.7	2.5	3.1	1.9	0.8	0.5	0.9	2.1	2.4	3.9	4.9	4.8	4.7	5.0	4.6	5.0	0.5	2.4
24	4.9	4.6	4.3	5.2	5.5	5.3	4.5	5.0	5.0	5.7	5.9	5.3	5.3	4.8	5.2	5.8	4.8	5.3	5.8	5.7	4.9	5.5	5.4	6.1	6.1	4.3	5.2
25	6.3	6.1	6.3	5.8	6.5	6.2	6.4	7.1	5.8	5.5	6.5	7.0	8.0	9.4	9.1	9.7	10.1	10.5	10.3	10.8	11.6	11.3	10.6	10.4	11.6	5.5	8.2
26	9.8	9.7	10.5	9.9	7.7	7.0	6.0	6.7	7.4	8.6	8.5	7.7	5.8	6.1	6.6	5.8	5.8	5.0	4.7	5.7	6.9	6.1	6.8	7.0	10.5	4.7	7.2
27	6.5	6.1	6.5	6.4	6.5	6.5	4.7	3.4	3.6	7.3	7.9	7.8	5.8	5.7	5.5	5.2	4.5	6.8	8.4	9.4	7.5	8.8	9.6	8.3	9.6	3.4	6.6
28	8.4	8.6	7.5	9.3	9.0	9.4	9.2	7.2	9.5	9.9	9.0	9.7	9.4	9.4	8.9	9.2	9.2	8.7	7.6	7.8	8.5	10.2	9.8	10.5	10.5	7.2	9.0
29	10.8	10.0	9.9	9.5	8.0	7.9	7.5	6.9	6.0	5.0	5.1	5.4	5.6	6.6	8.8	9.4	9.6	9.7	9.5	8.4	8.5	9.0	8.3	8.3	10.8	5.0	8.1
30	8.0	7.4	7.6	8.6	8.4	8.6	7.8	4.3	2.6	2.9	2.4	0.9	5.6	9.8	8.1	7.8	8.0	7.8	8.0	7.9	7.3	6.3	7.1	6.7	9.8	0.9	6.7
31	6.8	7.0	7.2	7.1	7.1	5.8	6.3	5.6	4.0	4.1	4.7	4.4	3.9	3.5	5.9	4.3	5.0	4.8	6.5	7.4	6.9	6.9	5.9	6.2	7.4	3.5	5.7
Max.	**11.1**	**11.5**	**11.6**	**12.1**	**12.4**	**12.0**	**12.9**	**12.4**	**12.4**	**12.4**	**13.1**	**12.7**	**14.0**	**14.1**	**13.3**	**13.6**	**12.3**	**12.6**	**12.6**	**12.5**	**11.6**	**11.3**	**11.7**	**11.0**	**14.1**		
Min.	**0.6**	**0.8**	**0.8**	**0.7**	**1.1**	**1.5**	**0.9**	**1.2**	**0.6**	**0.7**	**1.3**	**0.9**	**1.0**	**0.4**	**0.5**	**0.9**	**1.0**	**1.5**	**1.4**	**0.9**	**0.8**	**0.9**	**1.2**	**1.1**		**0.4**	
Avg.	**6.2**	**6.0**	**6.0**	**6.5**	**6.0**	**6.0**	**5.7**	**5.5**	**5.6**	**5.9**	**6.2**	**6.1**	**6.1**	**6.1**	**6.2**	**6.2**	**5.9**	**5.8**	**6.1**	**6.5**	**6.3**	**6.3**	**6.4**	**6.3**			**6.1**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	6.8	6.8	6.1	5.4	5.8	5.2	5.9	6.6	6.2	5.8	5.8	4.8	5.0	4.8	5.4	6.3	6.1	7.0	6.6	7.0	6.8	6.6	6.6	6.0	7.0	4.8	6.1
2	6.5	5.9	5.8	5.3	6.0	6.0	5.5	5.9	7.9	7.3	6.9	6.5	6.3	6.4	6.1	6.2	6.2	5.4	5.9	5.3	5.9	5.3	5.4	4.5	7.9	4.5	6.0
3	4.5	5.5	4.8	5.3	6.3	5.3	5.1	5.4	5.1	4.8	4.1	4.0	4.1	4.5	4.7	5.1	5.1	5.4	4.3	4.2	4.0	5.0	5.6	4.5	6.3	4.0	4.9
4	3.9	4.3	2.1	2.2	3.5	2.6	2.2	0.6	1.0	0.7	1.2	2.2	2.0	2.3	3.0	1.9	4.0	2.8	1.0	3.5	2.9	1.0	1.2	3.5	4.3	0.6	2.3
5	3.4	4.8	5.5	4.1	4.3	5.3	5.4	3.5	1.4	1.5	1.6	0.9	1.1	2.2	2.0	1.1	0.7	1.9	3.4	3.4	2.4	2.9	1.0	1.1	5.5	0.7	2.7
6	1.9	1.6	1.7	3.0	2.6	1.7	2.6	2.3	2.4	2.4	0.5	0.6	2.5	2.5	2.5	1.5	0.3	1.6	1.2	0.6	0.9	1.8	2.1	0.9	3.0	0.3	1.7
7	3.0	1.7	1.7	2.1	1.4	0.9	0.4	2.0	4.0	5.3	5.6	7.3	8.5	9.5	9.3	7.0	6.3	5.6	5.7	7.7	8.2	9.0	8.2	8.2	9.5	0.4	5.4
8	8.1	7.7	7.5	7.6	7.6	8.2	7.3	7.6	7.4	6.4	5.6	5.5	5.5	4.1	1.9	1.0	1.9	0.8	1.3	0.9	1.6	2.3	2.6	2.3	8.2	0.8	4.7
9	1.7	2.5	2.4	2.3	2.2	1.8	1.5	2.2	2.3	2.1	1.3	0.9	1.0	2.8	2.3	1.0	0.7	1.9	1.4	0.6	1.3	0.6	1.4	1.2	2.8	0.6	1.6
10	0.5	1.5	1.0	2.3	5.4	4.8	2.9	1.0	0.9	1.3	1.2	1.2	2.4	1.5	2.1	3.1	4.1	5.2	5.8	4.9	4.2	5.9	5.4	4.1	5.9	0.5	3.0
11	3.3	4.6	2.6	1.9	3.3	6.2	4.6	1.4	1.8	2.0	1.6	1.2	3.0	2.1	2.2	1.9	0.9	0.6	2.7	2.9	3.8	3.3	1.7	3.0	6.2	0.6	2.6
12	0.6	2.3	6.1	5.5	4.9	6.6	7.7	7.8	4.9	2.2	2.3	2.3	3.2	3.5	3.3	2.9	3.5	2.5	1.8	1.9	1.8	1.7	1.4	1.9	7.8	0.6	3.4
13	1.6	1.5	2.4	1.3	1.9	1.7	1.9	1.8	1.8	3.0	1.4	3.0	3.3	3.7	4.3	3.1	2.9	2.9	3.3	2.3	1.5	2.4	2.9	1.8	4.3	1.3	2.4
14	2.8	3.3	3.1	3.2	4.7	4.8	4.5	4.0	3.1	4.6	5.0	5.6	5.8	6.8	6.5	7.1	6.8	6.7	7.0	6.7	6.8	7.1	7.6	7.7	7.7	2.8	5.5
15	7.7	7.9	8.4	8.1	8.1	8.5	8.7	8.0	7.7	8.6	7.5	8.0	7.9	8.4	8.2	7.7	8.3	7.5	7.7	8.4	8.1	8.6	7.7	8.2	8.7	7.5	8.1
16	7.7	6.9	7.0	7.3	8.3	8.2	7.5	7.3	6.7	7.2	6.4					5.2	2.7	2.7	1.8	1.2	0.4	0.8	1.5	1.7	8.3	0.4	4.9
17	0.7	1.6	2.3	2.5	2.3	2.2	4.1	3.0	3.6	3.3	3.5	4.6	5.7	3.7	4.3	3.2	5.5	6.2	8.6	6.9	6.0	6.7	8.4	9.2	9.2	0.7	4.5
18	8.5	8.6	8.2	6.6	6.6	7.5	3.9	4.2	5.9	4.1	2.2	2.8	2.7	2.5	2.2	2.8	3.0	2.5	2.5	1.5	1.6	1.7	2.6	2.5	8.6	1.5	4.1
19	2.1	2.6	6.3	4.6	3.4	2.3	3.2	3.1	6.3	4.8	5.1	5.5	6.0	4.7	3.8	3.8	3.7	3.0	2.4	1.9	1.1	1.8	4.2	3.2	6.3	1.1	3.7
20	2.3	3.0	3.1	3.6	3.2	4.1	4.5	4.4	4.2	4.6	4.2	3.9	4.3	4.9	4.5	3.1	3.2	2.7	2.3	2.3	2.2	2.5	2.0	2.8	4.9	2.0	3.4
21	3.3	4.5	6.0	7.2	5.8	7.6	6.7	5.6	4.8	4.5	3.9	2.4	1.8	5.0	5.8	7.4	6.7	7.8	6.6	5.9	11.8	14.2	15.2	15.0	15.2	1.8	6.9
22	12.8	10.1	11.1	11.5	10.3	10.2	10.0	13.3	13.1	13.2	13.1	13.4	13.1	14.1	15.2	16.6	15.9	17.1	17.3	16.0	14.9	13.7	12.3	11.8	17.3	10.0	13.3
23	11.2	10.1	6.4	5.1	5.0	5.3	4.0	3.7	2.8	5.5	5.2	3.7	3.2	5.5	6.5	5.9	6.7	6.0	4.3	4.8	5.1	4.2	6.0	4.9	11.2	2.8	5.5
24	5.0	4.9	4.6	4.6	5.1	5.7	5.4	5.8	6.3	6.0	7.0	8.2	7.9	7.4	7.9	7.9	6.3	7.7	7.2	7.4	6.4	5.5	5.0	4.9	8.2	4.6	6.3
25	4.6	4.5	3.8	3.3	3.3	3.6	3.5	2.0	3.3	3.0	3.7	5.2	5.2	4.1	3.4	3.9	3.7	4.9	5.7	6.0	6.3	8.2	7.8	8.9	8.9	2.0	4.7
26	8.8	8.8	9.1	9.6	9.4	9.4	8.6	8.5	8.7	10.1	9.3	9.5	10.1	9.3	9.2	8.9	8.0	7.2	8.0	9.2	7.9	8.9	8.6	8.2	10.1	7.2	8.9
27	6.8	6.5	6.8	6.0	7.5	10.3	7.4	11.5	8.8	8.0	10.0	12.2	10.8	11.0	12.0	12.5	14.0	12.1	12.9	14.5	13.9	12.2	13.8	13.8	14.5	6.0	10.6
28	12.4	13.8	14.0	14.2	15.2	16.3	16.5	14.7	14.1	13.5	12.7	12.0	9.6	6.9	6.6	6.3	7.2	6.3	7.5	5.9	4.0	5.9	6.5	7.6	16.5	4.0	10.4
29	7.6	6.5	7.1	6.8	6.5	6.0	5.9	6.7	6.7	6.3	6.0	5.8	5.9	6.2	4.8	3.1	3.6	4.8	5.3	4.9	5.9	6.3	5.7	6.1	7.6	3.1	5.9
30	6.5	6.5	6.4	5.7	4.9	4.4	4.5	4.0	3.4	2.8	1.9	2.0	2.4	1.9	4.5	3.5	4.1	3.4	2.7	1.8	4.5	4.2	5.3	5.3	6.5	1.8	4.0
31	4.5	4.6	4.7	4.8	4.3	3.6	4.1	2.9	3.8	4.3	4.4	4.5	4.0	3.9	5.5	6.0	4.6	4.5	4.5	5.4	8.2	9.0	10.1	8.3	10.1	2.9	5.2
Max.	**12.8**	**13.8**	**14.0**	**14.2**	**15.2**	**16.3**	**16.5**	**14.7**	**14.1**	**13.5**	**13.1**	**13.4**	**13.1**	**14.1**	**15.2**	**16.6**	**15.9**	**17.1**	**17.3**	**16.0**	**14.9**	**14.2**	**15.2**	**15.0**	**17.3**		
Min.	**0.5**	**1.5**	**1.0**	**1.3**	**1.4**	**0.9**	**0.4**	**0.6**	**0.9**	**0.7**	**0.5**	**0.6**	**1.0**	**1.5**	**1.9**	**1.0**	**0.3**	**0.6**	**1.0**	**0.6**	**0.4**	**0.6**	**1.0**	**0.9**		**0.3**	
Avg.	**5.2**	**5.3**	**5.4**	**5.3**	**5.5**	**5.7**	**5.4**	**5.2**	**5.2**	**5.1**	**4.8**	**5.0**	**5.1**	**5.2**	**5.3**	**5.1**	**5.1**	**5.1**	**5.1**	**5.0**	**5.2**	**5.5**	**5.7**	**5.6**			**5.2**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	7.7	9.5	9.6	10.8	9.2	7.6	9.2	8.6	8.8	11.3	11.4	12.1	12.3	12.1	13.9	12.6	11.3	6.5	6.8	9.6	7.2	6.5	9.7	10.0	13.9	6.5	9.8
2	11.6	12.7	11.1	10.2	9.5	10.5	11.3	11.0	11.9	11.0	7.3	5.8	7.1	7.4	7.6	6.4	7.7	8.1	7.0	3.4	5.5	5.8	5.6	5.0	12.7	3.4	8.4
3	5.4	6.3	7.4	7.4	6.9	7.0	7.6	7.2	7.3	6.7	6.7	6.9	7.5	7.4	6.7	7.4	8.1	7.6	7.5	8.1	7.9	8.2	8.3	7.8	8.3	5.4	7.3
4	7.4	8.5	8.8	9.2	10.0	9.5	9.5	9.5	9.5	9.9	9.7	10.2	10.6	11.6	11.4	11.8	12.7	11.8	12.1	11.3	11.4	12.5	12.4	13.8	13.8	7.4	10.6
5	14.0	14.1	12.8	13.8	13.6	12.7	12.7	13.1	13.3	12.3	12.8	11.4	9.8	9.1	8.8	9.0	9.3	11.1	10.4	11.7	12.1	13.1	12.1	12.1	14.1	8.8	11.9
6	11.1	10.4	10.1	9.2	8.6	9.3	8.3	6.7	5.6	2.8	2.4	0.1	3.1	2.3	3.8	2.2	2.7	2.6	2.6	2.0	3.1	2.8	2.9	2.6	11.1	0.1	4.9
7	3.4	4.9	4.1	3.6	2.2	1.4	1.1	3.0	6.8	6.3	6.1	9.2	9.6	10.3	8.9	4.1	3.2	3.9	4.2	6.9	7.5	6.6	5.5	4.8	10.3	1.1	5.3
8	4.7	4.4	2.1	3.2	3.0	2.9	3.3	3.9	5.3	6.0	4.7	5.8	5.6	5.8	7.3	8.5	8.6	8.5	8.5	7.7	8.0	8.7	8.7	8.3	8.7	2.1	6.0
9	9.4	9.6	9.9	9.9	10.4	11.8	13.3	14.3	15.3	15.5	15.8	15.2	14.8	13.9	13.0	11.0	10.2	9.5	8.8	8.7	8.9	7.6	5.8	4.8	15.8	4.8	11.1
10	6.2	7.7	7.8	8.3	8.8	8.6	9.5	8.7	9.2	9.5	9.1	6.6	4.9	2.9			1.4	2.8	2.6	3.8	2.6	2.3	2.9	4.0	9.5	1.4	5.9
11	4.2	5.0	5.8	5.8	6.3	6.4	7.4	8.2	9.0	8.3	8.9	7.9	7.6	8.0	7.5	8.4	9.1	9.0	8.3	8.2	7.6	7.6	7.7	6.8	9.1	4.2	7.5
12	5.2	4.8	2.9	2.8	7.5	5.3	5.7	6.8	7.0	6.4	7.4	10.0	11.0	7.5	5.9	5.7	9.6	11.4	10.1	9.2	9.8	8.4	6.1	5.6	11.4	2.8	7.2
13	1.9	1.2	1.8	1.4	2.3	1.6	0.7	2.8	4.1	3.7	1.6	5.7	5.7	6.2	5.6	4.9	5.1	5.7	6.3	5.0	5.2	4.8	4.0	3.8	6.3	0.7	3.8
14	4.0	4.5	4.5	4.7	4.9	5.2	4.2	5.0	5.1	4.5	5.5	6.7	6.2	6.3	5.8	5.3	5.0	4.4	4.5	4.3	5.6	6.3	5.7	6.3	6.7	4.0	5.2
15	6.7	7.6	5.5	6.4	6.8	6.7	6.8	7.2	7.3	4.3	3.5	4.0	3.9	2.9	4.2	5.0	4.2	4.0	4.1	5.0	4.4	4.1	3.5	4.3	7.6	2.9	5.1
16	4.9	3.8	4.1	4.5	4.3	3.6	1.4	1.8	1.6	0.8	0.4	0.6	1.8	2.5	1.4	1.5	3.9	3.4	3.7	4.4	4.0	3.7	4.5	4.7	4.9	0.4	3.0
17	5.2	5.9	6.1	5.9	5.6	7.2	7.9	9.2	10.3	9.5	8.6	8.7	7.6	7.2	7.0	6.5	6.9	6.5	6.4	5.1	5.6	5.8	6.7	5.0	10.3	5.0	6.9
18	4.1	4.7	5.1	4.8	4.9	4.6	3.9	4.7	4.7	5.5	4.4	3.1	2.4	3.2	1.4	2.8	2.9	2.3	2.3	3.0	4.8	5.3	4.9	3.9	5.5	1.4	3.9
19	1.9	4.0	8.6	9.3	7.8	4.3	4.2	3.7	5.6	4.7	6.1	5.1	5.1	3.5	5.3	5.2	5.8	9.0	8.8	8.0	8.0	8.7	5.7	6.3	9.3	1.9	6.0
20	5.5	4.9	5.6	2.6	2.3	2.5	3.0	3.9	3.7	4.5	2.7	3.1	3.3	7.9	4.6	5.0	7.7	10.3	11.7	13.1	10.8	13.2	13.4	10.4	13.4	2.3	6.5
21	12.3	6.7	6.4	4.6	6.0	5.5	6.3	6.9	7.3	6.4	4.4	4.8	6.7	5.9	4.6	4.3	4.1	3.4	4.1	3.8	4.1	3.7	3.4	3.5	12.3	3.4	5.4
22	3.6	4.6	3.0	2.9	2.5	2.0	8.0	5.0	4.8	4.0	4.2	4.7	3.2	2.9	3.2	2.5	2.6	2.5	1.9	2.8	3.1	3.4	2.8	2.8	8.0	1.9	3.5
23	1.9	1.8	1.9	1.7	0.5	2.0	1.7	2.3	1.6	5.3	6.0	6.3	4.2	4.0	3.5	3.3	3.7	4.2	2.8	2.2	2.5	3.5	3.7	3.4	6.3	0.5	3.1
24	3.2	3.3	3.8	3.9	3.2	4.2	3.6	4.6	6.5	6.9	6.9	5.0	3.7	2.9	3.1	2.6	1.8	1.8	3.3	3.6	3.9	4.0	3.1	3.1	6.9	1.8	3.8
25	3.5	3.4	3.0	2.0	2.1	1.9	1.5	0.6	0.6	3.4	1.5	0.6	4.4	1.7	5.5	4.1	4.2	5.2	7.3	7.5	8.9	6.4	4.9	5.5	8.9	0.6	3.7
26	4.8	4.6	5.7	3.9	4.3	2.8	2.4	3.0	2.3	3.3	3.0	3.9	2.5	3.3	2.8	3.5	2.7	3.0	1.9	1.7	1.4	3.4	3.7	5.2	5.7	1.4	3.3
27	5.8	6.9	7.2	7.0	5.8	4.0	1.8	3.2	8.4	4.4	4.1	3.0	2.0	2.6	4.1	4.4	3.0	3.7	6.7	6.1	4.6	3.6	5.2	5.2	8.4	1.8	4.7
28	5.0	8.0	6.6	6.4	6.4	8.1	8.3	8.5	6.1	6.5	5.3	6.4	8.1	9.1	10.9	10.5	8.9	8.9	9.0	8.5	7.9	9.5	8.6	8.2	10.9	5.0	7.9
Max.	**14.0**	**14.1**	**12.8**	**13.8**	**13.6**	**12.7**	**13.3**	**14.3**	**15.3**	**15.5**	**15.8**	**15.2**	**14.8**	**13.9**	**13.9**	**12.6**	**12.7**	**11.8**	**12.1**	**13.1**	**12.1**	**13.2**	**13.4**	**13.8**	**15.8**		
Min.	**1.9**	**1.2**	**1.8**	**1.4**	**0.5**	**1.4**	**0.7**	**0.6**	**0.6**	**0.8**	**0.4**	**0.1**	**1.8**	**1.7**	**1.4**	**1.5**	**1.4**	**1.8**	**1.9**	**1.7**	**1.4**	**2.3**	**2.8**	**2.6**		**0.1**	
Avg.	**5.9**	**6.2**	**6.1**	**5.9**	**5.9**	**5.7**	**5.9**	**6.2**	**6.7**	**6.6**	**6.1**	**6.2**	**6.2**	**6.1**	**6.2**	**5.9**	**5.9**	**6.1**	**6.2**	**6.2**	**6.3**	**6.4**	**6.1**	**6.0**			**6.1**

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	8.2	4.2	3.6	5.7	6.6	7.1	6.7	6.0	2.3	3.7	5.0	4.9	5.3	4.2	3.1	2.2	3.1	4.0	5.9	6.2	5.7	6.6	6.9	4.3	8.2	2.2	5.0
2	3.0	5.8	6.3	6.3	6.3	6.9	7.1	8.6	9.1	8.6	8.2	7.8	8.0	8.5	7.9	7.3	8.1	7.5	8.0	7.5	7.9	8.1	7.9	8.7	9.1	3.0	7.5
3	7.7	7.8	6.4	6.0	7.1	7.3	7.2	6.9	7.5	6.8	6.3	5.5	5.9	6.2	5.7	5.1	4.1	3.1	3.9	4.3	4.4	4.7	4.7	5.2	7.8	3.1	5.8
4	5.2	4.7	4.9	5.6	5.4	5.4	5.7	5.5	6.2	5.3	5.5	5.4	5.7	4.5	4.9	5.3	5.0	5.9	5.6	5.5	5.4	5.7	5.4	5.6	6.2	4.5	5.4
5	5.6	5.9	6.1	6.3	6.5	6.3	5.5	1.7	1.3	1.4	1.2	3.4	3.9	3.4	2.9	2.3	2.4	3.5	5.9	6.3	4.3	3.6	3.2	3.8	6.5	1.2	4.0
6	6.0	5.8	4.8	4.2	5.4	4.6	3.4	5.3	8.7	9.3	9.7	8.7	8.0	5.1	6.3	5.2	4.4	2.8	2.0	1.7	3.1	3.8	4.5	5.7	9.7	1.7	5.4
7	5.8	4.9	2.8	3.8	3.1	3.9	5.1	4.7	7.0	9.1	10.0	10.0	9.2	8.7	8.4	8.5	8.7	7.1	7.7	7.4	5.7	7.2	8.0	10.3	10.3	2.8	7.0
8	11.1	12.4	11.2	10.7	12.3	11.1	11.7	13.8	10.1	9.4	9.4	8.9	7.6	7.8	7.3	9.8	10.3	13.2	10.1	6.5	6.8	6.5	5.0	5.2	13.8	5.0	9.5
9	6.3	6.0	6.6	6.0	7.4	8.1	7.7	7.4	6.8	7.8	9.5	7.7	6.2	8.7	6.9	6.2	6.8	7.9	7.9	8.1	9.0	9.2	7.7	5.8	9.5	5.8	7.4
10	6.1	4.6	4.9	4.9	4.9	5.6	4.8	2.2	4.4	4.4	4.4	3.3	2.6	2.7	3.1	1.6	1.4	3.4	4.7	4.6	4.8	5.1	5.4	5.3	6.1	1.4	4.1
11	5.6	5.6	8.2	7.4	7.3	8.3	7.5	8.2	8.8	8.7	8.5	7.7	7.5	7.8	7.2	7.0	6.8	7.9	7.7	8.1	8.6	7.7	6.7	5.9	8.8	5.6	7.5
12	9.1	8.0	8.0	9.1	8.7	8.4	7.8	6.6	6.3	6.1	6.5	7.0	6.9	7.4	7.5	7.3	6.5	6.2	5.7	5.3	4.9	3.8	2.0	1.4	9.1	1.4	6.5
13	2.5	1.4	1.2	0.8	0.9	1.9	1.6	1.2	1.3	1.7	2.2	3.8	3.1	2.8	2.3	2.1	2.2	1.6	1.7	2.0	1.5	1.2	1.9	1.4	3.8	0.8	1.8
14	1.1	2.5	1.9	2.9	3.4	3.0	2.5	2.8	3.4	4.2	3.9	2.5	3.1	3.5	4.3	3.9	2.1	2.1	2.8	2.8	3.3	4.1	3.0	2.4	4.3	1.1	3.0
15	2.4	3.8	3.4	5.1	4.6	3.9	3.5	2.8	2.8	4.4	2.8	1.2	1.1	1.5	1.1	0.9	2.1	2.1	3.0	1.3	3.5	3.9	5.0	5.0	5.1	0.9	3.0
16	4.7	5.4	6.0	5.5	5.4	5.5	5.2	5.9	7.0	7.4	7.4	7.0	7.3	6.1	4.5	4.6	5.2	3.3	3.8	4.2	4.0	4.6	5.0	4.7	7.4	3.3	5.4
17	4.6	4.3	4.8	6.4	6.2	6.0	5.2	5.5	6.2	5.6	6.0	7.3	8.8	7.9	7.8	7.7	7.2	7.2	7.9	6.5	7.6	7.4	7.7	7.1	8.8	4.3	6.6
18	8.3	9.2	8.5	8.4	8.5	7.9	8.3	7.9	7.9	7.9	8.2	9.0	9.5	8.9	8.0	6.8	4.8	3.7	1.6	0.2	0.6	0.4	0.1	0.6	9.5	0.1	6.1
19	2.2	1.2	2.1	2.4	2.1	2.1	2.8	3.5	1.7	3.4	2.7	1.2	2.2	2.8	4.4	3.7	3.3	2.5	2.4	1.6	0.7	2.7	4.3	4.4	4.4	0.7	2.6
20	4.6	4.7	3.7	3.8	5.0	5.2	4.4	3.3	1.5	1.5	1.6	0.9	1.0	3.3	4.0	5.0	4.3	3.7	5.2	5.3	5.3	6.0	6.2	5.4	6.2	0.9	3.9
21	5.2	5.1	4.6	4.8	3.8	4.4	3.2	3.3	1.4	1.4	3.3	3.0	1.5	1.6	0.8	1.0	2.7	2.7	2.2	3.3	3.1	2.1	2.1	3.8	5.2	0.8	2.9
22	6.0	6.4	6.7	6.7	6.7	7.9	8.6	8.9	8.9	8.3	8.5	6.3	6.1	6.2	5.4	5.0	2.4	1.5	1.1	1.1	3.3	4.0	3.9	3.5	8.9	1.1	5.6
23	3.4	2.3	2.7	1.3	1.1	1.3	2.7	3.4	4.8	5.7	4.0	4.0	2.9	3.9	1.4	1.7	2.1	4.7	6.9	6.0	7.1	6.2	6.1	4.8	7.1	1.1	3.8
24	5.9	7.8	7.8	8.7	8.2	7.8	7.4	5.3	5.9	6.6	4.2	2.9	1.4	1.6	2.8	3.6	2.3	0.9	2.2	4.9	5.0	4.3	4.6	4.4	8.7	0.9	4.8
25	4.3	4.3	3.5	2.0	4.7	4.2	4.9	4.7	5.3	5.3	4.6	1.5	0.7	1.3	1.6	0.9	0.9	1.7	1.5	4.2	3.4	3.4	4.6	5.9	5.9	0.7	3.3
26	3.5	5.1	5.5	5.1	5.1	5.1	5.4	5.7	7.0	6.4	3.6	2.4	1.6	2.0	1.9	2.4	1.7	1.9	0.7	2.6	3.8	3.7	3.5	3.3	7.0	0.7	3.7
27	2.9	3.8	2.3	2.0	3.5	2.4	1.5	1.9	3.0	0.8	0.8	2.6	2.8	3.0	3.3	3.1	2.8	2.4	1.9	1.3	1.1	0.9	2.1	2.0	3.8	0.8	2.3
28	2.1	2.7	2.5	3.8	3.8	4.0	4.3	4.2	3.1	1.2	0.6	1.4	3.4	3.2	3.5	3.0	2.7	2.3	3.6	2.1	0.4	0.9	1.2	1.1	4.3	0.4	2.6
29	2.7	2.7	2.8	3.2	3.6	3.9	3.5	3.7	3.5	3.7	2.9	2.0	0.8	2.5	4.8	4.7	4.1	0.9	1.1	0.9	0.7	0.8	2.2	3.8	4.8	0.7	2.7
30	4.8	4.0	4.4	5.1	4.4	5.8	6.5	6.8	7.4	6.1	6.8	6.3	7.8	7.1	7.7	8.2	8.2	7.7	6.9	6.7	5.1	5.5	6.9	6.9	8.2	4.0	6.4
31	7.0	6.9	6.5	5.8	6.3	6.3	7.0	6.7	7.2	8.2	7.8	7.9	8.7	8.1	8.4	7.6	6.8	5.7	4.6	2.6	3.3	3.1	3.9	2.5	8.7	2.5	6.2
Max.	**11.1**	**12.4**	**11.2**	**10.7**	**12.3**	**11.1**	**11.7**	**13.8**	**10.1**	**9.4**	**10.0**	**10.0**	**9.5**	**8.9**	**8.4**	**9.8**	**10.3**	**13.2**	**10.1**	**8.1**	**9.0**	**9.2**	**8.0**	**10.3**	**13.8**		
Min.	**1.1**	**1.2**	**1.2**	**0.8**	**0.9**	**1.3**	**1.5**	**1.2**	**1.3**	**0.8**	**0.6**	**0.9**	**0.7**	**1.3**	**0.8**	**0.9**	**0.9**	**0.9**	**0.7**	**0.2**	**0.4**	**0.4**	**0.1**	**0.6**		**0.1**	
Avg.	**5.1**	**5.1**	**5.0**	**5.2**	**5.4**	**5.5**	**5.4**	**5.3**	**5.4**	**5.5**	**5.4**	**4.9**	**4.9**	**4.9**	**4.8**	**4.7**	**4.4**	**4.2**	**4.4**	**4.2**	**4.3**	**4.4**	**4.6**	**4.5**			**4.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

April *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	2.5	3.2	3.0	3.7	4.3	4.0	5.0	6.9	6.8	7.3	7.0	5.2	4.1	6.4	5.4	4.1	4.3	4.5	4.4	5.0	4.0	4.3	4.0	5.3	7.3	2.5	4.8
2	3.5	5.5	6.8	5.0	7.4	4.8	3.0	3.6	3.2	1.8	2.3	1.3	1.5	1.4	1.3	2.4	2.9	2.4	2.2	2.7	3.7	5.2	5.2	5.9	7.4	1.3	3.5
3	6.9	6.8	6.4	6.9	6.9	7.3	7.5	7.7	7.7	8.2	8.0	8.2	8.2	8.3	8.3	7.3	7.3	6.4	6.1	6.1	5.5	5.6	6.5	6.0	8.3	5.5	7.1
4	6.4	5.5	5.6	5.6	5.3	5.8	5.5	5.5	5.8	4.9	4.4	2.2	1.2	0.6	0.9	0.9	0.8	1.0	0.6	0.6	0.7	0.8	0.6	0.8	6.4	0.6	3.0
5	2.1	4.3	3.7	4.5	2.7	3.0	5.0	3.3	6.4	5.6	7.5	8.4	8.6	7.2	4.7	6.7	4.1	6.2	6.0	8.4	8.3	8.2	8.4	8.7	8.7	2.1	5.9
6	8.4	8.4	8.0	5.1	3.8	4.2	5.2	4.8	5.9	4.6	2.4	2.4	2.6	2.9	3.8	2.9	2.8	2.6	1.9	1.9	2.2	1.3	0.6	1.1	8.4	0.6	3.7
7	1.6	0.7	2.5	3.0	1.1	3.6	3.4	3.6	3.9	2.0	2.0	2.0	1.3	0.9	1.1	1.3	1.7	1.3	1.5	1.6	1.2	2.6	2.5	3.1	3.9	0.7	2.1
8	3.6	3.7	3.4	3.4	3.3	3.7	3.6	5.5	5.1	4.1	4.5	4.3	3.8	3.8	3.8	3.6	3.7	3.8	4.1	3.9	3.5	2.8	1.5	1.8	5.5	1.5	3.7
9	0.6	0.3	0.9	1.6	1.6	1.1	1.5	1.6	1.8	2.9	2.7	1.2	1.0	3.3	3.9	3.6	3.4	2.8	0.8	1.1	1.4	3.2	2.5	4.3	4.3	0.3	2.0
10	4.4	6.1	5.2	4.7	4.4	6.4	7.0	7.6	7.9	8.4	8.9	9.4	6.6	8.2	11.7	14.1	11.9	8.8	2.9	3.2	7.3	9.7	7.4	6.6	14.1	2.9	7.4
11	6.4	6.4	4.1	4.3	3.2	3.2	3.2	3.6	2.9	2.4	3.8	3.5	3.4	4.3	6.8	8.4	9.2	8.5	8.0	8.3	8.4	8.9	9.1	8.1	9.2	2.4	5.8
12	8.5	8.4	8.6	8.5	8.6	8.4	8.4	8.2	7.9	7.8	8.0	7.5	7.2	6.8	5.1	2.9	0.5	0.2	0.6	1.8	2.2	3.5	4.2	3.8	8.6	0.2	5.7
13	6.1	7.4	8.4	8.2	7.9	8.1	8.0	8.1	7.7	6.5	8.0	7.3	9.1	12.3	12.6	11.1	11.2	10.0	6.1	6.2	7.9	9.0	9.1	9.2	12.6	6.1	8.6
14	9.6	9.4	8.7	8.4	9.6	9.7	9.7	9.2	8.9	9.6	9.5	9.1	9.4	8.9	8.7	7.8	6.8	6.2	4.5	5.7	6.3	8.3	7.6	6.9	9.7	4.5	8.3
15	6.8	7.1	5.8	6.4	5.6	3.8	4.0	4.9	5.4	8.0	6.5	8.8	9.2	7.1	7.0	6.3	6.2	6.4	5.2	3.9	2.5	2.9	2.9	4.7	9.2	2.5	5.7
16	3.5	5.3	4.2	3.7	4.6	6.6	7.3	8.2	8.5	8.0	7.8	8.1	8.2	7.7	9.4	10.2	10.1	10.6	10.7	11.1	11.2	11.2	10.5	10.5	11.2	3.5	8.2
17	10.6	10.7	10.6	11.4	10.5	9.5	8.1	6.3	3.5	6.4	4.9	4.8	3.9	5.4	5.3	5.5	4.8	4.4	4.7	5.1	3.3	2.7	2.4	2.7	11.4	2.4	6.1
18	1.3	4.7	1.7	2.4	1.1	1.4	1.9	2.2	2.3	1.9	0.9	2.2	2.9	3.1	3.5	3.6	2.1	0.8	0.8	3.1	3.9	3.9	3.4	2.3	4.7	0.8	2.4
19	5.5	7.2	7.6	7.3	7.7	8.3	7.9	6.0	3.7	3.3	3.6	3.2	3.8	3.9	1.1	1.8	2.6	1.4	0.4	0.5	1.8	1.8	1.6	2.9	8.3	0.4	3.9
20	1.6	1.5	2.4	3.7	4.2	3.9	4.2	3.9	4.1	4.3	4.6	1.9	2.0	2.3	2.9	4.2	4.6	3.6	4.0	2.8	3.8	4.5	6.2	6.3	6.3	1.5	3.6
21	7.1	8.3	8.6	8.7	9.1	8.9	9.3	9.6	9.7	9.2	9.2	8.6	7.2	5.7	4.8	1.8	2.7	2.0	2.4	4.4	3.8	3.1	3.1	2.9	9.7	1.8	6.3
22	3.7	4.1	4.4	4.9	4.2	3.9	3.7	3.4	3.1	2.7	1.1	1.3	1.0	1.2	1.9	2.1	2.1	2.0	1.7	1.8	1.4	1.3	1.6	2.9	4.9	1.0	2.6
23	2.7	3.8	3.9	4.5	4.0	4.3	4.3	4.1	3.0	3.3	3.7	4.8	4.1	3.2	1.7	3.3	3.9	1.4	0.6	4.0	5.6	5.1	6.0	5.8	6.0	0.6	3.8
24	3.9	3.0	1.9	1.5	3.1	5.6	4.1	3.1	1.7	3.9	3.9	4.2	5.5	8.5	7.8	7.2	5.4	4.1	9.2	10.6	5.9	5.5	8.4	8.2	10.6	1.5	5.3
25	6.3	4.1	1.5	2.3	2.0	2.6	3.4	4.3	4.5	4.4	3.7	4.6	5.2	4.6	5.1	4.6	4.7	5.4	4.9	5.2	5.3	4.8	5.9	4.7	6.3	1.5	4.3
26	5.9	6.3	6.5	6.2	5.8	6.8	6.6	6.6	7.0	7.5	7.2	7.3	6.6	6.6	6.3	6.4	5.7	4.7	4.7	4.8	4.9	5.0	3.5	4.0	7.5	3.5	6.0
27	5.0	5.2	5.1	4.7	4.8	5.2	5.4	5.7	5.1	4.9	4.4	4.2	3.1	2.3	1.0	1.6	1.9	1.6	0.9	0.7	0.7	1.6	1.9	2.7	5.7	0.7	3.3
28	3.6	3.5	4.0	3.8	2.5	2.4	2.9	1.7	2.4	2.0	2.0	1.2	1.9	2.9	2.1	2.5	2.9	2.5	1.4	0.5	0.8	1.3	1.9	1.8	4.0	0.5	2.3
29	1.8	2.9	6.3	6.4	7.2	7.8	7.2	8.6	8.1	5.6	4.9	3.1	2.8	3.1	3.1	4.4	4.5	4.4	3.8	3.5	4.5	3.9	3.0	2.9	8.6	1.8	4.7
30	2.9	2.9	3.2	2.4	2.9	3.3	5.2	3.4	4.0	6.2	5.5	2.5	1.7	2.2	3.8	3.0	1.8	1.7	0.8	2.2	2.0	2.2	2.1	2.3	6.2	0.8	2.9
Max.	**10.6**	**10.7**	**10.6**	**11.4**	**10.5**	**9.7**	**9.7**	**9.6**	**9.7**	**9.6**	**9.5**	**9.4**	**9.4**	**12.3**	**12.6**	**14.1**	**11.9**	**10.6**	**10.7**	**11.1**	**11.2**	**11.2**	**10.5**	**10.5**	**14.1**		
Min.	**0.6**	**0.3**	**0.9**	**1.5**	**1.1**	**1.1**	**1.5**	**1.6**	**1.7**	**1.8**	**0.9**	**1.2**	**1.0**	**0.6**	**0.9**	**0.9**	**0.5**	**0.2**	**0.4**	**0.5**	**0.7**	**0.8**	**0.6**	**0.8**		**0.2**	
Avg.	**4.8**	**5.2**	**5.1**	**5.1**	**5.0**	**5.2**	**5.4**	**5.4**	**5.3**	**5.2**	**5.1**	**4.8**	**4.6**	**4.8**	**4.8**	**4.8**	**4.6**	**4.1**	**3.5**	**4.0**	**4.1**	**4.5**	**4.5**	**4.6**			**4.8**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	28.2	18.4	12.4	12.4	13.3	16.0	13.0	9.5	11.5	11.0	10.3	10.4	10.4	9.7	9.8	11.2	10.0	11.0	11.6	11.6	10.7	10.1	10.9	10.1	28.2	9.5	12.2
2	10.1	10.7	9.8	9.3	9.6	8.6	9.5	8.8	9.5	10.2	8.8	9.0	9.7	11.7	11.5	10.8	11.4	10.9	8.3	9.9	9.5	32.2	39.2	19.1	39.2	8.3	12.4
3	11.5	12.8	12.1	10.8	11.8	11.6	9.9	10.7	10.0	8.6	9.1	9.5	9.0	8.9	10.3	13.6	13.4	16.5	13.4	11.2	12.7	13.0	11.6	11.2	16.5	8.6	11.4
4	9.3	11.7	13.5	11.7	15.9	34.4	64.1	39.0	50.3	47.0	27.3	47.0	58.6	66.4	37.8	46.1	66.4	30.9	41.2	44.2	74.0	34.2	16.0	17.4	74.0	9.3	37.7
5	13.4	14.0	20.7	14.9	12.7	11.5	11.0	10.4	8.7	11.2	10.3	11.7	12.5	11.4	57.0	43.2	55.1	76.5	42.5	37.7	25.9	42.1	41.6	10.6	76.5	8.7	25.3
6	13.4	43.8	37.7	22.2	17.0	17.6	19.0	10.8	7.2	25.8	15.7	16.7	16.8	18.0	33.8	15.4	16.2	15.1	20.9	29.5	30.1	32.0	32.9	29.0	43.8	7.2	22.4
7	20.9	26.5	31.6	28.4	34.1	39.9	34.5	28.8	29.0	26.6	24.6	30.0	50.1	70.0	57.9	49.0	31.6	42.6	47.4	42.4	50.0	58.1	20.1	17.4	70.0	17.4	37.1
8	15.7	28.3	36.3	17.2	12.5	9.1	8.2	6.0	8.8	11.9	8.6	9.2	9.6	9.4	10.7	10.5	11.2	9.9	9.9	10.3	10.2	10.4	10.4	10.4	36.3	6.0	12.3
9	9.8	9.7	10.4	9.5	9.7	10.0	9.8	10.9	9.4	10.2	10.3	10.3	9.8	9.4	9.2	9.8	10.0	9.0	9.1	10.0	10.1	10.0	10.0	10.3	10.9	9.0	9.9
10	10.7	9.9	10.7	10.6	9.1	8.7	11.6	13.1	14.0	22.6	22.5	15.6	32.7	37.0	35.6	42.8	50.3	60.3	37.6	59.7	15.4	33.4	9.8	22.8	60.3	8.7	24.8
11	24.2	5.5	8.6	23.1	48.3	12.4	11.4	6.1	5.2	5.8	6.6	24.3	23.6	33.6	37.4	18.7	10.2	25.7	44.7	11.5	32.5	14.1	14.8	21.8	48.3	5.2	19.6
12	12.6	13.7	14.2	10.0	16.6	14.0	40.1	13.3	11.1	17.0	19.1	39.4	39.9	27.5	14.9	25.4	60.2	65.5	65.1	57.7	67.3	12.6	17.8	9.1	67.3	9.1	28.5
13	9.9	7.9	14.4	12.2	12.1	12.0	13.0	13.5	13.0	15.0	7.2	10.2	27.3	42.6	38.3	25.2	38.9	40.2	64.9	56.6	19.0	12.9	28.3	61.0	64.9	7.2	24.8
14	52.2	20.4	23.0	17.6	33.8	12.2	8.7	5.1	36.6	30.1	11.9	15.3	20.2	25.4	19.8	18.4	17.6	25.1	17.3	20.0	16.3	38.4	54.8	12.6	54.8	5.1	23.0
15	20.4	35.3	8.6	20.0	38.0	16.9	43.1	13.3	12.0	20.8	17.8	12.6	6.0	8.4	5.8	5.0	5.3	5.7	10.4	14.0	29.0	24.9	19.7	63.1	63.1	5.0	19.0
16	65.5	38.7	14.4	13.8	18.1	15.2	21.6	28.6	13.3	5.4	10.9	13.4	11.5	15.6	9.1	7.1	5.6	7.5	5.6	19.9	9.1	7.6	9.6	18.2	65.5	5.4	16.1
17	36.5	10.1	5.6	5.9	5.4	6.5	7.5	7.2	8.9	8.8	10.0	13.4	11.4	15.6	13.7	11.5	13.9	21.4	26.1	30.1	32.8	43.3	55.6	17.1	55.6	5.4	17.4
18	8.1	9.2	10.7	6.2	6.7	19.2	3.5	13.9	41.4	28.0	23.9	35.0	34.1	28.1	44.8	63.8	57.7	36.5	37.7	41.0	36.5	62.5	66.2	30.8	66.2	3.5	31.1
19	23.9	27.1	18.0	15.7	18.6	29.1	12.9	7.4	4.4	34.4	14.7	27.9	18.2	31.7	28.3	53.4	57.0	38.1	15.3	15.6	41.7	38.2	24.9	13.6	57.0	4.4	25.4
20	9.5	10.9	9.8	11.9	10.7	9.7	9.7	11.3	11.6	10.0	11.0	11.8	9.6	8.4	8.0	10.5	11.4	12.8	8.0	14.9	29.9	33.3	18.6	56.0	56.0	8.0	14.6
21	36.2	31.7	62.4	50.0	62.8	39.8	15.7	14.7	31.9	16.9	15.6	16.4	21.4	52.1	46.9	29.2	56.0	58.9	41.2	26.5	21.4	14.5	13.4	15.6	62.8	13.4	33.0
22	18.9	19.5	15.4	17.9	18.6	15.7	13.5	11.2	12.6	11.5	50.3	19.0	36.4	38.2	18.3	16.9	15.6	14.6	14.0	27.7	55.8	12.4	16.9	15.6	55.8	11.2	21.1
23	7.0	22.0	51.0	61.0	49.8	56.3	32.4	34.2	41.3	17.1	20.4	27.2	10.1	6.5	7.6	11.0	21.1	14.0	21.0	54.8	64.1	21.3	9.6	10.3	64.1	6.5	28.0
24	7.4	7.7	10.3	56.3	56.9	12.2	33.5	10.1	23.4	7.7	7.9	13.6	2.1	63.7	19.5	15.7	13.7	17.1	49.9	43.6	51.3	24.9	10.7	10.9	63.7	2.1	23.7
25	14.7	9.9	57.7	52.8	35.5	12.0	50.8	57.4	50.6	33.3	8.8	11.9	7.8	18.1	23.8	13.5	31.5	36.4	49.9	75.0	22.7	12.8	10.7	9.6	75.0	7.8	29.5
26	8.8	10.1	11.4	8.7	10.4	13.4	10.1	8.1	8.3	40.8	19.8	9.9	7.0	14.9	45.1	13.1	16.2	22.6	27.2	55.3	40.5	14.2	10.4	24.6	55.3	7.0	18.8
27	11.8	9.4	71.5	55.6	11.8	15.0	15.9	13.7	18.8	15.7	30.7	12.5	60.3	53.7	9.8	21.2	17.1	25.5	19.3	30.5	58.2	15.0	7.7	18.1	71.5	7.7	25.8
28	9.1	13.5	38.7	17.2	13.7	10.9	42.6	52.1	23.5	5.2	5.3	4.6	4.4	4.4	3.3	3.9	3.6	7.8	11.8	14.6	31.1	18.7	17.5	15.8	52.1	3.3	15.6
29	46.1	44.1	47.0	37.0	56.3	31.6	12.4	49.6	28.1	14.9	48.1	17.8	29.5	29.2	27.9	43.3	68.3	50.2	52.2	39.9	64.7	32.3	45.5	44.0	68.3	12.4	40.0
30	38.2	20.0	39.4	19.8	34.6	8.5	9.5	10.0	17.6	11.9	40.7	40.4	46.4	41.1	36.4	48.5	21.5	65.8	45.4	40.1	61.7	65.2	46.5	32.1	65.8	8.5	35.0
31	63.8	8.6	10.2	11.3	11.4	14.9	16.1	37.9	18.6	14.2	10.4	7.9	5.6	6.3	8.8	8.7	7.8	7.8	17.3	18.8	11.0	18.1	24.4	46.0	63.8	5.6	16.9
Max.	**65.5**	**44.1**	**71.5**	**61.0**	**62.8**	**56.3**	**64.1**	**57.4**	**50.6**	**47.0**	**50.3**	**47.0**	**60.3**	**70.0**	**57.9**	**63.8**	**68.3**	**76.5**	**65.1**	**75.0**	**74.0**	**65.2**	**66.2**	**63.1**	**76.5**		
Min.	**7.0**	**5.5**	**5.6**	**5.9**	**5.4**	**6.5**	**3.5**	**5.1**	**4.4**	**5.2**	**5.3**	**4.6**	**2.1**	**4.4**	**3.3**	**3.9**	**3.6**	**5.7**	**5.6**	**9.9**	**9.1**	**7.6**	**7.7**	**9.1**		**2.1**	
Avg.	**21.5**	**18.1**	**23.8**	**21.6**	**23.1**	**17.6**	**19.8**	**18.3**	**19.0**	**17.7**	**17.4**	**17.9**	**21.0**	**26.3**	**23.9**	**23.1**	**26.6**	**28.4**	**28.6**	**31.4**	**33.7**	**26.2**	**23.4**	**22.7**			**23.0**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	0.9	1.0	1.9	3.7	2.9	2.1	2.2	2.2	1.6	1.2	1.1	2.2	2.6	3.8	3.6	2.8	2.1	1.3	0.6	1.1	0.6	0.7	1.8	4.4	4.4	0.6	2.0
2	4.5	3.9	3.9	3.2	3.0	2.5	4.1	3.9	3.6	4.7	5.2	3.9	2.6	2.2	3.2	4.5	3.5	2.7	1.5	1.0	1.3	2.2	1.5	1.0	5.2	1.0	3.1
3	1.4	1.0	1.2	5.4	3.7	5.2	7.9	8.5	8.0	4.7	6.3	7.0	7.5	3.5	4.5	5.8	5.2	3.6	3.1	2.8	5.5	6.0	3.5	5.1	8.5	1.0	4.9
4	5.5	6.1	4.9	3.2	2.9	3.9	3.5	3.2	2.0	0.9	2.4	3.5	3.3	3.6	3.8	4.0	4.1	3.9	2.9	2.7	2.3	2.1	1.6	2.8	6.1	0.9	3.3
5	3.8	3.1	2.8	1.0	1.5	1.4	3.0	1.9	0.9	1.5	4.2	3.8	3.8	3.6	3.9	3.9	3.7	3.1	2.8	2.6	2.5	1.7	1.1	1.8	4.2	0.9	2.6
6	3.0	2.7	2.0	0.7	2.3	1.6	1.8	1.2	1.7	3.3	2.4	2.2	2.3	2.0	2.1	1.7	2.0	1.5	1.3	2.6	0.8	1.5	1.3	2.6	3.3	0.7	1.9
7	3.5	4.2	3.9	2.9	2.2	1.3	2.5	1.6	1.9	2.9	2.0	1.9	1.7	1.9	1.9	1.6	1.8	1.9	2.4	1.9	2.1	4.2	3.5	2.7	4.2	1.3	2.4
8	2.9	3.2	3.3	4.2	4.0	4.3	4.5	5.5	5.5	6.1	6.6	7.2	6.8	6.2	6.3	6.7	6.1	6.6	6.5	7.0	7.0	7.5	6.9	7.6	7.6	2.9	5.8
9	7.7	8.1	7.7	8.1	8.7	9.0	8.3	8.7	9.2	9.3	9.1	9.0	7.9	7.6	7.8	7.5	6.4	3.5	2.8	4.5	4.9	3.9	2.7	3.4	9.3	2.7	6.9
10	2.8	2.1	1.6	2.0	2.1	2.3	2.8	3.1	2.6	1.8	2.0	2.0	1.7	2.8	2.8	2.3	3.2	3.1	2.9	2.7	3.2	4.8	3.9	3.0	4.8	1.6	2.6
11	3.2	3.5	2.4	3.3	3.4	3.5	4.4	5.2	5.1	4.5	4.4	6.5	6.8	6.1	5.6	5.7	6.1	6.1	5.6	6.9	6.0	6.3	6.9	6.4	6.9	2.4	5.2
12	6.1	5.7	5.5	4.6	5.0	5.0	4.8	4.3	3.8	3.8	2.2	1.1	0.6	0.9	0.7	0.4	1.7	1.7	1.5	1.9	1.5	2.0	1.9	1.2	6.1	0.4	2.8
13	1.4	1.8	1.9	1.6	1.6	0.4	0.5	2.1	1.4	0.3	1.1	1.5	2.9	3.1	2.6	3.0	3.7	3.1	1.8	1.8	1.3	1.2	0.5	0.4	3.7	0.3	1.7
14	0.3	1.1	0.8	2.0	0.5	0.3	0.4	1.0	0.4	1.4	1.5	1.1	2.0	1.7	1.0	0.7	2.1	3.9	2.2	1.7	1.4	1.9	2.8	2.4	3.9	0.3	1.4
15	2.9	2.8	3.5	2.1	1.7	1.2	2.0	1.6	1.8	0.8	1.9	2.6	2.7	2.6	2.1	1.2	1.0	1.1	0.5	1.2	0.7	0.4	0.5	0.4	3.5	0.4	1.6
16	0.6	1.2	1.0	1.0	3.0	3.1	2.0	2.9	2.7	1.8	1.3	1.2	1.1	1.3	1.2	1.0	1.4	1.1	0.6	0.5	1.1	3.5	3.8	3.5	3.8	0.5	1.8
17	3.9	2.8	1.7	1.3	1.8	2.8	3.4	3.2	3.9	4.4	4.6	3.0	3.0	3.9	3.2	3.3	4.9	5.9	5.3	4.7	3.1	1.4	2.3	2.9	5.9	1.3	3.4
18	3.0	0.9	3.5	3.3	3.9	3.9	4.3	4.5	6.5	6.4	5.9	5.7	5.5	5.7	5.6	5.6	4.7	4.5	4.9	4.0	4.5	3.3	3.6	4.5	6.5	0.9	4.5
19	5.0	4.6	4.6	5.6	6.3	6.3	5.9	6.2	6.0	4.8	4.8	4.0	4.7	4.1	3.6	2.2	3.0	4.2	2.4	2.6	2.5	1.0	3.6	3.7	6.3	1.0	4.2
20	2.8	3.5	2.1	1.7	1.5	0.9	1.3	3.9	5.5	4.2	4.3	4.1	3.9	1.9	1.4	2.3	1.6	1.2	0.9	1.2	1.8	1.7	1.1	0.9	5.5	0.9	2.3
21	1.5	2.9	2.3	2.0	1.7	1.8	2.6	2.6	2.4	1.5	1.9	2.5	2.3	3.4	3.3	3.4	3.9	3.8	3.8	2.7	3.2	1.7	1.5	0.9	3.9	0.9	2.5
22	1.2	2.2	1.7	1.3	1.5	2.8	2.4	0.8	0.6	1.5	1.2	1.3	2.0	2.6	2.1	1.2	0.9	2.3	2.6	1.8	1.7	1.8	1.9	2.8	2.8	0.6	1.8
23	2.6	2.2	1.6	1.6	0.8	0.8	4.3	2.1	2.8	2.4	2.0	1.5	1.7	2.7	3.3	3.8	4.6	3.7	4.2	3.1	1.3	2.3	1.4	0.7	4.6	0.7	2.4
24	0.7	0.6	1.2	1.7	1.2	1.9	1.9	1.8	1.0	1.1	3.0	3.4	3.1	3.2	3.7	3.1	3.3	3.1	2.6	1.8	1.2	0.6	1.2	2.1	3.7	0.6	2.0
25	2.6	2.6	2.5	1.1	1.4	3.4	2.3	2.4	3.9	5.2	3.3	3.4	5.0	5.9	4.0	5.0	2.7	5.8	4.2	2.3	1.9	1.2	1.1	1.0	5.9	1.0	3.1
26	1.5	1.3	1.3	1.3	1.1	2.4	2.5	1.9	1.3	1.6	1.9	2.6	1.9	1.7	1.4	0.7	1.3	1.6	0.5	0.4	0.7	0.4	0.9	1.7	2.6	0.4	1.4
27	0.7	1.5	0.6	0.8	0.7	1.3	1.9	1.2	1.8	1.8	3.0	3.5	3.4	3.5	3.3	3.2	3.1	2.5	1.8	1.2	3.6	6.7	6.1	7.3	7.3	0.6	2.7
28	8.2	8.0	6.0	6.4	7.1	9.6	9.1	8.0	7.9	9.2	8.2	6.2	6.0	5.9	6.8	4.7	6.2	6.2	4.7	6.4	5.8	5.0	6.5	5.5	9.6	4.7	6.8
29	6.5	6.3	6.1	6.1	5.8	5.4	4.7	1.8	2.6	1.4	1.7	2.7	2.7	3.3	2.2	2.6	1.5	1.0	1.8	1.6	1.9	2.0	2.0	2.2	6.5	1.0	3.2
30	2.4	3.4	2.5	2.2	3.0	4.0	4.0	4.3	4.4	2.5	1.1	2.2	3.0	2.7	3.3	3.3	2.9	2.7	3.1	1.9	4.6	5.0	4.4	4.1	5.0	1.1	3.2
Max.	**8.2**	**8.1**	**7.7**	**8.1**	**8.7**	**9.6**	**9.1**	**8.7**	**9.2**	**9.3**	**9.1**	**9.0**	**7.9**	**7.6**	**7.8**	**7.5**	**6.4**	**6.6**	**6.5**	**7.0**	**7.0**	**7.5**	**6.9**	**7.6**	**9.6**		
Min.	**0.3**	**0.6**	**0.6**	**0.7**	**0.5**	**0.3**	**0.4**	**0.8**	**0.4**	**0.3**	**1.1**	**1.1**	**0.6**	**0.9**	**0.7**	**0.4**	**0.9**	**1.0**	**0.5**	**0.4**	**0.6**	**0.4**	**0.5**	**0.4**		**0.3**	
Avg.	**3.1**	**3.1**	**2.9**	**2.8**	**2.9**	**3.1**	**3.5**	**3.4**	**3.4**	**3.2**	**3.4**	**3.4**	**3.5**	**3.4**	**3.3**	**3.2**	**3.3**	**3.2**	**2.7**	**2.6**	**2.7**	**2.8**	**2.7**	**3.0**			**3.1**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Speed (RM Young) (m/s)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	3.2	3.0	3.6	4.0	2.7	2.3	3.0	2.8	1.6	1.3	2.2	2.5	2.9	3.2	3.8	4.3	4.5	4.1	3.2	3.7	4.4	2.5	2.7	5.4	5.4	1.3	3.2
2	6.2	7.4	5.5	4.1	4.9	4.7	3.8	3.9	5.0	4.3	1.3	1.2	1.9	1.5	2.0	3.5	5.4	5.6	4.6	2.3	1.7	1.5	2.1	2.7	7.4	1.2	3.6
3	2.3	2.6	2.8	1.8	1.2	2.4	2.5	1.8	2.4	1.7	1.9	2.0	3.0	3.3	3.6	4.0	2.5	1.2	1.4	2.0	2.4	1.7	1.5	0.9	4.0	0.9	2.2
4	1.3	1.3	1.5	1.1	1.1	1.7	1.5	0.9	2.0	2.9	2.9	3.1	3.7	3.4	3.6	3.8	3.1	3.0	2.5	2.7	1.4	1.6	1.2	0.7	3.8	0.7	2.2
5	1.3	1.6	2.7	2.4	1.3	1.7	2.5	1.9	1.3	2.5	2.9	2.6	1.9	2.2	2.2	2.4	2.4	2.2	2.5	2.1	1.4	1.3	1.0	1.5	2.9	1.0	2.0
6	1.1	0.2	0.4	0.4	1.4	0.5	1.4	1.5	1.6	1.8	2.2	1.8	2.2	2.5	2.8	2.8	2.8	2.9	2.2	1.6	1.6	1.0	1.1	1.9	2.9	0.2	1.6
7	1.0	1.9	1.0	1.3	1.3	0.8	1.2	1.3	1.1	1.8	2.0	2.5	1.9	2.4	3.6	2.4	2.0	1.6	1.7	1.5	1.5	0.9	2.8	2.8	3.6	0.8	1.8
8	2.9	2.4	1.0	0.9	0.6	2.0	1.9	3.1	3.2	5.6	5.6	5.2	5.3	5.6	4.8	3.3	1.9	2.1	4.0	4.8	4.5	3.7	2.0	2.3	5.6	0.6	3.3
9	2.4	2.7	2.4	2.7	2.2	2.8	2.7	2.7	1.0	1.3	2.0	2.8	3.1	3.3	2.9	2.4	1.8	1.2	1.8	1.4	2.5	1.4	2.3	2.1	3.3	1.0	2.2
10	2.1	1.7	2.3	2.5	2.1	2.0	2.0	2.0	2.2	1.2	1.1	1.6	1.6	2.6	2.5	2.3	2.4	1.4	2.6	1.0	1.5	2.5	1.3	1.2	2.6	1.0	1.9
11	0.5	1.0	1.4	1.2	0.9	0.7	1.3	1.7	1.6	2.4	3.8	3.9	2.8	2.1	4.3	3.3	2.8	1.7	0.8	3.0	4.2	1.5	0.9	0.8	4.3	0.5	2.0
12	0.6	1.5	1.2	1.4	1.8	2.1	2.7	3.0	2.6	2.0	0.9	2.1	2.4	2.5	2.1	1.3	1.2	2.7	5.1	5.8	3.7	4.7	3.6	3.5	5.8	0.6	2.5
13	2.0	4.7	4.1	1.8	3.8	6.8	5.6	5.5	6.9	6.6	7.9	8.8	9.0	10.0	9.9	10.4	9.9	10.2	10.9	10.9	11.2	9.4	8.4	7.8	11.2	1.8	7.6
14	8.2	8.2	8.7	8.0	8.4	6.8	5.8	5.5	6.3	7.6	7.9	8.0	6.0	6.3	6.1	6.5	4.5	3.5	5.0	2.6	6.7	6.0	5.6	4.0	8.7	2.6	6.3
15	4.1	3.1	6.5	6.4	6.8	7.3	6.6	6.0	3.9	3.4	3.1	3.0	2.8	4.5	5.8	2.7	1.9	1.6	1.7	1.6	0.9	0.6	1.1	1.3	7.3	0.6	3.6
16	1.8	1.5	2.7	1.7	1.8	2.8	3.5	3.3	1.9	1.2	1.4	1.8	1.6	1.8	1.9	1.4	1.8	1.7	1.6	1.5	2.3	1.6	2.2	1.9	3.5	1.2	1.9
17	2.5	2.7	4.1	3.1	2.4	2.6	2.2	2.1	1.8	2.0	1.6	1.6	2.5	5.1	5.2	4.4	3.4	3.5	4.5	4.7	3.6	3.6	4.6	4.6	5.2	1.6	3.3
18	4.9	4.9	4.4	3.7	3.9	3.1	3.3	3.5	1.8	2.5	1.5	2.0	2.0	1.6	1.0	3.0	1.8	1.5	1.8	1.8	2.8	1.4	1.0	1.9	4.9	1.0	2.6
19	1.4	1.2	1.4	3.6	5.9	5.1	5.0	5.9	5.9	7.3	7.1	6.7	5.2	5.6	6.3	6.1	5.8	4.1	5.1	4.1	2.7	1.2	2.4	3.3	7.3	1.2	4.5
20	2.5	1.6	1.9	2.2	3.9	5.3	4.8	5.1	5.4	5.7	5.6	5.2	5.6	5.4	5.5	4.2	4.1	5.1	4.8	5.0	3.5	2.9	2.0	3.9	5.7	1.6	4.2
21	6.2	4.0	3.2	1.2	0.7	2.9	3.9	3.6	5.0	5.1	5.5	5.8	5.5	5.4	4.9	3.9	2.5	1.9	1.4	2.1	3.1	3.5	2.6	1.5	6.2	0.7	3.6
22	1.8	2.2	1.5	1.1	1.9	4.1	4.9	4.9	4.3	5.6	5.0	3.9	4.1	3.3	2.3	2.2	1.8	1.5	2.6	3.6	3.6	3.7	4.5	3.5	5.6	1.1	3.2
23	3.7	3.6	4.0	2.1	2.8	3.3	4.3	4.2	5.0	5.3	7.3	8.2	8.1	8.5	7.8	6.7	4.7	2.8	6.8	7.8	7.8	6.5	6.3	6.5	8.5	2.1	5.6
24	5.6	6.5	5.8	6.4	6.3	7.0	6.6	5.5	4.3	4.6	5.0	4.8	5.2	3.1	1.7	1.2	1.1	1.3	2.0	1.6	1.6	1.0	1.6	3.6	7.0	1.0	3.9
25	3.5	3.6	4.7	4.8	3.8	2.2	1.7	1.7	1.7	1.3	0.6	0.5	0.7	2.8	4.0	3.6	3.0	1.2	0.3	0.5	0.7	1.1	0.9	1.1	4.8	0.3	2.1
26	2.4	2.4	1.8	1.1	1.1	1.5	1.6	3.4	3.9	3.8	4.3	5.7	5.6	4.9	5.6	6.5	6.7	7.4	8.3	8.5	8.5	8.3	8.2	8.2	8.5	1.1	5.0
27	7.7	7.9	8.0	7.3	5.9	4.2	4.7	5.6	4.0	2.3	1.6	1.7	1.9	1.5	2.6	2.3	2.5	2.2	1.7	2.3	3.0	0.9	1.5	4.1	8.0	0.9	3.6
28	4.8	2.5	3.2	5.9	3.2	8.1	8.8	7.7	4.8	3.7	2.2	3.4	4.9	5.7	3.9	3.6	3.1	2.8	2.3	1.7	2.4	4.5	7.6	5.5	8.8	1.7	4.4
29	4.5	4.6	6.3	4.4	9.2	9.0	8.9	11.6	15.2	10.1	11.7	8.1	5.5	8.3	6.0	5.5	5.2	5.5	7.1	5.5	4.9	9.2	9.5	9.6	15.2	4.4	7.7
30	7.2	7.7	3.9	9.1	5.3	6.6	8.3	7.8	7.3	6.8	6.1	5.2	4.7	4.3	6.1	5.7	3.2	2.7	3.3	5.5	2.2	1.5	2.2	3.5	9.1	1.5	5.3
31	5.9	6.7	6.4	5.8	6.1	4.9	4.4	5.6	5.4	5.3	3.4	2.9	3.7	3.1	3.8	3.8	5.3	4.1	4.4	4.8	5.0	5.5	7.2	6.8	7.2	2.9	5.0
Max.	**8.2**	**8.2**	**8.7**	**9.1**	**9.2**	**9.0**	**8.9**	**11.6**	**15.2**	**10.1**	**11.7**	**8.8**	**9.0**	**10.0**	**9.9**	**10.4**	**9.9**	**10.2**	**10.9**	**10.9**	**11.2**	**9.4**	**9.5**	**9.6**	**15.2**		
Min.	**0.5**	**0.2**	**0.4**	**0.4**	**0.6**	**0.5**	**1.2**	**0.9**	**1.0**	**1.2**	**0.6**	**0.5**	**0.7**	**1.5**	**1.0**	**1.2**	**1.1**	**1.2**	**0.3**	**0.5**	**0.7**	**0.6**	**0.9**	**0.7**		**0.2**	
Avg.	**3.4**	**3.4**	**3.5**	**3.3**	**3.4**	**3.8**	**3.9**	**4.0**	**3.9**	**3.8**	**3.8**	**3.8**	**3.8**	**4.1**	**4.2**	**3.9**	**3.4**	**3.0**	**3.5**	**3.5**	**3.5**	**3.1**	**3.3**	**3.5**			**3.6**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	204.8	220.2	21.6	13.4	350.1	7.3	3.0	32.7	157.6	130.1	150.8	126.7	38.8	43.7	45.1	32.4	36.0	32.8	29.1	278.0	211.5	160.7	324.9	11.2
2	323.4	313.7	319.7	341.2	24.9	22.0	28.8	5.5	14.2	13.3	18.2	10.7	18.6	22.5	27.4	19.7	22.5	24.2	24.8	25.4	26.1	23.3	24.6	24.7
3	28.4	21.9	18.0	18.4	17.2	6.0	2.3	3.5	221.7	222.4	171.2	172.2	207.3	203.0	208.1	73.7	206.2	75.9	54.2	357.4	19.3	357.5	4.9	23.2
4	24.7	355.6	5.9	15.5	17.8	16.7	19.0	31.1	37.7	41.1	49.4	182.8	203.9	205.3	210.2	204.4	215.0	198.9	55.9	46.5	14.9	348.3	310.3	306.6
5	301.9	303.1	300.6	310.7	315.4	314.5	315.0	322.0	319.7	323.9	325.5	330.7	81.0	354.5	119.5	155.9	303.2	320.6	319.7	322.2	327.0	340.6	317.6	320.4
6	318.6	317.5	317.5	317.6	318.5	320.1	319.3	320.1	320.3	325.7	101.9	130.4	124.8	75.9	178.2	97.2	192.3	175.2	18.6	71.3	6.3	15.0	1.5	172.5
7	96.5	352.9	351.6	18.5	42.1	194.6	305.8	320.2	323.9	314.6	324.2	304.8	322.1	323.0	321.3	319.1	314.7	322.2	320.4	316.9	312.0	4.7	10.1	8.1
8	9.3	10.0	12.5	3.9	18.4	18.3	22.4	37.0	46.9	153.4	200.8	207.3	206.6	208.6	206.0	210.1	205.4	213.4	220.2	218.4	225.7	23.5	24.5	31.5
9	27.3	30.4	32.8	26.8	230.3	237.1	38.0	44.5	131.1	207.0	193.4	212.8	212.3	207.0	212.0	205.4	210.7	211.5	226.4	229.9	232.0	286.4	14.1	342.9
10	2.4	31.6	227.5	223.1	253.4	21.3	31.9	39.1	175.8	203.3	190.0	181.7	196.6	202.9	202.1	211.3	206.0	194.1	197.8	222.4	225.4	219.1	205.0	224.5
11	223.3	234.4	289.1	51.4	75.0	192.9	319.0	208.8	204.7	200.4	201.7	194.8	201.1	192.9	191.8	199.8	210.5	219.8	215.4	213.8	25.0	29.9	33.0	32.8
12	24.1	14.0	38.5	37.6	30.4	32.4	31.9	86.1	155.0	205.9	205.2	204.5	202.6	202.4	207.1	205.4	205.6	215.7	222.4	226.2	217.2	206.3	189.5	191.4
13	220.7	202.0	256.6	255.3	161.5	139.4	219.0	248.2	170.8	173.8	172.7	180.8	195.8	192.0	191.0	191.2	203.8	210.2	204.3	207.8	208.2	237.9	234.4	229.7
14	234.0	227.9	185.9	232.3	218.5	219.4	227.4	231.5	228.1	221.1	188.5	194.9	183.2	193.9	199.7	208.6	210.9	211.5	218.3	219.5	233.5	248.3	249.8	220.0
15	190.7	216.7	235.1	238.8	273.9	271.3	46.8	29.6	6.1	44.0	301.6	288.1	282.3	234.4	194.2	199.6	207.6	225.5	236.2	272.6	272.3	243.0	241.4	220.5
16	12.8	26.4	25.7	27.3	11.9	25.4	23.7	28.5	26.5	23.7	21.9	100.9	12.4	4.0	329.3	322.6	322.3	320.3	14.5	15.6	0.9	359.6	7.6	7.8
17	8.8	1.4	12.7	17.2	12.4	5.3	358.1	5.7	2.0	5.1	7.3	5.9	13.3	10.5	17.7	20.3	19.7	24.9	22.2	20.9	22.3	18.0	13.8	16.3
18	13.8	8.0	9.9	13.7	14.7	24.5	19.8	22.5	30.2	116.9	176.1	231.9	214.5	209.9	205.1	210.6	207.3	211.1	206.0	174.9	133.6	7.6	23.1	319.7
19	354.1	28.2	335.1	8.7	24.8	27.1	29.0	41.1	47.2	167.9	184.3	201.9	197.9	205.0	207.1	243.5	308.9	302.2	325.7	340.0	294.8	305.9	330.6	38.5
20	17.8	349.4	311.7	315.4	351.0	89.1	51.9	63.2	350.2	3.8	27.8	351.0	324.0	137.1	162.6	155.0	177.0	149.2	102.8	192.3	206.5	207.9	206.1	204.1
21	212.3	197.7	199.0	196.7	207.3	198.4	198.7	201.8	206.5	169.9	83.0	91.2	184.1	183.0	152.9	135.0	105.9	38.9	245.2	236.5	332.2	259.2	278.8	20.9
22	2.9	357.5	249.2	351.7	21.4	26.8	11.4	16.8	16.4	9.9	0.5	32.7	29.4	12.2	330.6	358.1	343.5	345.1	0.6	349.7	335.6	327.3	326.4	349.1
23	349.2	17.4	18.9	20.7	359.6	344.9	342.2	23.5	8.4	32.4	11.8	310.3	46.6	100.2	211.0	210.7	206.0	13.6	301.9	347.8	13.8	10.6	330.3	31.4
24	17.6	16.4	19.9	24.9	29.4	31.3	26.4	30.9	46.8	61.5	170.6	206.7	208.9	195.8	183.6	184.2	159.4	188.4	190.6	196.8	169.4	161.1	167.2	111.3
25	132.3	145.7	173.5	58.2	75.4	38.4	281.7	329.7	39.1	317.8	63.4	88.5	202.0	216.5	209.6	212.5	212.2	219.1	241.7	246.6	266.2	270.7	307.8	21.4
26	25.6	27.2	17.1	22.3	24.1	24.2	23.0	38.3	46.4	54.0	72.9	96.8	98.6	74.5	42.8	54.0	50.4	9.1	316.7	183.8	190.4	288.3	292.6	305.0
27	317.4	316.4	317.0	316.5	356.6	335.8	327.7	43.8	48.1	37.0	50.3	12.5	41.1	156.6	122.5	127.4	137.9	108.5	37.0	27.1	316.7	316.6	317.9	310.4
28	333.2	2.6	37.2	134.3	356.4	7.9	3.6	355.4	213.8	22.4	39.2	73.6	202.8	188.4	186.4	201.6	203.0	188.5	177.0	195.1	198.7	188.6	192.6	192.4
29	197.2	205.9	208.0	192.9	201.3	198.2	207.6	206.4	190.4	193.9	201.2	195.3	194.0	203.8	200.6	194.0	187.1	173.7	194.6	197.6	200.2	179.3	192.9	171.7
30	15.5	320.9	333.7	346.7	311.3	307.4	313.8	335.2	14.2	11.2	33.3	67.7	315.1	107.3	163.5	147.3	180.5	193.0	175.7	302.2	312.8	316.7	320.7	311.1
31	309.4	312.0	313.4	310.6	309.2	308.3	319.7	294.4	316.0	309.4	348.1	23.0	76.2	98.7	169.0	167.4	143.8	108.6	127.2	339.1	303.2	315.8	314.4	315.5

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	315.1	312.7	335.3	22.9	18.3	9.2	45.4	52.9	61.6	65.0	66.9	79.9	168.8	209.0	204.0	195.0	212.6	215.7	206.5	169.6	66.0	322.5	317.5	329.4
2	17.9	16.9	16.4	17.5	24.0	17.0	25.0	36.8	40.6	45.7	93.0	203.0	108.9	54.1	110.9	129.0	42.5	27.3	356.7	357.9	1.3	10.0	353.6	3.9
3	345.5	101.8	327.7	323.4	247.3	329.4	345.1	0.7	4.5	2.4	4.5	1.1	4.4	4.9	353.7	13.5	11.5	12.1	11.6	11.8	12.0	13.9	9.6	10.0
4	13.4	9.8	5.1	358.0	0.6	1.7	5.8	8.9	10.6	17.9	25.6	29.5	27.3	27.2	29.1	31.1	18.1	294.0	217.5	217.3	214.4	341.4	249.5	232.2
5	230.7	216.0	349.8	0.5	26.8	20.7	17.0	32.1	13.5	13.1	7.1	358.3	336.6	124.4	50.0	335.0	344.6	72.4	79.0	14.9	15.6	27.7	24.4	22.7
6	30.0	29.2	28.8	30.6	24.2	232.3	22.4	0.9	8.5	195.1	202.0	204.2	205.7	200.0	197.6	195.3	229.3	214.7	177.9	199.1	195.2	201.0	198.9	238.3
7	205.7	208.7	196.6	204.0	195.2	202.7	205.8	210.5	205.0	200.6	193.8	160.0	216.2	206.1	155.1	197.4	108.9	80.4	68.3	91.5	58.3	88.0	144.0	169.6
8	146.0	288.5	301.2	307.8	312.0	308.1	316.5	14.3	54.7	43.0	45.1	54.9	205.3	201.2	190.5	239.3	248.9	214.1	249.8	304.9	125.0	340.4	16.5	24.8
9	12.2	12.1	4.3	15.8	16.2	20.5	2.9	353.5	1.0	330.6	314.9	319.8	297.3	223.2	134.6	5.0	5.6	33.9	31.1	15.6	342.4	25.1	108.9	96.1
10	57.6	94.1	90.7	179.0	200.1	198.4	199.4	202.3	186.3	162.6	127.2	84.9	74.4	35.6	179.1	130.3	279.0	330.6	301.3	16.1	247.6	285.3	17.0	23.7
11	327.4	35.6	22.4	24.1	38.4	33.7	30.5	29.3	13.6	19.2	15.2	12.6	6.2	16.3	21.9	25.1	22.2	4.5	312.1	321.5	338.7	57.5	337.4	112.2
12	80.1	349.3	190.4	182.7	204.1	325.4	83.7	131.2	152.3	136.1	198.8	196.1	201.2	199.5	211.1	214.6	203.1	193.2	183.8	195.8	204.4	205.2	211.3	214.1
13	208.8	206.2	201.9	159.8	97.5	46.4	62.2	175.4	173.2	70.0	60.6	165.0	161.3	127.3	310.1	314.1	308.4	315.0	323.2	317.2	321.7	45.3	308.5	307.8
14	32.4	46.1	21.5	312.0	328.7	350.4	2.9	20.1	39.9	41.0	56.2	206.2	197.6	165.3	220.6	133.2	93.4	28.3	352.3	351.8	354.7	340.2	343.1	336.4
15	358.9	349.3	14.1	355.9	8.9	280.5	201.7	216.1	96.2	182.5	189.7	180.0	176.4	336.3	321.2	287.1	300.2	41.1	90.0	12.7	9.7	16.2	24.4	16.1
16	18.4	29.3	16.8	305.9	300.7	316.1	308.4	206.4	287.4	296.9	305.5	292.0	332.3	29.7	71.4	130.8	168.5	163.4	174.3	294.4	74.4	312.8	211.7	125.9
17	338.4	316.0	326.5	9.8	13.9	12.6	24.3	24.5	32.7	28.9	30.3	32.2	29.4	36.6	148.7	206.1	160.9	24.6	7.2	317.7	11.3	6.7	323.9	322.5
18	313.7	307.0	313.4	312.6	301.7	306.0	310.7	293.4	107.3	123.1	190.3	164.8	133.3	137.7	71.5	62.4	122.7	127.9	165.8	169.6	174.2	178.3	163.2	182.2
19	149.7	163.8	146.8	143.2	79.8	322.8	309.9	335.0	31.2	10.2	313.1	92.8	118.0	85.4	92.4	119.7	169.2	132.8	17.8	288.3	290.8	301.8	312.5	312.8
20	314.2	313.2	312.3	315.1	315.4	312.2	325.4	302.4	343.7	68.8	148.9	163.2	130.8	154.3	174.0	130.6	148.1	132.7	148.4	115.3	95.1	126.1	185.2	184.6
21	64.6	17.1	303.8	293.1	309.3	331.0	332.5	0.8	15.9	11.3	37.8	44.7	48.4	218.0	146.2	34.7	17.9	24.2	21.8	17.5	352.7	12.3	28.4	28.8
22	30.6	33.0	33.0	31.9	30.9	19.5	22.2	10.8	348.3	340.7	330.6	356.6	31.0	24.8	355.7	10.5	355.3	11.6	23.8	31.2	20.9	24.2	34.9	201.9
23	44.3	57.3	34.0	352.7	286.0	305.8	357.9	260.2	9.6	310.4	5.6	23.2	2.9	27.8	333.1	48.7	84.0	93.3	161.8	190.3	215.1	199.1	194.7	201.5
24	202.7	200.6	195.3	202.5	193.8	203.8	218.6	213.9	207.3	195.5	208.3	219.0	218.0	197.9	199.3	213.4	200.9	202.9	209.4	213.2	219.5	226.8	207.2	202.5
25	211.6	202.0	207.8	206.7	203.3	201.0	207.1	206.8	207.7	205.2	199.7	205.3	211.3	204.8	204.2	208.5	198.3	190.6	196.0	191.8	281.5	17.8	205.0	353.4
26	328.9	8.3	15.6	2.0	355.9	32.8	35.0	36.9	11.0	354.1	5.9	36.5	112.4	87.3	25.4	22.7	4.3	1.6	11.3	14.6	11.0	10.5	13.4	22.9
27	24.0	21.9	22.4	22.9	23.5	24.1	26.0	22.0	22.7	25.3	27.1	29.6	29.4	26.8	24.7	22.5	25.6	28.0	28.7	23.3	19.3	26.8	18.2	18.8
28	28.1	30.1	28.8	27.8	29.1	28.9	327.8	21.6	181.0	26.3	6.6	352.5	54.2	46.7	207.2	211.8	215.7	246.2	2.9	6.3	16.2	13.3	6.6	325.4
29	315.8	38.8	76.6	79.6	55.2	332.7	289.8	304.0	307.1	336.7	331.5	295.0	152.0	186.7	173.8	178.1	180.3	183.2	185.5	196.9	188.6	196.3	193.8	191.4
30	186.5	183.3	191.9	186.8	184.3	188.9	177.9	163.8	146.8	114.6	17.2	321.2	305.8	306.9	284.5	310.6	5.3	303.4	315.8	314.4	314.0	313.0	318.4	319.6

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	315.9	319.8	313.7	313.9	315.0	308.6	300.7	298.1	293.7	295.5	295.9	308.0	321.9	64.2	41.0	80.5	113.0	61.4	31.1	339.6	46.2	72.0	90.2	100.0
2	54.3	59.9	59.4	54.9	24.5	308.6	295.2	305.1	289.4	292.0	64.4	301.9	348.2	152.2	163.5	153.7	165.2	77.6	67.1	7.9	304.8	311.5	6.9	10.4
3	7.9	3.1	14.1	19.4	24.9	36.9	25.9	356.1	29.3	31.2	17.8	17.4	21.4	28.3	26.7	35.8	25.1	22.6	7.3	12.5	359.6	358.7	22.2	12.1
4	17.6	14.7	13.6	13.6	19.4	17.3	16.2	24.0	21.1	19.5	22.5	25.9	28.9	28.2	26.7	28.4	26.1	24.4	26.8	29.6	33.7	33.1	33.1	33.5
5	33.3	23.2	19.4	22.6	23.3	24.4	20.9	22.8	21.9	19.5	14.8	18.7	15.6	2.7	237.9	8.6	12.2	14.8	22.4	24.9	27.2	29.0	32.4	33.2
6	24.4	29.1	29.1	15.8	17.2	16.6	11.0	19.6	30.2	42.9	52.0	60.3	56.6	110.2	73.5	286.0	291.0	7.4	356.0	0.1	4.9	25.0	30.0	37.5
7	34.1	33.1	17.4	6.6	9.1	354.6	1.3	350.8	343.1	353.0	6.2	12.8	5.8	7.7	359.9	357.2	11.1	12.9	6.9	354.5	1.4	358.2	10.9	15.1
8	22.7	35.2	21.6	355.1	358.9	24.7	36.8	24.9	44.7	43.9	22.0	25.2	36.2	37.2	43.2	27.1	20.4	27.5	22.0	15.9	20.2	21.4	19.8	23.2
9	18.7	23.5	11.1	25.5	15.1	27.5	21.1	20.4	12.4	21.6	10.0	20.1	52.4	10.8	314.5	317.0	318.9	318.9	312.7	310.4	310.5	316.5	306.1	310.5
10	317.7	317.6	318.3	317.5	306.6	310.2	310.7	315.9	327.4	48.0	62.3	50.5	41.9	47.6	43.3	49.5	92.4	11.4	356.2	4.4	2.2	11.2	25.9	6.1
11	273.0	19.1	359.1	7.6	2.9	9.7	0.8	4.0	29.7	64.5	42.0	47.3	320.6	320.0	47.8	119.1	87.4	329.0	41.2	11.7	88.5	110.7	109.0	77.9
12	73.1	122.1	91.6	88.5	92.4	81.9	105.8	94.9	150.6	159.1	46.8	148.5	143.9	96.7	155.3	172.3	151.0	150.9	129.6	83.3	50.3	314.4	312.9	317.7
13	316.1	316.4	323.8	355.1	18.5	15.7	35.0	13.5	23.5	40.4	43.0	44.4	12.9	84.4	115.7	34.5	23.7	305.5	358.2	125.2	275.2	294.7	40.5	356.0
14	356.0	9.3	14.7	46.3	47.5	32.8	24.4	21.1	31.9	36.6	38.4	36.8	38.3	36.5	22.3	17.4	132.4	53.0	353.0	2.8	277.3	351.2	9.0	12.2
15	0.8	3.0	3.7	5.1	12.7	13.7	16.4	16.3	19.3	20.0	30.1	31.9	39.8	40.4	98.2	210.9	216.3	224.2	219.9	15.8	14.6	35.3	34.2	32.5
16	3.6	15.1	358.7	336.8	315.9	310.8	5.4	107.6	17.5	187.4	104.8	193.5	168.3	197.3	185.7	67.5	157.2	58.7	151.1	228.6	216.9	345.2	21.9	16.4
17	28.4	29.8	359.1	16.8	25.7	28.5	178.3	172.5	176.6	205.5	201.6	197.1	198.7	200.7	172.8	192.8	213.4	211.2	206.2	212.6	222.1	225.7	223.1	223.9
18	217.0	221.4	219.1	214.2	207.3	197.2	197.8	198.3	200.9	197.1	197.8	126.9	79.5	84.0	102.7	162.3	206.3	216.6	204.2	203.4	27.4	25.8	7.3	21.5
19	27.2	28.2	22.5	20.8	24.7	18.2	6.1	193.7	193.7	191.1	178.8	177.0	171.7	170.2	171.4	127.2	87.3	64.9	325.9	251.9	314.1	18.4	15.6	19.7
20	9.3	14.9	25.6	8.4	10.6	0.7	6.5	13.8	17.2	20.7	22.9	23.2	27.4	27.5	27.7	21.6	21.8	23.0	24.4	24.2	24.5	24.8	24.4	26.4
21	39.5	20.5	17.4	17.8	19.2	15.8	354.2	336.8	312.5	320.7	335.2	0.7	33.1	38.9	31.3	25.5	357.9	47.2	226.5	203.6	196.0	178.4	99.5	78.2
22	140.3	197.3	317.1	114.1	119.0	318.9	315.1	312.9	315.3	301.2	298.9	30.7	101.5	168.6	198.1	162.9	167.3	115.0	113.5	172.6	180.9	164.4	182.0	168.3
23	192.6	175.1	174.6	183.8	173.6	124.1	189.2	14.5	326.8	56.8	301.8	341.3	321.2	329.3	314.2	307.6	32.8	28.3	351.0	356.0	33.1	16.7	12.7	13.9
24	19.9	16.2	33.1	352.9	25.6	10.3	2.8	24.9	40.2	26.8	46.4	48.3	53.4	28.3	318.3	319.6	318.6	308.3	323.0	316.6	311.7	310.4	315.3	312.7
25	310.7	312.9	312.1	322.7	26.2	324.6	319.2	320.7	319.9	46.3	60.1	61.0	48.4	42.5	43.7	46.0	354.4	351.6	45.8	47.8	34.9	25.4	42.7	23.4
26	10.2	31.9	20.8	17.0	12.6	3.0	24.9	15.0	25.2	51.0	54.7	53.8	40.3	48.7	42.7	51.7	38.8	7.8	316.7	4.6	15.9	18.1	28.6	11.0
27	18.4	9.0	6.1	10.3	1.0	11.9	12.0	19.0	22.6	35.0	39.7	39.2	41.8	42.4	169.2	205.5	334.1	12.9	13.0	23.7	26.6	24.4	22.8	24.6
28	18.4	4.0	23.1	14.6	21.3	20.6	23.5	22.5	18.3	30.8	35.7	36.1	51.9	42.9	328.5	326.6	15.6	357.4	23.3	43.6	352.6	334.7	26.3	5.0
29	18.4	16.4	15.5	20.3	29.0	21.9	23.2	22.3	27.3	28.3	28.1	28.1	34.0	26.0	25.3	32.1	26.2	29.7	11.5	10.8	9.1	14.5	17.3	23.1
30	22.7	26.0	22.1	26.9	19.2	16.0	22.0	11.6	1.8	43.9	31.2	38.7	203.3	55.7	0.1	316.5	315.3	318.4	318.4	320.4	318.0	319.0	323.4	328.7
31	325.9	320.8	315.2	316.8	318.4	318.2	319.0	318.4	318.4	348.9	354.9	320.7	319.8	323.2	314.7	311.9	314.9	315.4	319.5	320.8	341.4	354.5	37.5	21.1

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	16.6	51.4	50.1	11.6	330.4	9.8	6.2	0.6	22.3	10.0	35.0	60.2	48.7	50.0	66.5	13.7	320.8	315.0	323.3	317.3	312.7	315.7	309.5	313.7
2	318.8	318.9	347.1	56.9	243.4	25.4	35.1	29.6	357.3	34.5	27.3	30.1	39.0	54.8	60.6	60.0	72.7	87.4	69.9	69.6	65.1	46.9	29.4	48.3
3	69.2	70.0	83.8	18.8	105.4	35.0	320.2	291.4	309.3	306.1	298.9	337.3	309.9	303.9	316.5	314.2	309.3	308.5	317.7	314.3	319.6	331.6	314.0	315.7
4	313.7	319.7	313.1	310.2	313.5	305.6	311.6	356.5	316.8	317.2	315.0	315.7	312.8	311.7	318.7	303.8	323.1	321.5	318.1	316.2	311.8	317.0	1.0	51.3
5	9.9	12.1	7.7	316.8	310.3	313.1	312.6	330.3	341.1	321.3	328.9	322.4	340.1	93.7	155.3	144.8	97.9	235.3	180.1	167.7	178.1	159.4	147.0	117.6
6	51.7	41.6	352.8	24.8	309.4	1.3	10.8	262.2	350.3	79.3	56.9	73.1	205.2	180.8	76.4	73.6	77.5	92.1	44.3	48.2	38.2	69.7	120.6	198.3
7	218.9	200.5	58.8	167.1	294.8	311.2	313.9	3.0	52.3	13.4	26.7	28.3	32.1	30.1	27.5	21.6	26.7	10.5	7.1	10.1	9.1	11.5	13.6	21.4
8	25.8	29.6	30.4	35.6	27.9	22.0	21.9	18.4	11.6	12.7	6.2	11.0	27.0	26.1	26.2	30.0	6.5	349.0	4.7	1.3	353.9	3.7	7.4	8.2
9	6.4	11.4	11.5	14.4	18.5	17.1	18.9	14.4	8.5	10.8	14.5	49.4	61.5	66.3	65.6	63.4	78.8	51.7	38.1	48.0	37.9	36.7	340.1	325.6
10	46.3	13.0	341.8	314.4	312.9	313.4	313.0	320.9	315.3	319.2	320.5	320.6	319.9	320.6	317.8	319.9	319.9	320.2	318.4	318.6	317.3	331.5	65.4	22.6
11	61.3	66.2	63.0	46.5	316.8	320.2	40.1	18.4	29.8	17.5	52.7	57.9	50.3	52.8	51.4	41.1	49.2	30.5	49.1	28.4	4.7	343.4	50.9	33.5
12	23.6	11.8	24.6	24.1	10.0	295.6	275.3	19.4	34.0	36.4	47.0	37.5	35.6	39.1	43.7	40.4	25.2	20.9	14.9	22.4	22.4	14.2	17.3	25.2
13	9.7	24.6	38.3	48.8	58.8	52.6	53.7	57.3	46.5	31.5	52.8	36.1	35.8	33.5	34.2	32.3	36.6	26.8	35.1	29.6	14.7	16.4	27.3	16.9
14	29.2	27.0	25.1	18.7	23.7	23.3	22.3	25.1	18.4	23.1	17.3	9.7	30.2	42.6	36.9	35.3	34.5	35.6	35.6	36.2	36.8	38.3	38.1	35.4
15	34.3	32.2	22.6	22.3	332.1	305.0	239.1	277.2	2.5	20.0	121.8	35.4	49.1	44.5	38.1	323.7	126.0	36.8	324.1	325.4	20.0	11.4	17.0	36.2
16	34.7	12.7	18.7	13.5	13.6	7.5	8.8	1.5	2.1	14.0	13.2	12.0	20.3	25.4	15.6	12.5	25.4	22.6	23.2	22.2	23.4	25.7	21.2	29.4
17	32.6	33.3	31.1	31.6	33.6	33.1	32.4	31.9	30.6	36.4	81.3	179.6	20.1	16.8	318.2	306.9	313.2	318.9	317.3	9.2	13.7	23.9	36.8	20.2
18	10.9	16.0	2.9	345.0	9.3	15.9	7.9	14.9	16.2	9.5	13.0	10.9	12.7	16.3	18.5	18.9	24.4	26.3	339.7	318.9	301.3	308.1	343.7	41.2
19	68.7	108.8	169.4	181.5	344.2	49.2	162.5	198.5	205.3	206.1	197.3	173.0	176.9	198.2	192.0	192.1	194.8	189.3	195.8	198.3	193.8	252.3	323.9	3.3
20	10.7	23.7	24.1	25.7	24.6	28.9	27.9	27.3	26.1	26.0	19.6	20.6	27.0	21.4	26.4	34.2	33.3	28.4	32.7	26.3	28.2	27.3	9.2	13.4
21	17.1	12.7	22.3	18.3	340.8	321.0	318.8	318.7	315.0	315.4	316.3	319.1	314.3	311.0	351.2	329.3	316.2	326.6	55.9	55.8	57.9	47.1	80.0	176.9
22	177.9	175.9	161.6	184.5	176.1	97.4	209.5	176.6	227.0	314.1	317.7	349.3	48.4	59.1	56.5	42.8	34.8	45.2	41.8	327.6	317.2	314.3	317.4	315.7
23	314.6	313.8	314.3	316.0	313.3	317.1	315.3	310.9	305.5	312.0	315.5	320.9	291.2	302.9	316.6	317.0	325.2	339.5	301.3	312.1	316.3	315.4	317.3	346.9
24	308.6	317.9	330.9	306.9	315.6	317.7	314.4	317.0	312.5	310.2	139.2	159.9	134.6	161.8	177.2	172.7	163.0	133.1	22.1	325.5	298.2	309.3	310.6	314.4
25	319.7	320.1	318.4	317.8	318.5	316.6	317.8	317.0	314.9	316.5	316.7	318.2	319.0	316.6	319.5	317.1	318.5	319.1	320.9	318.7	317.4	318.5	319.8	319.1
26	318.7	318.0	317.8	316.8	316.3	313.8	316.8	318.8	316.4	319.2	320.4	318.6	317.0	316.8	318.7	316.2	317.1	334.2	3.3	14.7	55.0	48.2	38.6	49.2
27	54.3	50.3	46.3	39.2	37.8	15.8	26.3	43.9	37.9	44.5	50.5	51.4	53.6	54.0	44.5	32.5	22.2	7.9	1.5	0.6	1.1	1.9	3.3	3.6
28	4.7	10.9	12.9	16.0	14.0	18.3	28.0	29.0	34.2	32.3	32.5	33.8	33.0	34.2	37.1	33.2	29.2	29.3	29.6	29.8	27.2	24.2	22.7	26.3
29	26.5	29.4	28.3	34.4	34.7	30.7	32.1	33.8	31.4	30.8	17.2	31.3	42.6	32.8	25.7	167.2	180.2	165.1	157.7	83.1	134.1	83.2	166.2	126.6
30	106.0	124.5	143.9	71.9	74.6	125.5	74.9	85.3	227.2	47.1	49.2	177.9	178.8	189.1	191.8	308.7	294.0	315.4	334.1	311.4	320.8	319.0	345.1	317.3

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	315.8	314.9	321.2	320.2	313.6	311.7	318.6	324.7	355.0	354.4	44.5	39.9	321.7	318.9	312.8	336.3	19.5	323.7	355.8	348.7	327.1	314.3	311.2	315.2
2	338.3	332.8	327.5	318.2	325.2	310.4	337.4	183.4	317.4	315.9	315.6	322.6	354.1	143.0	82.5	78.3	27.4	359.3	307.1	313.9	308.9	301.3	326.3	151.8
3	177.5	158.5	111.8	296.7	314.6	310.6	312.7	316.5	321.8	321.5	318.7	321.7	319.5	319.7	320.7	318.3	319.0	339.2	33.2	52.5	48.3	11.8	56.8	43.6
4	31.6	48.9	42.9	44.7	34.0	33.7	34.7	33.4	26.6	17.8	19.3	25.8	14.8	18.8	24.1	28.5	29.4	27.5	27.5	28.4	24.6	33.4	28.2	32.3
5	34.9	33.5	34.5	31.5	23.8	30.8	29.4	20.7	12.0	6.2	357.8	6.8	12.4	14.4	18.0	12.7	11.9	18.9	18.0	12.6	10.5	7.9	15.2	19.1
6	12.1	13.6	16.0	15.0	15.7	15.2	15.5	13.5	19.8	21.3	4.5	10.1	4.4	10.7	23.5	37.8	33.5	26.9	23.7	20.9	21.7	17.2	360.0	349.2
7	348.3	349.2	2.9	1.3	11.3	11.9	9.0	5.5	12.4	14.4	17.6	17.2	18.4	21.3	15.1	9.7	10.3	2.0	5.4	10.6	5.6	1.3	353.7	357.7
8	359.7	339.1	14.1	24.0	26.9	30.6	33.5	33.7	32.6	29.7	22.6	349.6	326.5	290.6	267.8	293.1	256.2	167.1	29.5	344.4	332.7	334.3	317.3	307.3
9	328.0	325.0	4.7	0.5	347.5	344.3	352.6	345.7	0.8	8.4	14.1	22.8	19.9	11.8	20.2	24.8	13.0	355.2	3.9	328.0	25.0	344.3	18.5	319.5
10	336.9	17.3	19.5	25.4	25.4	22.7	31.1	28.7	31.8	24.6	16.8	15.9	7.9	12.0	322.2	355.7	3.8	333.1	329.2	346.8	2.3	9.8	18.7	8.2
11	8.2	22.7	26.8	27.7	27.2	17.1	337.6	316.8	317.4	322.3	317.6	315.5	312.7	316.5	305.5	304.4	293.1	318.1	294.7	295.3	313.4	115.9	120.5	153.6
12	168.4	170.5	166.1	99.0	90.3	71.8	86.4	176.1	170.0	124.8	177.1	188.1	49.8	138.0	178.8	320.3	16.5	352.5	42.8	17.2	1.9	11.6	41.5	23.0
13	24.1	8.1	8.9	23.2	28.9	22.5	19.7	18.3	17.2	17.0	6.7	12.3	19.9	15.8	13.9	14.4	14.7	9.4	15.9	22.2	24.4	21.6	24.2	27.1
14	26.3	26.6	22.5	23.5	24.1	23.9	25.4	26.8	26.2	26.2	26.3	24.8	23.7	24.9	23.4	25.5	20.8	20.2	18.3	13.4	11.4	8.1	6.2	1.8
15	352.8	351.0	351.7	8.2	13.4	16.8	24.1	26.2	20.3	22.4	28.1	24.2	26.8	22.8	21.0	20.0	18.9	15.8	14.8	11.1	359.9	350.0	349.4	4.8
16	6.9	5.8	348.9	337.1	312.2	335.0	355.6	358.6	327.2	336.4	341.0	357.6	7.3	354.8	338.8	20.5	23.8	39.2	41.0	44.7	21.7	343.9	320.2	317.0
17	2.6	32.5	22.2	6.7	10.5	14.2	14.1	12.8	1.8	358.5	32.3	28.6	11.6	11.6	359.4	358.0	359.3	354.5	1.2	6.0	0.1	350.9	9.8	5.8
18	356.4	357.6	0.9	9.1	13.4	10.1	11.8	5.6	3.3	359.4	351.9	353.9	354.3	0.7	17.2	357.4	350.7	353.4	19.5	18.2	16.7	14.0	12.3	12.0
19	17.0	16.0	14.4	10.6	13.9	13.4	11.7	14.2	9.1	7.7	11.0	13.0	15.0	14.0	357.9	273.7	227.9	252.6	4.5	347.4	356.9	6.8	19.6	27.1
20	16.0	25.0	11.7	7.7	13.4	10.8	22.8	27.1	270.4	49.3	20.7	204.3	219.3	43.6	215.5	227.8	1.5	14.8	13.3	20.7	336.5	33.8	36.9	348.9
21	215.3	32.7	26.5	226.1	35.8	24.9	27.9	29.3	305.6	240.0	24.2	19.3	28.5	37.8	34.5	31.5	18.1	27.6	44.3	43.7	42.6	44.2	28.7	36.7
22	27.0	1.7	34.3	45.6	33.3	40.3	19.0	23.8	27.9	20.2	27.7	32.5	37.8	35.4	34.4	32.5	33.5	29.8	23.3	24.6	31.4	29.5	33.9	27.6
23	25.6	27.2	270.7	31.6	23.5	19.7	29.3	29.6	28.2	30.0	35.0	31.3	33.7	29.0	36.7	31.0	33.1	34.5	31.1	35.1	31.8	19.9	9.6	15.5
24	8.8	0.7	21.0	6.5	22.7	26.4	24.4	22.3	20.8	14.1	22.6	22.5	24.6	27.5	33.2	28.9	31.5	20.6	16.0	11.0	11.2	20.4	22.7	19.6
25	18.8	10.6	8.6	5.2	348.2	352.9	2.7	0.3	0.9	7.2	9.4	2.5	18.8	20.4	19.6	17.7	19.1	20.1	19.3	22.4	23.3	25.7	25.7	24.6
26	21.7	11.1	3.5	2.4	358.7	4.2	19.6	19.8	17.1	20.5	23.1	21.8	20.9	18.6	18.3	23.5	22.1	23.7	23.3	22.9	13.6	18.3	14.5	13.3
27	17.4	20.8	20.7	19.7	23.2	21.9	26.3	21.8	20.0	25.6	26.1	22.5	20.9	23.1	32.9	20.4	20.4	20.8	25.7	24.0	27.4	26.8	22.1	18.6
28	22.2	21.2	21.9	19.2	20.8	23.2	21.0	17.6	25.4	25.3	23.3	22.9	24.4	27.2	24.2	24.3	22.9	24.4	23.1	24.3	28.2	31.7	29.1	29.2
29	26.3	24.7	22.5	18.4	18.5	1.0	3.3	1.1	354.3	341.0	359.8	0.1	5.5	16.3	18.7	20.7	19.4	18.3	17.0	15.0	14.9	19.1	17.5	20.0
30	22.4	24.6	23.0	22.1	21.5	22.4	21.4	27.9	18.7	21.4	357.6	240.9	24.7	23.6	22.0	21.8	26.5	26.7	25.3	22.8	21.7	17.7	18.0	19.3
31	21.3	22.5	20.1	23.4	24.7	25.1	26.8	12.3	19.3	18.5	19.2	23.6	26.6	29.7	20.5	13.3	23.1	22.0	27.1	19.7	22.2	20.3	19.4	22.9

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	32.7	33.0	26.1	23.8	24.8	19.6	4.2	351.8	357.2	351.7	353.9	21.8	27.3	19.9	23.7	21.6	12.7	356.6	0.9	11.3	7.4	8.1	11.3	7.8
2	356.8	11.9	20.1	24.6	12.7	19.5	21.9	27.6	22.0	14.3	12.7	8.8	7.8	12.8	8.7	9.3	12.5	18.1	359.5	8.9	7.7	16.7	6.1	18.7
3	359.1	358.3	2.7	2.7	1.9	11.2	349.3	3.7	14.0	17.5	26.1	18.2	21.8	25.1	22.7	11.3	23.4	20.3	24.0	26.1	15.9	13.7	27.2	23.2
4	27.1	20.1	15.3	21.3	24.8	19.6	8.9	10.5	27.5	30.8	30.6	43.2	43.1	43.3	42.7	25.0	27.0	23.2	257.5	27.3	51.4	27.4	217.6	32.3
5	24.0	26.5	20.5	15.7	28.4	23.7	25.0	30.4	17.0	44.5	14.0	335.3	29.1	35.5	25.4	336.8	4.6	27.4	29.4	27.9	24.5	34.2	31.2	360.0
6	27.4	19.3	251.1	27.7	24.8	27.4	29.0	30.1	30.6	26.1	28.8	231.0	34.4	34.3	39.1	42.4	1.1	21.3	303.7	241.7	330.2	17.1	23.8	243.1
7	144.6	26.7	32.8	30.0	27.7	22.3	357.9	25.9	31.3	33.2	19.5	26.1	27.0	26.6	28.5	19.8	23.0	26.1	19.4	20.7	22.3	30.5	24.9	30.9
8	25.4	20.9	22.2	19.7	23.6	30.2	30.0	27.8	22.0	16.3	20.8	28.4	25.0	19.3	56.0	27.6	25.2	25.1	25.8	13.1	21.0	20.3	25.2	21.1
9	15.2	18.6	28.4	27.4	30.7	31.4	27.8	27.9	22.8	18.5	17.5	29.1	21.2	46.2	34.5	22.3	22.2	32.5	30.9	38.5	32.8	332.6	29.2	28.2
10	28.7	26.5	29.3	33.2	33.1	28.3	28.9	315.7	237.0	114.7	183.8	24.8	42.6	65.1	192.0	196.6	60.2	61.1	61.7	64.9	64.8	63.9	59.2	58.0
11	45.5	54.3	34.7	22.7	62.8	57.8	49.9	29.7	30.3	8.9	26.9	17.1	43.3	40.7	46.5	25.9	17.5	280.5	55.8	41.8	48.2	46.7	33.6	43.8
12	295.2	61.5	65.5	55.8	55.8	65.6	59.9	60.8	40.8	43.9	12.5	35.7	39.5	40.5	39.2	39.1	42.2	36.8	19.8	28.9	22.5	15.4	31.8	16.9
13	34.6	11.7	24.5	7.7	16.5	25.0	14.3	21.6	30.1	42.6	351.3	45.1	45.7	44.8	51.9	34.8	33.9	24.9	18.0	6.8	17.6	19.1	20.3	23.6
14	35.2	35.3	26.5	22.4	31.2	32.4	30.9	27.4	23.9	38.5	33.3	34.4	31.7	29.9	28.4	27.3	27.5	29.0	27.7	26.7	30.5	33.9	29.5	27.1
15	22.1	26.5	29.9	27.9	26.8	27.0	27.4	22.9	24.6	27.5	21.2	29.0	27.2	30.3	28.3	20.5	5.1	25.5	21.5	24.7	23.8	16.6	23.4	22.5
16	21.5	25.8	26.3	32.5	38.3	32.8	31.2	27.7	24.3	15.7	14.1					29.6	15.9	23.9	28.3	25.7	305.2	7.9	32.4	29.9
17	28.7	18.5	23.0	354.6	357.8	0.2	39.6	19.5	25.4	20.2	29.8	44.0	64.8	72.6	66.4	344.6	7.4	354.9	333.4	345.6	14.6	48.3	58.5	56.1
18	50.2	51.2	54.2	42.4	49.6	59.3	40.1	37.3	57.0	50.4	16.2	40.2	36.3	38.5	32.3	45.4	40.6	24.7	25.2	355.4	14.6	11.9	22.8	46.7
19	8.9	346.3	59.0	45.9	32.5	15.7	27.2	23.9	52.6	49.8	51.8	48.1	55.1	50.2	36.4	53.6	52.0	36.9	35.7	25.0	14.7	29.4	43.5	49.5
20	9.7	30.0	28.5	23.9	14.8	23.9	21.8	21.9	19.3	21.2	20.9	23.1	22.6	25.8	26.5	17.1	25.3	14.8	5.2	23.8	22.1	33.1	19.6	27.3
21	26.5	26.8	32.2	30.4	32.0	32.2	29.6	24.2	25.6	26.4	32.8	36.9	48.5	58.1	55.1	60.7	61.1	63.9	62.1	348.9	320.8	319.1	316.8	311.9
22	300.8	346.6	38.7	45.5	11.5	329.9	307.3	301.1	303.2	308.1	306.3	290.1	296.2	312.7	315.0	317.6	313.8	317.6	316.1	316.2	318.4	320.5	319.0	320.1
23	318.9	321.3	335.6	55.0	50.5	57.5	40.7	48.4	26.3	57.8	49.7	71.9	60.2	63.1	59.3	59.1	59.9	52.5	45.3	46.1	46.3	54.8	51.1	40.5
24	54.1	48.3	50.5	51.0	50.0	46.6	42.5	42.2	43.5	39.2	43.3	55.7	59.7	57.6	58.1	57.3	47.5	57.3	52.8	50.4	44.3	34.7	38.1	32.8
25	27.3	31.7	19.1	10.1	8.4	18.6	18.6	8.9	11.7	11.7	28.4	37.8	38.9	39.2	39.6	48.3	36.7	43.0	42.5	46.6	49.0	55.6	51.5	54.7
26	56.9	53.8	59.0	61.5	59.5	61.3	59.3	57.9	51.2	57.9	52.6	51.3	55.7	54.9	55.1	56.9	55.8	51.0	48.4	46.8	40.2	54.0	64.6	62.3
27	62.9	45.7	323.4	342.5	309.0	14.4	48.7	301.4	351.2	79.4	292.1	311.1	311.6	316.5	318.6	319.1	317.0	318.4	313.7	316.2	314.0	310.9	311.9	312.3
28	318.2	316.9	318.0	318.4	316.8	314.3	316.1	313.5	314.1	314.6	318.5	318.1	313.0	322.2	58.7	59.1	57.4	63.5	63.1	57.0	54.5	60.4	54.5	55.7
29	56.6	55.3	54.3	53.6	53.5	51.3	51.0	54.0	54.8	51.8	54.7	56.3	57.7	56.0	52.3	52.1	44.9	49.6	49.3	53.1	54.7	50.8	46.4	54.9
30	57.6	54.1	54.5	53.9	52.4	48.7	52.2	51.8	46.1	42.4	46.8	45.3	51.0	51.3	46.7	47.2	41.2	33.1	30.4	18.7	32.8	31.7	29.3	25.1
31	24.7	21.5	25.2	24.7	23.7	24.5	19.5	16.1	37.0	37.4	44.3	49.1	45.1	45.5	51.2	52.8	50.5	52.7	51.0	49.3	55.7	55.7	62.1	58.3

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	53.1	55.0	46.7	57.1	41.7	352.5	314.9	317.6	324.2	316.0	314.1	315.8	314.1	315.6	314.9	312.8	305.8	33.8	153.3	184.6	191.6	183.8	304.5	311.4
2	315.1	316.0	314.6	317.1	309.7	314.3	316.7	317.6	319.0	313.0	314.4	341.2	52.6	58.3	54.6	46.6	57.1	55.2	49.1	13.6	31.0	35.4	29.8	31.6
3	26.4	23.4	20.8	11.9	20.3	15.4	16.3	10.2	9.2	14.3	20.1	28.8	19.2	21.1	22.8	21.0	15.8	6.5	17.7	13.1	13.1	13.3	17.0	14.4
4	13.8	3.0	11.8	9.3	4.2	11.5	14.0	18.3	13.4	13.5	17.1	20.9	19.8	20.0	20.5	17.0	13.8	15.7	16.1	17.2	21.0	21.9	23.3	22.2
5	21.7	22.1	21.9	23.7	23.2	23.2	23.1	23.5	24.7	29.4	27.1	15.6	4.5	14.5	6.4	16.0	20.3	22.9	21.2	22.6	21.6	18.3	13.6	10.1
6	14.1	12.2	6.3	1.3	4.3	8.3	18.5	18.4	9.1	21.4	213.2	232.0	93.3	143.5	176.4	16.2	352.0	17.0	27.0	12.7	33.1	34.2	18.1	7.9
7	22.8	32.8	31.3	26.2	15.5	347.6	81.7	202.8	198.8	204.9	204.1	194.5	184.7	178.7	189.3	69.1	103.8	173.1	197.1	198.2	167.6	158.2	101.8	100.5
8	29.9	334.6	358.8	27.6	19.5	17.8	21.0	25.6	29.3	12.6	24.9	26.4	24.6	18.9	1.6	1.2	8.0	2.1	8.1	7.5	5.9	10.4	5.6	9.5
9	16.5	13.9	17.3	18.5	17.1	18.4	20.7	23.2	23.3	23.6	24.2	24.7	24.0	21.8	19.6	21.9	23.9	15.8	14.5	8.8	10.0	8.1	15.1	12.5
10	351.4	1.0	8.8	11.3	13.7	358.4	1.0	10.0	9.6	6.3	350.2	339.1	342.4	304.4			347.4	323.7	356.5	316.5	319.4	12.6	336.5	276.0
11	1.2	353.6	2.2	25.2	14.8	21.0	23.6	23.0	16.4	15.5	19.0	24.5	24.9	20.5	14.7	12.1	5.4	0.9	2.1	0.5	2.2	3.3	354.9	349.0
12	350.4	346.6	336.0	219.2	212.5	229.9	309.0	320.5	316.8	307.7	336.0	176.9	175.8	166.3	175.6	165.2	170.3	174.3	154.3	308.4	311.9	319.2	315.5	335.0
13	12.0	337.7	355.3	307.2	6.8	329.3	243.3	24.5	32.2	37.0	211.1	36.9	32.3	21.7	24.5	16.8	25.5	18.1	7.7	353.7	356.9	2.0	357.2	356.2
14	357.7	345.1	350.0	350.7	3.5	354.3	4.9	348.8	5.7	8.3	358.4	6.9	356.1	0.4	357.9	7.5	6.9	1.8	359.9	352.3	10.5	8.4	9.2	9.7
15	12.7	3.0	15.8	353.1	358.4	357.1	3.1	356.9	357.8	9.5	17.9	17.9	196.7	21.1	11.9	350.1	355.0	335.5	350.0	350.1	340.7	324.1	355.3	35.0
16	42.0	31.2	37.3	36.8	37.8	36.0	26.1	15.0	35.1	11.2	57.0	80.2	33.2	36.1	37.3	17.3	16.8	23.5	20.0	18.0	24.5	28.1	33.0	25.9
17	25.3	24.6	20.4	21.3	16.5	11.9	11.5	4.2	355.4	6.7	353.1	348.1	352.9	357.7	2.0	4.1	7.1	5.9	4.7	7.6	9.0	351.3	325.0	333.0
18	340.6	16.1	21.3	12.9	13.8	9.5	3.1	21.8	338.4	326.9	328.2	335.3	308.8	273.6	310.3	286.0	317.9	289.9	302.8	24.7	26.1	35.4	35.0	33.4
19	37.1	75.5	194.3	192.5	187.3	154.9	185.8	177.7	184.1	178.1	199.3	196.9	198.6	343.4	208.9	207.2	217.0	205.4	198.7	203.0	194.3	192.7	200.7	196.8
20	200.4	196.2	197.0	189.2	61.1	49.5	206.0	183.3	169.2	159.5	78.3	84.1	99.0	188.2	185.1	199.3	205.9	212.2	196.4	198.4	196.0	197.9	194.5	198.7
21	203.7	203.0	202.7	195.9	208.1	185.0	197.8	191.0	201.5	200.1	176.8	186.6	192.4	160.2	109.7	76.8	66.3	90.2	79.0	82.2	94.9	164.2	148.1	102.1
22	195.4	204.9	136.1	202.9	194.2	231.0	189.3	195.3	203.4	201.9	186.4	189.7	178.8	155.3	74.0	127.7	113.4	79.4	4.9	144.9	58.2	78.7	106.1	184.4
23	52.6	13.0	19.3	10.6	236.0	24.9	28.9	187.7	20.5	191.1	136.8	57.7	162.5	144.3	132.7	129.8	143.7	151.6	127.2	124.0	301.0	311.4	316.0	1.0
24	4.0	19.1	29.8	18.2	8.3	25.0	29.4	35.3	49.8	48.1	53.1	50.3	37.3	39.4	38.1	37.3	42.8	20.6	43.0	36.7	39.2	29.5	19.0	16.7
25	22.2	21.8	26.7	29.5	28.6	29.1	28.1	7.3	262.5	202.4	218.6	66.9	203.7	165.8	209.7	191.0	58.5	66.5	55.4	49.7	40.6	48.3	57.9	49.0
26	45.5	41.0	25.7	69.4	108.9	216.4	242.4	181.2	179.3	191.9	194.6	196.4	210.1	198.0	167.0	102.3	101.4	50.2	27.8	338.1	23.3	30.2	31.3	29.2
27	28.1	28.7	27.9	29.9	31.9	25.7	26.8	350.3	216.7	227.1	241.8	258.4	6.0	55.9	316.0	312.5	319.3	334.2	318.0	318.7	334.7	341.4	38.1	48.1
28	328.5	317.4	317.0	317.0	320.1	320.5	319.4	318.0	9.7	338.8	341.4	316.7	309.6	311.1	316.8	302.9	296.9	304.8	296.8	324.6	301.6	316.2	312.7	316.7

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	317.8	353.0	28.4	45.1	55.7	58.3	51.3	44.4	5.2	51.7	49.2	39.8	39.0	35.0	47.2	40.6	31.0	17.8	37.4	34.5	31.1	30.4	29.3	21.6
2	21.8	28.9	28.7	18.1	20.1	17.8	17.8	33.3	33.6	33.3	27.7	25.6	27.3	28.1	26.4	19.6	18.0	17.9	15.7	18.0	15.7	11.4	12.5	15.5
3	12.9	19.1	16.7	20.3	18.0	25.3	29.0	19.4	19.0	15.9	17.9	16.7	23.4	29.3	30.8	32.8	33.9	26.6	31.9	31.4	31.3	25.7	30.4	29.3
4	27.8	27.1	28.7	25.3	27.7	28.2	25.6	24.7	25.2	29.2	28.0	30.3	24.9	7.1	19.6	22.6	23.3	24.7	17.3	24.6	22.3	21.3	18.9	20.4
5	20.4	21.0	11.7	10.1	11.1	16.4	16.6	316.1	43.0	29.5	228.9	193.8	143.8	176.9	193.6	108.1	86.0	151.8	177.4	181.8	154.6	77.3	78.4	99.9
6	184.1	192.6	183.2	179.5	211.1	211.9	208.8	177.0	302.8	306.2	312.7	317.8	321.1	319.1	320.2	325.0	324.5	2.0	7.7	352.1	32.1	32.0	38.9	49.2
7	57.6	61.4	44.2	40.7	56.5	57.4	65.9	353.0	315.4	316.0	315.1	316.9	318.4	316.3	318.6	309.2	294.5	46.0	11.8	68.9	142.2	138.2	348.3	287.9
8	292.1	304.0	295.4	301.0	300.2	342.7	319.8	309.2	332.7	355.6	312.6	81.7	72.7	73.7	147.1	183.1	178.3	179.2	178.1	166.4	191.5	194.3	34.7	23.4
9	205.4	285.9	122.5	152.2	151.0	148.6	87.8	61.5	31.2	124.3	171.5	137.1	153.3	88.7	129.9	307.3	294.0	290.2	299.4	304.7	306.3	308.0	317.6	331.2
10	51.6	40.3	47.5	39.3	29.6	5.3	7.6	0.4	4.8	13.1	20.2	28.1	33.2	41.3	43.2	46.2	19.4	15.1	14.8	13.8	26.7	15.4	16.0	11.4
11	15.6	4.7	4.2	13.7	11.4	17.3	19.9	9.7	10.8	359.3	359.2	11.8	8.1	1.6	1.8	1.8	1.1	1.9	3.0	3.2	2.2	3.9	5.3	4.0
12	2.9	5.6	6.1	5.3	3.2	4.5	12.9	9.5	10.1	7.2	6.4	8.9	17.1	12.9	19.9	25.5	27.3	30.9	28.6	30.0	26.7	20.6	28.5	15.1
13	31.7	8.2	338.3	104.0	23.5	26.7	26.2	9.7	359.6	37.6	180.4	193.3	194.4	198.1	196.8	202.4	205.0	217.6	226.4	239.2	239.1	302.6	29.5	17.7
14	13.3	25.1	17.2	22.6	15.0	14.6	13.9	13.1	17.4	30.6	26.7	24.6	28.2	24.4	25.2	27.2	32.2	38.6	31.6	9.0	7.5	23.7	18.9	11.0
15	12.4	8.4	6.5	7.6	13.4	5.8	15.6	5.8	10.9	14.0	16.8	45.1	66.3	45.4	64.4	121.5	215.6	221.0	219.2	346.8	2.9	5.7	5.7	6.6
16	8.3	4.7	10.1	15.3	22.8	12.9	9.3	10.9	15.6	23.0	26.3	27.2	27.3	25.2	19.3	18.8	18.5	8.7	21.3	5.1	1.4	358.7	356.7	2.1
17	6.1	15.5	28.8	31.5	28.5	27.8	23.5	20.3	20.6	33.1	26.4	20.3	27.2	23.6	20.0	21.4	12.3	6.5	9.9	20.9	34.2	21.2	16.3	27.6
18	16.7	19.6	19.7	14.1	17.9	18.5	18.4	17.6	20.6	24.9	22.0	19.7	25.5	22.6	21.5	21.0	21.7	19.8	330.3	346.3	321.6	221.9	342.8	283.1
19	21.7	7.7	7.2	7.4	9.5	21.5	23.1	32.1	33.9	39.7	40.4	70.9	199.0	203.0	213.4	210.9	185.1	182.4	174.3	211.3	320.9	21.4	31.9	30.9
20	31.0	35.5	31.2	29.9	28.8	31.5	31.7	26.4	236.7	23.9	205.4	64.5	114.8	184.7	210.4	214.5	303.3	315.8	311.5	308.7	321.1	313.8	316.5	322.3
21	330.7	337.5	17.4	42.9	55.8	60.7	59.3	45.7	51.9	105.0	50.1	57.1	101.6	173.2	107.8	76.2	59.7	49.2	45.4	42.4	27.1	6.4	2.3	29.8
22	43.6	38.9	50.6	54.2	50.3	58.6	58.0	54.2	18.0	49.1	66.3	54.1	56.8	50.7	51.5	48.6	23.7	355.0	228.0	27.6	31.9	21.6	19.8	15.6
23	11.9	14.1	8.6	11.2	24.6	1.0	20.0	17.8	46.4	46.3	53.3	66.0	103.9	65.3	125.3	159.0	167.7	329.6	314.0	346.1	44.9	18.0	359.8	34.6
24	52.8	55.5	56.0	56.9	58.6	56.2	56.1	54.8	59.4	57.5	67.0	50.1	70.3	44.7	55.3	43.3	31.2	42.9	85.0	53.9	51.5	44.9	48.9	45.0
25	42.4	36.8	42.9	132.5	62.9	44.1	46.7	39.9	48.2	52.4	54.4	47.3	105.3	70.9	40.5	52.1	58.1	53.9	11.4	56.4	64.4	62.1	60.6	57.1
26	43.3	61.7	59.2	53.8	54.3	53.2	47.4	45.1	51.5	55.5	74.7	64.6	47.2	45.3	42.7	42.9	52.2	35.7	311.6	59.1	42.5	40.5	25.3	30.0
27	21.7	26.2	26.1	31.6	31.3	27.4	287.3	28.6	32.7	65.9	173.4	207.6	206.4	209.3	211.3	212.1	211.6	217.5	213.7	226.4	43.2	31.2	28.5	32.2
28	29.1	32.5	28.6	33.2	30.4	33.7	33.2	33.8	39.6	98.6	201.2	199.5	207.8	201.5	212.0	208.3	212.0	215.9	209.8	207.7	255.2	13.2	31.4	262.3
29	21.4	33.6	12.7	26.8	20.6	25.4	19.2	30.7	38.7	49.1	42.9	54.3	99.6	186.6	209.2	214.8	204.7	6.6	219.0	206.9	333.7	17.5	18.3	25.6
30	35.2	30.6	6.1	10.9	19.8	12.2	12.4	9.9	17.6	359.4	2.3	350.4	6.7	352.3	359.8	357.2	357.9	355.0	356.9	348.0	6.8	4.1	349.2	357.9
31	357.4	339.5	344.1	339.2	334.2	352.1	338.2	329.1	1.4	352.9	0.3	4.0	358.3	358.9	360.0	358.9	1.8	17.2	28.9	30.7	81.6	58.0	63.1	58.1

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	58.4	52.0	45.1	347.7	319.6	340.1	330.7	310.8	308.3	311.8	310.5	334.5	313.1	64.3	80.6	95.1	115.1	157.7	177.1	202.4	180.3	175.1	164.1	174.0
2	177.2	174.6	176.5	207.0	196.5	200.4	127.5	149.9	125.4	188.8	54.4	83.3	96.9	77.7	96.5	45.7	34.5	37.6	29.2	22.4	14.1	27.1	24.7	13.9
3	27.1	24.2	22.8	12.3	12.9	12.9	12.9	18.0	16.6	4.9	9.9	9.7	13.8	13.2	4.1	2.8	11.8	22.1	27.9	22.8	26.2	10.4	15.8	14.2
4	354.2	16.3	17.0	32.1	35.6	31.3	30.0	32.0	29.5	29.2	25.2	69.3	203.1	189.9	176.2	203.4	198.9	200.6	205.9	197.0	268.5	24.0	7.5	46.6
5	34.2	306.2	336.8	329.8	35.8	46.8	314.7	340.8	307.8	292.4	320.2	304.9	303.8	293.9	116.8	79.8	152.0	152.1	147.6	53.0	342.2	299.3	292.3	315.3
6	315.7	317.2	318.5	46.5	48.2	54.1	63.9	65.5	66.3	53.5	47.6	43.5	43.9	48.2	43.9	46.3	46.7	40.9	36.4	18.7	44.4	36.5	270.5	1.9
7	33.3	235.7	36.5	29.4	10.2	24.5	30.3	29.8	35.2	32.2	34.7	29.4	50.2	82.0	177.3	273.7	261.2	262.4	138.0	340.9	321.9	317.0	3.4	359.3
8	359.1	353.7	351.8	19.0	3.3	16.8	9.8	350.2	348.7	357.8	352.3	8.7	11.9	342.1	332.4	358.2	352.1	26.8	25.8	28.5	37.8	34.4	13.5	28.2
9	25.9	289.7	335.9	34.8	35.2	5.7	31.0	35.6	36.7	38.6	45.7	60.4	184.9	205.9	201.5	210.0	193.7	151.0	157.2	15.1	11.6	72.0	32.1	323.2
10	325.3	52.9	20.6	60.9	59.3	186.3	193.9	203.0	195.0	202.7	193.2	202.3	198.8	202.8	206.5	197.2	204.1	199.8	212.7	201.2	199.1	198.3	203.2	178.2
11	69.9	67.3	73.5	41.8	27.2	6.5	21.6	41.4	41.6	41.9	32.2	34.4	21.1	15.2	27.9	24.9	25.1	19.9	17.7	14.5	10.9	7.3	5.9	8.4
12	5.7	5.9	8.4	10.0	9.4	9.0	9.0	15.3	12.2	13.5	6.2	7.9	19.7	26.6	31.1	29.6	30.3	165.7	74.6	19.7	254.6	96.6	60.1	132.0
13	302.2	309.2	310.6	311.8	310.2	310.6	310.8	292.8	5.7	316.1	320.7	339.0	174.2	190.6	184.0	175.2	155.5	161.7	105.3	50.8	300.3	297.2	314.1	314.5
14	315.9	318.0	317.3	319.1	316.5	319.4	317.8	317.0	320.4	319.1	320.4	318.9	315.8	315.1	312.5	302.3	292.0	38.9	112.3	315.0	306.4	310.0	303.9	299.2
15	276.3	292.3	285.8	283.0	290.1	292.1	312.0	301.3	75.0	308.2	307.6	327.9	310.4	312.1	299.7	318.0	318.2	315.1	318.9	331.9	323.8	31.8	7.6	25.6
16	21.1	28.6	26.1	35.0	14.3	4.0	8.1	2.0	21.8	15.2	19.4	22.4	24.7	19.2	23.0	25.0	16.2	14.6	15.0	16.6	16.6	25.5	15.4	19.7
17	21.0	18.1	19.8	21.8	21.2	16.8	20.8	15.7	13.8	12.3	23.7	9.0	21.5	10.3	17.2	23.1	30.2	17.9	12.1	11.3	23.9	32.6	32.4	10.8
18	43.1	27.0	2.7	22.2	332.7	24.3	27.2	33.0	42.5	47.7	135.4	197.8	197.4	205.4	202.9	206.2	192.9	189.9	205.8	305.3	314.9	305.7	353.5	338.3
19	309.2	313.4	318.3	316.8	317.5	318.1	318.8	324.4	37.0	44.2	21.3	38.8	48.8	42.5	95.1	97.9	42.1	29.6	302.4	210.1	51.0	29.1	10.2	35.0
20	14.4	2.8	22.0	27.8	35.3	31.5	30.8	23.3	25.5	34.7	13.5	26.0	123.4	77.8	29.8	26.2	347.7	7.2	11.1	341.2	356.3	8.2	355.8	358.9
21	356.2	0.4	3.6	8.6	13.4	17.2	17.2	14.2	12.2	10.4	14.1	7.5	0.8	1.5	13.7	356.9	24.9	5.2	32.5	27.8	8.6	332.1	347.7	355.8
22	350.8	12.9	10.1	8.6	16.3	21.4	30.7	29.2	32.4	45.9	81.2	66.1	76.1	175.9	190.4	185.6	193.5	184.7	209.5	181.2	193.2	304.0	13.9	38.5
23	21.8	34.4	25.5	27.9	18.6	27.8	22.2	31.8	28.3	29.6	14.6	30.5	38.3	38.4	138.6	205.1	205.4	259.0	256.6	312.6	313.5	309.7	310.5	315.6
24	337.5	24.6	229.3	183.7	331.8	313.3	351.4	20.2	125.4	83.3	83.6	136.5	157.3	167.0	162.7	161.7	151.4	150.0	170.6	166.7	112.3	326.3	306.7	318.8
25	321.0	323.8	337.2	0.5	6.8	22.1	27.6	33.3	34.4	36.6	16.4	20.9	28.8	26.2	21.2	18.5	8.3	5.6	1.6	6.7	355.9	359.7	347.9	16.7
26	7.0	354.0	356.7	7.2	4.0	10.3	13.3	12.9	24.4	26.5	24.6	23.4	26.0	22.8	20.8	21.4	21.2	15.3	14.9	13.2	15.1	14.8	28.2	20.8
27	10.2	6.2	13.4	13.4	13.7	14.4	15.4	14.2	11.0	14.5	17.4	29.8	30.6	39.3	122.4	19.4	21.5	322.4	271.5	4.6	226.1	0.0	5.3	22.9
28	18.3	4.1	8.4	13.9	12.4	9.7	16.4	19.6	58.0	53.7	36.7	43.2	41.5	42.9	5.4	46.0	40.7	43.2	10.6	322.6	1.4	353.0	5.0	352.6
29	352.2	4.3	315.8	319.4	316.4	311.4	309.1	314.7	310.1	312.3	314.6	35.8	18.6	57.8	359.4	321.0	316.9	313.8	305.6	313.8	310.6	319.9	18.9	14.3
30	19.2	17.1	10.8	0.3	22.1	21.4	47.4	59.5	38.7	37.9	39.0	67.0	204.0	211.8	152.7	149.9	217.6	274.8	340.4	11.8	38.7	330.6	332.0	11.9

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	26.6	358.5	14.1	6.6	11.5	10.5	14.6	10.6	19.0	25.1	26.2	27.3	31.7	32.4	32.0	31.3	27.8	27.7	30.0	28.9	23.3	17.5	17.2	19.0
2	18.4	16.2	17.5	21.4	21.8	28.1	23.6	23.9	20.3	14.3	23.5	24.7	21.5	13.8	2.5	9.6	13.5	20.4	12.6	8.4	4.0	82.0	4.8	349.7
3	347.2	353.0	3.5	15.0	355.2	358.5	9.9	13.0	22.1	25.2	28.9	31.2	30.2	29.0	22.0	10.1	25.1	4.3	354.8	345.2	350.9	3.4	6.9	7.7
4	20.7	12.0	353.7	350.4	356.2	8.2	22.3	343.8	352.4	320.7	4.6	34.7	40.0	85.8	41.1	4.5	12.0	24.0	12.8	347.2	339.3	18.7	6.1	8.5
5	358.7	3.7	1.3	352.0	3.9	10.6	9.5	14.3	12.7	11.2	12.5	6.3	1.2	360.0	66.5	26.5	28.6	51.1	97.2	243.0	235.6	280.4	331.3	34.5
6	49.0	255.7	275.9	341.1	233.0	313.8	349.7	24.6	36.8	150.4	187.1	64.2	160.3	96.2	49.4	319.0	315.4	316.9	309.1	301.2	299.9	292.9	291.3	303.3
7	311.1	303.9	295.3	295.6	297.4	292.2	292.0	296.4	296.6	307.4	313.7	303.2	305.5	48.1	4.7	47.4	68.9	98.4	107.5	103.0	55.1	21.7	316.5	315.4
8	318.5	309.1	317.0	358.3	357.9	18.1	35.2	35.6	27.8	20.9	27.8	24.8	19.2	23.6	20.7	21.7	17.9	17.5	12.2	13.6	9.8	16.2	17.5	19.6
9	20.7	21.3	20.9	23.1	20.5	20.4	20.6	20.7	22.8	19.8	17.6	18.3	21.9	23.6	25.4	27.3	28.3	28.9	26.7	27.5	25.6	23.1	22.1	21.7
10	19.3	22.5	28.9	18.3	23.1	22.1	7.0	18.7	19.3	60.3	195.0	197.0	187.7	90.0	155.0	146.5	105.3	194.7	198.4	192.0	215.0	262.5	15.6	22.0
11	357.1	26.8	31.1	26.4	247.1	26.4	24.9	30.3	39.0	43.7	48.6	82.1	86.3	180.8	147.1	64.0	62.5	26.2	326.7	349.2	24.0	15.2	17.7	19.9
12	23.4	16.2	8.3	14.3	18.3	13.7	17.9	34.1	49.3	59.4	56.4	108.6	132.4	325.9	318.4	312.0	38.3	357.3	280.3	314.3	327.7	25.5	14.8	20.5
13	3.2	8.4	2.0	15.3	9.8	15.9	29.5	47.0	53.5	63.7	42.9	45.3	52.2	168.8	150.8	49.6	47.9	236.0	291.5	4.1	14.4	8.7	348.4	220.3
14	213.9	316.3	7.4	26.3	6.5	29.1	36.7	37.3	123.5	151.3	154.2	171.6	179.2	143.0	138.8	117.5	102.2	82.9	83.5	71.5	117.4	123.3	59.3	317.7
15	278.5	253.3	241.8	254.5	12.7	33.8	335.0	39.4	39.0	60.1	116.0	170.1	187.3	207.3	212.2	215.2	211.1	210.6	200.8	190.2	134.2	10.4	348.3	280.7
16	346.6	293.3	320.0	320.1	320.2	317.7	323.8	29.5	62.0	53.8	66.1	71.0	143.0	169.2	180.9	208.3	216.0	214.9	211.0	218.8	235.2	239.1	230.2	257.7
17	22.3	22.9	24.0	22.2	21.7	31.3	29.7	32.6	28.1	30.4	36.4	111.3	118.4	120.6	133.8	136.2	145.8	190.2	289.8	169.6	195.1	156.7	335.6	350.8
18	13.8	24.1	26.5	28.3	29.5	35.1	39.5	69.7	163.7	113.0	109.2	138.2	160.4	105.6	146.5	27.5	69.6	114.8	170.2	157.7	145.3	131.1	23.4	300.8
19	309.0	301.7	315.1	320.5	323.4	332.8	48.1	36.0	36.9	50.0	197.2	173.9	152.0	100.3	29.1	94.5	71.8	64.3	4.4	352.2	349.1	22.2	348.0	20.9
20	16.2	6.9	9.1	18.5	18.3	8.5	7.5	7.9	6.7	11.2	10.3	10.2	18.6	25.3	26.1	19.5	14.0	3.3	27.8	23.8	14.6	345.2	335.0	28.3
21	11.5	32.6	2.8	42.5	10.0	20.7	35.2	42.0	325.8	312.8	319.2	323.3	317.0	311.1	127.5	175.7	156.9	180.9	303.8	302.6	308.6	311.1	313.3	316.1
22	326.8	8.6	12.4	6.2	18.0	21.6	34.4	43.6	46.3	51.7	120.5	197.6	53.0	316.4	322.7	319.7	320.4	317.5	318.2	315.1	331.0	19.1	10.1	19.3
23	18.5	24.5	18.4	244.3	10.6	28.0	52.1	40.4	177.4	183.6	185.9	169.9	187.7	202.5	191.2	189.0	190.0	201.1	212.8	337.9	313.7	11.6	19.1	20.1
24	18.8	18.5	23.8	24.8	344.0	26.9	27.7	37.1	132.1	210.0	214.1	199.0	203.9	172.0	198.8	204.0	197.7	205.0	292.6	178.5	354.0	25.2	27.8	23.9
25	25.9	19.0	354.1	214.9	34.7	30.0	41.1	74.0	54.5	167.9	207.9	216.0	205.8	177.2	169.2	172.9	159.5	167.7	24.6	314.6	14.9	22.9	25.6	23.7
26	24.9	26.2	21.7	16.2	18.8	13.2	29.6	32.2	38.7	75.5	208.2	205.1	206.7	207.2	194.6	205.7	195.5	217.8	215.2	228.4	7.4	20.0	23.6	28.4
27	32.4	22.9	240.1	231.9	19.5	14.3	24.0	30.5	32.1	43.7	55.8	209.8	201.5	210.2	210.5	205.3	205.1	218.7	226.3	230.0	16.3	24.5	28.6	26.4
28	36.2	34.0	5.1	22.8	34.3	32.6	42.5	134.1	194.8	207.6	209.2	210.6	208.8	208.9	210.0	212.0	209.7	205.7	209.5	224.2	247.6	244.3	226.3	227.9
29	248.2	38.9	8.5	265.5	303.9	22.7	35.1	40.5	215.1	192.7	188.1	184.1	185.5	201.4	174.7	146.1	53.9	96.0	224.4	231.7	247.0	254.3	297.0	297.9
30	282.0	337.9	20.8	30.2	30.8	40.0	35.9	98.1	135.4	125.7	52.5	86.5	77.8	224.2	276.5	238.1	219.7	46.8	143.4	336.8	272.1	282.2	153.3	110.8
31	346.6	14.7	26.1	30.9	24.8	15.0	19.5	28.3	50.9	182.0	156.3	186.8	189.1	191.6	197.9	193.1	211.0	203.6	191.6	180.7	165.5	170.0	216.7	198.7

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	357.3	302.9	13.2	335.2	15.3	15.3	49.5	62.3	158.9	159.7	160.3	157.7	137.0	177.0	182.8	169.5	178.6	176.0	190.1	221.6	229.3	224.4	14.9	22.8
2	34.9	16.7	30.7	14.1	15.0	15.2	43.6	51.5	45.5	36.6	36.3	39.4	43.7	12.8	105.3	106.1	118.9	136.8	354.6	289.4	339.6	355.9	339.3	13.1
3	11.1	4.7	48.4	164.1	192.6	131.6	309.7	309.3	53.5	92.2	343.3	287.2	181.2	156.9	200.1	200.0	199.2	124.6	94.6	91.8	174.1	184.4	185.4	288.7
4	304.9	310.3	332.7	10.9	11.7	38.4	40.0	55.5	67.1	117.5	137.9	176.8	196.3	164.0	163.7	177.1	188.2	215.4	228.0	228.9	242.2	253.3	14.1	27.0
5	25.9	29.2	25.5	22.6	341.6	42.3	39.2	45.0	87.9	139.0	201.9	207.1	187.5	186.2	189.1	193.6	191.6	196.9	197.7	222.5	218.5	223.5	248.4	335.9
6	29.8	29.8	25.5	22.1	32.5	38.3	44.3	70.0	197.1	164.5	202.4	190.7	178.0	198.9	209.6	209.2	193.3	212.4	265.0	314.9	336.8	10.3	345.7	355.9
7	358.7	8.9	358.0	27.3	3.9	5.1	14.6	322.3	12.8	350.6	336.2	89.1	174.5	329.6	341.6	90.9	9.7	326.1	293.5	279.8	13.1	326.4	339.2	344.1
8	322.9	3.0	356.2	347.5	342.4	353.3	349.3	354.7	353.4	1.0	5.8	5.5	15.1	11.2	9.9	14.4	18.6	16.7	14.3	10.0	10.4	11.7	12.0	12.0
9	10.4	11.5	13.4	16.6	16.7	16.8	14.4	14.3	12.3	13.1	11.8	16.4	15.4	12.9	8.3	16.6	12.1	66.8	18.5	3.1	9.5	350.7	344.1	310.2
10	4.6	5.5	341.4	6.4	37.5	25.9	14.6	12.3	28.7	77.4	70.5	294.5	31.2	339.5	350.1	56.3	24.6	3.2	11.0	333.6	337.7	349.6	346.7	335.3
11	295.1	356.0	320.8	5.8	10.2	11.5	354.5	356.1	352.1	4.5	6.6	9.1	6.0	11.7	9.8	10.2	3.3	3.5	6.7	349.2	354.4	357.1	354.0	355.8
12	351.9	2.2	356.0	1.4	355.8	3.9	4.7	11.1	28.3	6.6	20.1	187.5	199.2	69.5	171.6	190.0	168.8	239.4	216.5	220.2	222.2	243.2	265.8	236.9
13	5.2	340.2	342.6	294.9	136.0	218.2	206.8	35.4	19.9	151.4	208.4	201.5	205.9	205.3	204.8	209.7	197.9	186.9	184.2	185.0	193.2	192.6	215.6	299.9
14	313.1	33.1	15.7	25.7	250.2	293.9	6.2	31.5	18.3	209.2	200.9	186.0	206.7	204.5	206.8	191.8	40.0	31.8	31.3	14.9	347.1	19.2	13.5	11.1
15	14.9	10.8	15.9	2.5	16.9	263.7	26.8	148.7	193.9	180.3	194.3	207.4	197.4	209.5	203.2	203.1	218.3	218.1	235.5	225.8	199.5	342.8	347.5	338.3
16	304.3	28.5	43.3	237.6	210.1	205.3	207.6	212.5	204.3	205.7	206.9	206.5	198.8	166.3	233.7	225.3	221.9	226.7	257.2	239.4	33.1	27.8	37.0	35.1
17	37.6	32.8	228.2	235.4	209.7	218.7	214.4	218.0	211.8	211.5	213.5	231.2	251.8	217.7	223.8	224.3	217.4	213.8	215.9	224.1	209.1	20.7	26.2	26.8
18	28.2	16.5	28.8	27.9	18.2	24.5	22.1	13.7	7.2	14.1	15.8	12.3	14.7	11.0	10.7	1.1	350.0	8.2	7.3	17.0	7.7	23.7	25.3	23.1
19	19.1	11.2	7.6	6.4	16.8	17.0	17.3	15.9	19.4	12.8	14.3	23.2	29.4	25.8	28.0	43.2	214.9	217.5	224.9	228.2	216.4	6.7	24.7	27.7
20	22.7	11.5	0.1	216.4	24.9	202.4	41.8	203.4	212.0	210.6	212.6	229.7	146.9	180.9	6.1	335.6	333.7	268.6	224.7	241.6	260.4	250.3	247.5	294.2
21	25.4	26.8	23.4	28.6	21.6	29.8	32.1	30.0	36.9	77.5	191.0	204.9	201.8	207.2	207.3	200.0	205.6	205.4	192.6	206.1	207.6	202.6	196.0	315.8
22	268.9	208.6	234.8	268.1	10.7	22.2	7.2	291.1	133.6	325.8	358.0	4.0	40.0	332.0	266.2	64.4	302.7	278.7	278.3	265.4	265.7	284.6	289.4	24.9
23	28.4	26.9	28.0	22.2	234.0	220.3	214.8	29.2	38.9	41.4	63.6	193.9	184.4	207.0	212.0	212.9	212.3	214.4	212.6	217.0	214.3	224.5	225.7	263.6
24	248.0	324.8	21.3	26.1	25.2	36.5	33.4	41.7	70.0	165.5	192.1	196.9	211.1	220.0	212.6	217.8	219.5	211.4	207.8	211.7	201.4	176.4	356.2	26.0
25	29.1	16.2	14.1	325.4	34.4	27.0	45.6	205.5	209.9	223.2	217.3	205.6	210.8	211.0	210.8	215.8	211.1	215.0	204.3	198.8	235.1	241.5	255.2	275.7
26	253.2	264.9	273.1	284.2	340.6	30.0	28.1	52.4	108.0	172.7	137.1	138.1	116.8	149.5	148.0	77.8	140.2	147.2	197.1	155.8	301.2	258.7	354.1	7.0
27	356.3	16.0	247.6	349.9	195.0	37.8	45.6	155.2	190.4	166.4	174.7	178.7	181.8	193.5	205.5	208.9	214.2	208.7	211.4	230.5	333.8	309.9	299.7	308.8
28	305.4	305.6	295.8	308.9	309.2	314.8	319.4	317.8	323.9	332.1	326.1	338.0	325.4	176.8	178.4	141.2	175.1	130.8	162.5	156.9	125.5	142.8	72.2	97.6
29	70.4	106.3	11.8	31.7	38.5	324.1	331.9	344.0	64.2	153.8	199.7	167.5	206.5	184.0	246.0	317.0	358.7	90.1	2.0	33.5	311.2	216.8	332.8	332.3
30	350.5	15.2	19.9	22.2	359.9	18.0	13.6	20.7	27.7	33.1	131.7	165.1	182.5	184.8	188.6	187.6	200.5	204.3	195.9	253.0	293.7	314.1	323.8	322.8

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Resultant Wind Direction (RM Young) (Degrees)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400
1	0.4	12.9	6.0	30.5	1.9	7.7	52.1	63.0	84.0	158.2	167.6	185.6	181.7	179.7	176.6	191.3	200.0	209.9	216.2	236.8	57.1	40.9	56.2	304.0
2	303.1	314.2	302.4	348.7	14.2	20.2	35.2	41.7	56.4	63.3	133.9	134.0	186.3	188.5	195.8	255.3	358.4	72.2	77.5	104.0	14.7	1.4	217.9	216.5
3	225.7	213.6	194.6	240.1	358.6	123.3	132.2	118.2	126.4	113.8	130.2	150.3	174.6	180.1	182.6	188.7	190.5	186.4	211.5	227.2	216.3	237.2	251.6	246.8
4	279.8	320.5	318.4	347.6	338.5	36.4	58.0	89.7	159.2	173.4	202.6	188.6	178.2	194.4	192.9	199.9	211.1	215.0	209.6	194.1	195.9	204.9	243.2	252.8
5	353.7	35.5	137.5	153.4	145.1	327.7	114.7	136.2	145.7	127.9	126.3	143.8	166.5	175.5	168.8	188.3	193.1	189.8	192.6	152.0	212.3	163.6	158.6	155.9
6	208.7	0.9	312.7	243.4	171.6	193.4	153.1	139.9	133.9	131.6	157.6	171.8	184.1	189.9	195.2	201.0	214.3	202.8	211.1	236.1	164.3	273.9	322.1	336.0
7	340.6	334.1	346.8	316.0	335.4	268.4	238.8	223.4	179.1	152.8	158.4	133.7	27.9	41.4	122.4	105.0	359.3	294.2	156.0	208.5	4.1	232.3	22.4	29.2
8	23.0	21.2	6.0	15.2	322.0	7.2	26.5	150.3	53.1	320.3	319.0	316.5	318.9	319.0	316.4	221.9	168.9	186.8	310.3	312.9	311.3	315.4	355.9	354.3
9	355.5	2.0	357.2	9.3	17.2	17.5	28.0	53.0	180.6	188.6	202.5	206.0	208.7	209.9	210.8	210.9	343.7	169.6	223.3	221.6	280.5	261.0	329.3	315.7
10	324.0	354.0	331.4	342.5	351.4	337.1	315.0	102.8	196.3	223.1	212.4	192.8	188.7	237.4	244.5	263.4	289.3	240.2	172.4	23.2	17.6	354.9	11.9	218.5
11	262.3	217.3	166.0	277.8	287.1	242.7	236.2	228.5	215.1	46.5	19.1	17.6	8.5	216.8	214.0	223.4	216.0	206.7	194.2	192.1	218.2	213.3	332.1	274.6
12	264.5	8.0	14.2	20.0	30.8	26.9	32.9	39.3	49.4	50.5	141.6	191.4	180.6	199.2	206.8	197.3	172.9	335.5	318.5	327.2	107.9	299.2	11.4	21.3
13	8.0	304.6	326.5	37.4	330.9	294.4	281.6	17.0	302.8	312.9	304.2	315.0	320.1	318.7	315.1	307.0	309.2	306.8	310.6	314.3	313.1	307.1	281.8	292.8
14	304.5	310.0	297.3	294.3	301.7	335.7	17.3	294.7	293.4	293.3	309.7	314.9	322.4	319.2	319.2	304.8	54.9	119.4	164.4	117.5	184.3	189.1	199.0	195.3
15	193.3	211.8	206.2	205.1	203.8	198.1	197.0	192.2	145.1	169.7	137.3	121.3	253.8	199.4	211.1	208.7	216.6	204.5	280.3	242.3	158.8	332.8	315.0	5.8
16	342.5	348.7	10.2	28.9	38.2	23.6	15.9	351.7	342.6	353.9	295.8	357.2	28.5	100.1	100.8	119.8	82.5	87.5	43.8	25.0	87.1	32.9	4.5	355.8
17	346.6	338.0	347.5	357.3	344.8	335.0	358.4	359.3	300.5	336.4	15.4	323.8	7.8	15.4	9.1	20.6	0.8	356.9	16.1	22.5	17.1	1.7	21.7	10.7
18	351.0	11.7	18.1	13.8	10.0	23.3	7.6	13.8	53.3	135.7	107.5	80.8	50.0	79.6	52.2	351.0	119.1	172.6	171.0	326.5	348.6	310.1	261.7	339.5
19	334.9	354.7	326.1	350.2	357.2	1.7	5.4	6.3	12.6	24.2	27.7	29.2	23.7	25.5	25.5	29.0	20.1	17.0	18.7	7.6	334.7	233.0	321.8	7.0
20	21.8	3.5	20.0	17.5	23.7	20.3	26.3	22.0	24.6	21.7	21.2	25.9	23.1	19.1	22.8	24.6	15.9	7.3	15.5	13.8	245.8	221.9	221.7	27.6
21	32.2	19.0	24.3	283.3	237.2	19.0	11.5	23.4	24.6	22.2	19.3	24.1	25.6	20.9	19.0	44.9	217.5	212.6	207.5	36.7	4.2	228.6	229.2	242.4
22	217.2	214.9	215.2	218.3	23.5	21.1	20.6	16.6	16.2	9.7	14.8	11.8	8.3	14.1	204.4	215.7	197.6	303.9	335.2	6.1	5.1	5.7	0.6	16.0
23	10.4	19.6	1.8	112.6	139.4	30.9	358.6	5.2	356.7	2.4	13.1	9.8	14.0	14.2	10.3	4.8	113.2	60.4	7.2	8.0	9.3	9.8	6.8	0.1
24	349.2	1.6	8.0	15.2	10.7	15.8	16.0	21.8	15.2	10.5	6.6	14.1	359.1	292.2	223.5	223.1	264.9	316.0	309.8	296.9	333.6	38.1	355.2	354.9
25	8.0	18.7	11.6	8.9	40.2	14.9	327.6	177.1	158.7	202.4	190.7	176.0	170.3	41.7	31.7	32.7	13.4	215.3	212.4	215.4	309.6	5.4	8.3	3.2
26	20.4	27.0	29.8	359.1	8.3	19.3	23.7	322.4	16.4	359.0	318.7	294.4	296.9	301.9	305.1	297.5	305.7	307.4	300.7	306.5	307.4	309.6	310.8	317.8
27	320.1	317.9	320.8	320.1	319.5	342.0	46.6	57.9	57.0	47.5	63.4	56.9	115.9	174.1	181.0	184.0	195.6	200.3	214.7	213.7	213.5	253.5	29.1	30.5
28	40.0	224.8	253.2	27.2	28.9	35.1	32.7	36.9	43.2	52.3	178.9	183.2	191.7	210.0	210.3	209.4	197.2	197.0	199.0	176.5	78.7	63.2	137.9	169.1
29	50.7	164.6	202.3	203.1	198.2	200.4	199.1	195.7	193.2	193.2	190.0	192.4	187.2	196.6	189.5	56.0	58.7	73.8	181.9	178.6	168.4	169.9	138.0	62.5
30	141.3	99.7	116.8	181.0	189.3	184.6	163.7	153.5	160.0	176.8	309.3	53.4	301.4	8.1	306.6	339.6	140.8	138.6	128.9	173.4	148.3	186.4	145.3	120.5
31	287.6	311.8	311.0	309.0	312.4	324.6	344.8	317.0	310.8	311.5	241.7	154.1	119.5	76.3	39.1	42.4	289.0	326.8	299.5	290.1	312.9	315.7	316.0	302.7

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

August 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	5.5	21.7	17.9	50.6	45.0	43.5	55.1	34.1	30.1	26.9	14.0	23.7	7.7	9.3	18.5	9.0	17.5	33.7	14.5	27.1	24.3	34.1	44.7	21.5	55.1	5.5	26.2
2	32.0	31.2	24.1	19.4	7.6	8.4	8.3	10.9	9.1	9.3	10.1	11.9	10.3	9.4	10.0	10.1	9.1	9.3	9.2	9.7	9.6	10.5	10.0	9.1	32.0	7.6	12.4
3	9.5	9.7	9.9	8.8	8.3	12.7	10.7	18.4	51.6	34.3	36.5	84.4	46.4	32.0	17.1	42.3	27.5	16.8	41.7	40.3	13.2	27.6	39.3	37.3	84.4	8.3	28.2
4	43.4	70.4	23.4	60.0	20.8	7.6	6.2	48.5	6.7	5.5	8.4	22.3	6.5	5.3	4.0	6.3	4.2	24.3	38.9	61.8	44.7	70.2	38.3	47.8	70.4	4.0	28.1
5	26.1	27.7	27.9	20.6	13.7	18.6	19.3	16.0	17.1	16.2	18.9	40.1	52.4	30.5	67.8	32.2	43.4	13.4	12.9	12.7	18.0	23.4	15.5	14.6	67.8	12.7	25.0
6	14.9	15.2	14.3	13.9	13.3	13.2	15.0	14.9	16.4	46.2	29.6	31.5	45.2	28.5	40.5	26.5	10.4	43.8	68.5	76.7	60.2	68.2	70.2	43.6	76.7	10.4	34.2
7	66.8	71.8	49.1	56.2	68.3	75.7	58.3	62.3	35.1	31.5	44.7	33.7	24.0	22.8	30.3	18.2	21.5	26.1	23.1	15.6	27.3	28.8	20.2	15.0	75.7	15.0	38.6
8	15.0	13.5	10.5	12.1	10.3	8.5	9.1	6.0	6.3	16.1	5.2	6.9	5.7	5.6	4.8	4.2	4.2	10.6	11.8	51.3	26.5	48.1	10.4	9.2	51.3	4.2	13.0
9	18.1	15.4	11.5	15.8	40.6	38.7	5.0	4.6	21.4	5.8	12.8	6.2	6.6	6.3	21.6	13.6	6.3	10.5	12.8	13.8	10.7	25.0	48.9	44.1	48.9	4.6	17.3
10	41.3	6.5	50.5	40.0	52.7	42.5	6.8	4.8	36.9	5.7	10.5	13.9	9.2	9.3	9.4	5.8	6.3	5.6	10.0	11.8	13.4	18.7	22.1	22.2	52.7	4.8	19.0
11	35.7	17.9	60.0	70.1	44.0	60.1	35.4	8.0	9.8	8.3	6.0	4.3	4.2	4.8	4.5	4.3	6.4	9.8	10.4	49.4	15.6	8.6	10.3	15.9	70.1	4.2	21.0
12	51.2	42.6	52.4	17.9	10.5	11.2	44.5	28.1	24.2	5.2	4.9	5.6	4.1	4.1	5.1	4.0	6.7	9.2	10.1	10.4	10.9	11.8	7.9	12.6	52.4	4.0	16.5
13	32.6	22.8	26.7	17.8	17.6	27.3	25.7	38.8	11.5	15.1	29.7	14.8	9.1	10.2	12.5	12.3	9.0	8.5	9.0	10.5	16.6	11.7	9.4	12.9	38.8	8.5	17.2
14	27.4	20.4	25.0	19.6	20.4	15.7	17.4	23.5	18.0	14.3	10.3	9.4	12.3	11.7	7.5	8.4	8.1	7.7	9.8	11.4	21.1	15.9	11.8	15.6	27.4	7.5	15.1
15	24.9	29.2	27.4	36.4	15.4	44.6	16.1	12.5	19.3	11.7	50.4	27.9	52.1	43.9	9.4	9.9	7.0	10.3	12.2	21.8	16.2	13.5	11.1	47.8	52.1	7.0	23.8
16	23.5	8.5	9.9	14.8	56.7	7.6	11.8	7.3	8.1	9.7	32.0	41.4	27.3	35.9	40.6	29.6	71.4	59.9	66.5	49.8	32.2	51.9	54.3	55.8	71.4	7.3	33.6
17	54.8	11.7	9.8	9.4	9.2	10.7	13.4	11.1	11.7	11.6	10.9	13.0	9.8	10.2	8.9	10.3	10.0	10.0	10.1	9.8	11.4	9.9	9.2	9.5	54.8	8.9	12.3
18	9.6	11.3	11.1	11.6	10.1	8.2	9.2	9.0	6.9	34.2	21.8	13.3	4.8	5.3	6.0	5.7	6.9	5.6	13.1	20.3	37.2	35.8	54.9	49.4	54.9	4.8	16.7
19	19.2	32.1	63.5	23.1	56.7	23.2	10.3	9.0	11.6	27.3	18.0	13.6	15.4	18.5	30.9	37.8	26.4	36.6	62.5	71.6	48.4	21.8	57.9	44.3	71.6	9.0	32.5
20	41.2	59.3	19.3	20.0	63.8	70.2	70.1	38.4	44.0	28.4	52.1	43.3	55.2	46.1	51.9	54.2	61.3	52.8	62.0	60.5	19.0	16.0	11.7	18.4	70.2	11.7	44.1
21	21.1	35.1	22.1	21.3	13.3	24.8	19.4	10.2	15.9	55.4	40.1	46.8	64.7	56.7	56.0	42.8	56.9	68.0	77.1	26.3	56.1	44.1	53.6	63.3	77.1	10.2	41.3
22	79.1	28.0	39.7	43.2	12.2	7.3	12.9	11.5	9.2	21.0	42.2	49.2	37.4	61.3	57.3	16.2	33.0	30.2	29.4	37.5	24.2	32.0	33.9	34.5	79.1	7.3	32.6
23	39.9	21.7	11.5	17.2	27.1	29.1	65.2	76.1	34.6	14.3	38.2	54.7	39.8	47.7	11.6	22.3	30.4	35.7	61.2	25.5	19.1	41.3	48.3	24.3	76.1	11.5	34.9
24	8.9	21.1	31.7	7.7	6.2	7.1	29.8	11.8	40.7	13.9	17.9	9.7	11.5	18.4	38.2	29.1	41.6	26.9	30.1	23.6	35.8	44.1	60.8	58.0	60.8	6.2	26.0
25	68.3	71.0	41.6	34.2	66.3	72.2	45.1	22.8	42.4	33.9	13.1	20.5	22.8	10.0	5.1	5.4	7.0	8.4	10.6	24.3	31.1	46.2	53.7	8.4	72.2	5.1	31.8
26	6.5	35.4	34.1	19.3	21.0	23.4	25.0	13.3	7.7	11.4	23.2	34.0	29.6	27.9	13.2	19.0	24.9	48.7	58.2	63.6	44.2	50.6	30.7	23.2	63.6	6.5	28.7
27	15.3	15.9	13.6	18.7	22.3	20.9	28.9	20.1	18.6	30.5	28.2	56.9	48.3	35.6	48.7	45.8	50.1	56.8	66.3	55.4	17.2	16.4	15.4	22.0	66.3	13.6	32.0
28	26.2	50.2	53.9	66.0	30.8	38.4	11.1	28.6	11.5	49.7	30.0	26.2	9.5	8.6	13.4	31.3	6.3	17.2	38.5	20.7	14.7	22.1	21.8	21.9	66.0	6.3	27.0
29	19.3	15.9	15.4	22.7	23.5	18.2	15.9	23.4	19.3	16.2	19.3	19.9	17.5	16.6	22.3	19.5	20.2	26.4	19.6	25.5	35.1	29.1	39.2	59.4	59.4	15.4	23.3
30	45.5	30.5	61.3	54.6	17.2	18.6	16.1	30.2	27.2	27.0	34.7	42.7	58.2	37.0	58.5	65.9	23.8	18.5	31.4	54.1	16.7	12.3	13.9	18.7	65.9	12.3	33.9
31	22.8	18.6	18.0	18.8	19.9	22.6	43.3	43.3	22.6	37.8	59.3	62.3	65.3	55.0	36.7	33.9	58.7	57.2	57.3	56.7	29.0	13.4	12.0	15.5	65.3	12.0	36.7
Max.	**79.1**	**71.8**	**63.5**	**70.1**	**68.3**	**75.7**	**70.1**	**76.1**	**51.6**	**55.4**	**59.3**	**84.4**	**65.3**	**61.3**	**67.8**	**65.9**	**71.4**	**68.0**	**77.1**	**76.7**	**60.2**	**70.2**	**70.2**	**63.3**	**84.4**		
Min.	**5.5**	**6.5**	**9.8**	**7.7**	**6.2**	**7.1**	**5.0**	**4.6**	**6.3**	**5.2**	**4.9**	**4.3**	**4.1**	**4.1**	**4.0**	**4.0**	**4.2**	**5.6**	**9.0**	**9.7**	**9.6**	**8.6**	**7.9**	**8.4**		**4.0**	
Avg.	**30.5**	**28.5**	**28.6**	**27.8**	**27.2**	**26.8**	**24.5**	**22.5**	**20.8**	**21.7**	**24.9**	**28.5**	**26.2**	**23.4**	**24.6**	**21.8**	**23.1**	**25.8**	**31.9**	**33.8**	**25.8**	**29.1**	**30.4**	**28.9**			**26.6**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

September 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	13.6	15.4	31.2	21.6	16.7	19.2	17.0	11.1	7.1	9.0	12.0	39.6	33.3	23.8	54.3	48.9	16.3	16.4	15.1	30.3	71.7	44.3	13.5	16.8	71.7	7.1	24.9
2	7.1	9.9	6.5	7.3	6.6	8.1	23.0	6.9	4.7	4.1	30.6	11.3	23.3	20.0	29.5	35.4	19.6	31.0	52.0	39.5	31.9	47.0	63.3	48.9	63.3	4.1	23.6
3	42.1	65.3	62.0	33.8	25.6	24.1	15.4	10.4	9.9	10.0	11.3	13.4	14.9	13.7	20.3	10.2	10.3	9.5	9.4	9.8	9.9	8.9	9.7	8.9	65.3	8.9	19.1
4	9.3	10.3	11.7	11.0	12.5	12.4	10.8	10.4	9.9	8.5	8.0	6.0	6.5	7.6	6.9	7.4	12.6	18.5	6.8	5.3	10.7	41.1	46.6	12.1	46.6	5.3	12.6
5	14.4	32.0	20.3	31.5	5.9	7.0	21.2	6.2	9.2	8.3	8.2	33.0	48.0	46.1	57.2	72.0	82.3	52.9	27.4	7.6	8.9	6.9	7.6	7.6	82.3	5.9	25.9
6	5.3	5.9	6.3	6.3	8.6	45.0	63.9	34.6	47.4	19.4	12.8	17.6	23.0	16.7	18.7	28.8	67.0	37.1	65.0	18.5	18.8	19.1	22.4	53.7	67.0	5.3	27.6
7	21.1	25.2	15.9	9.7	27.4	22.0	19.7	14.8	13.1	23.3	36.7	54.0	55.9	28.1	78.9	49.0	61.0	41.7	39.0	39.3	32.2	51.1	52.4	37.5	78.9	9.7	35.4
8	54.5	38.5	28.5	25.2	17.3	18.9	17.5	32.0	7.5	8.9	5.2	19.6	15.8	33.8	14.8	24.2	26.6	13.2	27.8	47.8	69.9	54.1	15.6	32.3	69.9	5.2	27.1
9	22.1	9.1	10.3	10.9	16.8	16.8	22.9	31.7	36.8	51.4	28.3	35.9	50.8	44.1	58.4	37.1	25.9	32.3	7.2	17.1	56.0	60.8	64.6	51.8	64.6	7.2	33.3
10	35.1	51.4	44.6	35.0	16.4	18.1	10.6	10.3	23.2	36.7	61.0	49.2	46.4	57.1	43.8	42.6	42.5	33.0	27.1	16.1	23.8	48.2	15.6	15.7	61.0	10.3	33.5
11	30.6	8.3	16.6	14.8	8.7	7.5	7.0	8.8	29.2	32.0	13.4	11.6	11.0	8.9	9.1	13.3	18.1	31.1	29.0	32.5	54.3	70.2	55.7	58.4	70.2	7.0	24.2
12	41.8	65.3	34.8	13.3	27.8	61.8	51.7	43.9	55.4	43.9	19.4	17.2	17.2	27.2	17.1	12.6	22.3	31.0	26.9	17.7	24.7	17.2	23.4	19.9	65.3	12.6	30.6
13	22.3	21.9	16.0	42.3	60.5	35.5	59.8	33.8	53.5	49.6	38.9	59.3	62.4	47.1	26.6	23.4	27.1	25.8	18.0	18.9	16.3	60.6	28.3	48.4	62.4	16.0	37.3
14	56.9	21.4	51.0	68.9	42.6	64.4	31.4	33.9	5.3	4.5	32.5	12.9	20.1	10.1	36.0	13.9	18.3	17.7	41.0	54.8	57.9	46.9	73.9	57.3	73.9	4.5	36.4
15	45.9	62.4	69.3	38.9	71.4	67.1	57.2	52.1	69.1	27.3	28.4	23.1	53.3	56.6	57.5	72.3	75.9	74.6	69.1	67.0	23.2	9.1	7.8	9.7	75.9	7.8	49.5
16	9.0	9.2	18.1	27.9	45.2	64.3	56.0	71.8	47.9	32.0	26.3	60.8	78.0	61.5	49.6	45.3	37.0	36.9	59.8	64.5	63.3	61.9	57.8	75.8	78.0	9.0	48.3
17	53.5	22.8	29.2	10.4	8.2	6.7	7.4	8.7	8.5	9.8	8.2	6.6	11.3	22.4	43.7	59.8	40.2	16.6	12.5	49.5	11.5	26.8	47.8	19.5	59.8	6.6	22.6
18	16.1	21.6	15.7	15.0	24.2	25.8	25.1	55.0	58.1	65.6	47.4	54.0	46.3	63.2	41.4	33.9	43.2	59.9	45.7	58.5	43.3	48.3	73.1	51.6	73.1	15.0	43.0
19	77.2	46.1	55.2	65.7	61.4	54.3	46.2	55.2	51.0	61.6	79.7	64.3	49.6	36.5	42.0	42.1	40.6	55.0	52.8	32.0	40.6	24.2	17.7	20.0	79.7	17.7	48.8
20	16.4	14.4	14.8	17.3	18.7	21.2	45.2	45.6	43.7	38.5	34.6	40.2	57.9	37.6	34.5	59.6	47.9	42.5	47.5	45.9	45.7	42.1	52.4	67.0	67.0	14.4	38.8
21	60.8	56.5	34.4	31.1	25.6	35.8	25.5	43.6	31.1	19.6	18.0	8.2	42.6	37.5	39.5	18.0	8.1	7.8	10.1	8.6	10.4	29.7	50.4	9.4	60.8	7.8	27.6
22	8.0	22.8	7.0	6.4	6.8	11.0	9.9	15.9	28.3	32.1	29.1	49.4	74.4	60.6	68.8	76.1	29.2	12.4	8.9	7.2	29.0	45.0	51.6	77.6	77.6	6.4	32.0
23	56.6	69.3	40.8	45.1	26.5	52.1	53.2	55.3	37.8	29.5	28.1	9.8	28.5	56.4	51.8	64.9	62.3	52.3	49.6	21.7	8.8	19.2	23.9	14.5	69.3	8.8	39.9
24	14.5	13.8	23.6	21.4	27.2	35.0	24.0	17.9	23.6	28.7	23.1	13.9	12.3	18.4	31.7	35.5	32.5	27.4	15.0	20.4	18.0	12.4	24.8	26.8	35.5	12.3	22.6
25	18.6	18.9	10.8	10.7	17.3	15.4	14.8	11.6	17.5	15.8	22.4	20.4	16.4	16.9	14.9	28.4	19.5	30.0	20.5	19.7	28.6	66.3	45.3	58.2	66.3	10.7	23.3
26	45.5	29.8	31.4	33.6	27.0	7.5	6.5	8.1	31.1	27.6	21.2	39.5	55.1	62.2	15.9	19.1	15.3	14.6	11.3	10.5	12.9	13.5	11.9	10.9	62.2	6.5	23.4
27	10.5	10.4	10.4	9.8	10.4	11.3	10.7	11.5	10.9	9.5	9.0	8.9	9.2	9.3	9.8	9.9	9.2	9.4	8.9	9.5	9.2	9.4	8.6	8.4	11.5	8.4	9.7
28	7.9	6.4	6.6	7.7	9.1	35.3	28.4	19.2	82.8	41.2	51.8	34.0	25.4	10.4	32.6	6.4	5.4	46.2	38.5	13.5	21.3	17.6	26.0	23.0	82.8	5.4	24.9
29	16.2	39.8	44.4	43.3	73.1	50.0	51.7	41.6	39.2	38.7	51.3	55.6	64.6	30.0	34.8	30.1	32.6	28.1	31.6	25.9	26.9	22.2	24.9	19.7	73.1	16.2	38.2
30	26.0	26.1	22.1	28.6	36.0	34.1	28.9	36.6	46.8	52.9	62.2	58.4	41.5	49.1	32.3	45.2	35.1	24.0	13.4	14.9	13.9	16.2	14.7	15.6	62.2	13.4	32.3
Max.	**77.2**	**69.3**	**69.3**	**68.9**	**73.1**	**67.1**	**63.9**	**71.8**	**82.8**	**65.6**	**79.7**	**64.3**	**78.0**	**63.2**	**78.9**	**76.1**	**82.3**	**74.6**	**69.1**	**67.0**	**71.7**	**70.2**	**73.9**	**77.6**	**82.8**		
Min.	**5.3**	**5.9**	**6.3**	**6.3**	**5.9**	**6.7**	**6.5**	**6.2**	**4.7**	**4.1**	**5.2**	**6.0**	**6.5**	**7.6**	**6.9**	**6.4**	**5.4**	**7.8**	**6.8**	**5.3**	**8.8**	**6.9**	**7.6**	**7.6**		**4.1**	
Avg.	**28.6**	**28.3**	**26.3**	**24.8**	**26.0**	**29.6**	**28.7**	**27.9**	**31.3**	**28.0**	**28.6**	**30.9**	**36.5**	**33.8**	**35.7**	**35.5**	**32.8**	**31.0**	**29.6**	**27.5**	**29.8**	**34.7**	**34.4**	**32.6**			**30.5**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

October 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	14.7	13.8	17.6	18.8	16.8	25.2	35.1	40.6	34.9	30.7	32.0	38.4	67.3	47.8	58.5	35.9	38.8	38.9	44.0	53.5	45.2	58.4	55.9	71.8	71.8	13.8	38.9
2	39.5	63.3	47.7	68.6	65.8	59.5	67.9	36.7	53.7	41.5	65.2	33.2	63.4	46.6	55.9	36.5	37.2	43.0	61.8	43.9	23.4	15.2	23.6	9.5	68.6	9.5	45.9
3	9.4	11.3	8.1	9.9	9.7	8.5	23.5	45.9	9.8	6.4	11.1	12.1	11.5	10.3	10.3	8.6	10.6	11.5	11.4	10.9	14.2	13.0	21.5	11.5	45.9	6.4	13.0
4	11.7	12.9	12.2	11.0	10.3	9.2	9.8	9.8	10.7	11.0	10.4	10.3	9.8	10.3	9.8	10.3	10.2	9.5	9.8	9.5	9.4	8.8	9.0	9.0	12.9	8.8	10.2
5	8.3	9.3	9.5	9.2	8.6	8.6	9.6	10.7	8.9	11.3	9.9	10.9	11.3	47.1	50.6	19.4	11.8	10.0	8.7	7.9	7.2	7.9	6.3	7.4	50.6	6.3	12.9
6	13.3	8.3	10.3	10.0	9.1	7.8	9.7	13.8	9.4	7.8	6.4	17.0	17.0	26.0	40.1	61.3	33.3	34.5	13.3	12.4	13.1	6.8	6.7	8.1	61.3	6.4	16.5
7	8.2	13.0	28.3	20.0	36.6	32.6	11.3	16.0	17.4	18.4	13.6	9.9	10.1	12.9	13.4	11.9	9.6	9.9	9.9	17.1	14.4	10.7	9.6	7.8	36.6	7.8	15.1
8	7.9	9.5	11.9	37.9	41.1	52.7	49.4	28.8	22.3	19.5	15.3	36.2	13.0	21.0	10.1	16.8	16.0	10.7	17.3	11.9	7.7	6.9	8.1	7.0	52.7	6.9	20.0
9	26.5	12.7	33.5	50.6	42.8	42.0	10.9	10.7	13.6	12.4	12.3	23.4	18.1	31.3	18.6	15.9	14.7	19.2	18.8	23.8	23.0	14.9	22.5	22.4	50.6	10.7	22.3
10	19.1	16.0	15.7	15.1	34.3	28.3	38.6	43.2	44.5	19.6	8.6	13.4	7.1	7.3	5.9	7.7	34.7	25.5	9.7	9.9	10.2	13.1	18.9	43.9	44.5	5.9	20.4
11	47.9	27.9	12.3	11.3	12.2	9.5	12.2	10.8	8.8	51.0	4.6	10.3	42.6	41.2	49.8	48.9	61.5	67.7	59.1	58.2	54.6	51.1	58.4	43.7	67.7	4.6	35.6
12	40.8	53.8	50.4	51.1	50.1	55.6	51.8	48.5	42.2	54.6	33.2	51.3	52.7	56.7	68.8	45.2	47.1	40.8	46.4	37.6	32.4	47.6	18.1	18.4	68.8	18.1	45.6
13	15.5	19.8	39.9	40.1	48.0	30.7	14.4	13.9	10.4	8.2	11.6	38.6	54.3	44.9	62.5	54.6	52.2	27.2	48.7	57.0	55.7	49.6	56.3	28.6	62.5	8.2	36.8
14	13.1	15.8	15.5	16.2	20.0	16.4	18.9	9.8	7.1	6.3	9.7	7.2	5.4	9.6	29.5	50.2	51.0	43.7	26.1	71.1	57.7	35.1	12.6	12.4	71.1	5.4	23.3
15	13.9	12.2	11.8	11.4	11.0	9.4	10.0	10.3	8.1	9.7	7.5	7.5	5.6	6.0	22.3	4.2	5.8	20.4	63.8	58.6	68.1	35.6	50.6	68.9	68.9	4.2	22.2
16	26.1	18.1	38.9	66.3	29.6	23.0	35.5	65.7	61.1	36.3	45.5	31.4	37.5	30.9	24.4	40.6	61.0	53.1	57.6	42.8	19.6	33.2	48.1	12.3	66.3	12.3	39.1
17	7.7	9.1	10.7	8.9	9.4	34.9	23.5	17.5	50.5	27.5	10.5	10.3	7.7	48.4	33.8	21.5	27.4	33.0	21.5	24.0	11.0	10.9	11.6	10.5	50.5	7.7	20.1
18	8.4	12.0	10.7	11.2	18.8	17.4	14.3	14.0	13.5	17.4	22.7	35.9	35.8	43.8	64.4	55.1	35.0	33.7	43.2	13.9	47.7	17.1	15.5	18.4	64.4	8.4	25.8
19	8.3	7.6	7.6	7.4	8.3	8.7	37.8	12.2	11.9	14.2	16.5	17.7	18.6	17.0	25.3	50.0	74.2	71.8	72.7	73.9	76.5	58.6	45.4	20.0	76.5	7.4	31.8
20	45.3	21.1	21.1	19.9	18.7	17.0	13.0	10.3	10.8	10.7	10.0	11.3	10.4	11.3	11.0	11.0	9.9	10.1	9.3	9.3	10.1	10.0	11.5	10.2	45.3	9.3	13.9
21	7.6	11.0	12.4	15.4	11.8	10.8	17.6	24.4	40.1	37.0	25.6	12.6	15.4	6.9	8.9	9.0	25.7	74.2	59.1	23.2	17.1	57.4	56.2	38.4	74.2	6.9	25.7
22	63.6	35.4	53.3	82.4	57.1	22.1	20.6	16.5	16.3	31.3	32.8	59.5	53.6	51.9	28.9	27.6	26.2	37.4	45.3	37.6	32.9	42.7	29.0	40.9	82.4	16.3	39.4
23	30.0	30.0	42.1	37.4	38.8	34.8	54.6	54.5	51.7	63.2	55.4	63.7	39.7	30.3	26.8	35.4	28.3	16.8	14.0	9.4	15.7	7.8	7.0	7.3	63.7	7.0	33.1
24	9.1	6.4	40.0	72.0	6.6	10.6	22.4	25.5	23.6	24.2	15.8	15.5	14.2	33.1	16.0	14.3	14.6	24.3	20.0	15.1	16.2	17.8	18.5	21.6	72.0	6.4	20.7
25	24.3	20.7	20.3	28.3	45.4	27.2	14.9	14.9	16.5	24.8	10.5	9.7	8.1	8.9	14.0	10.2	22.6	23.7	21.1	20.3	25.9	27.6	18.1	27.3	45.4	8.1	20.2
26	25.7	23.6	20.8	22.0	28.5	27.3	24.1	26.6	23.2	12.6	7.7	11.9	7.8	9.4	8.8	27.0	39.7	41.2	22.7	32.2	35.1	36.9	19.0	25.0	41.2	7.7	23.3
27	31.6	20.2	14.3	17.5	24.2	12.6	10.4	7.9	6.7	5.8	3.9	3.1	2.9	4.9	22.3	18.7	50.9	27.9	10.8	6.6	5.6	7.0	8.6	16.3	50.9	2.9	14.2
28	11.7	13.7	9.7	14.5	16.4	23.8	15.6	8.9	10.3	29.1	6.4	9.2	12.9	25.5	32.6	18.6	13.9	17.1	17.8	23.3	46.5	23.5	23.4	13.0	46.5	6.4	18.2
29	7.2	8.1	9.2	7.0	5.2	5.1	6.5	6.3	6.3	6.6	7.3	7.8	8.3	8.6	11.1	8.4	9.2	9.3	8.6	8.3	10.5	9.2	8.6	11.8	11.8	5.1	8.1
30	12.3	14.2	12.6	10.3	10.3	9.8	12.5	8.2	14.5	12.9	20.5	41.1	60.7	43.3	31.3	15.1	15.1	16.2	15.3	14.0	15.6	15.6	17.2	20.3	60.7	8.2	19.1
31	19.6	17.6	15.9	16.3	15.1	14.8	14.8	15.3	15.0	25.9	25.3	15.6	17.3	18.7	16.4	18.5	18.3	14.9	14.9	15.6	34.8	34.7	18.2	27.9	34.8	14.8	19.2
Max.	**63.6**	**63.3**	**53.3**	**82.4**	**65.8**	**59.5**	**67.9**	**65.7**	**61.1**	**63.2**	**65.2**	**63.7**	**67.3**	**56.7**	**68.8**	**61.3**	**74.2**	**74.2**	**72.7**	**73.9**	**76.5**	**58.6**	**58.4**	**71.8**	**82.4**		
Min.	**7.2**	**6.4**	**7.6**	**7.0**	**5.2**	**5.1**	**6.5**	**6.3**	**6.3**	**5.8**	**3.9**	**3.1**	**2.9**	**4.9**	**5.9**	**4.2**	**5.8**	**9.3**	**8.6**	**6.6**	**5.6**	**6.8**	**6.3**	**7.0**		**2.9**	
Avg.	**20.3**	**18.3**	**21.4**	**26.4**	**24.5**	**22.4**	**22.9**	**21.9**	**21.7**	**22.2**	**18.3**	**21.8**	**23.9**	**26.2**	**28.5**	**26.1**	**29.2**	**29.6**	**29.1**	**27.5**	**27.6**	**25.3**	**23.7**	**22.3**			**24.2**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

November 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	29.4	39.9	23.9	26.8	38.1	19.5	24.4	43.6	9.2	18.0	18.0	8.5	16.5	21.3	16.0	22.5	18.8	20.2	17.0	16.5	25.4	31.9	51.1	27.7	51.1	8.5	24.3
2	20.4	21.8	52.7	65.7	48.6	28.4	21.2	29.2	39.6	17.8	12.2	10.1	13.1	49.9	27.7	25.8	34.7	33.6	35.2	34.3	49.1	58.9	54.5	51.1	65.7	10.1	34.8
3	37.2	56.9	35.8	56.8	56.0	36.2	46.4	25.4	25.7	45.6	50.8	63.0	32.0	26.7	18.2	15.8	17.2	17.9	14.8	16.0	27.6	37.7	18.9	17.3	63.0	14.8	33.1
4	18.7	14.9	15.6	17.2	16.6	24.2	18.3	36.4	17.3	15.7	14.0	14.5	15.8	19.8	20.2	30.9	21.7	18.3	19.8	17.6	15.5	14.7	30.3	20.1	36.4	14.0	19.5
5	41.3	27.0	35.8	15.7	15.5	16.3	17.2	31.1	33.6	47.1	44.7	14.5	55.2	47.9	67.5	58.8	81.5	64.4	57.0	52.3	41.5	34.9	54.6	53.4	81.5	14.5	42.0
6	22.2	64.6	40.9	23.3	31.4	47.7	45.1	52.2	74.6	69.7	39.6	49.3	21.5	38.2	32.0	37.6	39.2	43.1	32.2	44.4	43.3	66.8	57.0	35.7	74.6	21.5	43.8
7	33.0	45.4	18.5	30.8	49.3	17.2	17.6	30.1	21.2	19.8	14.1	11.0	8.7	7.7	9.8	11.6	11.7	9.5	10.5	10.5	10.7	10.6	10.0	9.0	49.3	7.7	17.8
8	9.1	8.6	9.7	9.3	9.1	10.4	9.4	10.6	11.6	12.0	12.1	11.8	11.3	12.5	16.6	14.0	11.4	20.3	10.5	14.0	17.6	10.4	7.9	8.8	20.3	7.9	11.6
9	9.5	8.1	7.7	6.7	9.1	8.6	8.5	8.1	8.8	10.7	27.1	25.6	14.2	15.6	32.9	15.3	52.4	20.4	27.8	29.2	51.5	44.5	41.9	34.8	52.4	6.7	21.6
10	31.3	49.9	35.8	19.7	15.3	14.8	21.4	41.1	15.9	15.7	15.2	14.7	15.2	14.7	16.6	15.3	15.0	14.5	14.9	15.8	16.4	24.4	25.4	61.5	61.5	14.5	22.5
11	21.7	11.1	19.9	27.7	37.8	50.6	18.1	49.7	41.0	39.5	20.4	16.6	12.3	13.7	17.8	14.3	21.7	31.6	18.0	36.7	30.6	36.8	23.4	27.0	50.6	11.1	26.6
12	26.4	24.2	16.3	58.4	41.3	67.3	60.8	69.9	30.9	20.0	44.1	8.6	7.8	12.7	9.5	13.8	14.9	12.9	12.8	7.6	11.6	15.5	22.2	32.1	69.9	7.6	26.7
13	31.2	37.7	18.0	21.0	12.0	19.0	25.3	14.1	18.9	18.3	15.5	16.0	11.3	11.0	10.2	14.1	14.8	15.1	11.7	10.4	8.2	6.3	5.9	7.3	37.7	5.9	15.6
14	5.9	7.1	7.2	8.3	8.1	8.1	9.3	7.3	9.6	8.8	9.4	11.2	10.0	5.6	7.1	7.1	8.4	8.3	8.0	8.0	7.8	6.8	7.4	8.4	11.2	5.6	8.0
15	8.1	8.5	9.8	10.5	23.4	33.3	13.6	53.0	17.3	10.2	56.6	10.0	53.4	24.0	39.2	68.3	55.5	76.2	45.4	44.9	20.4	12.7	12.0	5.6	76.2	5.6	29.7
16	4.6	10.2	9.1	9.8	10.0	11.2	12.0	12.9	12.5	9.9	10.2	10.8	9.3	7.4	9.7	10.6	8.8	8.3	8.5	10.0	7.5	7.7	8.9	6.4	12.9	4.6	9.4
17	6.1	5.4	5.9	5.5	5.1	4.9	6.4	6.7	10.7	53.6	27.9	40.4	44.1	50.9	43.4	30.9	23.2	14.7	13.4	23.5	17.6	11.9	8.5	11.6	53.6	4.9	19.7
18	20.0	17.4	22.7	20.4	10.7	9.5	10.0	9.3	9.7	11.6	10.4	11.6	9.6	9.5	8.8	9.1	8.4	8.7	30.5	67.9	28.0	25.4	30.6	48.7	67.9	8.4	18.7
19	42.8	70.3	43.6	32.7	56.8	57.8	56.3	19.3	14.1	13.6	25.2	36.2	43.9	21.3	24.8	26.5	24.1	26.4	22.1	16.3	20.0	43.5	30.7	24.7	70.3	13.6	33.0
20	9.6	6.1	6.5	7.3	8.0	6.9	6.9	6.8	7.4	7.5	9.4	9.3	9.0	9.5	8.8	7.7	7.8	7.1	10.8	9.1	8.4	11.4	9.6	12.4	12.4	6.1	8.5
21	8.2	10.3	12.4	12.3	26.1	17.7	16.3	15.6	15.1	17.6	14.6	14.9	21.9	55.5	68.3	49.4	18.6	33.8	38.7	25.3	23.8	26.3	60.5	45.6	68.3	8.2	27.0
22	30.3	31.4	39.5	50.2	64.9	53.4	56.7	63.8	65.8	18.7	16.0	28.4	15.6	7.5	7.1	15.6	24.2	17.6	25.5	26.7	13.3	15.9	16.6	17.5	65.8	7.1	30.1
23	18.9	20.3	17.8	17.4	19.0	17.8	17.8	18.6	28.8	26.5	30.0	37.1	29.7	31.6	50.6	37.9	48.0	60.2	42.3	22.1	20.1	34.7	24.8	32.5	60.2	17.4	29.4
24	27.2	33.6	46.1	33.5	16.5	13.1	16.6	15.2	19.3	23.6	47.2	48.0	59.2	37.8	28.1	32.1	42.3	48.7	54.4	42.1	28.4	23.0	20.7	15.9	59.2	13.1	32.2
25	14.6	14.4	15.5	15.6	15.4	15.7	14.6	16.4	19.4	19.7	17.1	15.5	16.3	14.5	13.7	17.1	14.1	16.1	14.9	14.3	13.6	13.4	13.3	15.5	19.7	13.3	15.4
26	14.6	15.3	14.0	15.0	18.1	15.1	14.5	13.9	14.1	15.8	15.7	14.3	14.8	13.9	14.0	14.4	13.3	33.6	37.6	34.5	13.3	20.5	43.2	37.9	43.2	13.3	19.6
27	13.9	14.9	17.0	29.0	47.6	68.7	75.7	20.7	19.4	17.0	10.2	11.1	11.9	9.8	23.3	29.8	18.8	12.4	8.1	4.2	5.5	6.9	9.4	9.9	75.7	4.2	20.6
28	10.9	14.9	15.8	15.2	15.7	15.7	11.9	8.7	5.5	7.4	6.5	6.1	7.1	7.7	7.5	7.7	7.9	8.8	8.5	7.0	9.8	7.9	9.2	7.5	15.8	5.5	9.6
29	20.2	10.5	12.7	10.6	8.8	44.0	14.0	12.3	11.2	15.1	35.5	46.9	50.0	62.6	56.8	44.4	40.0	44.2	48.8	55.7	54.5	51.4	49.3	59.3	62.6	8.8	35.8
30	54.8	46.1	44.8	38.1	43.8	57.1	65.8	78.9	47.4	45.1	17.7	31.6	25.8	24.0	54.0	40.7	23.4	18.4	19.5	19.3	12.3	14.4	39.1	19.1	78.9	12.3	36.7
Max.	**54.8**	**70.3**	**52.7**	**65.7**	**64.9**	**68.7**	**75.7**	**78.9**	**74.6**	**69.7**	**56.6**	**63.0**	**59.2**	**62.6**	**68.3**	**68.3**	**81.5**	**76.2**	**57.0**	**67.9**	**54.5**	**66.8**	**60.5**	**61.5**	**81.5**		
Min.	**4.6**	**5.4**	**5.9**	**5.5**	**5.1**	**4.9**	**6.4**	**6.7**	**5.5**	**7.4**	**6.5**	**6.1**	**7.1**	**5.6**	**7.1**	**7.1**	**7.8**	**7.1**	**8.0**	**4.2**	**5.5**	**6.3**	**5.9**	**5.6**		**4.2**	
Avg.	**21.4**	**24.9**	**22.4**	**23.7**	**25.9**	**27.0**	**25.1**	**27.4**	**22.5**	**22.4**	**22.9**	**21.6**	**22.2**	**22.8**	**25.3**	**24.6**	**24.7**	**25.5**	**24.0**	**24.5**	**21.8**	**24.2**	**26.6**	**25.5**			**24.1**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

December 2005

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	25.3	14.5	26.6	22.0	20.5	16.2	22.6	18.0	23.9	31.2	20.7	19.9	16.1	15.0	15.8	23.6	24.0	18.2	25.3	28.8	27.4	13.9	12.2	18.7	31.2	12.2	20.8
2	29.3	25.8	20.5	16.1	20.2	26.8	44.1	58.2	49.8	16.1	18.4	43.3	57.3	60.0	44.4	58.9	69.0	61.4	37.2	22.9	25.9	36.8	52.6	57.0	69.0	16.1	39.7
3	36.6	49.5	49.9	35.1	19.9	18.5	16.7	14.1	16.4	14.3	14.6	14.5	16.1	14.3	14.8	16.2	16.3	29.7	20.5	28.4	33.2	27.1	19.4	41.0	49.9	14.1	24.0
4	45.7	23.6	36.8	13.1	9.7	9.4	6.1	5.2	9.0	7.9	7.7	8.0	11.8	10.6	8.9	6.6	6.4	8.5	9.3	5.8	8.0	5.9	8.5	7.1	45.7	5.2	11.6
5	6.7	7.3	6.3	6.3	9.0	6.0	6.3	10.9	10.6	11.5	12.5	11.8	11.2	10.9	9.9	11.1	11.1	8.2	10.2	10.4	10.7	11.4	8.9	9.1	12.5	6.0	9.5
6	11.8	9.9	9.4	10.3	9.7	10.4	9.7	11.0	9.4	8.5	11.9	9.5	11.6	13.8	10.9	3.7	5.4	6.4	8.1	22.2	26.8	23.6	18.8	16.4	26.8	3.7	12.0
7	15.6	12.5	11.7	13.0	9.9	10.2	12.6	12.7	9.8	9.7	9.5	9.3	9.6	9.3	10.7	10.8	9.4	14.4	14.4	11.6	11.6	10.6	11.6	13.0	15.6	9.3	11.4
8	13.0	23.7	15.5	8.0	7.8	6.8	5.3	4.6	6.5	12.0	11.5	59.1	63.6	66.7	47.5	47.9	56.3	74.9	39.1	40.7	65.7	43.7	61.7	68.0	74.9	4.6	35.4
9	51.1	52.1	55.7	50.9	66.9	60.2	41.7	42.5	38.7	10.3	10.5	8.9	10.5	12.3	10.6	9.6	10.6	25.2	67.9	77.2	11.3	54.3	45.1	32.8	77.2	8.9	35.7
10	65.5	50.2	18.5	10.1	21.7	8.1	11.5	11.4	6.1	8.6	8.4	9.1	14.7	31.1	28.8	22.0	11.6	19.8	45.7	25.2	14.0	9.7	9.7	11.2	65.5	6.1	19.7
11	12.5	8.2	7.4	8.4	46.3	19.8	58.1	16.4	17.6	16.2	17.9	16.0	18.0	18.3	28.4	42.9	42.5	77.0	59.2	37.9	54.3	75.8	48.6	42.8	77.0	7.4	32.9
12	38.3	43.4	43.6	47.0	40.7	31.4	43.8	44.6	42.5	72.4	45.1	41.2	43.6	60.1	59.0	42.8	42.1	56.3	38.0	31.9	37.9	37.7	32.6	22.9	72.4	22.9	43.3
13	14.3	31.0	24.2	9.8	7.6	9.3	9.3	8.4	8.1	9.1	10.5	9.6	8.3	8.7	9.3	9.3	11.0	11.6	10.1	9.2	9.3	9.8	9.5	9.9	31.0	7.6	11.1
14	10.3	9.8	9.7	9.7	9.3	9.7	9.2	9.3	9.4	9.1	9.1	9.4	10.1	9.1	10.1	10.2	9.2	9.3	8.6	9.5	11.0	12.0	12.1	12.5	12.5	8.6	9.9
15	13.0	13.4	13.7	12.4	11.0	10.3	9.9	9.1	9.7	9.9	8.9	10.5	9.0	8.6	8.4	8.2	8.9	9.6	9.6	10.6	12.0	20.1	25.5	31.8	31.8	8.2	12.2
16	50.5	47.7	45.8	64.4	59.4	55.1	51.6	54.1	48.7	67.5	47.8	33.2	16.7	28.5	27.7	14.9	14.0	42.1	54.2	18.7	19.8	27.6	17.4	15.9	67.5	14.0	38.5
17	22.9	17.0	13.3	15.5	11.8	12.3	16.8	19.0	19.6	36.9	7.9	7.9	12.6	10.5	14.3	12.3	17.8	19.0	12.2	13.1	11.8	13.4	13.3	10.9	36.9	7.9	15.1
18	11.6	11.7	13.0	11.2	10.8	10.8	11.3	12.1	12.5	11.5	11.4	13.4	16.6	12.5	12.6	10.8	13.5	12.5	8.9	10.0	10.8	9.8	11.0	10.7	16.6	8.9	11.7
19	9.6	11.2	10.0	10.6	9.9	9.5	14.0	10.2	10.4	11.1	10.0	12.2	11.5	12.8	13.0	25.9	27.3	39.7	10.9	16.5	18.7	36.2	8.2	10.3	39.7	8.2	15.0
20	9.6	7.2	12.3	11.0	9.2	10.8	9.3	50.8	72.0	44.8	14.9	35.1	27.8	56.9	35.6	30.5	41.5	16.5	29.9	16.3	61.1	26.0	43.8	21.8	72.0	7.2	28.9
21	34.4	6.4	33.9	26.5	48.0	38.1	10.0	17.5	51.6	13.3	19.2	11.8	16.0	21.0	21.2	10.1	20.2	15.8	9.8	14.6	25.4	23.0	29.7	18.9	51.6	6.4	22.3
22	20.3	29.3	20.3	13.8	13.8	45.9	32.3	23.8	18.3	9.5	10.2	7.0	6.1	6.2	7.8	46.9	34.5	6.1	8.7	9.5	7.5	7.2	5.2	8.8	46.9	5.2	16.6
23	10.8	29.8	55.5	26.8	15.3	16.8	30.6	11.8	16.3	7.8	7.0	6.9	9.1	18.2	30.7	14.9	6.4	6.9	7.2	5.6	9.1	10.2	9.7	8.8	55.5	5.6	15.5
24	11.8	12.4	8.8	10.7	7.6	7.7	7.5	7.0	8.6	9.6	7.3	7.1	7.3	9.2	7.5	7.2	7.2	9.7	8.7	11.4	11.6	9.1	9.5	9.1	12.4	7.0	8.9
25	10.0	11.6	10.5	11.6	11.8	13.4	12.0	12.1	12.4	12.8	11.5	12.8	10.0	10.6	9.9	9.5	10.2	9.9	9.9	9.6	9.5	8.8	10.5	10.2	13.4	8.8	10.9
26	10.6	10.4	12.8	11.6	12.4	12.7	9.6	9.1	9.0	9.4	9.2	9.2	9.4	9.8	9.7	8.9	9.9	9.7	9.2	7.8	9.6	9.0	9.1	9.5	12.8	7.8	9.9
27	9.1	9.5	9.8	9.9	9.9	10.3	11.3	13.1	12.0	10.4	9.9	10.5	11.3	8.8	7.2	12.3	11.2	10.3	9.5	9.6	9.6	9.7	9.8	10.2	13.1	7.2	10.2
28	9.2	9.3	10.4	10.1	10.4	9.5	9.5	9.8	9.8	9.7	9.4	9.6	8.7	9.9	10.0	9.5	10.0	9.6	9.7	10.2	9.4	10.3	9.2	9.2	10.4	8.7	9.7
29	9.2	8.7	8.7	9.8	9.6	12.4	12.6	16.4	21.3	30.3	23.0	12.5	12.1	10.3	10.0	9.8	9.7	9.8	10.3	9.7	10.0	10.2	9.8	10.4	30.3	8.7	12.4
30	9.5	9.4	9.1	9.8	10.1	9.5	10.5	11.4	15.8	17.3	44.9	54.9	45.6	9.9	10.1	10.5	9.8	9.9	9.0	9.6	9.9	9.4	11.0	10.1	54.9	9.0	15.3
31	9.0	10.3	9.2	10.4	9.4	10.1	9.4	11.0	9.1	9.4	9.2	9.9	12.5	11.1	9.7	11.5	10.8	8.6	8.1	9.3	9.1	8.8	9.9	9.8	12.5	8.1	9.8
Max.	**65.5**	**52.1**	**55.7**	**64.4**	**66.9**	**60.2**	**58.1**	**58.2**	**72.0**	**72.4**	**47.8**	**59.1**	**63.6**	**66.7**	**59.0**	**58.9**	**69.0**	**77.0**	**67.9**	**77.2**	**65.7**	**75.8**	**61.7**	**68.0**	**77.2**		
Min.	**6.7**	**6.4**	**6.3**	**6.3**	**7.6**	**6.0**	**5.3**	**4.6**	**6.1**	**7.8**	**7.0**	**6.9**	**6.1**	**6.2**	**7.2**	**3.7**	**5.4**	**6.1**	**7.2**	**5.6**	**7.5**	**5.9**	**5.2**	**7.1**		**3.7**	
Avg.	**20.5**	**19.9**	**20.4**	**17.3**	**18.4**	**17.4**	**18.2**	**18.2**	**19.8**	**18.0**	**15.2**	**17.2**	**17.6**	**19.2**	**17.9**	**18.4**	**18.9**	**21.5**	**20.0**	**17.9**	**19.4**	**20.0**	**19.1**	**18.7**			**18.7**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

January 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	9.0	9.4	7.1	7.8	8.7	9.9	11.5	11.1	12.3	12.5	11.9	10.1	10.0	10.5	8.7	9.1	10.0	10.4	10.4	10.2	9.8	12.7	12.7	10.8	12.7	7.1	10.3
2	13.0	10.1	10.0	8.1	10.8	8.6	9.5	9.7	9.6	9.9	10.9	10.6	11.1	9.9	11.5	11.0	10.6	10.3	15.1	11.7	12.1	9.1	14.3	16.3	16.3	8.1	11.0
3	14.2	16.6	15.1	17.7	12.6	13.0	16.6	11.7	8.9	9.3	8.8	8.2	7.9	7.4	7.7	10.5	8.5	7.9	7.4	6.4	10.8	10.0	9.1	7.4	17.7	6.4	10.6
4	7.5	8.8	50.0	22.1	9.6	10.0	45.1	51.2	45.6	45.2	17.3	8.7	5.4	5.5	4.3	13.7	9.4	28.0	51.2	9.1	28.4	31.2	58.5	15.3	58.5	4.3	24.2
5	16.2	9.0	9.4	10.1	9.7	8.8	8.7	35.5	52.9	38.1	11.9	66.4	36.4	9.4	9.0	38.1	36.9	25.7	6.6	6.7	11.9	6.3	67.8	37.9	67.8	6.3	23.7
6	16.8	31.1	19.9	6.2	7.4	12.8	7.4	5.5	9.0	11.1	51.9	17.7	21.7	11.1	6.3	22.1	43.2	6.3	23.0	30.8	23.0	8.7	9.5	65.7	65.7	5.5	19.5
7	30.8	31.6	8.2	10.5	23.1	19.1	36.8	29.5	18.3	8.5	9.9	9.3	9.6	9.3	8.4	9.7	9.3	9.6	8.9	10.2	9.6	8.7	9.1	8.6	36.8	8.2	14.4
8	8.3	9.2	9.5	10.0	8.9	8.4	9.1	8.8	9.4	10.1	11.3	9.3	8.8	9.1	71.3	34.8	15.0	53.5	32.8	35.9	18.9	13.0	10.4	11.9	71.3	8.3	17.8
9	14.2	10.2	7.6	7.7	8.4	12.1	12.0	15.2	15.3	17.5	30.9	37.3	62.3	25.8	11.4	14.6	23.7	7.6	11.5	18.0	8.7	31.7	39.7	26.0	62.3	7.6	19.5
10	64.4	18.7	26.9	16.2	5.5	8.1	13.8	60.0	70.3	61.4	62.2	44.2	10.0	72.0	51.4	38.1	15.8	12.4	10.5	16.4	32.0	11.0	13.5	46.0	72.0	5.5	32.5
11	49.7	27.4	45.5	66.8	51.9	9.8	13.2	52.8	29.7	33.1	43.7	41.0	18.2	16.3	10.1	12.9	37.1	54.3	22.6	23.5	19.5	20.5	33.3	37.0	66.8	9.8	32.1
12	53.2	44.8	11.9	38.3	28.0	14.3	12.8	9.5	27.0	50.2	15.2	21.2	14.5	13.5	17.7	15.7	13.5	15.2	39.2	33.5	29.6	23.8	56.8	28.2	56.8	9.5	26.1
13	53.0	26.3	21.8	32.2	27.5	26.8	20.6	33.6	36.7	29.4	51.8	42.7	30.6	18.6	22.3	18.3	25.9	26.0	23.7	35.4	48.0	26.5	15.3	31.9	53.0	15.3	30.2
14	14.5	10.9	14.8	11.9	9.6	6.4	6.6	10.7	13.9	8.4	12.7	9.4	7.1	7.8	8.0	8.3	7.2	8.2	7.6	7.9	7.9	6.8	7.0	7.9	14.8	6.4	9.2
15	9.7	7.8	7.3	8.2	8.3	7.6	7.3	9.2	9.1	8.1	9.5	6.9	8.1	6.9	7.5	9.2	11.7	9.1	8.8	8.6	8.3	9.6	8.7	9.2	11.7	6.9	8.5
16	9.0	8.6	8.8	8.6	7.7	9.1	9.4	9.2	9.5	9.7	10.7					7.4	11.9	12.7	22.9	18.3	61.0	24.5	7.9	7.4	61.0	7.4	13.7
17	28.4	14.1	10.4	11.7	12.5	17.4	19.3	22.1	26.8	19.5	31.6	26.7	13.1	64.4	64.7	81.9	44.3	41.7	21.0	29.6	34.8	14.0	10.0	8.9	81.9	8.9	27.9
18	13.1	9.5	10.7	22.4	19.0	12.4	21.7	23.0	20.6	38.7	22.2	12.6	13.5	16.6	17.8	14.1	21.5	36.4	26.3	21.9	43.0	41.8	44.0	64.3	64.3	9.5	24.5
19	47.2	51.4	17.0	23.5	25.9	23.6	33.5	28.1	25.0	27.3	27.8	14.1	14.2	15.7	15.1	18.4	25.0	22.1	26.4	31.0	43.9	43.8	14.8	17.6	51.4	14.1	26.3
20	18.0	11.2	19.7	7.8	10.0	7.7	7.9	6.8	6.7	7.5	6.0	7.3	8.8	8.1	9.3	10.3	7.8	8.4	10.9	11.3	10.4	9.9	9.5	8.1	19.7	6.0	9.6
21	8.6	7.7	6.8	6.3	8.2	5.3	6.5	7.7	9.8	8.8	7.8	6.2	11.2	12.1	8.8	6.7	14.3	11.5	12.4	30.6	13.4	15.3	14.9	21.3	30.6	5.3	10.9
22	34.1	59.6	60.8	50.5	56.5	60.3	61.1	29.6	28.5	26.2	28.2	30.5	28.7	23.5	19.4	15.9	18.9	17.2	14.9	15.4	15.7	16.4	16.8	15.3	61.1	14.9	31.0
23	15.4	15.2	30.1	16.0	13.3	18.1	23.8	19.6	39.8	13.8	12.5	22.2	24.9	15.7	14.1	24.0	15.4	32.0	47.4	44.2	28.5	49.3	18.5	21.0	49.3	12.5	23.9
24	20.6	23.7	37.9	32.2	18.8	18.5	19.1	17.9	16.1	17.5	15.9	11.4	12.3	13.2	11.5	10.8	29.5	9.9	12.0	13.5	17.4	18.9	20.8	19.7	37.9	9.9	18.3
25	22.9	20.1	24.8	19.1	26.0	25.7	20.0	19.4	13.7	12.4	9.7	5.5	5.4	6.6	8.6	10.5	18.2	18.0	13.4	13.7	11.7	10.0	13.0	12.3	26.0	5.4	15.0
26	10.5	11.3	9.8	8.9	9.5	9.9	11.5	9.2	12.0	7.3	8.3	8.4	6.9	8.0	8.3	7.8	8.0	10.6	10.3	13.2	28.9	21.6	13.5	18.4	28.9	6.9	11.3
27	20.5	62.3	31.6	49.6	52.0	48.5	72.8	29.8	55.9	49.2	33.8	22.4	20.8	14.3	15.0	15.2	14.7	15.4	14.1	14.0	16.4	16.8	16.9	15.1	72.8	14.0	29.9
28	13.7	15.0	14.2	14.3	14.4	13.8	13.5	14.6	14.8	15.8	16.6	18.2	16.7	29.2	23.4	15.6	11.1	28.8	11.7	18.3	42.4	19.7	26.6	11.9	42.4	11.1	18.1
29	9.5	10.8	9.2	9.8	9.5	12.2	12.6	12.8	12.0	11.7	9.2	9.6	10.9	10.4	13.0	35.4	20.3	34.1	22.9	26.2	11.7	13.1	28.8	11.5	35.4	9.2	15.3
30	9.1	8.9	9.2	9.8	13.7	13.7	11.0	12.7	14.5	14.8	18.4	17.2	10.5	13.3	12.9	11.9	14.3	20.0	23.1	57.4	7.1	7.5	6.0	8.5	57.4	6.0	14.4
31	7.4	7.6	8.1	9.2	8.2	8.4	8.8	8.5	12.5	8.0	7.7	8.1	9.4	11.0	8.1	6.5	17.5	19.8	23.2	34.2	12.7	13.4	9.0	13.4	34.2	6.5	11.7
Max.	**64.4**	**62.3**	**60.8**	**66.8**	**56.5**	**60.3**	**72.8**	**60.0**	**70.3**	**61.4**	**62.2**	**66.4**	**62.3**	**72.0**	**71.3**	**81.9**	**44.3**	**54.3**	**51.2**	**57.4**	**61.0**	**49.3**	**67.8**	**65.7**	**81.9**		
Min.	**7.4**	**7.6**	**6.8**	**6.2**	**5.5**	**5.3**	**6.5**	**5.5**	**6.7**	**7.3**	**6.0**	**5.5**	**5.4**	**5.5**	**4.3**	**6.5**	**7.2**	**6.3**	**6.6**	**6.4**	**7.1**	**6.3**	**6.0**	**7.4**		**4.3**	
Avg.	**21.4**	**19.6**	**18.5**	**18.5**	**17.3**	**15.5**	**18.8**	**20.2**	**22.1**	**20.7**	**20.2**	**18.8**	**15.6**	**16.5**	**16.8**	**18.0**	**18.4**	**20.1**	**19.1**	**21.2**	**21.9**	**18.3**	**20.5**	**20.5**			**19.1**

Total Hours in Month 744 **Hours Data Available** 740 **Data Recovery** 99.5%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

February 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	13.2	9.7	13.0	11.8	24.4	28.0	17.7	16.2	21.4	14.1	15.6	15.0	15.6	15.1	13.7	20.2	27.6	80.1	73.4	38.7	42.0	66.5	31.7	30.6	80.1	9.7	27.3
2	27.7	16.0	21.0	21.9	24.6	19.3	15.3	17.9	11.7	15.8	30.2	47.3	21.3	11.1	12.5	19.2	14.5	13.1	17.8	17.1	7.9	5.1	7.1	6.6	47.3	5.1	17.6
3	6.1	7.3	8.0	9.5	8.0	8.8	9.6	10.6	10.5	9.6	8.1	7.5	9.3	8.2	8.4	9.9	11.1	11.5	10.3	10.0	9.8	10.0	8.7	9.5	11.5	6.1	9.2
4	11.0	12.8	10.4	11.0	12.2	11.9	10.7	10.5	10.8	10.2	12.0	10.4	9.8	10.0	9.5	9.7	10.0	9.9	9.7	9.1	8.9	9.0	9.7	9.5	12.8	8.9	10.4
5	9.3	9.6	9.8	8.9	9.1	8.8	8.8	8.5	8.4	8.8	9.1	10.1	14.0	9.5	12.1	9.3	9.3	8.4	8.9	9.1	8.9	9.4	9.4	10.1	14.0	8.4	9.5
6	9.9	11.5	11.2	12.2	11.6	10.5	8.6	9.5	12.6	20.2	32.9	40.7	60.8	48.3	29.7	60.4	37.1	11.5	14.7	17.7	16.3	23.4	12.5	10.5	60.8	8.6	22.2
7	7.3	5.1	6.6	6.5	42.6	46.0	74.2	65.6	23.8	28.2	30.5	18.8	21.0	24.6	21.7	32.2	51.1	39.8	31.2	25.6	22.4	19.8	44.2	72.4	74.2	5.1	31.7
8	72.7	54.7	42.6	50.5	36.6	10.4	13.7	14.4	7.4	9.9	8.1	11.4	9.3	9.1	12.4	11.9	11.0	12.1	9.9	11.0	11.3	10.7	11.5	10.6	72.7	7.4	19.3
9	9.8	10.3	8.8	9.5	10.2	9.6	9.2	9.0	9.0	8.8	8.2	8.4	8.6	9.2	9.6	9.4	10.5	9.8	9.7	10.0	11.7	12.3	16.4	23.4	23.4	8.2	10.5
10	14.4	13.9	10.7	10.2	10.7	12.5	11.5	10.4	11.7	11.7	12.5	13.1	29.5	43.1			61.3	44.1	35.5	37.9	62.8	52.0	68.8	35.5	68.8	10.2	27.9
11	40.0	18.7	11.0	6.5	9.9	9.3	7.8	7.7	8.2	10.4	9.1	9.6	9.0	8.6	10.8	10.8	12.4	11.6	11.8	11.2	12.0	12.1	11.7	11.7	40.0	6.5	11.7
12	11.0	11.9	27.1	42.2	6.5	14.8	24.1	17.6	16.8	43.9	43.9	28.1	26.3	38.2	40.4	43.0	36.0	30.4	44.7	33.5	21.9	16.1	27.2	29.3	44.7	6.5	28.1
13	61.6	36.0	18.9	42.8	30.9	25.0	66.0	9.8	7.3	30.9	53.2	6.2	5.4	10.5	10.7	20.4	18.2	14.1	13.6	21.3	20.6	14.3	25.9	24.1	66.0	5.4	24.5
14	31.6	33.1	33.8	19.6	15.1	15.5	16.9	18.7	21.0	22.5	13.7	12.0	13.1	13.2	11.3	9.5	11.6	11.5	12.1	18.8	10.4	9.4	10.8	11.2	33.8	9.4	16.5
15	12.5	12.8	13.6	12.7	12.8	13.1	12.3	12.6	15.3	30.9	21.2	54.5	30.7	58.3	14.9	38.0	38.3	42.2	31.9	30.5	38.4	35.3	55.8	32.3	58.3	12.3	27.9
16	9.1	15.8	13.0	4.1	3.4	3.9	53.9	17.5	16.8	36.4	41.8	44.5	56.4	11.1	14.0	49.5	9.3	9.3	9.3	9.0	9.0	7.9	6.4	6.8	56.4	3.4	19.1
17	9.6	8.8	7.7	8.5	9.9	10.4	10.7	11.8	14.1	11.7	12.9	12.3	16.4	18.1	18.9	13.1	10.8	11.5	15.6	24.0	21.3	18.9	18.0	31.6	31.6	7.7	14.4
18	39.0	23.2	13.5	18.3	11.6	10.4	31.9	13.5	21.3	20.8	31.9	54.5	46.5	41.5	65.6	28.6	35.0	49.5	54.6	27.3	9.8	5.5	5.3	7.2	65.6	5.3	27.8
19	47.9	49.9	17.9	17.5	22.3	50.5	48.3	51.6	37.7	37.2	30.2	62.7	50.3	61.4	22.6	29.6	43.7	16.2	18.0	23.2	21.5	19.7	18.7	20.2	62.7	16.2	34.1
20	20.9	21.7	19.5	62.6	71.7	55.6	40.1	39.2	41.2	44.0	50.0	36.9	47.1	25.1	37.0	48.9	15.9	18.7	22.8	15.3	22.9	14.5	15.3	18.6	71.7	14.5	33.6
21	14.6	35.3	38.3	55.9	34.4	61.7	44.3	48.5	32.6	31.9	42.4	32.2	29.6	45.7	43.3	46.1	40.4	43.6	36.1	44.1	36.0	55.9	62.9	43.3	62.9	14.6	41.6
22	45.3	43.0	57.5	49.7	54.5	55.2	21.7	29.7	26.1	43.9	46.4	35.4	59.9	42.4	36.7	51.6	32.5	46.9	52.1	57.3	54.4	40.6	52.4	43.3	59.9	21.7	44.9
23	68.3	21.1	44.7	11.9	36.1	7.0	35.0	52.8	45.9	39.8	39.3	20.8	37.9	38.7	39.4	38.0	36.8	44.0	52.5	72.4	31.6	22.3	20.1	30.4	72.4	7.0	36.9
24	20.5	23.5	19.2	22.2	28.7	17.6	22.1	17.3	8.8	7.5	6.4	9.5	7.5	7.7	8.5	11.1	24.5	24.6	24.7	22.6	18.1	16.1	12.3	11.4	28.7	6.4	16.3
25	7.1	8.4	7.6	8.0	9.8	12.1	8.4	16.2	48.7	7.2	25.0	50.6	14.9	41.9	52.0	35.1	35.3	39.2	23.7	26.7	22.9	30.3	41.9	31.2	52.0	7.1	25.2
26	40.7	50.6	38.3	70.8	58.7	59.3	65.5	59.4	65.7	22.2	35.6	47.3	31.7	52.7	60.8	56.2	56.6	34.4	28.8	17.5	16.8	6.7	6.7	5.7	70.8	5.7	41.2
27	7.1	6.4	6.6	8.3	8.0	9.6	18.7	38.0	7.4	10.5	21.3	28.5	53.5	23.3	14.8	15.1	20.0	26.7	13.6	19.5	36.4	47.0	33.2	34.6	53.5	6.4	21.2
28	29.4	16.1	17.9	23.4	23.2	15.7	13.3	14.6	39.5	31.6	34.6	24.4	16.6	17.9	15.0	28.7	32.5	29.6	30.5	53.9	42.7	14.6	15.1	14.6	53.9	13.3	24.8
Max.	**72.7**	**54.7**	**57.5**	**70.8**	**71.7**	**61.7**	**74.2**	**65.6**	**65.7**	**44.0**	**53.2**	**62.7**	**60.8**	**61.4**	**65.6**	**60.4**	**61.3**	**80.1**	**73.4**	**72.4**	**62.8**	**66.5**	**68.8**	**72.4**	**80.1**		
Min.	**6.1**	**5.1**	**6.6**	**4.1**	**3.4**	**3.9**	**7.8**	**7.7**	**7.3**	**7.2**	**6.4**	**6.2**	**5.4**	**7.7**	**8.4**	**9.3**	**9.3**	**8.4**	**8.9**	**9.0**	**7.9**	**5.1**	**5.3**	**5.7**		**3.4**	
Avg.	**24.9**	**21.0**	**19.6**	**22.7**	**22.8**	**21.9**	**25.7**	**23.2**	**21.5**	**22.2**	**25.9**	**26.9**	**26.8**	**26.6**	**23.9**	**28.0**	**26.9**	**26.6**	**25.6**	**25.5**	**23.2**	**21.6**	**23.6**	**22.4**			**24.1**

Total Hours in Month 672 **Hours Data Available** 670 **Data Recovery** 99.7%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

March 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	15.1	30.7	23.1	23.7	17.1	13.5	16.5	21.3	29.2	14.8	7.0	6.6	4.4	6.1	7.2	8.4	8.9	9.2	7.1	7.9	7.8	6.3	6.5	9.8	30.7	4.4	12.8
2	13.0	7.0	7.4	8.8	9.5	9.3	10.0	7.2	6.4	7.3	6.4	7.6	7.0	6.7	6.5	8.9	8.9	10.3	10.0	9.5	10.0	9.4	10.0	8.4	13.0	6.4	8.6
3	9.7	7.9	8.9	8.7	8.8	7.1	6.5	8.3	8.1	9.7	9.1	8.7	8.4	5.3	4.9	5.1	5.1	6.8	5.3	5.9	6.0	7.3	5.6	6.0	9.7	4.9	7.2
4	6.2	6.7	6.2	7.2	7.2	6.4	7.5	7.6	7.4	7.1	7.6	7.1	13.6	28.3	21.2	18.7	14.8	8.5	9.7	10.4	13.6	8.2	8.1	7.6	28.3	6.2	10.3
5	8.5	7.5	12.1	10.5	10.0	8.4	10.7	26.3	50.3	73.5	61.4	30.7	51.6	46.6	31.8	64.6	52.4	52.8	34.0	25.6	39.8	46.1	36.9	37.3	73.5	7.5	34.6
6	31.7	21.1	42.5	39.4	23.6	25.0	42.1	53.0	28.8	21.9	14.1	14.0	12.9	19.8	15.3	25.1	18.4	22.9	34.9	41.0	28.4	20.6	20.9	10.3	53.0	10.3	26.1
7	8.7	10.9	25.3	25.5	43.0	25.5	15.1	27.8	15.2	13.1	12.4	11.4	13.8	14.3	15.3	25.6	31.6	60.5	63.9	61.5	62.1	65.1	73.8	32.7	73.8	8.7	31.4
8	29.4	24.1	27.9	27.1	30.8	56.7	42.0	29.5	60.8	62.1	63.8	47.1	50.9	48.8	53.3	43.6	34.7	47.2	46.4	48.8	65.6	58.7	83.3	72.2	83.3	24.1	48.1
9	54.7	79.0	70.9	71.6	69.7	66.7	69.7	46.7	79.0	57.2	51.8	61.7	70.7	50.2	64.0	72.0	47.4	28.7	27.2	23.7	19.7	15.0	17.9	25.0	79.0	15.0	51.7
10	14.9	23.5	30.8	27.3	28.5	14.1	17.1	17.8	14.9	18.2	20.8	20.9	15.0	10.3	7.9	16.0	70.3	14.6	10.5	8.1	7.1	11.7	11.4	10.1	70.3	7.1	18.4
11	8.2	9.7	11.4	10.6	9.4	9.4	8.7	10.8	11.3	14.2	12.7	9.5	11.2	21.1	14.2	6.1	5.1	7.2	8.7	7.3	8.9	9.0	9.8	9.1	21.1	5.1	10.1
12	20.0	14.8	15.3	15.7	18.4	15.1	11.2	11.0	11.1	10.3	10.7	11.6	13.5	10.1	9.0	8.9	8.3	5.8	6.7	6.4	7.0	8.1	43.0	41.8	43.0	5.8	13.9
13	10.7	23.8	35.8	49.6	43.9	14.2	39.9	42.3	41.3	16.4	33.2	33.7	24.8	16.2	12.8	12.5	8.8	11.8	15.2	8.2	9.2	35.1	14.1	30.9	49.6	8.2	24.3
14	44.4	9.2	13.1	8.2	6.2	7.4	8.5	10.1	16.0	21.0	22.9	22.7	21.4	20.5	17.6	16.8	22.4	49.9	31.7	19.8	18.8	21.3	24.2	23.3	49.9	6.2	19.9
15	23.8	17.7	18.5	17.9	21.0	15.8	22.6	18.3	18.0	21.5	22.4	37.5	44.1	18.9	31.5	43.5	23.2	33.1	44.9	36.1	13.2	10.8	10.4	10.0	44.9	10.0	23.9
16	8.9	11.0	9.0	8.1	6.7	8.8	9.1	9.3	9.4	8.7	7.6	6.8	6.8	9.7	11.6	11.6	9.6	10.6	12.1	11.1	10.9	11.8	12.6	11.1	12.6	6.7	9.7
17	9.7	9.4	5.5	4.5	6.1	6.8	7.4	7.8	8.0	7.4	7.4	9.2	8.0	9.3	8.5	8.3	10.4	12.6	12.0	10.0	8.4	9.2	9.2	8.6	12.6	4.5	8.5
18	8.9	8.4	9.4	9.2	8.7	9.1	8.2	10.8	9.9	8.5	8.5	8.1	7.8	8.4	8.5	9.1	9.1	9.7	40.8	44.7	31.9	16.0	47.0	18.8	47.0	7.8	15.0
19	15.7	20.8	11.7	13.4	10.6	8.3	7.6	7.7	49.9	10.4	8.8	36.0	6.5	5.1	10.7	7.0	16.0	25.1	25.3	23.4	57.6	9.4	6.0	6.1	57.6	5.1	16.6
20	7.2	4.6	6.7	6.0	6.1	5.4	5.9	9.2	52.9	32.6	21.5	28.4	66.8	10.1	5.1	7.0	33.4	20.4	19.0	20.2	24.3	17.5	13.4	15.7	66.8	4.6	18.3
21	24.7	31.7	30.4	18.7	22.6	27.5	48.1	30.0	48.4	60.0	29.9	19.3	52.0	27.0	63.1	47.6	34.4	27.4	68.1	33.9	25.9	46.9	54.4	26.8	68.1	18.7	37.5
22	25.8	19.1	16.8	16.8	18.8	15.9	11.4	13.4	26.3	30.2	9.6	10.0	8.8	7.6	9.1	8.1	17.1	54.8	36.5	71.9	38.3	18.1	21.8	17.2	71.9	7.6	21.8
23	18.6	22.4	16.8	43.1	71.9	56.9	11.2	19.4	11.7	10.7	16.7	25.7	53.8	22.8	58.9	36.7	49.2	29.3	16.0	33.0	26.0	28.0	33.6	33.6	71.9	10.7	31.1
24	16.6	12.7	11.4	9.7	8.4	10.0	8.7	20.3	16.3	11.0	14.6	12.7	27.7	47.7	26.6	7.6	23.1	69.5	56.3	17.9	13.3	16.6	14.9	16.0	69.5	7.6	20.4
25	16.1	14.9	16.1	62.1	16.2	31.2	26.4	13.5	10.6	11.4	10.0	11.3	38.3	27.0	19.6	32.8	50.3	56.7	34.3	19.3	32.5	26.6	18.5	17.3	62.1	10.0	25.5
26	46.7	25.6	14.5	16.4	16.3	17.5	19.9	29.8	12.3	12.3	34.1	18.4	9.5	7.3	7.5	5.7	12.6	11.2	61.7	40.2	24.8	34.9	20.3	23.4	61.7	5.7	21.8
27	23.2	10.9	40.4	22.7	11.3	34.0	51.8	13.4	7.3	24.8	34.1	5.7	4.7	4.8	3.0	4.5	7.9	9.7	9.0	14.9	25.7	22.3	8.8	54.4	54.4	3.0	18.7
28	10.9	29.2	45.6	7.7	7.6	5.3	4.2	4.1	49.7	49.6	52.9	13.5	4.7	5.8	5.4	4.9	6.2	8.1	6.6	10.5	52.4	21.3	15.7	77.5	77.5	4.1	20.8
29	40.6	30.5	29.7	14.1	15.5	18.1	14.1	15.6	12.3	7.2	5.2	6.7	14.7	16.9	4.3	5.4	14.8	46.4	34.4	61.5	45.0	48.7	12.9	6.1	61.5	4.3	21.7
30	4.9	7.1	10.9	10.1	11.0	12.0	12.6	15.8	10.7	21.7	26.7	25.0	17.0	24.2	18.0	14.9	15.3	18.7	20.0	26.8	42.9	25.8	27.2	22.5	42.9	4.9	18.4
31	21.9	25.6	26.3	30.4	22.9	19.2	18.0	30.5	17.0	14.3	11.4	10.6	11.4	11.3	12.1	10.8	12.6	9.6	9.2	65.9	58.8	17.1	15.1	30.1	65.9	9.2	21.3
Max.	**54.7**	**79.0**	**70.9**	**71.6**	**71.9**	**66.7**	**69.7**	**53.0**	**79.0**	**73.5**	**63.8**	**61.7**	**70.7**	**50.2**	**64.0**	**72.0**	**70.3**	**69.5**	**68.1**	**71.9**	**65.6**	**65.1**	**83.3**	**77.5**	**83.3**		
Min.	**4.9**	**4.6**	**5.5**	**4.5**	**6.1**	**5.3**	**4.2**	**4.1**	**6.4**	**7.1**	**5.2**	**5.7**	**4.4**	**4.8**	**3.0**	**4.5**	**5.1**	**5.8**	**5.3**	**5.9**	**6.0**	**6.3**	**5.6**	**6.0**		**3.0**	
Avg.	**19.3**	**18.6**	**21.0**	**20.8**	**19.6**	**18.7**	**19.1**	**19.0**	**24.2**	**22.2**	**21.1**	**18.7**	**22.6**	**18.3**	**18.9**	**19.3**	**22.0**	**25.4**	**26.4**	**26.6**	**27.0**	**22.7**	**22.8**	**23.2**			**21.6**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

April 2006

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	21.0	11.8	18.2	34.1	42.8	42.4	33.6	18.2	20.1	23.4	22.9	65.8	72.4	54.9	41.6	61.5	64.0	46.3	47.6	37.7	49.2	42.8	58.7	52.1	72.4	11.8	41.0
2	48.4	25.5	23.2	27.5	20.6	30.7	47.6	57.7	44.6	38.5	38.2	21.2	27.1	20.6	24.4	8.2	9.4	7.1	8.3	7.6	9.7	6.6	7.0	8.9	57.7	6.6	23.7
3	6.1	6.5	7.9	8.4	8.2	8.7	8.2	8.6	8.1	10.7	9.0	9.4	8.7	8.9	11.8	12.0	8.7	7.5	7.4	8.3	7.4	12.5	8.9	10.3	12.5	6.1	8.8
4	12.8	12.3	8.0	5.8	4.5	5.5	6.4	5.2	5.6	5.9	7.8	39.6	14.7	44.4	47.7	28.5	47.0	19.2	22.4	55.0	71.4	72.7	72.6	57.8	72.7	4.5	28.0
5	65.2	41.5	42.6	50.6	48.1	54.5	38.5	61.7	18.3	28.7	34.5	24.8	24.5	45.5	59.5	34.6	47.7	38.4	46.8	54.6	45.7	33.5	27.8	18.9	65.2	18.3	41.1
6	15.8	13.9	13.3	25.9	35.6	40.8	17.7	19.5	15.0	10.5	16.4	8.8	8.8	8.3	6.2	8.2	8.4	10.6	10.4	22.2	52.2	49.6	49.6	50.4	52.2	6.2	21.6
7	51.1	37.0	42.5	44.5	67.3	10.3	7.5	6.6	4.7	12.7	35.8	29.3	25.9	68.5	26.4	46.0	50.5	54.3	51.6	49.1	46.7	34.4	22.5	31.3	68.5	4.7	35.7
8	40.3	41.2	38.1	39.2	48.1	53.7	34.6	12.5	17.4	21.7	21.1	15.8	15.7	30.2	31.6	33.3	25.0	19.5	8.6	7.3	4.0	10.0	21.1	42.4	53.7	4.0	26.3
9	39.7	65.4	54.1	8.7	15.3	23.4	18.4	21.3	8.2	4.8	3.5	41.8	18.8	4.9	5.5	5.6	12.6	15.7	57.7	52.5	62.3	56.2	89.5	53.0	89.5	3.5	30.8
10	45.7	37.5	48.1	47.4	31.0	51.2	15.8	12.9	16.7	18.0	19.8	23.1	32.5	21.0	13.7	16.6	17.7	30.2	55.8	73.5	38.7	24.2	23.5	33.1	73.5	12.9	31.2
11	35.1	26.8	45.0	42.5	72.1	61.1	28.0	18.4	22.2	12.3	11.9	8.3	9.0	12.9	11.6	8.3	7.8	8.1	7.8	8.9	10.7	11.0	11.6	11.0	72.1	7.8	20.9
12	11.3	11.2	10.1	8.8	9.7	10.1	10.8	8.0	9.0	9.9	11.1	12.1	8.2	6.3	5.7	9.1	10.4	23.5	40.7	39.8	33.3	56.3	63.0	84.7	84.7	5.7	21.0
13	54.9	20.1	20.7	18.6	22.6	18.8	19.0	29.4	60.5	52.1	27.2	54.9	41.8	21.6	24.3	32.4	36.7	28.8	45.8	64.6	35.0	27.4	15.2	14.2	64.6	14.2	32.8
14	13.8	13.6	13.7	14.3	13.6	13.2	13.8	14.4	14.3	13.8	14.1	14.3	17.0	20.4	22.2	29.9	31.7	57.9	53.8	56.3	52.9	28.9	26.3	27.9	57.9	13.2	24.7
15	21.7	28.2	31.4	24.3	27.1	46.7	58.8	47.9	67.3	35.0	52.9	49.5	22.9	22.6	28.3	20.9	17.4	16.1	16.1	13.2	16.6	42.7	23.6	11.2	67.3	11.2	30.9
16	13.1	6.3	7.5	9.9	13.8	12.0	10.8	11.7	9.8	8.3	10.2	10.4	10.0	10.4	10.6	9.5	9.7	9.3	9.6	9.2	11.3	9.9	10.1	10.2	13.8	6.3	10.1
17	8.9	8.7	9.3	8.6	9.6	9.0	10.4	9.4	15.0	10.0	14.5	13.7	17.7	16.2	12.3	10.2	8.4	11.4	11.8	10.4	11.4	10.5	7.8	37.2	37.2	7.8	12.2
18	51.7	8.1	32.4	15.0	53.9	62.2	48.1	9.2	5.3	5.6	14.8	4.5	3.7	6.1	5.0	6.5	8.6	27.8	73.7	48.3	16.0	32.1	38.6	66.5	73.7	3.7	26.8
19	45.0	13.0	12.8	13.2	13.7	13.1	14.2	23.7	33.7	26.9	21.1	35.1	10.0	8.3	23.3	23.6	14.2	53.4	50.2	54.8	54.7	26.8	42.4	22.9	54.8	8.3	27.1
20	41.3	21.1	13.5	13.9	8.8	7.7	6.8	11.1	12.3	7.7	16.0	48.9	38.5	36.0	32.7	13.5	28.7	37.9	16.2	27.9	37.2	18.0	13.3	13.1	48.9	6.8	21.8
21	12.4	11.7	11.8	9.9	8.6	9.3	9.6	10.0	10.5	10.4	10.9	11.0	11.9	12.8	13.4	46.2	44.3	13.6	52.2	9.5	20.6	24.1	38.9	28.8	52.2	8.6	18.4
22	16.2	15.2	11.6	9.8	9.9	8.7	6.8	9.1	7.5	16.2	49.4	29.1	30.6	25.9	6.4	7.3	6.2	5.9	9.3	12.0	14.3	21.1	13.8	15.3	49.4	5.9	14.9
23	10.7	8.7	11.1	8.2	11.3	9.2	7.7	7.1	11.1	9.4	11.2	7.4	4.4	11.3	22.4	5.6	6.6	34.9	50.6	20.2	13.2	16.4	15.1	15.0	50.6	4.4	13.7
24	25.7	21.4	48.7	37.4	54.7	16.0	59.6	44.6	66.7	64.0	60.3	48.1	39.3	28.6	27.7	30.2	40.1	50.7	23.7	23.7	58.0	56.4	21.6	15.0	66.7	15.0	40.1
25	14.4	36.8	36.6	45.2	30.0	11.8	7.5	6.6	5.0	4.6	13.1	12.2	7.7	8.6	9.4	11.8	12.2	12.1	14.8	12.1	14.0	16.4	12.9	14.9	45.2	4.6	15.4
26	11.9	12.3	11.1	9.8	10.9	11.5	10.0	10.3	9.6	8.6	8.8	9.4	9.6	9.8	10.8	11.1	10.1	10.3	9.5	9.4	9.4	10.7	10.5	9.8	12.3	8.6	10.2
27	10.2	11.0	8.5	10.6	9.9	9.7	10.5	9.4	10.6	11.7	11.7	9.5	11.9	14.8	60.4	24.4	21.4	40.0	36.3	65.9	33.9	27.6	35.6	42.9	65.9	8.5	22.4
28	21.1	31.9	22.7	13.7	13.6	16.9	20.0	28.6	32.6	22.9	10.7	32.2	12.9	15.3	32.1	5.0	5.7	3.2	28.9	48.2	27.2	32.0	16.4	12.9	48.2	3.2	21.1
29	17.6	25.5	16.1	14.6	14.7	14.4	18.1	11.8	14.0	17.5	18.2	25.9	29.1	6.7	32.9	15.3	14.7	17.4	32.5	33.7	17.8	22.7	26.0	25.4	33.7	6.7	20.1
30	8.3	9.8	11.7	18.2	23.7	21.1	14.1	20.4	5.4	4.0	4.8	56.2	35.7	49.5	10.4	11.7	19.2	39.8	45.4	47.8	64.4	63.2	67.3	57.6	67.3	4.0	29.6
Max.	**65.2**	**65.4**	**54.1**	**50.6**	**72.1**	**62.2**	**59.6**	**61.7**	**67.3**	**64.0**	**60.3**	**65.8**	**72.4**	**68.5**	**60.4**	**61.5**	**64.0**	**57.9**	**73.7**	**73.5**	**71.4**	**72.7**	**89.5**	**84.7**	**89.5**		
Min.	**6.1**	**6.3**	**7.5**	**5.8**	**4.5**	**5.5**	**6.4**	**5.2**	**4.7**	**4.0**	**3.5**	**4.5**	**3.7**	**4.9**	**5.0**	**5.0**	**5.7**	**3.2**	**7.4**	**7.3**	**4.0**	**6.6**	**7.0**	**8.9**		**3.2**	
Avg.	**26.4**	**21.1**	**22.7**	**21.3**	**25.1**	**23.4**	**20.4**	**18.8**	**19.4**	**17.5**	**20.1**	**25.7**	**20.7**	**21.7**	**22.3**	**19.6**	**21.5**	**25.0**	**31.5**	**32.8**	**31.3**	**29.9**	**29.7**	**29.8**			**24.1**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

May *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	28.2	18.4	12.4	12.4	13.3	16.0	13.0	9.5	11.5	11.0	10.3	10.4	10.4	9.7	9.8	11.2	10.0	11.0	11.6	11.6	10.7	10.1	10.9	10.1	28.2	9.5	12.2
2	10.1	10.7	9.8	9.3	9.6	8.6	9.5	8.8	9.5	10.2	8.8	9.0	9.7	11.7	11.5	10.8	11.4	10.9	8.3	9.9	9.5	32.2	39.2	19.1	39.2	8.3	12.4
3	11.5	12.8	12.1	10.8	11.8	11.6	9.9	10.7	10.0	8.6	9.1	9.5	9.0	8.9	10.3	13.6	13.4	16.5	13.4	11.2	12.7	13.0	11.6	11.2	16.5	8.6	11.4
4	9.3	11.7	13.5	11.7	15.9	34.4	64.1	39.0	50.3	47.0	27.3	47.0	58.6	66.4	37.8	46.1	66.4	30.9	41.2	44.2	74.0	34.2	16.0	17.4	74.0	9.3	37.7
5	13.4	14.0	20.7	14.9	12.7	11.5	11.0	10.4	8.7	11.2	10.3	11.7	12.5	11.4	57.0	43.2	55.1	76.5	42.5	37.7	25.9	42.1	41.6	10.6	76.5	8.7	25.3
6	13.4	43.8	37.7	22.2	17.0	17.6	19.0	10.8	7.2	25.8	15.7	16.7	16.8	18.0	33.8	15.4	16.2	15.1	20.9	29.5	30.1	32.0	32.9	29.0	43.8	7.2	22.4
7	20.9	26.5	31.6	28.4	34.1	39.9	34.5	28.8	29.0	26.6	24.6	30.0	50.1	70.0	57.9	49.0	31.6	42.6	47.4	42.4	50.0	58.1	20.1	17.4	70.0	17.4	37.1
8	15.7	28.3	36.3	17.2	12.5	9.1	8.2	6.0	8.8	11.9	8.6	9.2	9.6	9.4	10.7	10.5	11.2	9.9	9.9	10.3	10.2	10.4	10.4	10.4	36.3	6.0	12.3
9	9.8	9.7	10.4	9.5	9.7	10.0	9.8	10.9	9.4	10.2	10.3	10.3	9.8	9.4	9.2	9.8	10.0	9.0	9.1	10.0	10.1	10.0	10.0	10.3	10.9	9.0	9.9
10	10.7	9.9	10.7	10.6	9.1	8.7	11.6	13.1	14.0	22.6	22.5	15.6	32.7	37.0	35.6	42.8	50.3	60.3	37.6	59.7	15.4	33.4	9.8	22.8	60.3	8.7	24.8
11	24.2	5.5	8.6	23.1	48.3	12.4	11.4	6.1	5.2	5.8	6.6	24.3	23.6	33.6	37.4	18.7	10.2	25.7	44.7	11.5	32.5	14.1	14.8	21.8	48.3	5.2	19.6
12	12.6	13.7	14.2	10.0	16.6	14.0	40.1	13.3	11.1	17.0	19.1	39.4	39.9	27.5	14.9	25.4	60.2	65.5	65.1	57.7	67.3	12.6	17.8	9.1	67.3	9.1	28.5
13	9.9	7.9	14.4	12.2	12.1	12.0	13.0	13.5	13.0	15.0	7.2	10.2	27.3	42.6	38.3	25.2	38.9	40.2	64.9	56.6	19.0	12.9	28.3	61.0	64.9	7.2	24.8
14	52.2	20.4	23.0	17.6	33.8	12.2	8.7	5.1	36.6	30.1	11.9	15.3	20.2	25.4	19.8	18.4	17.6	25.1	17.3	20.0	16.3	38.4	54.8	12.6	54.8	5.1	23.0
15	20.4	35.3	8.6	20.0	38.0	16.9	43.1	13.3	12.0	20.8	17.8	12.6	6.0	8.4	5.8	5.0	5.3	5.7	10.4	14.0	29.0	24.9	19.7	63.1	63.1	5.0	19.0
16	65.5	38.7	14.4	13.8	18.1	15.2	21.6	28.6	13.3	5.4	10.9	13.4	11.5	15.6	9.1	7.1	5.6	7.5	5.6	19.9	9.1	7.6	9.6	18.2	65.5	5.4	16.1
17	36.5	10.1	5.6	5.9	5.4	6.5	7.5	7.2	8.9	8.8	10.0	13.4	11.4	15.6	13.7	11.5	13.9	21.4	26.1	30.1	32.8	43.3	55.6	17.1	55.6	5.4	17.4
18	8.1	9.2	10.7	6.2	6.7	19.2	3.5	13.9	41.4	28.0	23.9	35.0	34.1	28.1	44.8	63.8	57.7	36.5	37.7	41.0	36.5	62.5	66.2	30.8	66.2	3.5	31.1
19	23.9	27.1	18.0	15.7	18.6	29.1	12.9	7.4	4.4	34.4	14.7	27.9	18.2	31.7	28.3	53.4	57.0	38.1	15.3	15.6	41.7	38.2	24.9	13.6	57.0	4.4	25.4
20	9.5	10.9	9.8	11.9	10.7	9.7	9.7	11.3	11.6	10.0	11.0	11.8	9.6	8.4	8.0	10.5	11.4	12.8	8.0	14.9	29.9	33.3	18.6	56.0	56.0	8.0	14.6
21	36.2	31.7	62.4	50.0	62.8	39.8	15.7	14.7	31.9	16.9	15.6	16.4	21.4	52.1	46.9	29.2	56.0	58.9	41.2	26.5	21.4	14.5	13.4	15.6	62.8	13.4	33.0
22	18.9	19.5	15.4	17.9	18.6	15.7	13.5	11.2	12.6	11.5	50.3	19.0	36.4	38.2	18.3	16.9	15.6	14.6	14.0	27.7	55.8	12.4	16.9	15.6	55.8	11.2	21.1
23	7.0	22.0	51.0	61.0	49.8	56.3	32.4	34.2	41.3	17.1	20.4	27.2	10.1	6.5	7.6	11.0	21.1	14.0	21.0	54.8	64.1	21.3	9.6	10.3	64.1	6.5	28.0
24	7.4	7.7	10.3	56.3	56.9	12.2	33.5	10.1	23.4	7.7	7.9	13.6	2.1	63.7	19.5	15.7	13.7	17.1	49.9	43.6	51.3	24.9	10.7	10.9	63.7	2.1	23.7
25	14.7	9.9	57.7	52.8	35.5	12.0	50.8	57.4	50.6	33.3	8.8	11.9	7.8	18.1	23.8	13.5	31.5	36.4	49.9	75.0	22.7	12.8	10.7	9.6	75.0	7.8	29.5
26	8.8	10.1	11.4	8.7	10.4	13.4	10.1	8.1	8.3	40.8	19.8	9.9	7.0	14.9	45.1	13.1	16.2	22.6	27.2	55.3	40.5	14.2	10.4	24.6	55.3	7.0	18.8
27	11.8	9.4	71.5	55.6	11.8	15.0	15.9	13.7	18.8	15.7	30.7	12.5	60.3	53.7	9.8	21.2	17.1	25.5	19.3	30.5	58.2	15.0	7.7	18.1	71.5	7.7	25.8
28	9.1	13.5	38.7	17.2	13.7	10.9	42.6	52.1	23.5	5.2	5.3	4.6	4.4	4.4	3.3	3.9	3.6	7.8	11.8	14.6	31.1	18.7	17.5	15.8	52.1	3.3	15.6
29	46.1	44.1	47.0	37.0	56.3	31.6	12.4	49.6	28.1	14.9	48.1	17.8	29.5	29.2	27.9	43.3	68.3	50.2	52.2	39.9	64.7	32.3	45.5	44.0	68.3	12.4	40.0
30	38.2	20.0	39.4	19.8	34.6	8.5	9.5	10.0	17.6	11.9	40.7	40.4	46.4	41.1	36.4	48.5	21.5	65.8	45.4	40.1	61.7	65.2	46.5	32.1	65.8	8.5	35.0
31	63.8	8.6	10.2	11.3	11.4	14.9	16.1	37.9	18.6	14.2	10.4	7.9	5.6	6.3	8.8	8.7	7.8	7.8	17.3	18.8	11.0	18.1	24.4	46.0	63.8	5.6	16.9
Max.	**65.5**	**44.1**	**71.5**	**61.0**	**62.8**	**56.3**	**64.1**	**57.4**	**50.6**	**47.0**	**50.3**	**47.0**	**60.3**	**70.0**	**57.9**	**63.8**	**68.3**	**76.5**	**65.1**	**75.0**	**74.0**	**65.2**	**66.2**	**63.1**	**76.5**		
Min.	**7.0**	**5.5**	**5.6**	**5.9**	**5.4**	**6.5**	**3.5**	**5.1**	**4.4**	**5.2**	**5.3**	**4.6**	**2.1**	**4.4**	**3.3**	**3.9**	**3.6**	**5.7**	**5.6**	**9.9**	**9.1**	**7.6**	**7.7**	**9.1**		**2.1**	
Avg.	**21.5**	**18.1**	**23.8**	**21.6**	**23.1**	**17.6**	**19.8**	**18.3**	**19.0**	**17.7**	**17.4**	**17.9**	**21.0**	**26.3**	**23.9**	**23.1**	**26.6**	**28.4**	**28.6**	**31.4**	**33.7**	**26.2**	**23.4**	**22.7**			**23.0**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

June *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	64.9	60.7	63.4	26.9	33.9	21.7	15.1	11.4	18.6	13.4	11.0	8.6	12.4	7.2	5.7	7.5	5.9	13.9	27.9	18.0	36.2	31.9	19.8	8.2	64.9	5.7	22.7
2	14.3	17.2	9.3	6.6	9.6	20.3	12.4	10.5	7.4	5.2	5.2	4.9	9.5	70.1	39.9	34.7	33.1	39.3	49.6	75.6	69.0	22.4	45.8	40.1	75.6	4.9	27.2
3	48.8	65.7	66.4	35.3	43.3	59.0	25.6	22.2	39.2	48.8	69.3	31.6	38.9	52.6	49.8	34.0	30.9	63.9	37.5	57.6	36.9	33.3	74.3	30.9	74.3	22.2	45.7
4	24.2	15.5	23.2	28.7	15.0	14.4	10.6	7.3	16.3	19.9	29.9	10.6	12.3	6.5	6.1	8.4	9.9	11.1	9.8	11.5	13.3	11.2	39.2	8.1	39.2	6.1	15.1
5	6.6	7.5	13.9	55.2	72.4	51.3	4.7	5.6	24.1	31.6	10.7	5.4	4.9	5.2	4.8	4.8	6.1	7.0	10.2	7.7	6.4	14.5	20.3	17.2	72.4	4.7	16.6
6	6.7	7.9	8.7	60.6	7.6	21.5	7.3	19.9	18.2	19.9	17.9	11.8	10.3	12.2	12.0	17.5	22.3	46.2	49.2	48.0	48.7	32.5	61.4	20.5	61.4	6.7	24.5
7	19.7	9.7	20.7	37.3	48.6	59.2	47.4	78.3	61.4	37.0	75.5	52.7	83.8	75.0	71.5	57.6	57.7	49.5	42.8	65.5	51.1	24.5	43.3	38.4	83.8	9.7	50.3
8	43.1	29.0	32.0	17.8	18.9	12.6	15.5	12.5	12.3	10.9	10.1	11.9	10.7	11.2	12.8	11.6	13.0	12.3	12.6	10.5	12.4	11.2	9.5	10.3	43.1	9.5	15.2
9	11.5	12.0	11.0	10.9	10.0	11.5	10.3	11.2	11.1	10.3	11.0	11.2	11.2	10.7	11.3	11.4	11.8	51.1	46.8	46.7	32.6	60.2	28.8	46.6	60.2	10.0	20.9
10	52.3	56.9	73.8	42.2	53.5	58.8	78.7	66.6	73.9	64.6	61.5	72.7	74.3	69.7	54.1	67.2	50.1	65.4	59.7	62.2	54.0	30.0	38.9	64.4	78.7	30.0	60.2
11	69.5	43.0	56.3	27.1	23.4	14.9	34.5	15.2	15.6	18.9	15.3	11.0	11.5	10.5	10.8	11.7	10.9	12.3	11.7	12.1	14.0	11.6	11.5	11.3	69.5	10.5	20.2
12	11.6	11.0	12.4	10.8	11.4	11.4	10.5	10.4	8.7	12.8	33.7	25.8	40.0	49.5	26.0	65.2	28.4	22.1	22.0	11.4	18.4	14.4	39.7	56.9	65.2	8.7	23.5
13	29.1	31.4	22.5	40.3	26.1	67.3	25.8	25.9	34.2	49.3	15.0	7.4	4.6	4.8	5.8	6.8	3.4	5.4	7.1	10.3	8.6	8.2	29.7	51.4	67.3	3.4	21.7
14	27.9	21.8	60.2	35.3	30.1	54.9	52.6	16.8	79.3	8.5	12.8	11.2	7.1	10.9	37.9	41.8	27.1	6.1	7.2	38.9	27.3	21.6	10.3	8.7	79.3	6.1	27.3
15	9.5	10.3	10.5	11.1	15.4	38.1	28.1	19.5	18.5	17.8	11.1	7.8	7.9	14.5	8.6	10.4	33.9	39.3	26.6	16.6	49.1	55.0	26.7	50.0	55.0	7.8	22.3
16	32.6	26.3	35.8	46.6	15.4	12.9	25.7	7.8	12.6	8.2	8.2	38.1	29.8	13.3	48.1	50.3	33.2	26.3	33.2	51.6	27.6	7.4	5.5	9.5	51.6	5.5	25.2
17	6.4	39.3	17.9	69.9	21.5	9.6	5.3	8.1	4.1	4.7	8.1	23.6	27.9	13.2	11.0	11.6	8.2	5.9	7.8	10.8	31.7	37.2	14.5	13.8	69.9	4.1	17.2
18	13.0	54.7	9.4	9.3	10.1	10.3	11.3	11.1	12.1	11.3	9.7	10.8	10.6	11.5	10.3	12.3	10.9	10.7	10.7	8.5	12.0	14.3	10.0	8.7	54.7	8.5	12.6
19	10.4	9.6	12.0	10.1	10.0	9.4	9.4	9.6	12.0	12.7	13.4	11.6	8.3	9.9	11.0	22.7	42.7	23.4	18.2	11.2	10.3	26.9	10.6	6.2	42.7	6.2	13.8
20	13.6	12.0	47.6	13.3	49.0	52.4	7.5	26.5	3.6	4.4	5.9	13.4	19.9	43.4	43.0	19.8	61.4	55.2	20.3	29.9	8.9	9.5	16.5	17.2	61.4	3.6	24.8
21	15.2	8.5	18.2	10.5	12.3	13.3	10.2	8.4	8.5	21.1	12.4	6.8	7.5	3.6	4.8	7.2	4.1	6.2	6.8	12.0	13.8	44.0	63.9	55.0	63.9	3.6	15.6
22	69.2	16.9	15.0	39.5	17.3	12.3	40.4	54.5	52.5	21.8	20.7	29.0	8.6	25.0	41.0	39.7	53.4	18.1	19.9	21.6	21.8	15.5	41.4	6.9	69.2	6.9	29.3
23	9.3	10.5	19.4	15.4	44.7	59.4	6.5	32.4	7.1	4.6	19.0	10.5	12.3	9.0	6.8	4.0	3.4	7.0	3.8	5.7	13.4	7.8	21.0	22.8	59.4	3.4	14.8
24	23.9	25.5	24.8	10.2	16.5	8.2	8.6	6.9	18.2	24.8	5.7	3.8	8.5	11.5	7.9	16.1	12.2	8.0	8.8	8.2	24.6	37.2	21.3	19.3	37.2	3.8	15.0
25	12.7	15.0	32.3	78.0	46.8	27.3	17.2	46.0	10.4	11.2	16.1	13.4	6.6	6.0	14.5	6.7	12.1	6.3	11.2	21.9	18.2	22.5	24.7	30.7	78.0	6.0	21.2
26	26.5	18.2	27.5	45.5	50.8	47.4	9.0	11.4	34.9	26.3	45.7	19.7	16.1	23.0	33.4	58.6	19.0	9.8	36.3	55.8	26.6	47.7	14.1	18.6	58.6	9.0	30.1
27	30.8	33.9	62.7	39.5	60.1	11.4	6.7	26.7	9.8	11.6	5.7	5.5	6.2	5.4	6.1	5.3	5.7	4.7	16.4	69.5	63.3	23.0	41.6	25.9	69.5	4.7	24.1
28	24.5	38.2	59.1	42.4	32.4	18.9	16.5	15.3	15.8	15.0	16.0	42.7	43.1	48.8	40.6	47.7	43.4	32.3	52.2	45.7	44.0	47.4	40.9	56.3	59.1	15.0	36.6
29	43.6	48.1	52.2	41.8	45.7	40.9	33.8	57.3	25.6	39.0	35.3	13.2	19.0	11.4	40.0	35.7	41.4	44.4	34.9	58.6	73.8	75.0	76.5	77.2	77.2	11.4	44.3
30	62.7	17.8	53.7	39.2	19.8	9.2	9.8	8.9	8.2	9.2	47.5	12.0	8.2	8.4	7.3	7.4	9.5	12.7	14.1	46.3	47.9	24.0	14.7	19.8	62.7	7.3	21.6
Max.	**69.5**	**65.7**	**73.8**	**78.0**	**72.4**	**67.3**	**78.7**	**78.3**	**79.3**	**64.6**	**75.5**	**72.7**	**83.8**	**75.0**	**71.5**	**67.2**	**61.4**	**65.4**	**59.7**	**75.6**	**73.8**	**75.0**	**76.5**	**77.2**	**83.8**		
Min.	**6.4**	**7.5**	**8.7**	**6.6**	**7.6**	**8.2**	**4.7**	**5.6**	**3.6**	**4.4**	**5.2**	**3.8**	**4.6**	**3.6**	**4.8**	**4.0**	**3.4**	**4.7**	**3.8**	**5.7**	**6.4**	**7.4**	**5.5**	**6.2**		**3.4**	
Avg.	**27.8**	**25.8**	**32.4**	**31.9**	**29.0**	**28.7**	**19.9**	**22.1**	**22.5**	**19.8**	**22.0**	**18.0**	**19.1**	**21.8**	**22.8**	**24.5**	**23.5**	**23.9**	**23.8**	**31.7**	**30.5**	**27.4**	**30.6**	**28.4**			**25.3**

Total Hours in Month 720 **Hours Data Available** 720 **Data Recovery** 100.0%

HCG, Inc.

Northern Dynasty Mines Pebble Port Meterological Station - Wind Sigma (RM Young)

July *2006*

Day	100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	Max.	Min.	Avg.
1	23.1	16.6	25.5	20.1	15.3	19.2	17.9	22.4	24.1	19.1	10.6	9.7	12.1	11.6	10.6	8.6	7.0	10.2	24.4	55.8	53.7	39.8	70.9	31.7	70.9	7.0	23.3
2	21.2	11.6	25.0	40.9	23.6	22.7	19.9	13.0	11.6	12.0	26.7	47.7	17.0	26.1	13.3	39.9	32.4	32.5	55.2	78.5	74.4	32.3	42.1	17.6	78.5	11.6	30.7
3	17.8	33.3	25.2	26.4	15.4	35.0	13.3	22.7	10.4	15.9	11.4	17.2	9.2	6.5	6.6	6.0	11.5	40.3	26.3	16.4	19.1	18.2	22.5	46.4	46.4	6.0	19.7
4	36.6	20.1	32.8	43.6	41.3	16.0	14.3	14.5	11.7	9.8	8.3	7.3	6.6	6.9	5.5	5.3	6.5	13.6	9.5	10.5	19.7	18.9	10.9	30.5	43.6	5.3	16.7
5	26.8	49.9	20.1	12.2	22.6	21.0	29.4	21.0	35.2	11.7	10.4	14.1	11.2	10.1	9.2	9.6	10.1	8.6	9.1	11.3	19.2	16.0	19.7	11.2	49.9	8.6	17.5
6	24.6	62.2	32.9	23.2	12.3	21.9	15.6	13.5	9.9	10.1	6.9	7.1	8.2	8.7	7.1	7.7	9.9	8.6	10.2	29.3	23.2	47.3	55.1	36.1	62.2	6.9	20.5
7	62.6	32.0	72.8	66.5	54.0	53.9	39.5	42.6	42.5	19.2	28.1	12.7	28.7	30.6	14.0	33.0	50.7	38.8	20.8	33.5	41.2	53.9	12.1	7.1	72.8	7.1	37.1
8	7.3	9.4	48.1	27.4	48.0	18.3	40.6	40.0	64.9	22.1	25.5	23.4	16.3	15.4	16.2	41.1	16.8	27.8	38.9	16.6	18.0	29.6	39.8	17.3	64.9	7.3	27.9
9	16.3	18.7	18.4	11.9	13.4	11.4	13.3	11.6	25.2	22.4	12.3	8.3	6.0	7.0	5.8	17.3	57.0	32.9	23.7	29.6	26.9	45.9	46.4	25.8	57.0	5.8	21.1
10	35.4	40.2	38.3	20.1	31.0	39.3	50.0	42.0	24.4	37.8	22.2	21.8	27.9	34.8	27.5	43.9	43.7	66.4	17.7	52.1	29.9	22.2	43.0	45.5	66.4	17.7	35.7
11	51.2	35.0	31.0	26.5	37.2	33.9	23.0	20.3	10.4	31.1	11.3	10.4	32.8	33.5	4.7	12.0	8.9	26.9	32.1	24.4	8.7	13.8	44.0	40.3	51.2	4.7	25.1
12	62.4	16.9	15.9	15.2	8.4	9.7	10.1	8.3	16.2	9.1	27.9	14.6	9.9	7.6	6.6	25.4	49.6	57.2	13.8	37.9	58.3	59.5	42.9	15.8	62.4	6.6	25.0
13	61.7	37.7	50.5	72.9	75.1	29.7	62.8	84.7	52.2	47.4	29.2	15.5	14.9	15.6	19.6	23.8	26.7	28.8	22.4	20.9	18.4	27.3	31.6	40.6	84.7	14.9	37.9
14	32.6	33.6	35.0	37.3	30.8	52.3	73.2	70.0	56.0	36.9	27.8	22.0	19.8	20.9	22.1	39.8	65.5	61.9	45.6	66.9	27.6	33.3	32.0	30.5	73.2	19.8	40.6
15	31.6	33.9	13.4	15.9	24.5	16.7	16.1	20.5	38.3	33.0	55.0	81.6	66.3	37.2	7.4	15.9	28.5	42.2	24.9	28.8	59.2	82.3	66.0	16.2	82.3	7.4	35.6
16	11.1	41.9	18.8	32.1	58.3	17.4	15.2	21.4	47.9	68.0	77.2	43.2	72.9	46.1	29.1	39.2	59.0	37.5	50.4	58.2	35.0	67.2	52.0	39.3	77.2	11.1	43.3
17	56.7	63.5	21.9	26.2	41.4	27.6	44.8	62.1	69.8	58.0	64.6	54.0	38.6	14.1	9.7	10.9	30.9	28.4	16.0	13.5	12.8	28.2	12.2	16.0	69.8	9.7	34.2
18	20.8	17.4	12.8	14.6	18.2	14.2	10.6	16.3	52.9	18.1	55.8	38.1	55.9	51.3	62.2	21.8	58.9	37.2	30.1	38.8	18.1	43.1	57.9	40.3	62.2	10.6	33.6
19	49.5	60.9	39.5	20.1	14.2	12.8	11.6	11.3	11.5	10.0	9.8	9.4	9.0	10.1	9.5	10.0	10.8	12.8	10.4	11.3	46.4	50.2	25.3	11.4	60.9	9.0	19.9
20	13.0	12.8	13.5	14.2	9.7	10.7	9.7	10.9	10.4	11.0	9.6	8.9	9.4	10.4	10.2	10.1	9.5	11.5	10.5	10.0	54.4	12.4	36.3	47.4	54.4	8.9	15.3
21	6.6	13.4	12.1	58.4	42.8	26.2	13.0	13.0	11.5	9.5	11.2	10.6	10.4	10.5	11.8	35.0	25.5	11.9	27.1	15.3	36.8	15.8	14.5	22.3	58.4	6.6	19.4
22	9.8	16.1	15.9	12.5	29.3	8.9	9.9	9.7	10.5	11.0	9.8	9.8	10.8	32.1	31.1	17.2	34.4	64.6	21.3	12.4	9.9	10.7	10.0	11.6	64.6	8.9	17.5
23	13.6	10.2	16.6	58.4	16.9	23.3	16.4	16.0	12.5	13.6	10.8	11.3	10.6	10.3	10.1	12.3	43.5	42.5	12.5	11.4	10.3	9.9	10.1	12.3	58.4	9.9	17.3
24	13.1	13.4	12.5	10.0	10.5	9.0	10.5	10.0	13.1	14.5	12.8	10.6	12.8	55.0	32.7	33.7	60.8	53.9	34.1	44.9	34.4	54.6	37.3	18.7	60.8	9.0	25.5
25	14.1	9.3	9.4	10.4	36.1	43.6	59.4	47.3	33.9	20.1	38.3	49.6	24.3	7.3	6.5	9.0	14.1	55.4	33.9	15.0	23.9	34.7	20.8	27.1	59.4	6.5	26.8
26	25.0	11.1	16.4	45.1	50.3	50.1	61.8	52.5	73.4	74.3	60.9	33.9	30.6	40.1	36.6	31.0	32.8	31.4	28.6	26.3	20.0	17.0	14.2	14.4	74.3	11.1	36.6
27	13.7	14.3	14.7	15.2	16.5	29.9	18.5	7.8	9.1	11.5	23.3	29.8	17.2	14.2	10.8	6.1	5.5	8.0	11.0	7.7	7.6	39.3	15.9	8.3	39.3	5.5	14.8
28	32.3	14.2	30.6	14.1	63.2	4.9	6.1	6.4	10.5	36.7	10.5	11.4	10.7	6.8	5.8	6.3	5.6	5.9	7.8	46.7	72.5	38.8	54.1	43.0	72.5	4.9	22.7
29	49.9	58.6	25.9	38.7	22.6	23.1	21.8	19.5	16.8	24.6	23.1	43.1	45.0	28.3	34.3	28.8	33.6	29.1	44.5	40.1	48.9	37.8	47.8	38.3	58.6	16.8	34.4
30	46.7	51.2	55.8	38.6	47.9	38.4	43.2	46.2	57.3	41.2	57.4	60.9	74.6	71.4	34.0	42.1	37.9	45.1	44.4	38.1	62.8	58.3	58.8	66.5	74.6	34.0	50.8
31	39.9	21.9	19.2	18.8	15.4	32.5	33.9	18.5	23.6	26.3	55.5	41.3	76.7	61.8	64.0	66.9	33.2	69.1	59.4	49.7	21.0	13.2	13.5	25.6	76.7	13.2	37.5
Max.	**62.6**	**63.5**	**72.8**	**72.9**	**75.1**	**53.9**	**73.2**	**84.7**	**73.4**	**74.3**	**77.2**	**81.6**	**76.7**	**71.4**	**64.0**	**66.9**	**65.5**	**69.1**	**59.4**	**78.5**	**74.4**	**82.3**	**70.9**	**66.5**	**84.7**		
Min.	**6.6**	**9.3**	**9.4**	**10.0**	**8.4**	**4.9**	**6.1**	**6.4**	**9.1**	**9.1**	**6.9**	**7.1**	**6.0**	**6.5**	**4.7**	**5.3**	**5.5**	**5.9**	**7.8**	**7.7**	**7.6**	**9.9**	**10.0**	**7.1**		**4.7**	
Avg.	**29.9**	**28.4**	**26.5**	**28.6**	**30.5**	**25.0**	**26.6**	**26.3**	**29.0**	**25.4**	**27.2**	**25.1**	**25.7**	**23.9**	**18.5**	**22.9**	**29.7**	**33.6**	**26.3**	**30.7**	**32.7**	**34.6**	**34.2**	**27.6**			**27.9**

Total Hours in Month 744 **Hours Data Available** 744 **Data Recovery** 100.0%

HCG, Inc.

Appendix E

Validated Manual Particulate Data

Not Applicable.