



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

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Seattle, WA 98104-3855

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www.kingcounty.gov/solidwaste

May 31, 2020

TO: Darshan Dhillon, Health & Environmental Investigator, Environmental Health Division,
Public Health – Seattle and King County (PHSKC)

VIA: Laura Belt, P.E., Engineer Supervisor, Solid Waste Division (SWD), Department of
Natural Resources & Parks (DNRP) *LB*

FM: Kris McArthur, Engineer III, SWD, DNRP *DS*
KM

RE: Cedar Hills Regional Landfill Environmental Monitoring Report for the First Quarter of 2020

The purpose of this memorandum is to transmit the latest quarterly environmental report for the Cedar Hills Regional Landfill (Landfill) for your review. This report includes environmental data collected from January 1st, 2020 through March 31st, 2020. The report contains groundwater monitoring results and evaluations as described in *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill (Dec, 2013)*, storm water quality requirements under the *Industrial Stormwater General Permit*, and a compilation of other environmental data collected from the Landfill.

Also included with this submittal is a copy of the Area 5 Top Deck Monitoring Report for the First Quarter of 2020. This report addresses the activities specified in “Determination Regarding Proposed Extended Use of Temporary Cover for Cedar Hills Landfill Area 5” memorandum dated December 19, 2006.

If you have any questions, please call Laura at 206-477-5215 or me at 206-477-4557.

Enclosures

cc: Yolanda Pon, Solid Waste Program Supervisor, PHSKC
Alan Noell, Ph.D., P.E., Solid Waste Program, Washington State Department of Ecology
Glynda Steiner, P.E., CCM, Deputy Division Director, SWD, DNRP
Neil Fujii, P.E., FESS Manager, SWD, DNRP



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May 31, 2020

Alan Noell, Ph.D., P.E.
Solid Waste Program
Washington State Department of Ecology
Northwest Regional Office
3190 – 160th Avenue SE
Bellevue, WA 98008-5452

RE: Cedar Hills Regional Landfill Environmental Quarterly Report for the First Quarter of 2020

Dear Mr. Noell:

The purpose of this letter is to transmit a copy of the Solid Waste Division's Environmental Monitoring Quarterly Report for the Cedar Hills Regional Landfill (Landfill). This report includes environmental data collected from January 1st, 2020 through March 31st, 2020. The report contains groundwater monitoring results and evaluations as described in *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill* (Dec, 2013), storm water quality requirements under the Industrial Stormwater General Permit, and a compilation of other environmental data collected from the Landfill.

Also included with this submittal is a copy of the Area 5 Top Deck Monitoring Report for the First Quarter of 2020. This report addresses the activities specified in the "Determination Regarding Proposed Extended Use of Temporary Cover for Cedar Hills Landfill Area 5" memorandum dated December 19, 2006.

If you have any questions, please contact Laura Belt at 206-477-5215 or me at 206-477-4557.

Sincerely,

DocuSigned by:

Kris McArthur

AE109EA333B74D9...

Kris McArthur

Engineer III

Enclosures

cc: Yolanda Pon, Solid Waste Program Supervisor, Environmental Health
Division, Public Health - Seattle and King County (PHSKC)
Darshan Dhillon, Health & Environmental Investigator, Environmental Health Division,
PHSKC
Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD),
Department of Natural Resources and Parks (DNRP)
Neil Fujii, P.E., FESS Manager, SWD, DNRP
Laura Belt, P.E., Engineer Supervisor, SWD, DNRP

CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

First Quarter 2020



King County

Department of
Natural Resources and Parks
Solid Waste Division

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Excellence

May 2020

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CHECKLIST FOR GROUNDWATER REPORTING
Municipal Solid Waste Landfills
WAC 173-351-415

Include a signed, completed copy of this checklist with each quarterly and annual report.

Quarterly groundwater reports shall be submitted to the jurisdictional health department and Ecology within 60 days of receipt of analytical data. Annual groundwater reports shall be submitted to the jurisdictional health department and Ecology by April 1 of each year.

1 st <input checked="" type="checkbox"/> 2 nd <input type="checkbox"/> 3 rd <input type="checkbox"/> 4 th <input type="checkbox"/> YEAR <u>2020</u>	Reference (section, subsection)	Included in this report	Location – page # or appendix #
<i>Quarterly Groundwater Reports: 173-351-415 (2) plus the referenced section</i>			
Statistical calculations and summaries			
Descriptive statistics	420, (1)	<input type="checkbox"/>	
Statistical tests	420, (2)	<input checked="" type="checkbox"/>	2, 3
Notification of statistical increase (if applicable)	420, (4)	<input checked="" type="checkbox"/>	2, 3
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	<input checked="" type="checkbox"/>	25, 26, 30
Static water level readings	415, (2)	<input checked="" type="checkbox"/>	App B
Potentiometric surface elevation maps depicting flow direction	415, (2)	<input checked="" type="checkbox"/>	App A
Flow rate – calculated	415, (2)	<input checked="" type="checkbox"/>	App A
Cation-anion balances	430, (5a)	<input checked="" type="checkbox"/>	26-27, 31
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	<input type="checkbox"/>	
Trilinear diagrams	430, (5b)	<input checked="" type="checkbox"/>	16-19
Leachate analyses (if sampled and tested)	415, (2)	<input checked="" type="checkbox"/>	App B
Data entered into EIM database (date entered: _____)	415, (3)	<input type="checkbox"/>	
Complete copy of the lab report with chain of custody record.		<input type="checkbox"/>	
<i>Annual Groundwater Reports: 173-351-415 (1) YEAR</i>			
Summary of statistical results and trends	415, (1)	<input type="checkbox"/>	
Summary of groundwater flow rate and direction for the year	415, (1)	<input type="checkbox"/>	
Copy of all potentiometric maps for the year	415, (1)	<input type="checkbox"/>	
Summary geochemical evaluation	415, (1)	<input type="checkbox"/>	
<i>For Quarterly and Annual Reports</i>			
Stamped by a licensed professional	RCW 18.220	<input checked="" type="checkbox"/>	v

DocuSigned by:
Kris McArthur
 AE109EA333B74D9...

Signature of Report Author

May 29th, 2020

Date

Cedar Hills Regional Landfill

Landfill

If you need this publication in an alternate format, please call the Waste 2 Resources Program at (360) 407-6900. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

CERTIFICATION

Quarterly Report Groundwater Evaluation Report Certification

I certify in accordance with the requirements of WAC 173-351-400(c) (3), that the contents of this **Cedar Hills Regional Landfill Quarterly Environmental Monitoring Report** were prepared under my direction or supervision under a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Where applicable, some specific and related hydrogeologic portions have been duly certified by the responsible groundwater scientist. Based on my inquiry of the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Name: Laura Belt, P.E.	Title: Supervising Engineer, Facility Engineering and Science Section	Date: May 29 th , 2020
Mailing Address: Solid Waste Division King County Department of Natural Resources & Parks 201 South Jackson Street, Suite 701 Seattle, WA 98104-3855		Telephone Number: 206-477-5215
Signature: <i>Laura Belt</i>		



EXPIRES 8/10/2021

KING COUNTY SOLID WASTE DIVISION
CEDAR HILLS REGIONAL LANDFILL
 QUARTERLY ENVIRONMENTAL MONITORING REPORT

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King County Cedar Hills Regional Landfill Summary of Quarterly Environmental Monitoring First Quarter of 2020

This summary discusses quarterly environmental monitoring results for groundwater, stormwater, and landfill gas migration monitoring for Cedar Hills Regional Landfill (CHRLF).

Environmental samples were collected and analyzed in accordance with the Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill (Dec., 2013), (SAP), and the Quality Assurance Project Plan for Environmental Monitoring at King County Solid Waste Facilities (QAPP). These plans describe procedures and activities to obtain sufficient and representative quality data to adequately conduct environmental monitoring at the CHRLF and provide documentation.

1.0 Quarterly Results and Analysis

This Section discusses the current monitoring results and how they compare to previous results from samples collected at CHRLF.

1.1 Groundwater

Groundwater monitoring well details, locations, and monitoring status are presented in Table 1 and Figure 1. Monitoring activities for the first quarter are listed in Table 2.

1.1.1 Regional Aquifer

A refined conceptual model was developed in the *Cedar Hills Regional Landfill Site Wide Hydrogeologic Report Addendum (Dec., 2013)*. The model fits the site into its regional context of recharge and discharge, provides a detailed look at flow paths within the Regional Aquifer, and defines specific detection zones for each monitoring well. The model provides a thorough evaluation of the monitoring well coverage from the facility waste placement areas and indicates that CHRLF has a sufficient and effective monitoring well network in place. In addition, an alternate groundwater sampling frequency has been implemented for detection groundwater monitoring consistent with WAC 173-351-450 (see SAP, Table 1 and Figure 1).

Regional Aquifer analysis results for downgradient and crossgradient wells for this quarter are generally consistent with past results. Several upgradient wells continue to show elevated concentrations of several parameters indicating changing water quality upgradient of CHRLF.

Groundwater elevations and potentiometric surfaces are within historical ranges and reflect seasonal responses to precipitation. The Potentiometric Surface Map and Groundwater Flow Analysis Report can be found in Appendix A. Elevations measured this quarter conform to the current hydrogeologic model.

Groundwater samples were analyzed for both dissolved and total metal fractions. However, only total metals results (per WAC 173-351-430(2)(b)(ii)) were compared to primary groundwater and drinking water quality standards, as listed in WAC 173-351-990 Appendix I and Title 40 CFR Subpart G Part 141. Dissolved iron and manganese were compared to secondary groundwater quality standards, as listed in WAC 173-351-990 Appendix II.

Implementation of the most recent SAP resulted in a reduction in the total number of wells that are monitored. The remaining wells to be monitored were designated either as quarterly (all quarters of the year), or as semi-annual (second and fourth quarters of the year). This quarter, wells designated for quarterly monitoring were sampled, and are listed in Table 1.

Analytical Results

Analytical results can be viewed in Appendix B: Field and Analytical Test Results, and a discussion of groundwater criteria exceedances is below.

Exceedances of the Primary Ground Water Quality Criteria were observed for total arsenic as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-66, MW-68*, MW-81, MW-83, MW-84, MW-93, MW-94	MW-72, MW-74R, MW-75, MW-80, MW-85, MW-87

*Also exceeded Primary Federal Ground Water Quality Criteria

Exceedances of the Secondary Ground Water Quality Criteria were observed for dissolved iron as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-68	MW-72, MW-75, MW-80, MW-87

Exceedances of the Secondary Ground Water Quality Criteria were observed for dissolved manganese as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-68, MW-83, MW-84, MW-93	MW-72, MW-75, MW-80, MW-87

Primary and secondary exceedances of regulatory standards are tabulated and presented in Table 3.

Trilinear Diagrams and Ion Balance

Trilinear Diagrams (Figures 5 and 6) indicate water quality type (hydrochemical facie) based on the dissolved ion distribution. The diagrams are useful to recognize spatial and temporal variability, potential analytical error, or change in hydrochemical facie. All regional samples are within the calcium-magnesium-bicarbonate hydrochemical facie. Data are consistent with previous quarters. Ion balance calculations (Table 4) indicate no analytical error (> 10%) in any regional wells.

Prediction Limits

Intra-well upper prediction limits (UPLs) are calculated annually and have been updated with data collected through the end of 2019. Calculated prediction limits and analytical results for Appendix I parameters are presented in Table 5 and summarized below.

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	--	--

Quarterly sampled monitoring wells MW-59 and MW-84 passed out of the re-testing protocol for *cis*-1,2 dichloroethene and total barium, respectively. No prediction limit exceedances occurred during the first quarter of 2020 within the regional aquifer monitoring network.

Volatile Detections

Volatile Organic Compound (VOC) detections in regional aquifer wells this quarter are presented in Table 6. There continue to be regularly occurring detections of chlorinated solvents and their breakdown products within the monitoring network at CHRLF, all of which are associated with the upgradient Queen City Farms (QCF) Superfund site. These detections include the following:

- Cis-1,2-Dichloroethene was detected in quarterly monitored well MW-59;
- Trichloroethene (TCE) was detected in quarterly monitored wells MW-83 and MW-94.

These upgradient well detections are consistent with past data and continuing migration from QCF.

No other volatile detections occurred this quarter in regional monitoring wells.

1.1.2 Perched Zones

The East Perched Zone (EPZ) is a series of localized areas east of the Main Hill exhibiting shallow subsurface saturation that appears laterally and vertically discontinuous, predominantly within till and lacustrine silts.

The South Solid Waste Area (SSWA) Perched Zone contains perched groundwater that occurs both within pockets of variable surficial deposits comprised of local alluvium, recessional outwash, and/or weathered till (shallow perched zone), and within melt-out deposits in an overall predominately lodgment till sequence (deeper perched zone).

Groundwater elevations measured during the quarter in the Perched Zones are within historical ranges. Samples were collected from three EPZ monitoring wells (MW-30A, MW-47, and MW-62). MW-101 near the former SSWA was also sampled. Groundwater quality data from Perched Zones wells collected during the first quarter of 2020 are consistent with previous samples.

EW-25 Replacement Wells

EW-25 was decommissioned during the second quarter of 2018 (as described in the Cedar Hills Regional Landfill – EPZ Extraction Well Decommissioning Technical Memorandum) as a part of ongoing interim actions per the East Perched Zones Remedial Investigation and Feasibility Study Report (EPZ RI/FS), and therefore is no longer a part of the monitoring network. Six (6) additional replacement monitoring wells have been installed in the EPZ (MW-107 to MW-112) as described in the EPZ Phase I Interim Actions - Infrastructure Upgrades Technical Memorandum – Agency Draft. Sampling of these well began in the second quarter of 2019. Sample results from the first quarter of 2020 are included in Appendix B and exceedances included in Table 7.

MW-105

MW-105 was installed on the south side of the east leachate lagoon to have a monitoring well in the shallowest perched groundwater zone to provide early leak detection. If specific conductance shows a statistically significant increasing trend or exceeds 500 $\mu\text{mhos/cm}$ specific conductance (whichever condition is triggered first), then additional sampling (per the SAP) will be conducted and results assessed with respect to potential leakage from the lagoon.

This quarter, the conductivity at MW-105 was field measured at 215.3 $\mu\text{mhos/cm}$.

Analytical Results

Exceedances of regulatory standards for the perched zone wells are tabulated and presented in Table 7. All exceedances are consistent with past analyses and known impacts. Exceedances for newly drilled wells MW-107 through MW-112 are also included.

Trilinear Diagrams and Ion Balance

Trilinear plots for Perched Zone samples are all within the calcium-magnesium-bicarbonate hydrochemical facie, consistent with past samples (Figures 7 and 8). Ion balance calculations (Table 8) indicate no analytical error ($> 10\%$) in any perched wells, including newly drilled wells MW-107 through MW-112.

Prediction Limits

As with the regional aquifer monitoring wells, perched zone prediction limits are derived from cumulative data through the end of 2019. Calculated prediction limits for Appendix I parameters along with analytical results are presented in Table 9.

This quarter there were no prediction limit exceedances for established perched wells. Monitoring wells MW-107 through MW-112 do not yet have enough background data from sampling events to calculate prediction limits for analytical parameters.

Volatile Detections

VOC detections in the perched zones are presented in Table 10. Multiple detections listed in the table are due to switching to Lower Limit of Quantitation (LLOQ) methodology, which lowered the detection limit for a variety of VOCs. These data points are qualified 'JT' in Table 10.

All other analytes are consistent with past analyses and known impacts.

1.2 Stormwater

1.2.1 CHRLF ISGP

CHRLF stormwater discharge is authorized by an Industrial Stormwater General Permit (ISGP) issued by the Washington State Department of Ecology (Ecology). The permit defines discharge benchmarks, applicable to all facilities, and effluent limits, applicable specifically to landfills. These values are listed in Table 15. Sampling stations SW-N4, SW-SL3 and SW-GS1 (see Figure 2) are the designated points for comparison to permit benchmarks and effluent limits.

ISGP required monitoring activities for the first quarter of 2020 are listed in Table 12. There were exceedances of turbidity at GS1 and SL3 this quarter. ISGP Discharge Monitoring Reports (DMRs) are included in Appendix B.

1.2.2 CHRLF CSWGP

Beginning in 2017, a Construction Stormwater General Permit (CSWGP) was issued for CHRLF (permit number WAR305034 with Ecology) for the Area 8 construction activities. A separate Stormwater Pollution Prevention Plan (SWPPP) was also created for this CSWGP permit. Four (4) discharge locations were monitored weekly for compliance with the CSWGP in accordance with the SWPPP by the contractor during the active phase of the project. The construction contractor also inspected the required construction site Best Management Practices (BMPs) and the CSWGP monitoring locations daily during construction activities.

The four locations monitored are listed as follows:

1. C-1 (NW end of the site, downstream of the NW siltation pond);
2. C-2 (NE end of the site, downstream of the N stormwater pond);
3. C-3 (SE portion of the site, downstream of the S stormwater lagoon and upstream of the bioswale); and,
4. C-4/CHL (SW part of the site, downstream from the SW siltation pond).

Area 8 was substantially completed during the second quarter of 2019, and construction stormwater monitoring by the contractor discontinued at the time of completion. The permit however remains active, with monitoring continued by SWD staff monthly.

There were CSWGP exceedances for turbidity at monitoring location C-3 during the first quarter of 2020 (see Table 14). Copies of required stormwater reports submitted to Ecology are included in Appendix B.

1.3 Landfill Gas

Compliance probes, interior probes, on-site buildings, and supplemental monitoring probe results and location maps are included in Appendix B.

1.3.1 Compliance Probe Network

A network of compliance probes is monitored for landfill gas (LFG) migration around the perimeter of the landfill. Probes are monitored by the LFG crew monthly to monitor system performance and quarterly for compliance. The location map for the compliance probes can be viewed in Figure 4 and in Appendix B. The monitoring results for the compliance probes during this quarter are located in Appendix B.

There were no compliance probe methane exceedances during the first quarter of 2020.

1.3.2 Interior Probe Network

Additional probes on the landfill site, located interior to the compliance probes but outside of the waste footprint, are monitored monthly. These probes provide valuable information for optimizing the performance of the LFG collection system and help to prevent LFG migration. The location map and monitoring results for the interior probes during the first quarter of 2020 can be viewed in Appendix B.

1.3.3 On-Site Building Monitoring

As required by WAC 173-351-200, gas concentrations are monitored inside facility structures. Structures are monitored quarterly for methane. No detections of methane occurred this quarter. The location map and monitoring results for facility gas monitoring during the first quarter of 2020 are presented in Appendix B.

1.3.4 Supplemental Migration Monitoring

Detections above the regulatory limit in LFG probe GP-33C in September of 2011 prompted actions including monitoring frequency increase, operational adjustments to increase LFG recovery rates, off-site structure monitoring, and, preparation of a response plan. Operational review resulted in modifications to enhance extraction from unlined areas and under liner spaces that could potentially act as gas conveyance pathways. The plan resulted in installation of thirteen (13) borings targeting the potential zone of LFG migration in the native sediments. Eight (8) borings serve as LFG extraction wells and five (5) borings as monitoring probes. The extraction wells and migration probes are monitored twice a month.

This quarter, no methane was detected at levels above the detection limit. The location map and supplemental monitoring results are included in Appendix B.

Review of historical data indicates the system has been effective in controlling LFG migration to the perimeter probes.

2.0 Analytical Methods

Groundwater quality is evaluated by comparison of analysis results to regulatory standards, geochemical analysis, and statistical evaluation. Water quality analytical results for stormwater runoff discharged from the landfill site are compared to the limits set in the ISGP and CSWGP. The following is a brief description of the standards and analytical tools used to review each matrix.

2.1 Regulatory Standards

Stormwater monitoring results are compared to the ISGP Benchmark and Effluent Limits Criteria and CSWGP Benchmarks (Table 13). Groundwater monitoring results are compared to the groundwater quality criteria in WAC 173-200 (Table 15).

2.2 Trilinear Diagrams and Major Ion Balance

Geochemical data are presented on trilinear diagrams. Major cations and anions are plotted on individual triangles as percentages of total milliequivalents per liter (meq/L). These diagrams illustrate differences in major ion chemistry between groundwater samples and can be used to categorize water composition into identifiable groups or hydrochemical facies. Hydrochemical facies reflect distinct compositions of cation and anion concentrations. The value of the diagram lies in pointing out relationships that exist among individual samples. Trilinear diagrams are included with ionic balance calculations in this report. Ion balance calculations are useful for determining analytical correctness and can be of value in detecting laboratory error or variation in field sampling procedures.

2.3 Prediction Limits

A prediction limit is a statistical test that compares an analytical result to a computed limit value. The limit value is derived from past analytical results, which are considered representative historical data. A value outside of this limiting value is considered evidence that the result is not drawn from the same sample population distribution.

To evaluate the groundwater data for CHRLF, one-sided UPLs are calculated based on intra-well comparisons. Intra-well comparisons present a more conservative approach to determining if a statistically significant release has occurred and is recommended for evaluation of detection monitoring data. In the intra-well approach, a threshold background value is set by determining an UPL. Prediction limits set a comparison threshold for background data with compliance well data and are used to determine if a sample is statistically elevated above background conditions. UPLs for the subsequent year's detection monitoring are calculated at the end of each year and incorporate the previous year's analytical results. UPLs are based on a 0.05 significance level, as approved by Ecology to be protective of human health and the environment. A 0.05 significance level indicates that at most there is a five (5) percent chance that a Type I error (false positive) will occur in the results.

The method for calculating the UPLs depends on both the type of distribution and the number of non-detects present in the background data set. UPLs for background data sets with 100 percent non-detects (NDs) are equal to the highest laboratory method detection limit (MDL). UPLs for background data sets with greater than 50 percent, but less than 100 percent non-detects are calculated based on the highest detected concentration for the respective data set.

Note: Although there are alternative methods for calculating UPLs for background data sets with greater than 90 percent, but less than 100 percent non-detects (e.g., Poisson's Method), the use of the highest detected concentration is generally considered the most conservative.

UPLs for background data sets with less than 50 percent non-detects are evaluated for normality. UPLs with non-parametric data sets are based on the highest detected concentration for the respective data set. UPLs for either normally distributed or transformed-normal data sets are calculated based on the following equations for calculating parametric prediction limits with retesting (*EPA Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance, 2009*):

Normal Distribution

$$\text{UPL} = \bar{x} + \kappa s$$

or

Transformed Distribution:

$$\text{UPL} = \bar{y} + \kappa s_y$$

where: \bar{x} = mean of the baseline data

\bar{y} = mean of the transformed data

κ = multiplier for intra-well prediction limits

s = standard deviation of baseline data

s_y = standard deviation of transformed data

For UPLs of constituents that had only ever had non-detects prior to implementing the LLOQ and are now detected, the MDL is being used until sufficient data is available to calculate at UPL.

Analytical results are compared to the respective UPLs on a quarterly/semi-annual basis, depending on the monitoring program, for Appendix I parameters. If there is an exceedance of the UPL, retesting of that analytical parameter at the respective location is required to determine if the exceedance represents a statistically significant increase over background.

A 1-of-3 retesting plan is used for any exceedances of the intra-well UPLs at CHRLF. This retesting plan provides adequate statistical power and minimizes Type II (False Negative) errors, while providing retesting that accommodates lab turnaround time, data review, and scheduling. This test is performed on parameters in WAC 173-351-990 Appendix I and is used to detect a change in the population distribution of the individual well.

2.4 Laboratory Data Quality

Laboratory analytical data is reviewed to verify meeting data quality objectives (DQOs) as defined in the QAPP. Occasionally, results identified during this process are deemed unsuitable for evaluation purposes. A summary of suspect results can be found in Table 16.

2.4.1 Lower Limit of Quantification

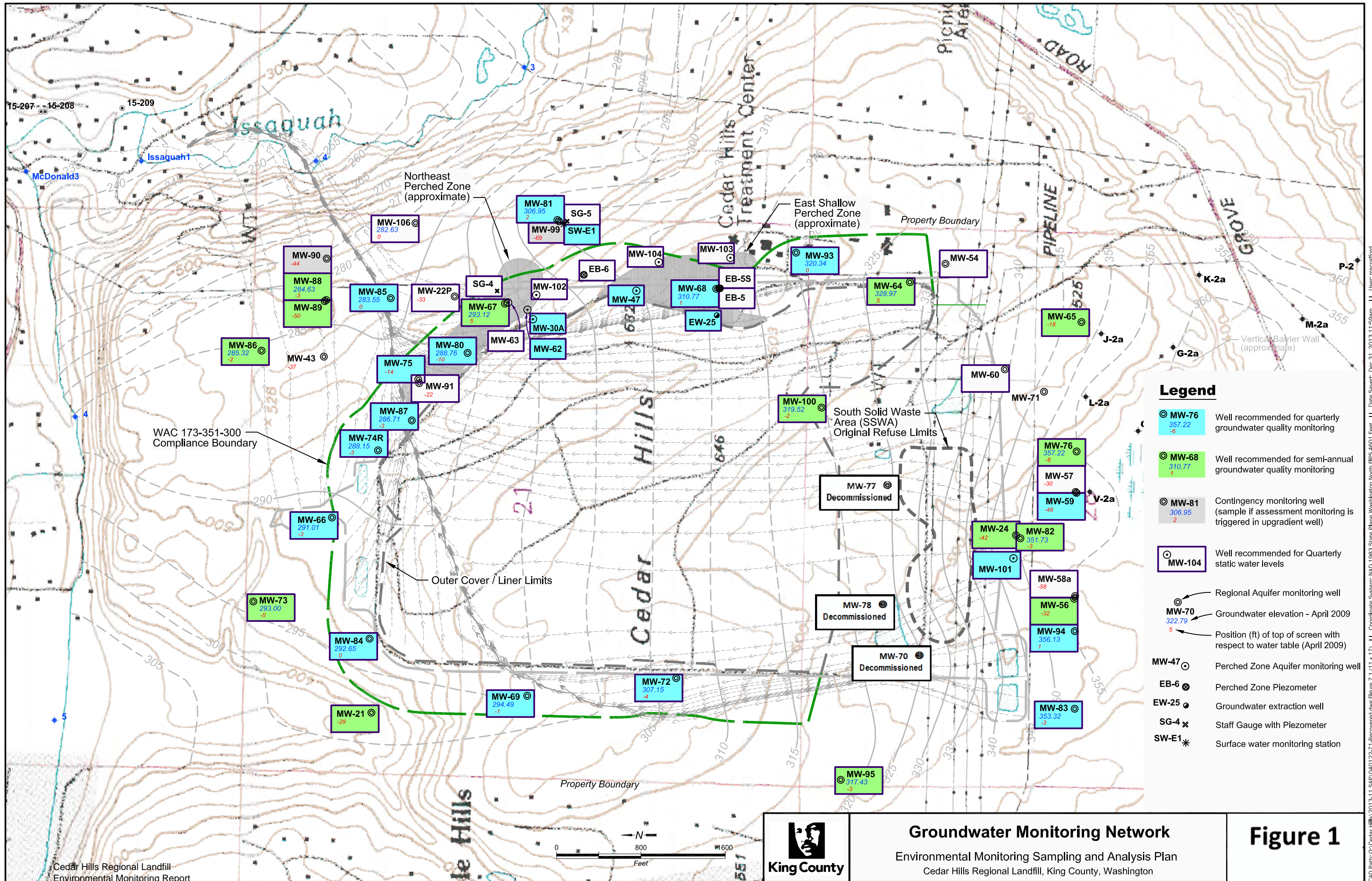
Changes made in accordance with federal regulations for the guidance of analytical testing methodologies covered by SW-846 (Test Methods for Evaluating Solid Waste) were implemented in 2017 by the contract laboratory. One specific effect of these changes was to replace the MDL methodology with the LLOQ methodology as the basis for determining the lowest quantitative value of an analyte that can be reported. This affected all methods covered within SW-846.

The LLOQ is a performance-based methodology that tests known standards repeatedly to create a calibration curve for a specific method. Commonly, the lowest concentration of the (linear) calibration curve is set as the LLOQ. However, in some cases the LLOQ may be greater than the baseline curve concentration due to lab specific factors such as instrument sensitivity and method analytical uncertainty.

2.4.2 Analytical Uncertainty and Data Review

An important consideration when reviewing and evaluating analytical data is to examine the uncertainty associated with the measurement of each analyte. When a UPL or groundwater quality criteria exceedance, and the detection limit are similar in magnitude, uncertainty inherent in low level concentration results can call into question the actuality of both presence and/or exceedance of the limit or criteria. This uncertainty is partly due to the ‘noise’ that is intrinsic in analytical testing methods and laboratory protocol. Arsenic exceedances in groundwater provide an example of this scenario, as the UPL and detection limits for arsenic are both typically quite low (parts per billion), as is the groundwater quality criteria. This results in the analytical measurement being evaluated to be subject to both the uncertainty within the calculation of a UPL, and the ‘noise’ of the analytical testing method, which includes both method and laboratory specific elements. These factors must be considered when performing a review or statistical evaluation of analytical data before confirmation on a UPL or groundwater quality exceedance can be determined.

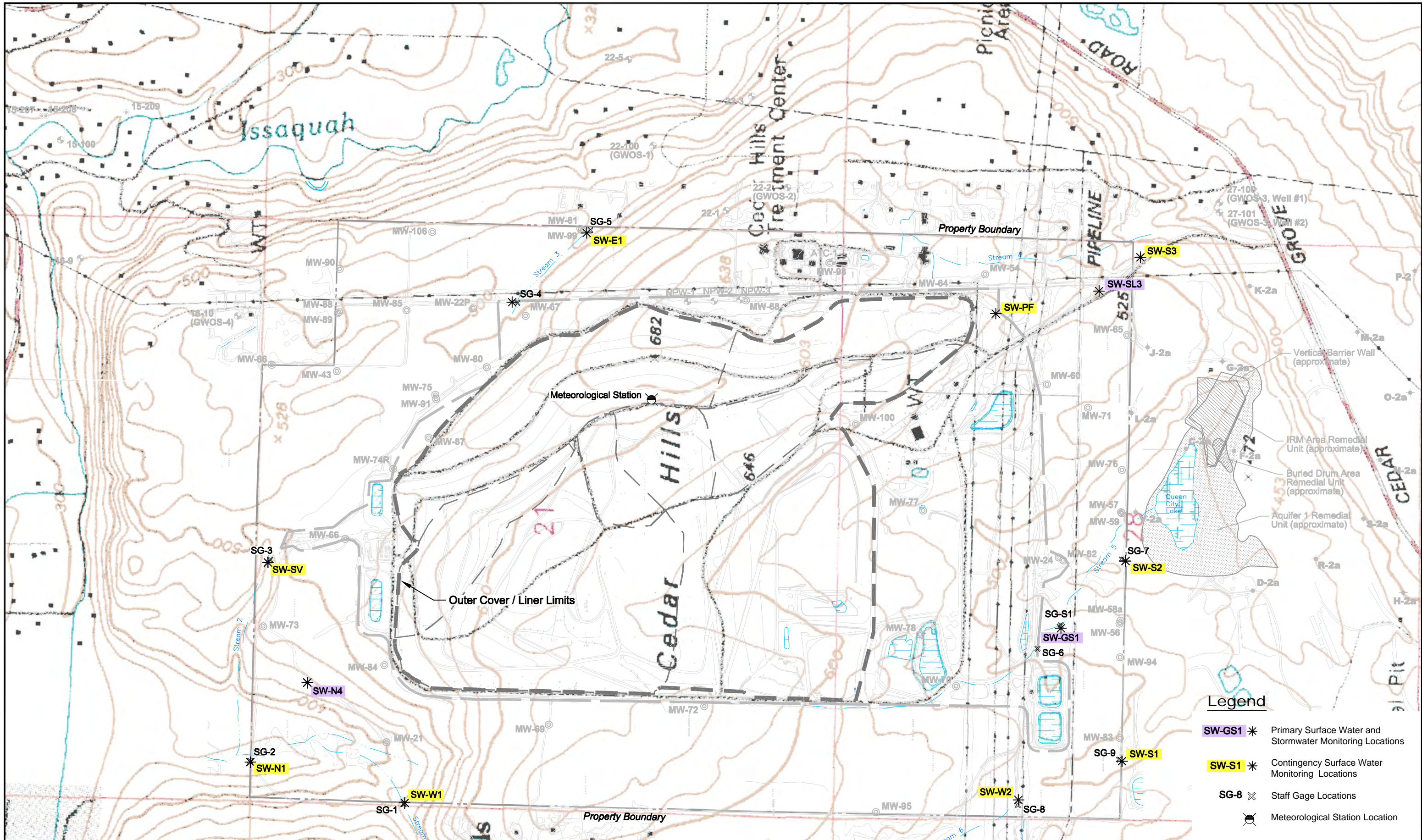
Figures



- Legend**
- ⊙ MW-76 357.22 -6 Well recommended for quarterly groundwater quality monitoring
 - ⊙ MW-68 310.77 1 Well recommended for semi-annual groundwater quality monitoring
 - ⊙ MW-81 306.95 2 Contingency monitoring well (sample if assessment monitoring is triggered in upgradient well)
 - ⊙ MW-104 Well recommended for Quarterly static water levels
 - ⊙ Regional Aquifer monitoring well
 - ⊙ MW-70 322.79 5 Groundwater elevation - April 2009
 - ⊙ Position (ft) of top of screen with respect to water table (April 2009)
 - ⊙ MW-47 Perched Zone Aquifer monitoring well
 - ⊙ EB-6 Perched Zone Piezometer
 - ⊙ EW-25 Groundwater extraction well
 - ⊙ SG-4 Staff Gauge with Piezometer
 - ⊙ SW-E1 Surface water monitoring station

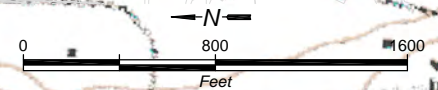


CAD Path: Q:\Cedar Hills\2013-11 SAP\040122-71-Recovered.dwg Figure 7.1 (11 x 17) II Coordinate System: NAD 1983 State Plane Washington North FIPS 4601 Feet II Date Saved: Dec 31, 2013 11:59am II User: mscreaford



Note:
Contingency surface water monitoring locations are for potential use in evaluating WAC 173-201A compliance, should an NPDES exceedance occur at the primary surface water and storm water monitoring locations.

Cedar Hills Regional Landfill
Environmental Monitoring Report
First Quarter of 2020

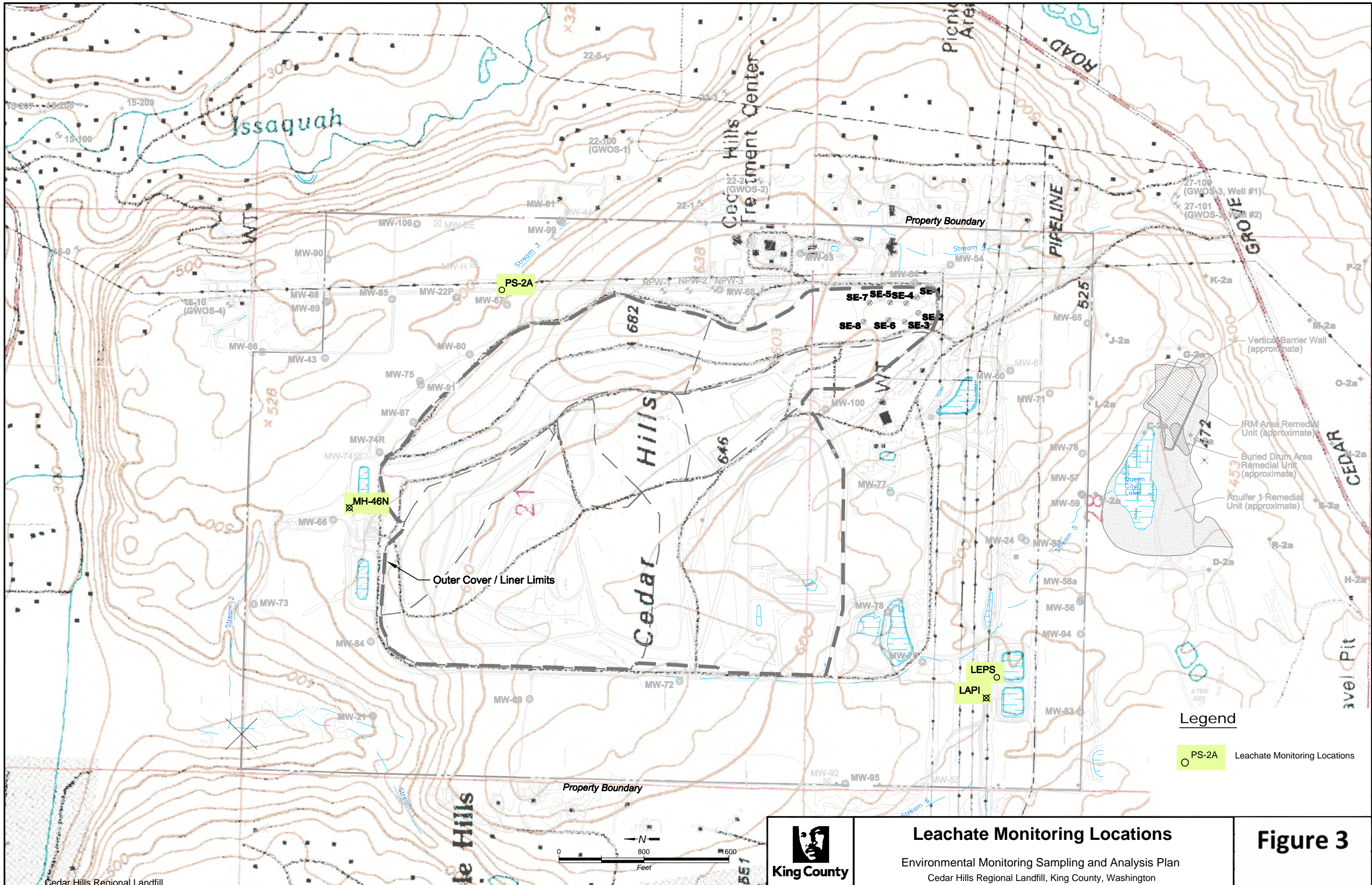


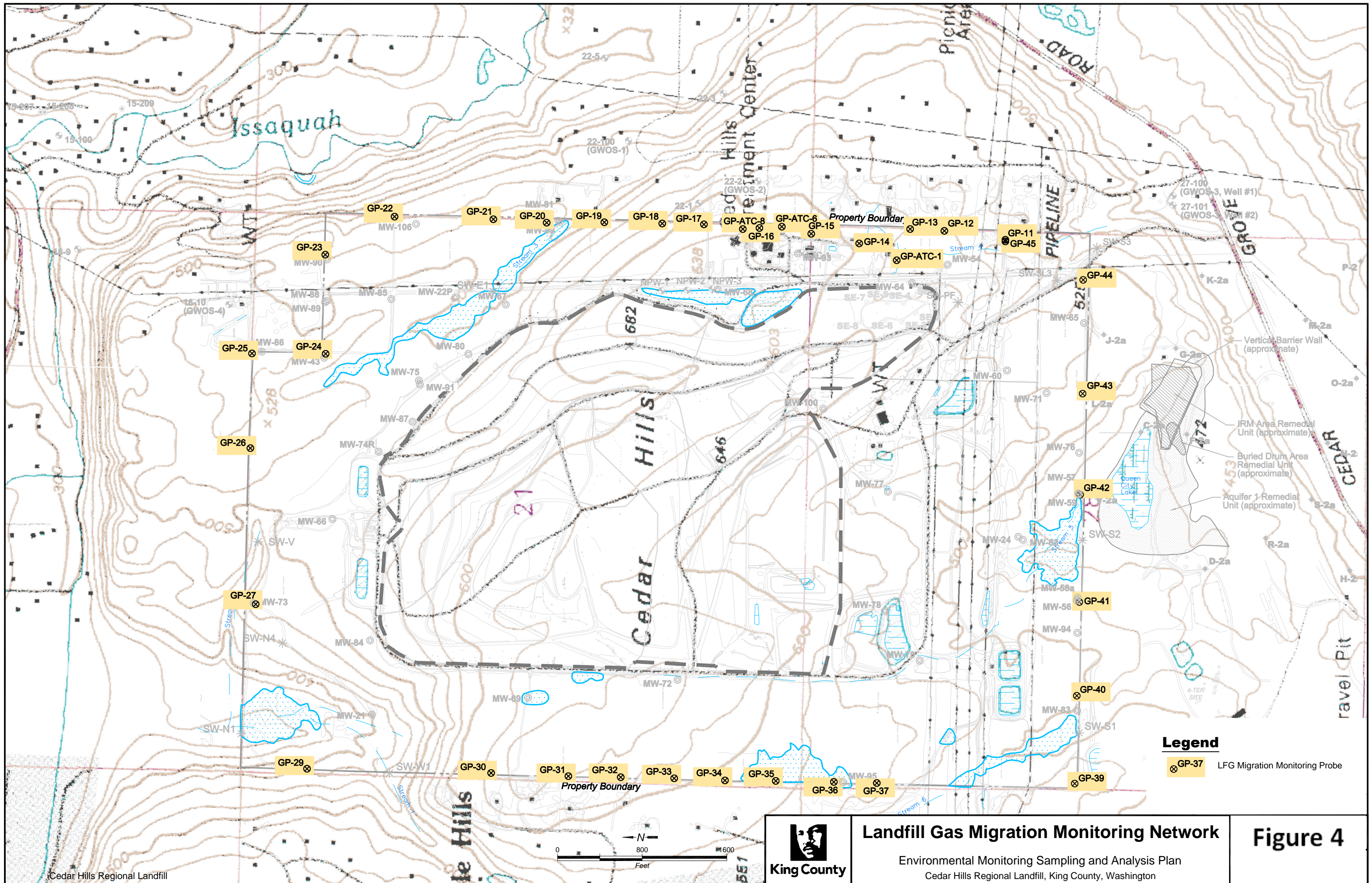
Surface Water and Stormwater Monitoring Network

Environmental Monitoring Sampling and Analysis Plan
Cedar Hills Regional Landfill, King County, Washington

Figure 2

- Legend**
- * SW-GS1 Primary Surface Water and Stormwater Monitoring Locations
 - * SW-S1 Contingency Surface Water Monitoring Locations
 - X SG-8 Staff Gage Locations
 - Meteorological Station Location





Landfill Gas Migration Monitoring Network

Environmental Monitoring Sampling and Analysis Plan
 Cedar Hills Regional Landfill, King County, Washington

Figure 4

Figure 5. Trilinear Diagram Upgradient and Crossgradient Regional Wells

Cedar Hills Regional Landfill

First Quarter 2020

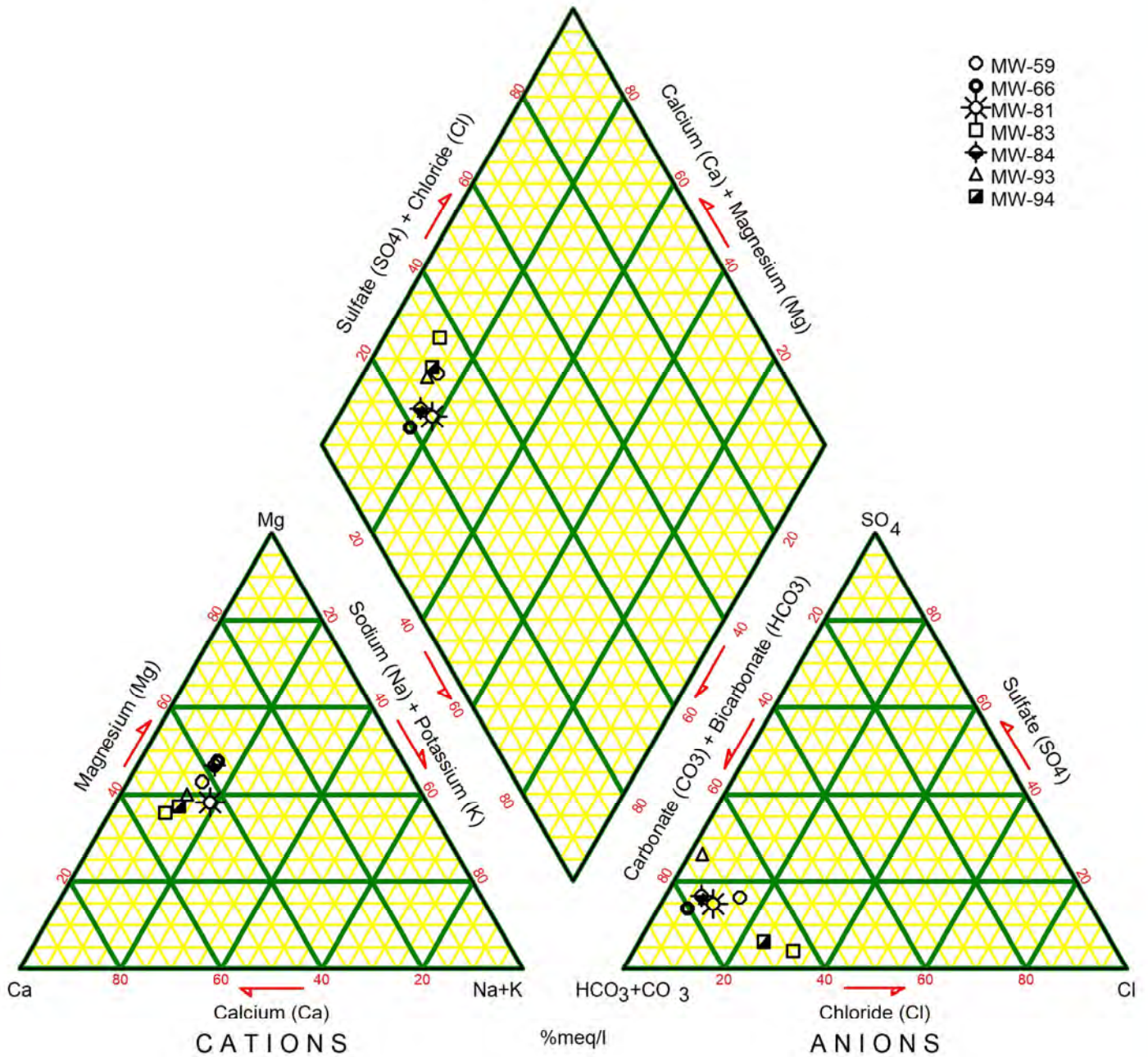


Figure 6. Trilinear Diagram Downgradient Regional Wells

Cedar Hills Regional Landfill
First Quarter 2020

- MW-68
- ⊗ MW-72
- MW-74R
- ◆ MW-75
- △ MW-80
- MW-85
- ⊛ MW-87

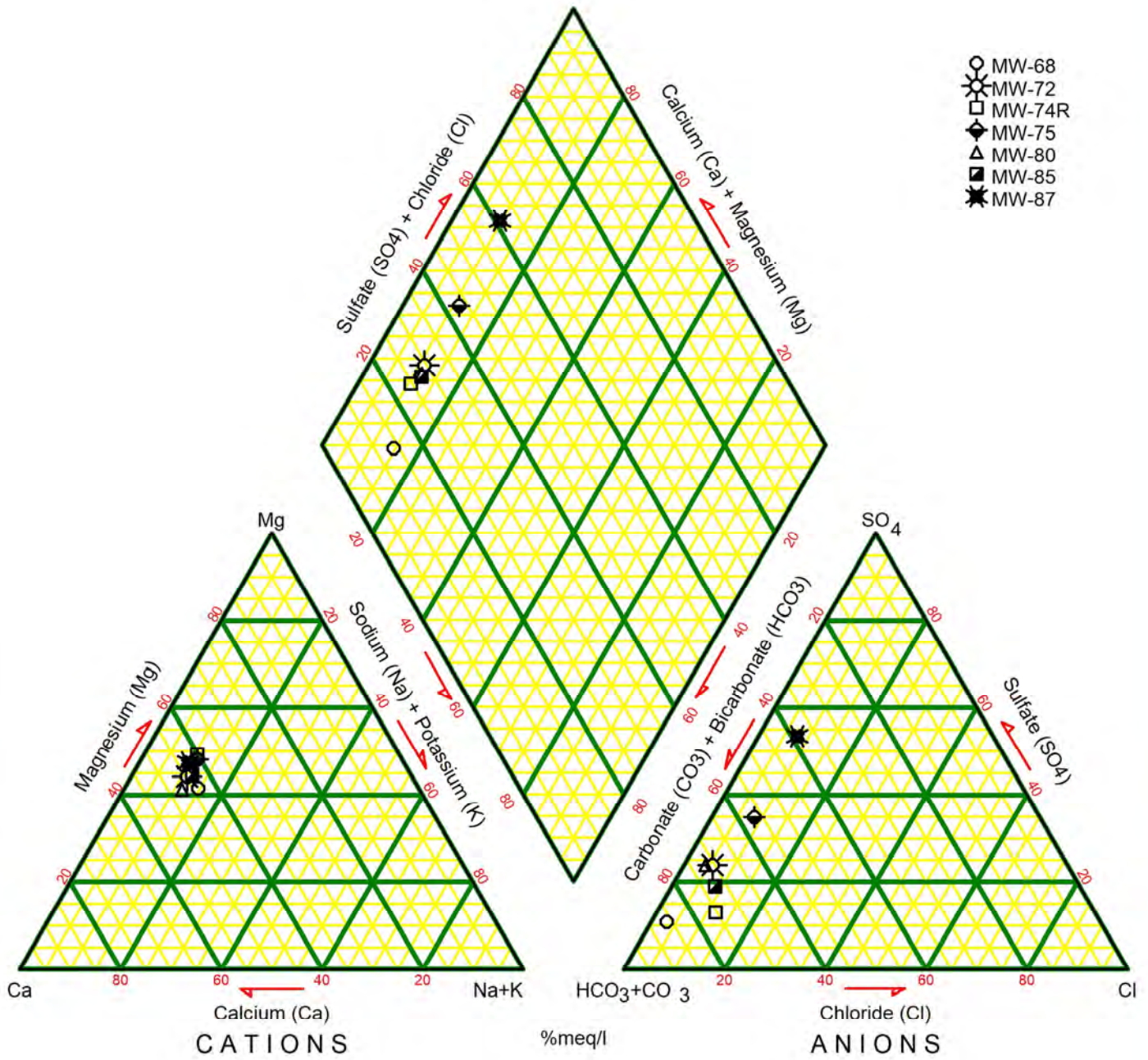


Figure 7. Trilinear Diagram East Perched Zone Wells

Cedar Hills Regional Landfill
First Quarter 2020

- MW-30A
- MW-47
- MW-62
- SW-E1
- ⊕ MW-EB6
- ⊖ MW-102
- ⊗ MW-107
- ⊠ MW-108
- ⊙ MW-109
- ⊚ MW-110
- ⊛ MW-111
- ⊜ MW-112

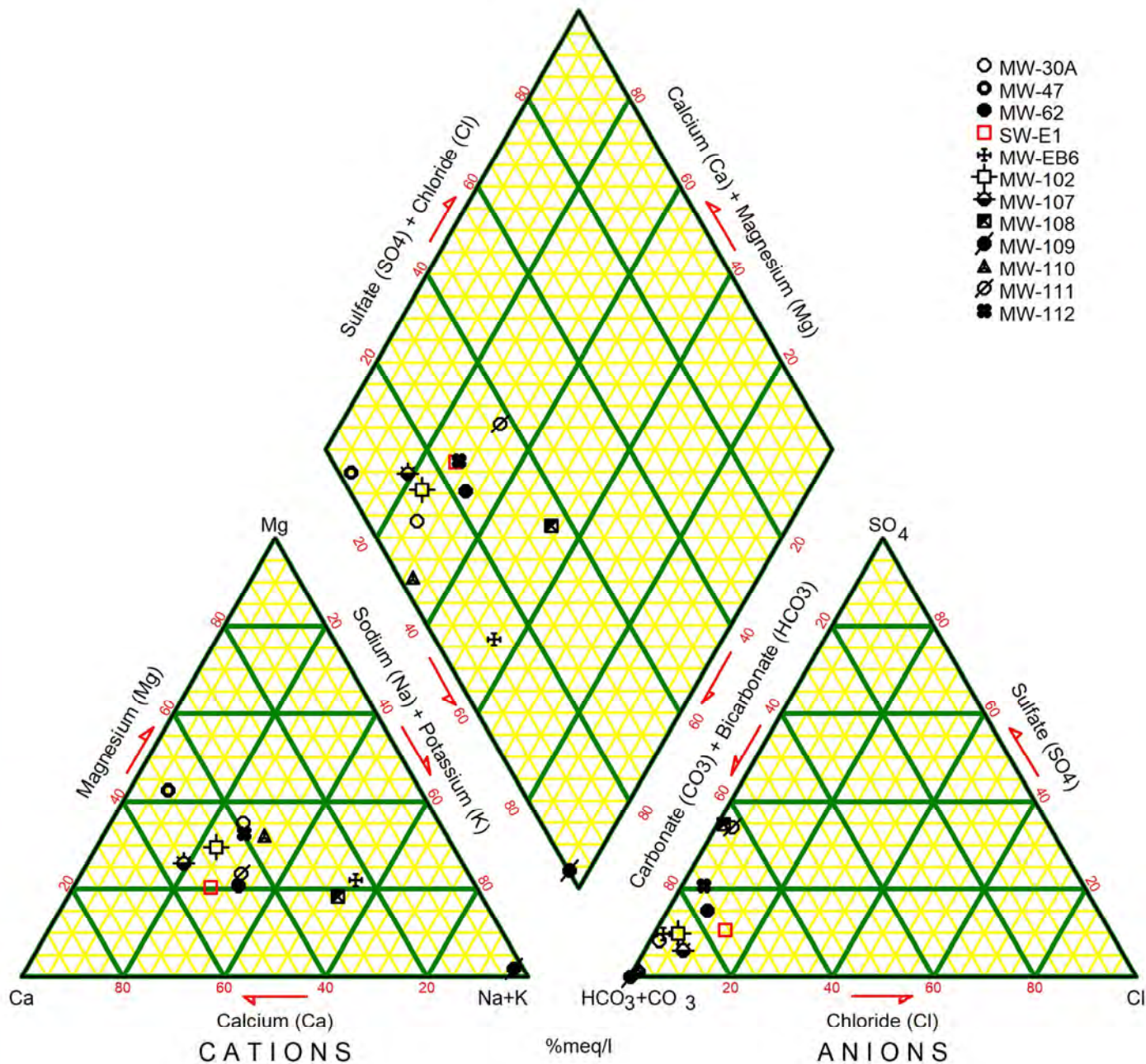
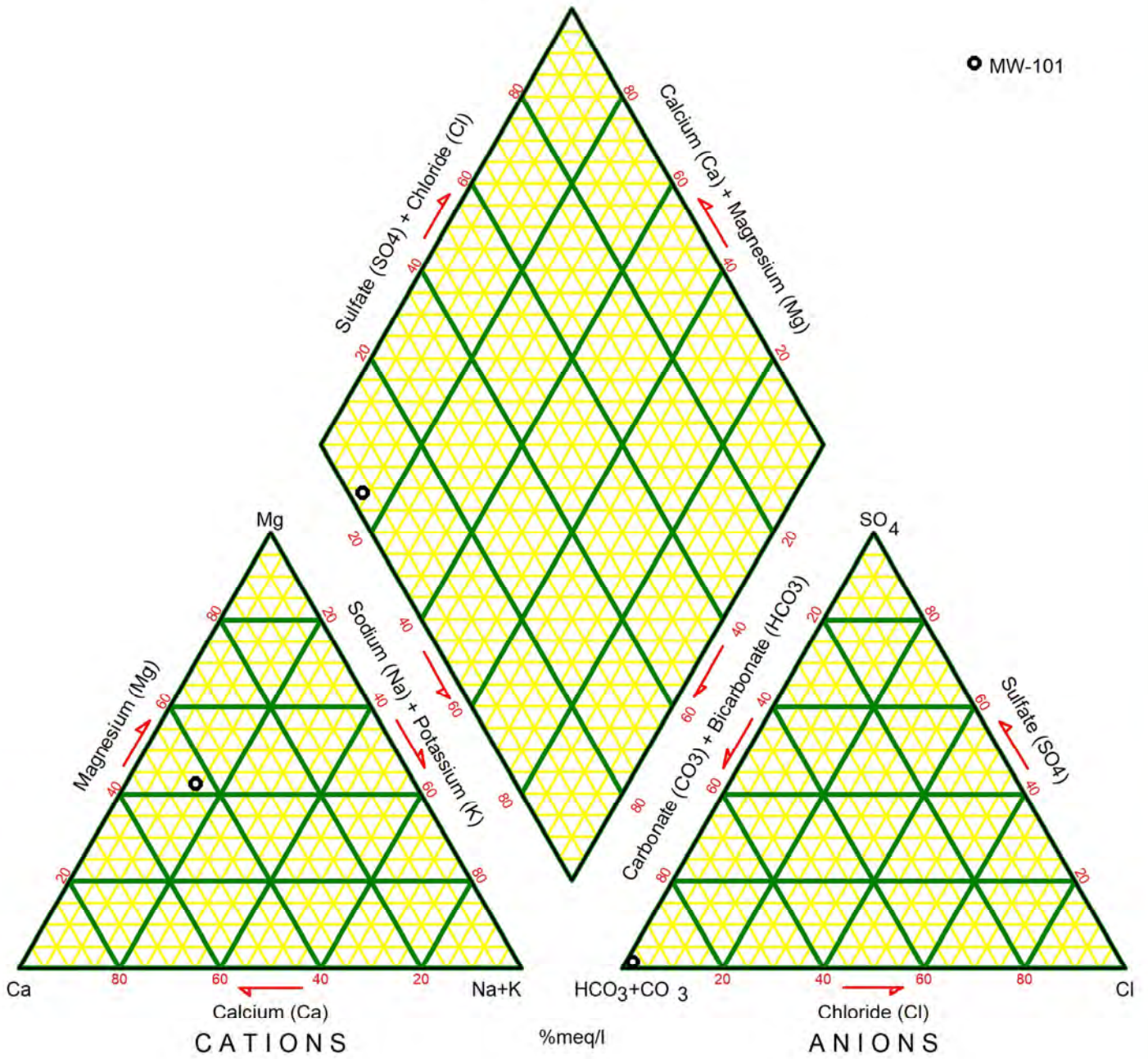


Figure 8. Trilinear Diagram SSW Area Perched Zones Wells

Cedar Hills Regional Landfill

First Quarter 2020

● MW-101



Tables

Table 1
CEDAR HILLS REGIONAL LANDFILL GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations				
	Well Diameter (inches)	Well Depth (feet)	Installation Date	Water Table or Deep Zone	Well Monitoring Classification	Comments on Well Use	Static Water Level Monitoring Frequency	Water Quality Monitoring Frequency	Rationale
MW-21 (Upgradient)	6	163	5/17/83	Deep	Detection	Background	Quarterly	Semi-annual	Monitors background conditions of deep aquifer.
MW-22P (Downgradient)	2	284	5/25/83	Deep	Detection	WL only	Quarterly	None	Not effectively located for facilities or background monitoring.
MW-24 (Upgradient)	6	192	6/2/83	Deep	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in deep upgradient well. Monitor SWLs to define deeper Regional Aquifer flow paths.
MW-54 (Upgradient)	2	351	9/26/86	Deep	Detection	WL only	Quarterly	None	Not effectively located for facilities monitoring as it lies up gradient of the CHRLF facilities. Upgradient water quality monitored in other wells.
MW-56 (Upgradient)	2	166	10/12/88	Deep	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in upgradient well. Low groundwater velocities indicate slow movement of QCF contaminants through this area.
MW-57 (Upgradient)	2	144	8/22/88	Deep	Detection	WL only	Quarterly	None	Monitoring redundant with MW-59. Strong downward vertical gradients indicate impacts at MW-57 would also be detected at MW-59.
MW-58A (Upgradient)	2	219	9/26/88	Deep	Detection	WL only	Quarterly	None	Monitoring redundant with MW-56. Strong downward vertical gradients indicate impacts at MW-58A would also be detected at MW-56.
MW-59 (Upgradient)	2	180.5	8/16/88	Deep	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in upgradient well.
MW-60 (Upgradient)	2.5	240	9/13/91	Water Table	Detection	WL only	Quarterly	None	Upgradient flow from QCF in shallow Regional Aquifer characterized by MW-65 and MW-76. Downgradient area monitored by MW-100.
MW-64 (Upgradient)	2.5	274	3/22/93	Water Table	Detection		Quarterly	Semi-annual	Adjacent to SE Pit. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.
MW-65 (Upgradient)	2.5	234	3/29/93	Deep	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in upgradient well. Monitor SWLs to define deeper Regional Aquifer flow paths.
MW-66 (Upgradient)	2.5	248	4/5/93	Water Table	Detection		Quarterly	Quarterly	Monitor north end leachate detention facilities.
MW-67 (Downgradient)	2.5	230	4/28/93	Water Table	Detection		Quarterly	Semi-annual	Monitors potential EPZ contaminants infiltrating into Regional Aquifer.
MW-68 (Cross-Gradient/Downgradient)	2.5	353	4/15/93	Water Table	Detection		Quarterly	Quarterly	Well is completed adjacent to unlined Main Hill where downward flow from Main Hill and impacted EPZ would be captured. Monitors Main Hill gas effected area.
MW-69 (Downgradient)	2.5	371	4/23/93	Water Table	Detection		Quarterly	Quarterly	West side flow converges in this area and well is upgradient of key downgradient wells.
MW-72 (Downgradient)	2.5	376	8/7/98	Water Table	Detection		Quarterly	Quarterly	Key water quality monitoring well for southwest landfill area.
MW-73 (Upgradient)	4	206	9/3/99	Water Table	Detection	Background	Quarterly	Semi-annual	Background water quality monitoring for northwest facility area. Downgradient flow paths from well largely by-pass facility so provides only general indication of background conditions.
MW-74R (Downgradient)	4	249	11/1/00	Water Table	Detection		Quarterly	Quarterly	Detection zone monitors north end facilities. Quarterly monitoring recommended due to elevated chloride.
MW-75 (Downgradient)	4	269	9/24/99	Deep	Detection		Quarterly	Quarterly	Key downgradient monitoring well.
MW-76 (Upgradient)	4	148	10/25/99	Water Table	Detection	Background	Quarterly	Semi-annual	Monitor QCF impacts effecting upgradient water quality in shallow portion of Regional Aquifer. Low groundwater velocities (0.014 ft/day) indicate slow movement of QCF contaminants through this area. Travel distance for 180 days is estimated at 2.5 ft indicating any releases would be detected with
MW-80 (Downgradient)	4	259	2/27/01	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well for monitoring impacts from unlined Main Hill and EPZ.
MW-81 (Upgradient)	4	192	10/3/02	Water Table	Detection		Quarterly	Quarterly	Monitors GW quality from off-site area east of facility. Retain as monitoring point for potential LFG impacts to GW. Key well for defining potentiometric divide on east side.
MW-82 (Upgradient)	4	133	11/2/00	Water Table	Detection	Background	Quarterly	Semi-annual	Twice-annual monitoring of QCF impacts in shallow Regional upgradient well. Low groundwater velocities indicate slow movement of QCF contaminants through this area.
MW-83 (Upgradient)	4	154	10/27/00	Water Table	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in shallow Regional upgradient well.
MW-84 (Upgradient)	4	246	10/20/00	Water Table	Detection	Background	Quarterly	Quarterly	Monitor background conditions in shallow regional aquifer
MW-85 (Downgradient)	4	257	12/1/00	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well with large detection zone underlying waste placement areas. Located in area of convergent GW flow and near center of high transmissivity channel.
MW-86 (Downgradient)	4	259	12/12/00	Water Table	Detection		Quarterly	Semi-annual	Provides monitoring of north end facilities. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.
MW-87 (Downgradient)	4	261	11/21/00	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well.

Table 1
CEDAR HILLS REGIONAL LANDFILL GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations					
	Well Diameter (inches)	Well Depth (feet)	Installation Date	Water Table or Deep Zone	Well Monitoring Classification	Comments on Well Use	Static Water Level Monitoring Frequency	Water Quality Monitoring Frequency	Rationale	
MW-88 (Downgradient)	4	239	9/13/01	Water Table	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.	
MW-89 (Downgradient)	4	291	11/12/01	Deep	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities in deep Regional Aquifer. Continue monitoring in place of MW-43.	
MW-90 (Downgradient)	4	274	8/14/02	Deep	Assessment		Quarterly	Contingent	Water quality monitoring redundant with MW-89. Reserve as contingency well in event assessment monitoring is triggered in MW-88,89 or 85.	
MW-91 (Downgradient)	6	289	10/26/01	Deep	Detection	WL only	Quarterly	None	Large diameter well used for testing. Redundant with well MW-75.	
MW-93 (Cross Gradient)	4	320	6/24/02	Water Table	Detection		Quarterly	Quarterly	Well monitors the Main Hill gas affected area.	
MW-94 (Upgradient)	4	145	7/2/02	Water Table	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in shallow Regional upgradient well.	
MW-95 (Cross Gradient)	4	263	7/22/02	Water Table	Detection		Quarterly	Semi-annual	Monitor off-site water quality at southwest end of facility. Downgradient flow paths poorly defined and may by-pass facility.	
MW-99 (Upgradient)	4	279	8/30/02	Deep	Assessment		Quarterly	Contingent	Monitors easterly upgradient water quality from offsite. Reserve as contingency well in event assessment monitoring is triggered in MW-81.	
MW-100 (Downgradient)	4	300	8/26/02	Water Table	Detection		Quarterly	Semi-annual	Well useful for flowpath and geochemical modeling. Assists in tracking QCF contaminant migration through facility.	
MW-106 (Cross gradient)	4	203	2/19/09	Water Table	Detection	WL only	Quarterly	None	Defines east side flow paths.	
East Main Hill Perched Zones										
EB-5	2	60	5/06/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.	
EB-5S	2	20	6/06/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.	
EB-6	2	30	11/28/90	EPZ	Assessment		Quarterly	Quarterly	Monitor water levels to evaluate affect of extraction system shut down. Well has limited water yield limiting ability to collect samples.	
MW-30A	3	35	6/09/89	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs.	
MW-47	2	44	5/31/85	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance well.	
MW-62	2	54	1/02/90	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs.	
MW-63	2	17	12/02/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.	
MW-102	2	50	1/27/09	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-103	2	35	1/28/09	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-104	2	32	1/29/09	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-107	2	39	6/07/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-108	2	17	6/08/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-109	2	13	6/09/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-110	2	19	6/11/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-111	2	14	6/11/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
MW-112	2	17	6/11/18	EPZ	Assessment		Quarterly	Quarterly	EPZ monitoring well.	
South Solid Waste Area Perched Zone										
MW-101	2	54	6/2/06	SSWA	Assessment		Quarterly	Quarterly	Key SSWA perched zone compliance well	

Notes:

(1) The following wells were decommissioned: MW-70, MW-77, MW-78, MW-96, MW-97, and EW-25 as of 2019.

(2) Shallow wells are wells completed in the Regional Aquifer with the top screen slot within 10 ft of the water table. Deep wells are completed in the Regional Aquifer with the top screen slot greater than 10 ft below the water table.

(3) Water quality monitoring shading relates to Figure 2.

Abbreviations:

WL = Water Level

NA = Not Applicable

DZ = Detection Zone EPZ = East Perched Zone

SSWA = South Solid Waste Area QCF = Queen City Farms

TABLE 2
CEDAR HILLS REGIONAL LANDFILL
GROUNDWATER MONITORING ACTIVITIES 1st QUARTER 2020

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
Static Water Levels	NA	1/2/20	Groundwater Elevation Measurement	--	North half of landfill.
Static Water Levels	NA	1/2/20	Groundwater Elevation Measurement	--	South half of landfill.
Static Water Levels	NA	1/2/20	Groundwater Elevation Measurement	--	East perched zone.
MW-21	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-22	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-24	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-25	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-27A	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-28	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-29	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-30A	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-30A	Perched	2/19/20	Groundwater Sampling Event	W30A190722-	
MW-41D	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-41S	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-43	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-45	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-47	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-47	Perched	2/19/20	Groundwater Sampling Event	W47-200219-	
MW-48	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-50	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-54	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-55	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-56	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-57	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-58A	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-59	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-59	Regional	1/21/20	Groundwater Sampling Event	W59-200121-	
MW-60	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-62	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-62	Perched	2/18/20	Groundwater Sampling Event	W62-200218-	
MW-63	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-64	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-65	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-66	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-66	Regional	1/6/20	Groundwater Sampling Event	W66-200106-	
MW-67	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-68	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-68	Regional	2/13/20	Groundwater Sampling Event	W68-200213-	
MW-69	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-72	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-72	Regional	1/17/20	Groundwater Sampling Event	W72-200117-	
MW-73	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-74	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-74	Regional	1/21/20	Groundwater Sampling Event	W74R200121-	
MW-75	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-75	Regional	1/21/20	Groundwater Sampling Event	W75-200121-	
MW-76	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-79	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-80	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-80	Regional	2/13/20	Groundwater Sampling Event	W80-200213-	
MW-80	Regional	2/13/20	Groundwater Sampling Event	W80-200213D	Field Duplicate
MW-81	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-81	Regional	1/21/20	Groundwater Sampling Event	W81-200121-	

TABLE 2 (continued)
CEDAR HILLS REGIONAL LANDFILL
GROUNDWATER MONITORING ACTIVITIES 1st QUARTER 2020

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-82	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-83	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-83	Regional	1/22/20	Groundwater Sampling Event	W83-200122-	
MW-83	Regional	1/22/20	Groundwater Sampling Event	W83-200122D	Field Duplicate
MW-84	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-84	Regional	1/21/20	Groundwater Sampling Event	W84-200121-	
MW-85	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-85	Regional	1/22/20	Groundwater Sampling Event	W85-200122-	
MW-86	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-87	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-87	Regional	1/21/20	Groundwater Sampling Event	W87-200121-	
MW-88	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-89	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-90	Regional	1/2/20	Groundwater Elevation Measurement	NA	
MW-91	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-93	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-93	Perched	1/22/20	Groundwater Sampling Event	W93-200122-	
MW-94	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-94	Perched	1/22/20	Groundwater Sampling Event	W94-200122-	
MW-95	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-98	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-99	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-100	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-101	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-101	Perched	2/18/20	Groundwater Sampling Event	W101200218-	
MW-102	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-102	Perched	2/21/20	Groundwater Sampling Event	W102200221-	
MW-102	Perched	2/21/20	QA/QC Sample	W102200221F	Field Blank
MW-103	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-104	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-105	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-106	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-107	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-107	Perched	2/18/20	Groundwater Sampling Event	W107200218-	
MW-108	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-108	Perched	2/14/20	Groundwater Sampling Event	W108200214-	
MW-109	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-109	Perched	2/14/20	Groundwater Sampling Event	W109200214-	
MW-110	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-110	Perched	2/14/20	Groundwater Sampling Event	W110200214-	
MW-111	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-111	Perched	2/20/20	Groundwater Sampling Event	W111200220-	
MW-112	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-112	Perched	2/19/20	Groundwater Sampling Event	W112200219-	
MW-EB5	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-EB5S	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	1/2/20	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	2/19/20	Groundwater Sampling Event	WB6-200219-	

Table 3
CEDAR HILLS REGIONAL LANDFILL
REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data collected from January 1, 2020 to March 31, 2020)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Upgradient and Crossgradient Wells					
pH (Field)	pH Units		No pH exceedances this quarter.		
Arsenic, Total	mg/L	MW-66	1/6/2020	W66-200106-	0.000725
		MW-59	1/21/2020	W59-200121-	0.00045
		MW-84	1/21/2020	W84-200121-	0.00032
		MW-81	1/21/2020	W81-200121-	0.000507
		MW-93	1/22/2020	W93-200122-	0.00133
		MW-83	1/22/2020	W83-200122-	0.000392
		MW-94	1/22/2020	W94-200122-	0.000113
		MW-68	2/13/2020	W68-200213-	0.0209
Iron, Dissolved	mg/L	MW-59	1/21/2020	W59-200121-	4.58
		MW-68	2/13/2020	W68-200213-	0.574
Manganese, Dissolved	mg/L	MW-59	1/21/2020	W59-200121-	0.126
		MW-84	1/21/2020	W84-200121-	0.0718
		MW-93	1/22/2020	W93-200122-	0.188
		MW-83	1/22/2020	W83-200122-	0.0655
		MW-68	2/13/2020	W68-200213-	0.313
Downgradient Wells					
Arsenic, Total	mg/L	MW-72	1/17/2020	W72-200117-	0.000127
		MW-74R	1/21/2020	W74R200121-	0.000391
		MW-75	1/21/2020	W75-200121-	0.0005
		MW-87	1/21/2020	W87-200121-	0.000719
		MW-85	1/22/2020	W85-200122-	0.000702
		MW-80	2/13/2020	W80-200213-	0.00371
Iron, Dissolved	mg/L	MW-72	1/17/2020	W72-200117-	2.78
		MW-75	1/21/2020	W75-200121-	2.54
		MW-87	1/21/2020	W87-200121-	4.92
		MW-80	2/13/2020	W80-200213-	2.23
Manganese, Dissolved	mg/L	MW-72	1/17/2020	W72-200117-	0.377
		MW-75	1/21/2020	W75-200121-	0.217
		MW-87	1/21/2020	W87-200121-	0.548
		MW-80	2/13/2020	W80-200213-	0.35

See Data Qualifier List for Qualifier Information.

Exceedance Criteria: WAC 173-200-040 - Water Quality Standards for Groundwaters of the State of Washington

Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Quarterly Regional Aquifer Groundwater Monitoring

Data Collected from January 1, 2020 to March 31, 2020

		Quarterly Upgradient and Crossgradient Wells																							
		Site ID		MW-59			MW-66			MW-81			MW-83			MW-84			MW-93			MW-94			
		Date	1/21/20	1/6/20	1/21/20	1/22/20	1/21/20	1/22/20	1/21/20	1/22/20	1/21/20	1/22/20	1/22/20	1/22/20	1/22/20	1/22/20									
Cations	Molecular Weight	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)		
pH			6.8			7.2			7.5			6.8			7.4			7.0			6.5				
Conductance			214.4			208.5			161.8			665.0			208.2			327.8			313.1				
TDSobs			116.0			124.0			101.0			391.0			128.0			203.0			187.0				
Calcium	40.1	2	18.2	0.91	39.2	16.7	0.83	36.8	14.7	0.73	43.1	73.6	3.67	53.2	17.6	0.88	37.8	32.9	1.64	46.6	31.3	1.56	49.8		
Magnesium	24.3	2	11.2	0.92	39.8	13.1	1.077967	47.7	7.9	0.65	38.2	30.0	2.47	35.7	13.1	1.077967	46.4	17.1	1.41	40.0	14.2	1.17	37.3		
Potassium	39.1	1	1.2	0.031	1.3	1.2	0.03	1.3	0.90	0.023	1.3	3.9	0.10	1.5	1.3	0.03	1.4	1.6	0.041	1.2	2.4	0.06	1.9		
Sodium	23.0	1	6.6	0.29	12.4	7.4	0.32	14.2	6.8	0.29	17.3	15.2	0.66	9.6	7.4	0.32	13.9	9.7	0.42	11.9	7.9	0.34	11.0		
Iron	55.8	2	4.58	0.16	7.1	0.010	0.000358	0.016	0.01	0.000358	0.02	0.01	0.000358	0.0052	0.010	0.000358	0.015	0.01	0.000358	0.01	0.016	0.000559	0.018		
Manganese	54.9	2	0.13	0.004587	0.20	0.0001	3.64E-06	0.0002	0.0001	3.64E-06	0.0002	0.066	0.002385	0.0345	0.072	0.002614	0.113	0.19	0.006844	0.19	0.0014	5.13E-05	0.0016		
Ammonia-N	14.0	1	0.006	0.000414	0.02	0.0020	0.000143	0.006	0.0020	0.000143	0.008	0.009	0.000643	0.0093	0.089	0.00634	0.273	0.06	0.004498	0.13	0.002	0.000143	0.005		
Total Cations (meq/L)			2.32			2.3			1.7			6.9			2.3			3.5			3.1				
Anions																									
Alkalinity, Total			69.7			82.6			54.6			206.0			82.0			120.0			104.0				
Carbonate	60.0	2	0.024	0.000804	0.0	0.073	0.002446	0.1	0.111	0.003696	0.2	0.070	0.002321	0.0	0.115	0.003845	0.2	0.06	0.002	0.06	0.021	0.00069	0.023		
Bicarbonate	61.0	1	84.98	1.39	68.7	100.62	1.65	79.4	66.39	1.09	68.9	251.18	4.12	61.4	99.81	1.64	75.5	146.27	2.40	71.1	126.84	2.08	68.6		
Chloride	35.5	1	10.7	0.30	14.9	4.2	0.12	5.7	5.4	0.15	9.6	71.9	2.03	30.3	5.4	0.15	7.0	3.0	0.083	2.5	26.4	0.74	24.6		
Nitrate-N	14.0	1	0.010	0.000714	0.04	0.35	0.025	1.2	1.68	0.12	7.6	4.09	0.29	4.4	0.19	0.01	0.6	0.010	0.000714	0.021	0.28	0.02	0.7		
Sulfate	96.1	2	15.9	0.33	16.3	13.6	0.28	13.6	10.4	0.22	13.7	12.7	0.26	3.9	17.3	0.36	16.6	42.6	0.89	26.3	9.0	0.19	6.2		
Total Anions (meq/L)			2.03			2.1			1.6			6.7			2.2			3.4			3.0				
Total Ions (meq/L)			4.3			4.3			3.3			13.6			4.5			6.9			6.2				
Cation/Anion Ratio			1.14			1.09			1.08			1.03			1.07			1.04			1.03				
Percent Difference			6.7			4.2			3.7			1.5			3.5			2.2			1.7				
Trilinear Diagram Data																									
sum (Ca, Mg, Na+K)			2.15			2.26			1.70			6.90			2.31			3.51			3.14				
Calcium				42.30			36.85		43.10			53.20			37.99			46.78			49.81				
Magnesium				42.92			47.67		38.25			35.76			46.63			40.09			37.26				
Sodium + Potassium				14.78			15.49		18.65			11.03			15.38			13.13			12.93				
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			2.03			2.05			1.46			6.41			2.15			3.37			3.01				
Sulfate				16.33			13.80		14.84			4.12			16.73			26.32			6.23				
Chloride				14.89			5.73		10.36			31.63			7.09			2.47			24.72				
Bicarbonate + Carbonate				68.77			80.47		74.81			64.25			76.18			71.21			69.05				

Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Quarterly Regional Aquifer Groundwater Monitoring

Data Collected from January 1, 2020 to March 31, 2020

Cations		Molecular Weight	n	Quarterly Downgradient to Waste Cells and North End Facilities																							
				MW-68 2/13/20			MW-72 1/17/20			MW-74R 1/21/20			MW-75 1/21/20			MW-80 2/13/20			MW-85 1/22/20			MW-87 1/21/20					
				mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)			
pH				6.6			6.7			6.9			6.9			6.9			6.7			6.8					
Conductance				292.0			357.6			494.2			378.0			316.1			369.1			534.0					
TDSobs				163.0			212.0			280.0			235.0			196.0			217.0			371.0					
Calcium	40.1	2	25.9	1.29	43.3	34.2	1.71	43.4	45.3	2.26	40.1	33.1	1.65	39.6	30.6	1.53	45.8	34.4	1.72	43.5	48.6	2.43	41.5				
Magnesium	24.3	2	14.9	1.23	41.1	20.5	1.69	42.9	33.8	2.78	49.3	23.8	1.96	47.0	16.2	1.33	40.0	21.4	1.76	44.6	32.6	2.68	45.9				
Potassium	39.1	1	1.7	0.04	1.4	2.1	0.052	1.3	2.2	0.06	1.0	2.1	0.05	1.3	1.7	0.044	1.3	1.7	0.044	1.1	2.5	0.065	1.1				
Sodium	23.0	1	8.9	0.39	13.0	8.5	0.37	9.4	12.4	0.54	9.6	9.3	0.40	9.7	7.7	0.33	10.0	9.7	0.424	10.7	11.0	0.48	8.2				
Iron	55.8	2	0.57	0.021	0.69	2.78	0.10	2.5	0.010	0.000358	0.006	2.54	0.09	2.18	2.23	0.080	2.4	0.010	0.000358	0.0091	4.92	0.18	3.0				
Manganese	54.9	2	0.31	0.011	0.38	0.38	0.014	0.3	0.0001	3.64E-06	0.00006	0.22	0.0079	0.19	0.35	0.013	0.38	0.0001	3.64E-06	0.00009	0.55	0.020	0.3				
Ammonia-N	14.0	1	0.02	0.001	0.041	0.02	0.001249	0.032	0.002	0.000143	0.003	0.009	0.000643	0.015	0.01	0.0009	0.027	0.002	0.000143	0.0036	0.018	0.001264	0.022				
Total Cations (meq/L)				3.0			3.9			5.6			4.2			3.3			3.9			5.8					
Anions				121.0			126.0			196.0			109.0			111.0			137.0			109.0					
Alkalinity, Total			121.0			126.0			196.0			109.0			111.0			137.0			109.0						
Carbonate	60.0	2	0.031	0.001034	0.04	0.036253	0.001208	0.03	0.09	0.003119	0.06	0.05	0.001582	0.04	0.057	0.001892	0.06	0.045255	0.001509	0.04	0.044	0.001476	0.026				
Bicarbonate	61.0	1	147.56	2.42	86.0	153.65	2.52	70.4	238.93	3.92	74.8	132.88	2.18	56.7	135.3	2.22	71.8	167.05	2.74	72.2	132.89	2.18	38.9				
Chloride	35.5	1	3.0	0.085	3.0	7.1	0.199419	5.6	21.4	0.60	11.5	11.5	0.32	8.4	4.6	0.13	4.2	11.4	0.32	8.5	15.1	0.43	7.6				
Nitrate-N	14.0	1	0.010	0.000714	0.025	0.010	0.000714	0.020	0.40	0.028771	0.55	0.010	0.000714	0.019	0.01	0.000714	0.02	0.11	0.007496	0.2	0.010	0.000714	0.013				
Sulfate	96.1	2	14.7	0.31	10.9	41.1	0.86	23.9	32.7	0.68	13.0	64.3	1.34	34.8	35.4	0.74	23.9	34.7	0.72	19.1	144.0	3.00	53.5				
Total Anions (meq/L)				2.8			3.6			5.2			3.8			3.1			3.8			5.6					
Total Ions (meq/L)				5.8			7.5			10.9			8.0			6.4			7.7			11.5					
Cation/Anion Ratio				1.06			1.10			1.08			1.08			1.08			1.04			1.04					
Percent Difference				3.0			4.7			3.7			4.0			3.8			2.0			2.1					
Trilinear Diagram Data				2.95			3.82			5.64			4.07			3.24			3.95			5.65					
sum (Ca, Mg, Na+K)			2.95			3.82			5.64			4.07			3.24			3.95			5.65						
Calcium			43.81			44.72			40.10			40.61			47.17			43.51			42.92						
Magnesium			41.56			44.20			49.34			48.16			41.18			44.64			47.47						
Sodium + Potassium			14.63			11.07			10.55			11.23			11.64			11.85			9.61						
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			2.81			3.57			5.20			3.84			3.09			3.78			5.60						
Sulfate			10.89			23.94			13.08			34.84			23.88			19.10			53.50						
Chloride			3.02			5.58			11.60			8.44			4.21			8.50			7.60						
Bicarbonate + Carbonate			86.09			70.48			75.32			56.72			71.91			72.41			38.90						

TABLE 5
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY MONITORING WELLS
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES AND RESULTS
(Data Collected from January 1, 2020 to March 31, 2020)

Well	Parameter	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc	Nitrate as N	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
		Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L
Upgradient and Crossgradient Wells																					
MW-59	Limit	0.001	0.001	0.0051	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.00748	0.29	1.41	0.2	0.45	0.02
	Result	<0.0003	0.00045	0.00387	<0.0001	<0.00005	0.000301	<0.00005	<0.0002	<0.0001	0.000253	<0.0005	<0.00004	<0.0001	<0.000075	0.00097	<0.01	1.37	<0.1	<0.1	<0.01
MW-66	Limit	0.001	0.001	0.0068	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.910	0.2	0.2	0.2	0.02
	Result	<0.0003	0.000725	0.0041	<0.0001	<0.00005	0.000335	<0.00005	<0.0002	<0.0001	0.000304	0.00102	<0.00004	<0.0001	0.000711	0.000964	0.352	<0.1	<0.1	<0.1	<0.01
MW-81	Limit	0.001	0.001	0.0049	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.00253	0.00895	1.732	0.2	0.2	0.2	0.02
	Result	<0.0003	0.000507	0.0030	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000113	0.000786	<0.00004	<0.0001	0.00163	0.000966	1.68	<0.1	<0.1	<0.1	<0.01
MW-83	Limit	0.001	0.001	0.0121	0.001	0.002	0.0723	0.003	0.0079	0.001	0.01	0.001	0.003	0.001	0.002	0.004	5.43	0.2	0.2	2.80	0.02
	Result	<0.0003	0.000392	0.0108	<0.0001	<0.00005	0.000986	0.000332	0.00438	<0.0001	0.00226	<0.0005	<0.00004	<0.0001	0.000863	0.00147	4.09	<0.1	<0.1	1.71	<0.01
MW-84	Limit	0.001	0.001	0.0050	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.680	0.2	0.2	0.20	0.02
	Result	<0.0003	0.00032	0.00488	<0.0001	<0.00005	0.000318	0.000147	0.000675	<0.0001	0.00831	0.000673	<0.00004	<0.0001	0.000463	0.00391	0.191	<0.1	<0.1	<0.1	<0.01
MW-93	Limit	0.001	0.0014	0.0095	0.0010	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00231	0.0112	0.0549	0.2	0.2	0.2	0.02
	Result	<0.0003	0.00133	0.0074	<0.0001	<0.00005	<0.0002	0.000097	<0.0002	<0.0001	0.000243	<0.0005	<0.00004	<0.0001	0.00208	0.0011	<0.01	<0.1	<0.1	<0.1	<0.01
MW-94	Limit	0.001	0.001	0.0054	0.001	0.002	0.005	0.003	0.0051	0.001	0.01	0.001	0.003	0.001	0.002	0.004	2.55	0.2	0.2	3.71	0.02
	Result	<0.0003	0.000113	0.0020	<0.0001	<0.00005	<0.0002	0.0000896	0.00113	<0.0001	0.000542	<0.0005	<0.00004	<0.0001	0.000962	0.000508	0.28	<0.1	<0.1	2.25	<0.01
Downgradient Wells																					
MW-68	Limit	0.001	0.389	0.0197	0.001	0.002	0.005	0.003	0.0068	0.001	0.01	0.001	0.003	0.001	0.0037	0.004	0.13	0.2	1	0.2	0.02
	Result	<0.0003	0.021	0.0111	<0.0001	<0.00005	<0.0002	0.000202	0.000293	<0.0001	0.000466	<0.0005	<0.00004	<0.0001	0.000344	0.000665	<0.01	<0.1	<0.1	<0.1	<0.01
MW-69*	Limit	0.001	0.004	0.0142	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0112	0.076	0.2	0.2	0.2	0.02
	Result	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-72	Limit	0.001	0.001	0.0166	0.001	0.002	0.005	0.003	0.00331	0.00104	0.01	0.001	0.003	0.001	0.002	0.0264	0.15	0.2	0.2	0.2	0.02
	Result	<0.0003	0.0001	0.0129	<0.0001	<0.00005	0.000257	<0.00005	0.0002	<0.0001	0.000149	<0.0005	<0.00004	<0.0001	<0.000075	0.00156	<0.01	<0.1	<0.1	<0.1	<0.01
MW-74R	Limit	0.001	0.001	0.0162	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.487	0.2	0.2	0.2	0.02
	Result	<0.0003	0.0004	0.0116	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000853	0.000549	<0.00004	<0.0001	0.0006	0.000503	0.403	<0.1	<0.1	<0.1	<0.01
MW-75	Limit	0.001	0.001	0.0136	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.05	0.2	0.2	0.2	0.02
	Result	<0.0003	0.001	0.0117	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	<0.0001	<0.0005	<0.00004	<0.0001	<0.000075	0.00066	<0.01	<0.1	<0.1	<0.1	<0.01
MW-80	Limit	0.001	0.039	0.0230	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0117	0.028	0.2	1	0.2	0.02
	Result	<0.0003	0.004	0.0138	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000121	<0.0005	<0.00004	<0.0001	<0.000075	0.000505	<0.01	<0.1	<0.1	<0.1	<0.01
MW-85	Limit	0.001	0.001	0.0074	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00135	0.003	0.001	0.002	0.004	1.630	0.2	0.2	0.2	0.02
	Result	<0.0003	0.001	0.00643	<0.0001	<0.00005	<0.0002	<0.00005	<0.0002	<0.0001	0.000182	0.000836	<0.00004	<0.0001	0.0009	<0.0005	0.105	<0.1	<0.1	<0.1	<0.01
MW-87	Limit	0.001	0.067	0.0380	0.001	0.002	0.005	0.003	0.00347	0.001	0.01	0.001	0.003	0.001	0.005	0.004	0.0803	0.2	0.2	0.2	0.02
	Result	<0.0003	0.001	0.0235	<0.0001	<0.00005	<0.0002	0.000133	<0.0002	<0.0001	0.000156	<0.0005	<0.00004	<0.0001	0.0001	<0.0005	<0.01	<0.1	<0.1	<0.1	<0.01

NOTE:
Results greater than Limit Value in **RED Bold**
* MW-69 No sample collected; well was damaged.

TABLE 6
CEDAR HILLS REGIONAL LANDFILL
REGIONAL AQUIFER VOLATILE ORGANIC COMPOUND DETECTIONS
(Data Collected from January 1, 2020 to March 31, 2020)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Upgradient and Crossgradient Wells				
cis-1,2,-Dichloroethene	MW-59	1/21/2020	W59-200121-	1.37
Trichloroethene	MW-83	1/22/2020	W83-200122-	1.71
	MW-94	1/22/2020	W94-200122-	2.25
Downgradient Wells				
No VOA detections in Downgradient Wells				

TABLE 7
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from January 1, 2020 to March 31, 2020)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
East Perched Zone Wells					
pH (Field)	pH Units	MW-102	2/21/2020	W102200221-	6.33
		MW-107	2/18/2020	W107200218-	5.76
		MW-111	2/20/2020	W111200220-	5.8
1,1-Dichloroethane	µg/L	MW-30A	2/19/2020	W30A200219-	1.56
Arsenic, Total	mg/L	MW-102	2/21/2020	W102200221-	0.000269
		MW-107	2/18/2020	W107200218-	0.0019
		MW-108	2/14/2020	W108200214-	0.00194
		MW-109	2/14/2020	W109200214-	0.0383
		MW-111	2/20/2020	W111200220-	0.000552
		MW-112	2/19/2020	W112200219-	0.00307
		MW-30A	2/19/2020	W30A200219-	0.000522
		MW-47	2/19/2020	W47-200219-	0.00277
		MW-62	2/18/2020	W62-200218-	0.000216
		MW-EB6	2/19/2020	WB6-200219-	0.00304
Benzene	ug/L	MW-109	2/14/2020	W109200214-	1.57 JT
Chromium	mg/L	MW-109	2/14/2020	W109200214-	0.0744
Iron, Dissolved	mg/L	MW-109	2/14/2020	W109200214-	10.2
		MW-107	2/18/2020	W107200218-	1.29
		MW-47	2/19/2020	W47-200219-	4.13
Manganese, Dissolved	mg/L	MW-109	2/14/2020	W109200214-	1.21
		MW-107	2/18/2020	W107200218-	2.22
		MW-112	2/19/2020	W112200219-	0.18
		MW-47	2/19/2020	W47-200219-	1.37 D
Nitrate	mg/l	MW-30A	2/19/2020	W30A200219-	12.5
Toluene	µg/L	MW-109	2/14/2020	W109200214-	1610 D
Vinyl Chloride	µg/L	MW-107	2/18/2020	W107200218-	0.328 D
		MW-109	2/14/2020	W109200214-	0.265 D
		MW-110	2/14/2020	W110200214-	0.0924 D
		MW-47	2/19/2020	W47-200219-	4.64 DG
South Solid Waste Area Perched Wells					
pH (Field)	pH Units				None.
Arsenic, Total	mg/L	MW-101	2/18/2020	W101200218-	0.894
Manganese, Dissolved	mg/L	MW-101	2/18/2020	W101200218-	0.99 D
Vinyl Chloride	µg/L	MW-101	2/18/2020	W101200218-	0.319 DG

See Data Qualifier List for Qualifier Information.

Exceedance Criteria: WAC 173-200-040 - Water Quality Standards for Groundwaters of the State of Washington

Table 8
Ion Balance Calculations
Cedar Hills Regional Landfill
Perched Zones Groundwater Monitoring Wells

Data Collected from January 1, 2020 to March 31, 2020

Cations	Molecular Weight	n	East Perched Zone																									
			MW-EB6 2/19/2020			MW-102 2/21/2020			MW-107 2/18/2020			MW-108 2/14/2020			MW-109 2/14/2020			MW-110 2/14/2020			MW-111 2/20/2020			MW-112 2/19/2020				
Site ID	Date	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH		6.8			6.3			5.8			6.7			7.2			6.5			5.8			7.1					
Conductance		114			216			277			447			3548			802			83			307					
TDSobs		98			153			167			288			2660			494			76			204					
Calcium	40.1	2	5.1	0.2525	22.8	21.4	1.06786	46.9	27.5	1.372	51.1	27.5	1.37226	28.4	18.4	0.92	1.9	66.5	3.318	35.4	7.8	0.3902	44.9	26.3	1.312	39.6		
Magnesium	24.3	2	2.9	0.2419	21.8	8.2	0.67229	29.5	7.9	0.646	24.1	10.8	0.88871	18.4	10.6	0.87	1.8	36.2	2.979	31.8	2.5	0.2041	23.5	13.1	1.078	32.6		
Potassium	39.1	1	0.8	0.0215	1.9	1.3	0.03299	1.4	2.9	0.073	2.7	1.7	0.04271	0.9	2.4	0.06	0.1	3.1	0.080	0.9	0.3	0.0074	0.9	2.9	0.073	2.2		
Sodium	23.0	1	13.3	0.5785	52.1	11.6	0.50457	22.1	9.2	0.401	14.9	58.2	2.53156	52.3	1040.0	45.24	95.2	65.6	2.853	30.5	6.1	0.2662	30.7	19.3	0.840	25.4		
Iron	55.8	2	0.2	0.0061	0.5	0.010	0.00036	0.016	1.3	0.046	1.7	0.010	0.00036	0.007	10.2	0.37	0.8	0.1	0.005	0.1	0.010	0.0004	0.04	0.01	0.000	0.01		
Manganese	54.9	2	0.02	0.0008	0.1	0.002	0.00007	0.003	2.2	0.081	3.0	0.001	0.00005	0.001	1.2	0.04	0.1	3.5	0.127	1.4	0.003	0.0001	0.01	0.18	0.007	0.20		
Ammonia-N	14.0	1	0.1	0.0083	0.7	0.002	0.00014	0.006	0.9	0.066	2.5	0.009	0.00066	0.014	0.4	0.03	0.1	0.1	0.005	0.1	0.002	0.0001	0.02	0.02	0.001	0.03		
Total Cations (meq/L)			1.1		2.3			2.7			4.8			47.5			9.4			0.9			3.3					
Anions																												
Alkalinity, Total			45.5		89.4			110			141			2160			429			24.7			115					
Carbonate	60.0	2	0.0181	0.0006	0.1	0.0115	0.0004	0.02	0.0038	0.0001	0.005	0.042	0.001	0.03	2.009	0.067	0.2	0.087	0.0029	0.0	0.0009	0.00003	0.0	0.078	0.003	0.1		
Bicarbonate	61.0	1	55.47	0.909	87.7	109.04	1.7873	81.3	134.19	2.1995	86.5	171.94	2.818	63.2	2631.12	43.127	99.6	523.20	8.5758	97.2	30.13	0.4939	59.6	140.14	2.297	74.6		
Chloride	35.5	1	0.7	0.019	1.8	3.5	0.0979	4.5	6.8	0.1924	7.6	1.9	0.054	1.2	2.8	0.079	0.2	2.1	0.0587	0.7	0.9	0.0256	3.1	4.7	0.133	4.3		
Nitrate-N	14.0	1	0.1	0.007	0.7	1.5	0.1085	4.9	0.01	0.0007	0.03	0.8	0.058	1.3	0.1	0.007	0.02	0.01	0.0007	0.01	0.6	0.0407	4.9	0.1	0.009	0.3		
Sulfate	96.1	2	4.8	0.100	9.6	9.8	0.2036	9.3	7.3	0.1512	5.9	73.4	1.528	34.3	0.2	0.005	0.01	8.9	0.1859	2.1	12.9	0.2686	32.4	30.6	0.637	20.7		
Total Anions (meq/L)			1.0		2.2			2.5			4.5			43.3			8.8			0.8			3.1					
Total Ions (meq/L)			2.1		4.5			5.2			9.3			90.8			18.2			1.7			6.4					
Cation/Anion Ratio			1.07		1.04			1.06			1.08			1.10			1.06			1.05			1.08					
Percent Difference			3.4		1.8			2.7			4.0			4.7			3.0			2.3			3.6					
Trilinear Diagram Data																												
sum (Ca, Mg, Na+K)			1.09		2.28			2.49			4.84			47.09			9.23			0.87			3.30					
Calcium				23.07	46.88			55.06			28.38			1.95			35.95			44.96			39.73					
Magnesium				22.11	29.52			25.92			18.38			1.85			32.27			23.51			32.63					
Sodium + Potassium				54.82	23.60			19.02			53.24			96.20			31.78			31.52			27.64					
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			1.03		2.09			2.54			4.40			43.28			8.82			0.79			3.07					
Sulfate				9.7	9.7			5.9			34.7			0.0			2.1			34.1			20.8					
Chloride				1.9	4.7			7.6			1.2			0.2			0.7			3.2			4.3					
Bicarbonate + Carbonate				88.4	85.6			86.5			64.0			99.8			97.2			62.7			74.9					

TABLE 9
CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES MONITORING WELLS
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES
(Data Collected from January 1, 2020 - March 31, 2020)

Well	Parameter Units	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc	Nitrate as N	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
East Perched Zone Wells																								
MW-30A	Limit	0.001	0.001	0.0071	0.001	0.002	0.005	0.003	0.0103	0.001	0.01	0.001	0.003	0.001	0.00331	0.0188	17	4.56	2.00	0.20	9.46	0.20	1.55	0.03
	Result	< 0.0003	0.0005	0.0042	< 0.0001	< 0.00005	0.0008	0.0000737	0.000440	< 0.0001	0.000812	< 0.0005	< 0.00004	< 0.0001	0.00227	0.001040	12.5	1.56	< 0.1	< 0.1	1.86	< 0.1	1.01	< 0.01
MW-47	Limit	0.001	0.0113	0.0464	0.001	0.002	0.005	0.003	0.0105	0.00143	0.01	0.001	0.003	0.001	0.00307	0.168	0.05	1.02	2.00	0.44	6.64	0.41	0.23	8.46
	Result	< 0.0003	0.0028	0.0394	< 0.0001	< 0.00005	0.000237	0.000368	< 0.0002	< 0.0001	0.00238	< 0.0005	< 0.00004	< 0.0001	0.000178	0.00183	< 0.01	0.52	< 0.1	< 0.1	1.47	< 0.1	< 0.1	4.64
MW-62	Limit	0.001	0.001	0.0036	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00212	0.004	7.97	10.76	0.20	0.20	16.21	0.21	0.47	0.02
	Result	< 0.0003	0.000216	0.0024	< 0.0001	< 0.00005	0.000338	0.0000961	0.000472	< 0.0001	0.000475	< 0.0005	< 0.00004	< 0.0001	0.000714	0.00128	2.63	0.245	< 0.1	< 0.1	0.715	< 0.1	< 0.1	< 0.01
South Solid Waste Area Wells																								
MW-101	Limit	0.001	0.014	0.0353	0.001	0.002	0.005	0.003	0.00416	0.00109	0.01	0.001	0.003	0.001	0.0039	0.00729	0.062	0.21	0.20	0.23	0.28	0.20	0.20	0.91
	Result	< 0.0003	0.0115	0.0186	< 0.0001	< 0.00005	0.000492	0.000283	0.000846	< 0.0001	0.00353	< 0.0005	< 0.00004	< 0.0001	0.000335	0.00116	0.013	< 0.1	< 0.1	< 0.1	0.12	< 0.1	< 0.1	0.32

NOTE:
Results greater than Limit Value in **RED Bold**

TABLE 10
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES VOLATILE ORGANIC COMPOUND DETECTIONS
(Data Collected from January 1, 2020 to March 31, 2020)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
East Perched Zone Wells				
1,1-Dichloroethane	MW-30A	2/19/2020	W30A200219-	1.56
	MW-47	2/19/2020	W47-200219-	0.52
	MW-62	2/18/2020	W62-200218-	0.245
	MW-102	2/21/2020	W102200221-	0.259
	MW-110	2/14/2020	W110200214-	0.29
1, 2-Dichlorobenzene	MW-107	2/18/2020	W107200218-	0.263
	MW-110	2/14/2020	W110200214-	0.914
1,2-Dichloroethane	MW-110	2/14/2020	W110200214-	0.234
1,2-Dichloropropane	MW-110	2/14/2020	W110200214-	0.236
1,4-Dichlorobenzene	MW-107	2/18/2020	W107200218-	1.69
	MW-110	2/14/2020	W110200214-	0.199 JT
Benzene	MW-107	2/18/2020	W107200218-	0.12 JT
	MW-109	2/14/2020	W109200214-	1.57 JT
	MW-110	2/14/2020	W110200214-	0.235
Chlorobenzene	MW-107	2/18/2020	W107200218-	1.22
	MW-109	2/14/2020	W109200214-	1.41 JT
	MW-110	2/14/2020	W110200214-	0.972
Chloroethane	MW-47	2/19/2020	W47-200219-	0.154 JT
	MW-110	2/14/2020	W110200214-	0.107 JT
Chloroform	MW-108	2/14/2020	W108200214-	0.127 JT
cis-1,2,-Dichloroethene	MW-30A	2/19/2020	W30A200219-	1.86
	MW-47	2/19/2020	W47-200219-	1.47
	MW-62	2/18/2020	W62-200218-	0.715
	MW-102	2/21/2020	W102200221-	0.651
	MW-107	2/18/2020	W107200218-	0.115 JT
	MW-110	2/14/2020	W110200214-	2.83
	MW-111	2/20/2020	W111200220-	0.146 JT
Dichlorodifluoromethane	MW-47	2/19/2020	W47-200219-	4.19
Tetrachloroethene	MW-30A	2/19/2020	W30A200219-	0.158 JT
Toluene	MW-109	2/14/2020	W109200214-	1610 D
Trans-1,2-Dichloroethene	MW-110	2/14/2020	W110200214-	0.182 JT
Trichloroethene	MW-30A	2/19/2020	W30A200219-	1.01
	MW-111	2/20/2020	W111200220-	0.107 JT
Vinyl Chloride	MW-47	2/19/2020	W47-200219-	4.64 DG
	MW-107	2/18/2020	W107200218-	0.328 D
	MW-109	2/14/2020	W109200214-	0.265 D
	MW-110	2/14/2020	W110200214-	0.0924 D
South Solid Waste Area Perched Wells				
cis-1,2,-Dichloroethene	MW-101	2/18/2020	W101200218-	0.12 T
Vinyl Chloride	MW-101	2/18/2020	W101200218-	0.319 DG

See Data Qualifier List for Qualifier Information.

TABLE 11
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
(Data Collected from January 1, 2020 to March 31, 2020)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
2-Butanone	FIELD BLANK	02/21/20	W102200221F	0.289 GJT
Chloroform	FIELD BLANK	02/21/20	W102200221F	2.11

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
NO VOA TRIP BLANK DETECTIONS THIS QUARTER				

See Data Qualifier List for Qualifier Information.

Table 12
CEDAR HILLS REGIONAL LANDFILL
STORM AND SURFACE WATER MONITORING ACTIVITIES 1ST QUARTER 2020

Station ID	Date	Planned Activity	Sample ID	Comment
SW-GS1	1/6/2020	NPDES Permit Sample	SGS1200106P	
SW-N4	1/6/2020	NPDES Permit Sample	SN4-200106P	
SW-SL3	1/6/2020	NPDES Permit Sample	SSL3200106P	
SW-TD1	--	Area 5 Top Deck Monitoring	--	No flow - no sample taken.
SW-TD2	--	Area 5 Top Deck Monitoring	--	No flow - no sample taken.
SW-TD4	--	Area 5 Top Deck Monitoring	--	No flow - no sample taken.
SW-TD6	--	Area 5 Top Deck Monitoring	--	No flow - no sample taken.
SW-E1	2/20/2020	East Perched Zone SW Monitoring	SE1-200220Q	
Stream Gauges	1/2/2020	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	2/20/2020	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	3/24/2020	Monthly Stream Gauge Level Measurement	--	

**TABLE 13
CEDAR HILLS REGIONAL LANDFILL
STORMWATER PERMIT BENCHMARKS and EFFLUENT LIMITS**

**INDUSTRIAL STORMWATER GENERAL PERMIT
BENCHMARKS and EFFLUENT LIMITS**

Parameter	Units	Minimum Sampling Frequency	Benchmark	Effluent Limit	
				Monthly Average	Daily Maximum
pH	Std. Units	Quarterly	5.0 to 9.0	6.0 to 9.0	
Turbidity	NTU	Quarterly	25	--	--
Oil Sheen	Yes/No	Quarterly	None Visible	--	--
Copper, Total	ug/L	Quarterly	14	--	--
Zinc, Total	ug/L	Quarterly	117	110	200
BOD	mg/L	Quarterly	--	37	140
TSS	mg/L	Quarterly	--	27	88
Ammonia-N	mg/L	Quarterly	--	4.9	10
Alpha Terpineol	ug/L	Quarterly	--	16	33
Benzoic Acid	ug/L	Quarterly	--	71	120
4-Methylphenol*	ug/L	Quarterly	--	14	25
Phenol	ug/L	Quarterly	--	15	26

* Analytical result reported as the total of 3-Methylphenol (CAS RN 108-39-4) and 4-Methylphenol (CAS RN 106-44-5)

**CONSTRUCTION STORMWATER GENERAL PERMIT
BENCHMARKS**

Parameter	Units	Minimum Sampling Frequency	Benchmark
Turbidity	NTU	Weekly	25

TABLE 14
CEDAR HILLS REGIONAL LANDFILL
STORMWATER PERMIT CRITERIA EXCEEDANCES
(Data Collected from January 1, 2020 - March 31, 2020)

SUMMARY OF ISGP* EXCEEDANCES

Parameter	Units	Sampling Location	Date	Value	Regulatory Limit	Type
Turbidity	NTU	GS1	2/6/2020	31	25	Permit
Turbidity	NTU	SL3	02/06/20	77.7	25	Permit

*ISGP - Industrial General Stormwater Permit

SUMMARY OF CSWGP* EXCEEDANCES

Parameter	Units	Sampling Location	Date	Value	Permit Limit	Type
Turbidity	NTU	C3	1/22/2020	53.7	25	Permit
Turbidity	NTU	C3	02/24/20	33.5	26	Permit

*CSWGP - Construction Stormwater General Permit

Table 15
Water Quality Standards for Groundwaters of the State of Washington

Analyte	CAS No.	Ground Water Quality Criteria Criterion*	
I. PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES			
A. Primary Contaminants			
Barium	7440-39-3	1	mg/L
Cadmium	7440-43-9	0.005	mg/L
Chromium	7440-47-3	0.05	mg/L
Lead	7439-92-1	0.015	mg/L
Mercury	7439-97-6	0.002	mg/L
Selenium	7782-49-2	0.01	mg/L
Silver	7440-22-4	0.05	mg/L
Fluoride	16984-48-8	4	mg/L
Nitrate	14797-55-8	10	mg/L
Endrin	72-20-8	0.2	ug/L
Methoxychlor	72-43-5	40	ug/L
1,1,1-Trichloroethane	71-55-6	200	ug/L
2,4-D	94-75-7	70	ug/L
2,4,5-TP	93-72-1	100	ug/L
Total Coliforms		1/100	mL
B. Secondary Standards			
Copper	7440-50-8	1	mg/L
Iron	7439-89-6	0.3	mg/L
Manganese	7439-96-5	0.05	mg/L
Zinc	7440-66-6	5	mg/L
Chloride	16887-00-6	250	mg/L
Sulfate	14808-79-8	250	mg/L
Total Dissolved Solids		500	mg/L
Foaming Agents		0.5	mg/L
pH	12408-02-5	6.5-8.5	units
Corrosivity		non-corrosive	
Color		15	units
Odor-Threshold		3	units
C. Radionuclides and Radioactivity			
Gross Alpha particle activity		15	pCi/L
Gross Beta particle activity		50	pCi/L
Tritium	10028-17-8	20,000	pCi/L
Strontium	7440-24-6	8	pCi/L
Radium 226 & Radium 228		5	pCi/L
Radium 226	13982-63-3	3	pCi/L
II. CARCINOGENS			
1,1-Dichloroethane	75-34-3	1	ug/L
1,2-Dichloroethane	107-06-2	0.5	ug/L
1,2-Dichloropropane	78-87-5	0.6	ug/L
1,2-Dimethylhydrazine	540-73-8	60	ug/L
1,2-Diphenylhydrazine	122-66-7	0.09	ug/L
1,3-Dichloropropene tot.	542-75-6	0.2	ug/L
1,4-Dichlorobenzene	106-46-7	4	ug/L
1,4-Dioxane	123-91-1	7	ug/L
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.000006	ug/L
2,4,6-Trichlorophenol	88-06-2	4	ug/L
2,4-Dinitrotoluene	121-14-2	0.1	ug/L
2,4-Toluenediamine	95-80-7	0.002	ug/L
2,6-Dinitrotoluene	606-20-2	0.1	ug/L
2-Methoxy-5-nitroaniline	99-59-2	2	ug/L
2-Methylaniline	95-53-4	0.2	ug/L
2-Methylaniline hydrochloride	636-21-5	0.5	ug/L
3,3'-Dichlorobenzidine	91-94-1	0.2	ug/L
3,3'-Dimethoxybenzidine	119-90-4	6	ug/L
3,3-Dimethylbenzidine	119-93-7	0.007	ug/L
4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2	ug/L
4-Chloro-2-methyl aniline	95-69-2	0.1	ug/L
4-Chloro-2-methyl aniline hydrochloride	3165-93-3	0.2	ug/L
Acrylamide	79-06-1	0.02	ug/L
Acrylonitrile	107-13-1	0.07	ug/L
Aldrin	309-00-2	0.005	ug/L
Aniline	62-53-3	14	ug/L
Aramite	140-57-8	3	ug/L
Arsenic	7440-38-2	0.00005	mg/L

Table 15
Water Quality Standards for Groundwaters of the State of Washington

Analyte	CAS No.	Ground Water Quality Criteria Criterion*	
Azobenzene	103-33-3	0.7	ug/L
Benzene	71-43-2	1	ug/L

Table 15
Water Quality Standards for Groundwaters of the State of Washington

Analyte	CAS No.	Ground Water Quality Criteria Criterion*	
Benzidine	92-87-5	0.0004	ug/L
Benzo(a)pyrene	50-32-8	0.008	ug/L
Benzo(a)anthracene	98-07-7	0.007	ug/L
Benzyl chloride	100-44-7	0.5	ug/L
Bis(2-ethylhexyl)phthalate	117-81-7	6	ug/L
Bis(chloroethyl)ether	111-44-4	0.07	ug/L
Bis(chloromethyl)ether	542-88-1	0.0004	ug/L
Bromodichloromethane	75-27-4	0.3	ug/L
Bromoform	75-25-2	5	ug/L
Carbazole	86-74-8	5	ug/L
Carbon Tetrachloride	56-23-5	0.3	ug/L
Chlordane	5103-71-9	0.06	ug/L
Chlorodibromomethane	124-48-1	0.5	ug/L
Chloroform	67-66-3	7	ug/L
Chlorthalonil	1897-45-6	30	ug/L
DDT (includes DDE and DDD)	50-29-3, 72-55-9, 72-54-8	0.3	ug/L
Diallate	2303-16-4	1	ug/L
Dichlorovos	62-73-7	0.3	ug/L
Dieldrin	60-57-1	0.005	ug/L
Direct Black 38	1937-37-7	0.009	ug/L
Direct Blue 6	2602-46-2	0.009	ug/L
Direct Brown 95	16071-86-6	0.009	ug/L
Epichlorohydrin	106-89-8	8	ug/L
Ethyl acrylate	140-88-5	2	ug/L
Ethylene dibromide	106-93-4	0.001	ug/L
Ethylene thiourea	96-45-7	2	ug/L
Folpet	133-07-3	20	ug/L
Furazolidone	67-45-8	0.02	ug/L
Furium	531-82-8	0.002	ug/L
Furmecycloz	60568-05-0	3	ug/L
Heptachlor	76-44-8	0.02	ug/L
Heptachlor epoxide	1024-57-3	0.009	ug/L
Hexachlorobenzene	118-74-1	0.05	ug/L
Hexachlorocyclohexane (alpha)	319-84-6	0.001	ug/L
Hexachlorocyclohexane (technical)	608-73-1	0.05	ug/L
Hexachlorodibenzo-p-dioxin, mix	34465-46-8	0.00001	ug/L
Hydrazine/hydrazine sulfate	302-01-2/10034-93-2	0.03	ug/L
Lindane	58-89-9	0.06	ug/L
Methylene Chloride	75-09-2	5	ug/L
Mirex	2385-85-5	0.05	ug/L
Nitrofurazone	59-87-0	0.06	ug/L
N-Nitrosodiethanolamine	1116-54-7	0.03	ug/L
N-Nitrosodiethylamine	55-18-5	0.0005	ug/L
N-Nitrosodimethylamine	62-75-9	0.002	ug/L
N-Nitroso-di-n-butylamine	924-16-3	0.02	ug/L
N-Nitroso-di-n-propylamine	621-64-7	0.01	ug/L
N-Nitrosodiphenylamine	86-30-6	17	ug/L
N-Nitroso-N-methylethylamine	10595-95-6	0.004	ug/L
N-Nitrosopyrrolidine	930-55-2	0.04	ug/L
o-Chloronitrobenzene	88-73-3	3	ug/L
o-Phenylenediamine	95-54-5	0.005	ug/L
o-Toluidine	95-53-4	0.2	ug/L
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.004	ug/L
PAHs [Benzo(a)pyrene]		0.01	ug/L
PBBs	59536-65-1	0.01	ug/L
PCBs c	27323-18-8	0.01	ug/L
p-Chloronitrobenzene	100-00-5	5	ug/L
Propylene oxide	75-56-9	0.01	ug/L
Tetrachloroethylene	127-18-4	0.8	ug/L
Toxaphene c	8001-35-2	0.08	ug/L
Trichloroethylene (TCE)	79-01-6	3	ug/L
Trimethyl phosphate	512-56-1	2	ug/L
Vinyl chloride	75-01-4	0.02	ug/L

NOTES: pCi/L=picouries per liter
mg/L=milligrams per liter
ug/L=micrograms per liter
*Ground Water Quality Criteria=173-200 WAC Water Quality Standards
for Ground Waters of the State of Washington

TABLE 16
CEDAR HILLS REGIONAL LANDFILL
LAB DATA REVIEW - SUSPECT DATA
(Data Collected from January 1, 2020 - March 31, 2020)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
NO SUSPECT DATA THIS QUARTER						

See Data Qualifier List for Qualifier Information.

APPENDIX A

Potentiometric Surface Maps and Aquifer Flow Calculations



King County

Water and Land Resources Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 704

Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192

TTY Relay: 711

TECHNICAL MEMORANDUM

April 21, 2020

TO: Natalya Usova, Engineer I, Facility Engineering and Science Section, Solid Waste Division, Department of Natural Resources and Parks (DNRP)

FM: Sevin Bilir, Environmental Scientist IV, Science and Technical Support Section, Water and Land Resources Division, DNRP

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations First Quarter 2020 Results
Cedar Hills Regional Landfill, King County, Washington
Project No. 1126980 – Task 25.106

The King County Water and Land Resources Division (WLRD) submits this memorandum report on groundwater conditions during the first quarter of 2020 for the regional aquifer beneath the Cedar Hills Regional Landfill (Landfill), in accordance with the *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations* (WLRD, 2020). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater levels at the Landfill on January 2, 2020. These measurements were received by WLRD on March 3, 2020 and were used to:

1. Evaluate the potentiometric groundwater surface elevation for the regional aquifer;
2. Determine the groundwater flow direction and horizontal gradient for the regional aquifer; and
3. Calculate the groundwater velocity of the regional aquifer.

There have been no significant changes in the interpreted regional aquifer groundwater conditions since the report submitted for the fourth quarter of 2019.

Groundwater Elevation Data

The SWD measured regional aquifer groundwater level measurements at 40 monitoring wells during the first quarter of 2020. These wells are completed in the regional aquifer

as referred to in *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010).

Table A-1 lists the groundwater monitoring well identifications, locations, construction details, measured depth to groundwater levels and calculated groundwater elevations for monitoring wells screened in the regional aquifer. Water level measurements at monitoring well MW-69 remain unobtainable due to a damaged well. A total of 22 wells had measured water levels within ten feet of the top of the screened interval and were used for mapping potentiometric surface contours.

Figure A-1 shows calculated groundwater elevations at well locations and interpreted groundwater potentiometric surface contours for the regional aquifer based on measurements taken on January 2, 2020.

Direction of Groundwater Flow

Interpreted groundwater flow directions in the regional aquifer, based on measurements taken on January 2, 2020, are shown in Figure A-1. Calculated groundwater elevations during the first quarter of 2020 indicate that groundwater in the regional aquifer generally flows to the:

- northeast and north-northeast in the *northern portion* of the Landfill,
- north and north-northwest beneath the *central portion* of the Landfill, and
- north beneath the *southern portion* of the Landfill with minor components of flow to the north-northwest and north-northeast.

Table A-2 lists the flow direction for each portion of the regional aquifer beneath the Landfill based on measurements taken on January 2, 2020 and mapping of groundwater elevation contours.

Groundwater Parameters

Table A-2 presents a summary of the groundwater parameters. Mean horizontal hydraulic conductivity and effective porosity values were based on the ranges referred to in *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010). The mean horizontal hydraulic conductivity for the regional aquifer beneath the Landfill is 60 feet per day (ft/d) in the northern and central portions of the regional aquifer beneath the Landfill and 0.18 ft/d in the southern portion of the regional aquifer beneath the Landfill (Aspect 2010). Average effective porosities are 24 and 26 percent, respectively for the same areas (Aspect 2010).

The hydraulic gradient is greatest under the southern portion of the Landfill (0.012 ft/ft) and slightly lower under the rest of the Landfill based on measurements made during the first quarter 2020.

Average horizontal groundwater velocities for the regional aquifer beneath the Landfill, are based on spatial differences in aquifer parameters, hydraulic gradients, and calculations using the following formula:

where:

$$v = \frac{I}{n_{eff}} K \frac{\Delta H}{\Delta L}$$

v = Groundwater velocity [L/t]
 n_{eff} = Effective porosity [dimensionless]
 K = Hydraulic conductivity [L/t]
 $\frac{\Delta H}{\Delta L}$ = Hydraulic gradient [L/L]

The mean horizontal groundwater velocities for the regional aquifer beneath the Landfill, are lowest under the southern portion of the landfill (0.008 ft/d) and much greater under the rest of the Landfill (up to 1.99 ft/d under the central portion).

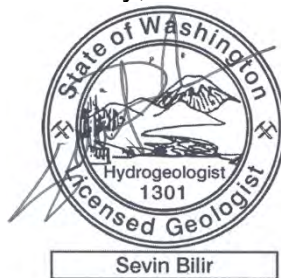
References

Aspect Consulting, LLC. (Aspect). 2010. Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill. Unpublished work. April 30.

King County Water and Land Resources Division (WLRD). 2020. Proposal for 2019 Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations; King County Closed Landfills (Cedar Falls, Enumclaw, Hobart and Vashon Island) and Cedar Hills Regional Landfill. February.

Thank you for the opportunity to provide hydrogeologic services to SWD. If you have any questions, please feel free to contact me at 206-477-4646 or sevin.bilir@kingcounty.gov.

Sincerely,



Sevin Bilir, WA LHG
Environmental Scientist IV
King County Water and Land Resources Division

Enclosures:

- Table A-1: Well Details and Groundwater Elevations – First Quarter 2020
- Table A-2: Groundwater Parameters – First Quarter 2020
- Figure A-1: Groundwater Potentiometric Surface Map – First Quarter 2020 –
Regional Aquifer

Table A-1: Well Details and Groundwater Elevations – First Quarter 2020
Cedar Hills Regional Landfill
King County, Washington

							January 2, 2020	
	Well Identification	Easting ² (ft)	Northing ² (ft)	Top of Casing Elevation (ft MSL)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Measured Depth to Water ¹ (ft)	Groundwater Elevations (ft MSL)
Wells with water levels within 10 ft of the top of screen	MW-60	1701154.47	167873.20	567.15	334.81	325.81	229.55	337.60
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	266.39	330.16
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	239.19	292.09
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	220.56	295.87
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	332.31	314.76
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	360.87	311.00
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	191.77	293.93
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	240.41	290.85
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	137.89	353.82
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	184.02	309.64
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	126.54	348.31
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	146.18	350.63
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	236.46	294.34
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	246.36	285.40
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	250.15	285.89
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	248.45	288.86
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	227.78	285.90
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	308.57	323.58
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	144.48	351.03
	MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.41	320.13
MW-100	1700791.72	169610.46	620.32	319.06	309.06	298.14	322.18	
MW-106	1702536.99	173461.69	475.47	280.04	270.04	190.74	284.73	
Wells with water levels greater than 10 ft above the top of screen	MW-21	1697901.86	173876.38	420.66	263.22	255.22	125.44	295.22
	MW-22P	1701844.34	173088.17	517.09	236.02	231.22	232.45	284.64
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	146.17	329.82
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	263.74	283.32
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	279.15	301.28
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	129.19	351.14
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	104.98	351.66
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	149.85	329.42
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	124.65	332.48
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	210.10	335.73
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	245.83	286.57
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	239.09	291.32
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	232.31	280.51
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	221.90	280.32
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	247.09	284.93
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	200.58	293.06
	WS-NPW-1	1701906.96	171138.99	646.33	282.80	267.90	332.50	313.83
WS-NPW-3	1701922.88	170663.28	645.81	285.00	273.90	334.25	311.56	
Other	MW-69	1698061.86	172400.20	653.69	293.57	279.97	NM	NA

Notes:

1. Water level measurements made by SWD personnel.
 2. Reference datum for northing and easting coordinates is the North American Datum of 1927 (NAD 27)
- Elevations reported in feet (ft) above mean sea level (MSL) based on the National Geodetic Vertical Datum of 1929 (NGVD 29).

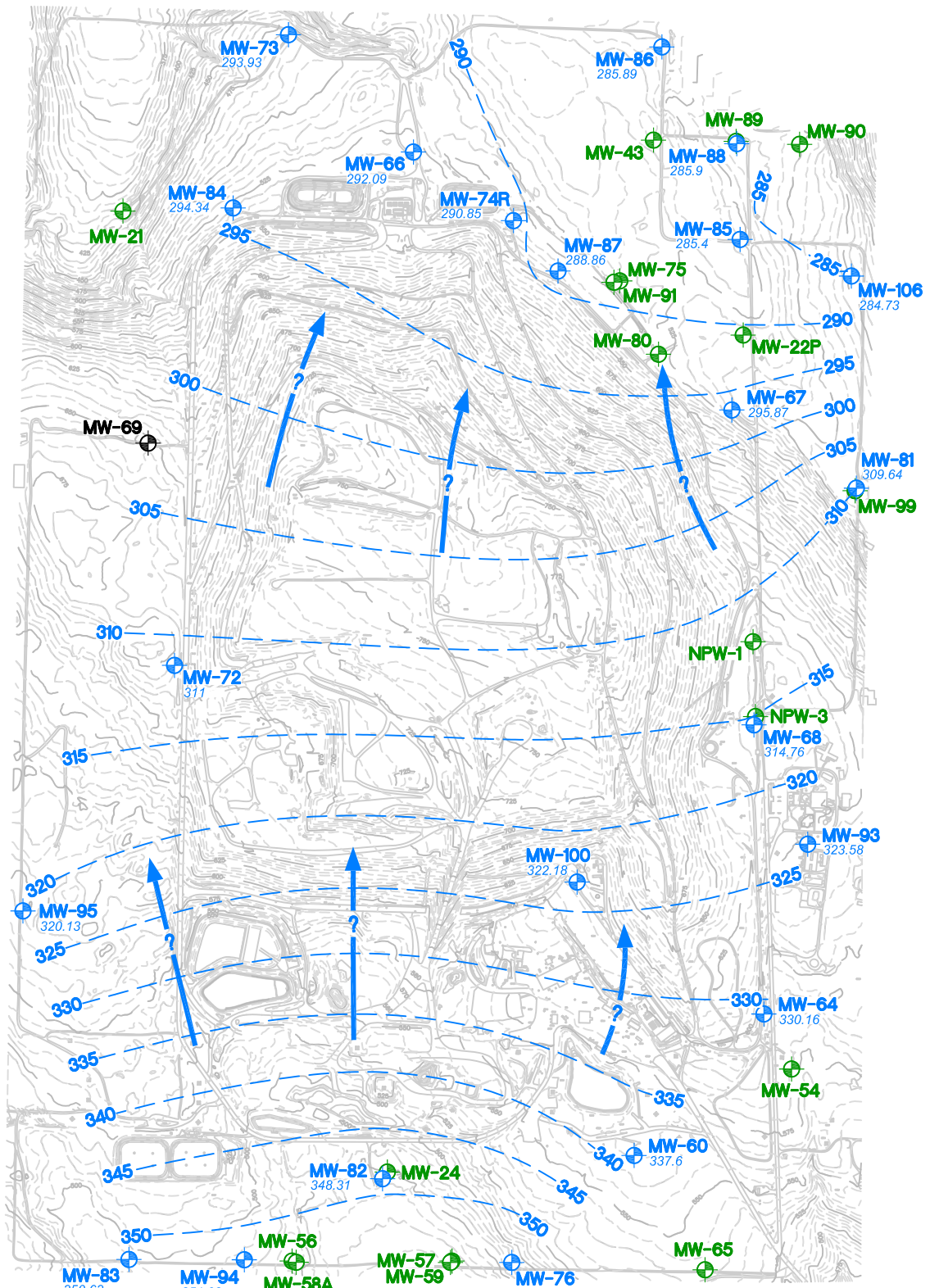
NM Not measured due to damaged well. Could not access water level.
 NA Not applicable.

Table A-2: Groundwater Parameters – First Quarter 2020
 Cedar Hills Regional Landfill
 King County, Washington

Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity ^{1,3} (K)			Horizontal Hydraulic Gradient ² (DH/DL) (ft/ft)	Effective Porosity ¹ (n _{eff})	Horizontal Groundwater Velocity (v) (ft/d)	General Groundwater Flow Direction
	Range	(cm/s)	(ft/d)				
Northern	Minimum	2.10E-03	6	0.0076	24%	0.19	NNE, NE
	Maximum	4.20E-02	120			3.78	
	Mean	2.10E-02	60			1.89	
Central	Minimum	2.10E-03	6	0.0080	24%	0.20	N, NNW
	Maximum	4.20E-02	120			3.98	
	Mean	2.10E-02	60			1.99	
Southern	Minimum	6.40E-06	0.018	0.012	26%	0.001	N, NNE, NNW
	Maximum	6.40E-04	1.8			0.082	
	Mean	6.40E-05	0.18			0.008	

Notes:

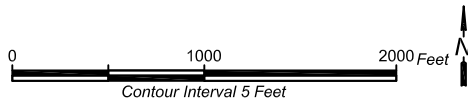
1. Horizontal hydraulic conductivity values and effective porosity values from *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010).
 2. Hydraulic gradients measured from the potentiometric surface map shown on Figure A-1.
 3. Mean hydraulic conductivity values are the geometric mean of the high and low values.
- NNE, north-northeast; NNW, north-northwest; NE, northeast; N, north.



Legend

- MW-X** Well completed in Regional Aquifer with water levels within the screen or within 10 feet of the top of screen.
- MW-X** Wells completed in Regional Aquifer with water levels more than 10 feet above the top of screen.
- MW-X** Wells completed in Regional Aquifer - Data not used or no measurement this quarter.

- 300** Regional Aquifer Groundwater Elevation Contour (feet MSL).
- Inferred Horizontal Groundwater Flow Path



Notes:

1. Groundwater measurements made on January 2, 2020.
2. Only wells completed in the Regional Aquifer with well screen tops within 10 feet of the water table were used for contouring.



Groundwater Potentiometric Surface Map
First Quarter 2020 - Regional Aquifer
 Cedar Hills Regional Landfill
 King County, Washington

DATE: March 2020	PROJECT NO. 1126980
DESIGNED BY: SB	FIGURE NO. A-1
DRAWN BY: KK	
REVISED BY: SB	

APPENDIX B

Field and Analytical Test Results

Groundwater Field and Analytical Data

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-100	1/2/2020	620.32	298.14	322.18	
MW-101	1/2/2020	474.72	30.79	443.93	Needs bushes cut way back
MW-102	1/2/2020	552.48	44.35	508.13	
MW-103	1/2/2020	639.08	11.53	627.55	
MW-104	1/2/2020	629.68	27.19	602.49	
MW-105	1/2/2020	521.23	19.18	502.05	
MW-106	1/2/2020	475.47	190.74	284.73	
MW-107	1/2/2020	589.029	27.35	561.679	
MW-108	1/2/2020	612.258	14.23	598.028	Plug out, replaced plug
MW-109	1/2/2020	638.728	7.98	630.748	
MW-110	1/2/2020	641.742	4.29	637.453	
MW-111	1/2/2020	643.797	8.09	635.71	
MW-112	1/2/2020	638.929	13.24	625.689	
MW-21	1/2/2020	420.66	125.44	295.22	
MW-22	1/2/2020	517.09	232.45	284.64	
MW-24	1/2/2020	475.99	146.17	329.82	
MW-25	1/2/2020	474.41	5.45	468.96	
MW-27A	1/2/2020	584.23	60.18	524.05	
MW-28	1/2/2020	527.75	22.2	505.55	
MW-29	1/2/2020	532.92	9.55	523.37	Top of PVC above TSC
MW-30A	1/2/2020	568.43	28.78	539.65	Annulus full of water
MW-41D	1/2/2020	462.32	25.52	436.8	On top of convex PVC cap
MW-41S	1/2/2020	462.44	4.29	458.15	On top of convex PVC cap
MW-43	1/2/2020	547.06	263.74	283.32	
MW-45	1/2/2020	488.4	13.6	474.8	Water in annulus
MW-47	1/2/2020	634.6	16.94	617.66	
MW-48	1/2/2020	594.49	42.8	551.69	
MW-50	1/2/2020	637.02	30.14	606.88	PVC cap is rounded
MW-54	1/2/2020	580.43	279.15	301.28	Needs weed wacking
MW-55	1/2/2020	652.29	28.73	623.56	Water in annulus
MW-56	1/2/2020	480.33	129.19	351.14	
MW-57	1/2/2020	456.64	104.98	351.66	
MW-58A	1/2/2020	479.27	149.85	329.42	No pump. Tubing on grnd!
MW-59	1/2/2020	457.13	124.65	332.48	
MW-60	1/2/2020	567.15	229.55	337.60	Needs bushes cut back
MW-62	1/2/2020	556.21	49.69	506.52	Some water in annulus
MW-63	1/2/2020	515.88	10.58	505.30	
MW-64	1/2/2020	596.55	266.39	330.16	
MW-65	1/2/2020	545.83	210.1	335.73	Needs gravel
MW-66	1/2/2020	531.28	239.19	292.09	
MW-67	1/2/2020	516.43	220.56	295.87	
MW-68	1/2/2020	647.07	332.31	314.76	

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-69	1/2/2020	653.69			Damaged.
MW-72	1/2/2020	671.87	360.87	311	Lid hinge needs repaired
MW-73	1/2/2020	485.7	191.77	293.93	
MW-74R	1/2/2020	531.26	240.41	290.85	
MW-75	1/2/2020	532.4	245.83	286.57	
MW-76	1/2/2020	491.71	137.89	353.82	
MW-79	1/2/2020	459.17			Needs to be fixed
MW-80	1/2/2020	530.41	239.09	291.32	Yellow jackets
MW-81	1/2/2020	493.66	184.02	309.64	
MW-82	1/2/2020	474.85	126.54	348.31	
MW-83	1/2/2020	496.81	146.18	350.63	0.74' @ SS1
MW-84	1/2/2020	530.8	236.46	294.34	
MW-85	1/2/2020	531.76	246.36	285.4	
MW-86	1/2/2020	536.04	250.15	285.89	
MW-87	1/2/2020	537.31	248.45	288.86	Yellow jackets
MW-88	1/2/2020	513.68	227.78	285.9	
MW-89	1/2/2020	512.82	232.31	280.51	
MW-90	1/2/2020	502.22	221.90	280.32	
MW-91	1/2/2020	532.02	247.09	284.93	
MW-93	1/2/2020	632.15	308.57	323.58	
MW-94	1/2/2020	495.51	144.48	351.03	
MW-95	1/2/2020	571.54	251.41	320.13	
MW-98	1/2/2020	503.73	14.73	489	
MW-99	1/2/2020	493.64	200.58	293.06	
MW-EB5	1/2/2020	645.36	37.47	607.89	
MW-EB5S	1/2/2020	645.77	7.33	638.44	
MW-EB6	1/2/2020	589.61	25.99	563.62	
WS-NPW-1	1/2/2020	646.33	332.5	313.83	
WS-NPW-3	1/2/2020	645.81	334.25	311.56	

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater Field Parameters
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Sample ID	Date	pH (Field) (std. Units)	Conductance (Field) (umhos/cm)	Temperature (Field) (° C)	Purge Volume (Field) (gal)	Dissolved Oxygen (Field) (mg/L)	ORP (Field) (mV)	Turbidity (Field) (NTU)
MW-101	W101200218-	2/18/2020	6.81	486.5	8.81	2.5			4.78
MW-102	W102200221-	2/21/2020	6.33	215.5	9.45	0.33	11.25	392.4	21.9
MW-107	W107200218-	2/18/2020	5.76	276.9	11.55	1.5	0.83	103.9	1.05
MW-108	W108200214-	2/14/2020	6.69	447	9.6	0.5	7.75	180.9	6.25
MW-109	W109200214-	2/14/2020	7.19	3548	9.89	1	1.05	-140.3	18.4
MW-110	W110200214-	2/14/2020	6.53	802	10.47	0.75	1.91	79.4	19.7
MW-111	W111200220-	2/20/2020	5.8	83.4	10.14	0.75	7.48	409.5	0.64
MW-112	W112200219-	2/19/2020	7.05	307.2	10.56	1.25	0.57	119.6	0.58
MW-30A	W30A200219-	2/19/2020	6.5	262.7	11.18	3.3			2.67
MW-47	W47-200219-	2/19/2020	6.74	1067	11.18	27.35			1.21
MW-59	W59-200121-	1/21/2020	6.76	214.4	9.64	5	0.5	-36.9	3.31
MW-62	W62-200218-	2/18/2020	7.03	158.7	9.1	3.25			3.98
MW-66	W66-200106-	1/6/2020	7.17	208.5	9.77	3.5	5.55	223.9	2.55
MW-68	W68-200213-	2/13/2020	6.63	292	9.93	4	0.47	186.1	2.48
MW-72	W72-200117-	1/17/2020	6.68	357.6	9.88	6	0.78	-0.3	12.4
MW-74R	W74R200121-	1/21/2020	6.9	494.2	10.05	1.5	10.15	335.2	1
MW-75	W75-200121-	1/21/2020	6.86	378	9.58	4.75	0.53	-17.9	1.83
MW-80	W80-200213-	2/13/2020	6.93	316.1	9.37	5	0.94	-74.5	0.54
MW-81	W81-200121-	1/21/2020	7.53	161.8	9.45	2.5	5.93	240.2	0.91
MW-83	W83-200122-	1/22/2020	6.75	665	10.26	3.5	0.98	241	0.43
MW-84	W84-200121-	1/21/2020	7.37	208.2	8.43	2.25	10.96	278.1	3.96
MW-85	W85-200122-	1/22/2020	6.74	369.1	9.37	3.5	2.79	287.4	0.57
MW-87	W87-200121-	1/21/2020	6.83	534	10.31	4	0.41	-22.7	3.64
MW-93	W93-200122-	1/22/2020	6.95	327.8	10.65	5	1.2	249.7	0.39
MW-94	W94-200122-	1/22/2020	6.52	313.1	9.45	3.25	1.43	283.4	0.76
MW-EB6	WB6-200219-	2/19/2020	6.82	113.7	9.83	2			7.86

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --Groundwater Conventional Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Sample ID	Date	Alkalinity, Total (CaCO ₃) (mg/L)	Ammonia, (NH ₃) (mg/L)	Chloride (mg/L)	Nitrate- Nitrogen, (NO ₃ as N) (mg/L)	Specific Conductance (umhos/cm)	Sulfate (SO ₄) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-101	W101200218-	2/18/2020	276	0.0126	2.67	0.013 T	521	4.11	322	3.83	336	2.4
MW-102	W102200221-	2/21/2020	89.4	0.002 U	3.47	1.52	223	9.78	153	0.59 T	156	22.9
MW-107	W107200218-	2/18/2020	110	0.925	6.82	0.01 U	263	7.26	167	3.01	176	1.1
MW-108	W108200214-	2/14/2020	141	0.0092 T	1.93	0.811	405	73.4	288	1.68	301 H	10
MW-109	W109200214-	2/14/2020	2160	0.417	2.8	0.1 U	3600	0.24 T	2660	62.7 S	2680	4.2
MW-110	W110200214-	2/14/2020	429	0.0743	2.08	0.01 U	807	8.93	494	2.47	513	12.6
MW-111	W111200220-	2/20/2020	24.7	0.002 U	0.908	0.57	91.7	12.9	76	0.78 T	86	0.8 T
MW-112	W112200219-	2/19/2020	115	0.0159	4.73	0.125	303	30.6	204	0.6 T	205	0.5 U
MW-30A	W30A200219-	2/19/2020	71.8	0.002 U	1.02	12.5	263	6.27	202	0.5 U	206	0.5 U
MW-47	W47-200219-	2/19/2020	590	0.0376	5.2	0.01 U	1080	6.91	647	3.51	675	9.4
MW-59	W59-200121-	1/21/2020	69.7	0.0058 T	10.7	0.01 U	209	15.9	116	0.5 U	134	1.7
MW-62	W62-200218-	2/18/2020	52.2	0.002 U	3.72	2.63	160	9.86	116	0.65 T	126	0.7 T
MW-66	W66-200106-	1/6/2020	82.6	0.002 U	4.17	0.352	211	13.6	124	0.8 T	133	1 U
MW-68	W68-200213-	2/13/2020	121	0.017	3.01	0.01 U	274	14.7	163	0.5 U	169	0.6 T
MW-72	W72-200117-	1/17/2020	126	0.0175	7.07	0.01 U	355	41.1	212	0.5 U	227	7.8
MW-74R	W74R200121-	1/21/2020	196	0.002 U	21.4	0.403	500	32.7	280	0.5 U	301	0.5 U
MW-75	W75-200121-	1/21/2020	109	0.009 T	11.5	0.01 U	379	64.3	235	0.5 U	247	1.6 T
MW-80	W80-200213-	2/13/2020	111	0.0126	4.61	0.01 U	312	35.4	196	0.5 U	201	1.2 T
MW-81	W81-200121-	1/21/2020	54.6	0.002 U	5.36	1.68	164	10.4	101	0.5 U	112	0.5 U
MW-83	W83-200122-	1/22/2020	206	0.009 T	71.9	4.09	680	12.7	391	6.48	495	0.5 U
MW-84	W84-200121-	1/21/2020	82	0.0888	5.41	0.191	220	17.3	128	0.5 U	135	0.5 U
MW-85	W85-200122-	1/22/2020	137	0.002 U	11.4	0.105	374	34.7	217	0.5 U	230	0.5 U
MW-87	W87-200121-	1/21/2020	109	0.0177	15.1	0.01 U	538	144	371	0.5 U	387	1.8
MW-93	W93-200122-	1/22/2020	120	0.063	2.95	0.01 U	332	42.6	203	0.5 U	207	0.5 U
MW-94	W94-200122-	1/22/2020	104	0.002 U	26.4	0.28	318	9.01	187	2.62	215	0.5 U
MW-EB6	WB6-200219-	2/19/2020	45.5	0.116	0.679	0.103	107	4.8	98	1.37	128	32

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill – Groundwater Metals Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Sample ID	Date	Aluminum total (mg/L)	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Calcium, total (mg/L)	Chromium total (mg/L)	Cobalt, total (mg/L)	Copper, total (mg/L)
MW-101	W101200218-	2/18/2020		0.0003 U	0.0115	0.0186	0.0001 U	5E-05 U	49.2	0.000492	2.83E-04	0.000846
MW-102	W102200221-	2/21/2020		0.0003 U	0.000269	0.00531	0.0001 U	5E-05 U	21.3	0.000685	0.000149	0.000951
MW-107	W107200218-	2/18/2020		0.0003 U	0.0019	0.011	0.0001 U	5E-05 U	26.5	0.000259	0.0019	0.00089
MW-108	W108200214-	2/14/2020		0.000446	0.00194	0.0141	0.0001 U	5E-05 U	27.6	0.000614	0.0000878	0.000458
MW-109	W109200214-	2/14/2020		4.73E-04	0.0383	0.0775	0.000486	0.0000559	17.9	7.44E-02	0.00111	0.032
MW-110	W110200214-	2/14/2020		0.0003 U	0.0113	0.0313	0.0001 U	5E-05 U	68.2	0.000205	0.00354	0.000245
MW-111	W111200220-	2/20/2020		0.0003 U	0.000552	0.00462	0.0001 U	5E-05 U	7.79	0.00159	5E-05 U	0.000225
MW-112	W112200219-	2/19/2020		0.0003 U	0.00307	0.00955	0.0001 U	5E-05 U	25.4	0.000213	5E-05 U	0.0002 U
MW-30A	W30A200219-	2/19/2020		0.0003 U	0.000522	0.00422	0.0001 U	5E-05 U	19.9	8.31E-04	0.0000737	0.00044
MW-47	W47-200219-	2/19/2020		0.0003 U	0.00277	0.0394	0.0001 U	5E-05 U	125	0.000237	0.000368	0.0002 U
MW-59	W59-200121-	1/21/2020		0.0003 U	0.00045	0.00387	0.0001 U	5E-05 U	17	0.000301	5E-05 U	0.0002 U
MW-62	W62-200218-	2/18/2020		0.0003 U	0.000216	0.0024	0.0001 U	5E-05 U	15.1	0.000338	0.0000961	0.000472
MW-66	W66-200106-	1/6/2020		0.0003 U	0.000725	0.00406	0.0001 U	5E-05 U	16.5	0.000335	5E-05 U	0.0002 U
MW-68	W68-200213-	2/13/2020		0.0003 U	0.0209	0.0111	0.0001 U	5E-05 U	26.3	0.0002 U	0.000202	0.000293
MW-72	W72-200117-	1/17/2020		0.0003 U	0.000127	0.0129	0.0001 U	5E-05 U	32.1	0.000257	5E-05 U	0.000209
MW-74R	W74R200121-	1/21/2020		0.0003 U	0.000391	0.0116	0.0001 U	5E-05 U	41.5	0.0002 U	5E-05 U	0.0002 U
MW-75	W75-200121-	1/21/2020		0.0003 U	0.0005	0.0117	0.0001 U	5E-05 U	31.2	0.0002 U	5E-05 U	0.0002 U
MW-80	W80-200213-	2/13/2020		0.0003 U	0.00371	0.0138	0.0001 U	5E-05 U	29.4	0.0002 U	5E-05 U	0.0002 U
MW-81	W81-200121-	1/21/2020		0.0003 U	0.000507	0.003	0.0001 U	5E-05 U	13.8	0.0002 U	5E-05 U	0.0002 U
MW-83	W83-200122-	1/22/2020		0.0003 U	0.000392	0.0108	0.0001 U	5E-05 U	72.4	9.86E-04	0.000332	0.00438
MW-84	W84-200121-	1/21/2020		0.0003 U	0.00032	0.00488	0.0001 U	5E-05 U	16.3	0.000318	0.000147	0.000675
MW-85	W85-200122-	1/22/2020		0.0003 U	0.000702	0.00643	0.0001 U	5E-05 U	34.3	0.0002 U	5E-05 U	0.0002 U
MW-87	W87-200121-	1/21/2020		0.0003 U	0.000719	0.0235	0.0001 U	5E-05 U	46.5	0.0002 U	0.000133	0.0002 U
MW-93	W93-200122-	1/22/2020		0.0003 U	0.00133	0.00739	0.0001 U	5E-05 U	32.1	0.0002 U	0.000097	0.0002 U
MW-94	W94-200122-	1/22/2020		0.0003 U	0.000113	0.00197	0.0001 U	5E-05 U	31.4	0.0002 U	0.0000896	0.00113
MW-EB6	WB6-200219-	2/19/2020		0.0003 U	0.00304	0.00814	0.0001 U	0.000107	5.47	0.00131	0.00054	0.0126

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill – Groundwater Metals Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Sample ID	Date	Iron, total (mg/L)	Lead, total (mg/L)	Magnesium, total (mg/L)	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, total (mg/L)	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)
MW-101	W101200218-	2/18/2020	0.988	0.0001 U	29.6	1.1	5E-05 U	0.00353	2.65	0.0005 U	4E-05 U	16.3
MW-102	W102200221-	2/21/2020	0.281	0.000138	8.14	0.00595	5E-05 U	0.000822	1.3	0.0005 U	4E-05 U	11.5
MW-107	W107200218-	2/18/2020	1.28	0.0001 U	8.64	2.21	5E-05 U	0.00419	2.8	0.0005 U	4E-05 U	9.91
MW-108	W108200214-	2/14/2020	0.171	0.000395	10.8	0.00366	5E-05 U	0.00054	1.7	0.0005 U	4E-05 U	59
MW-109	W109200214-	2/14/2020	10.7	0.00254	10.3	1.21	5E-05 U	0.00771	2.23	0.00109	4E-05 U	1000 D
MW-110	W110200214-	2/14/2020	2.02	0.0001 U	36.1	3.56	5E-05 U	0.00574	3.1	0.0005 U	4E-05 U	63
MW-111	W111200220-	2/20/2020	0.0222	0.0001 U	2.41	0.00359	5E-05 U	0.00171	0.288	0.0005 U	4E-05 U	5.99
MW-112	W112200219-	2/19/2020	0.01 U	0.0001 U	12.6	0.176	5E-05 U	0.000287	2.8	0.0005 U	4E-05 U	18.9
MW-30A	W30A200219-	2/19/2020	0.175	0.0001 U	11.3	0.00216	5E-05 U	0.000812	1.51	0.0005 U	4E-05 U	15
MW-47	W47-200219-	2/19/2020	4.2	0.0001 U	63.5	1.41	5E-05 U	0.00238	5.09	0.0005 U	4E-05 U	18.7
MW-59	W59-200121-	1/21/2020	4.47	0.0001 U	11.4	0.119	5E-05 DU	0.000253	1.11	0.0005 U	4E-05 U	6.77
MW-62	W62-200218-	2/18/2020	0.121	0.0001 U	4.02	0.00306	5E-05 U	0.000475	0.844	0.0005 U	4E-05 U	11.4
MW-66	W66-200106-	1/6/2020	0.0165	0.0001 U	12.7	0.000429	5E-05 U	0.000304	1.16	0.00102	4E-05 U	7.29
MW-68	W68-200213-	2/13/2020	0.748	0.0001 U	15.4	0.308	5E-05 U	0.000466	1.72	0.0005 U	4E-05 U	9.08
MW-72	W72-200117-	1/17/2020	5.15	0.0001 U	20.7	0.367	5E-05 DU	0.000149	1.84	0.0005 U	4E-05 U	8.68
MW-74R	W74R200121-	1/21/2020	0.0314	0.0001 U	34.9	0.000342	5E-05 DU	0.000853	1.93	0.000549	4E-05 U	13
MW-75	W75-200121-	1/21/2020	2.62	0.0001 U	24.5	0.206	5E-05 DU	0.0001 U	1.85	0.0005 U	4E-05 U	9.71
MW-80	W80-200213-	2/13/2020	2.18	0.0001 U	16.6	0.336	5E-05 U	0.000121	1.68	0.0005 U	4E-05 U	7.92
MW-81	W81-200121-	1/21/2020	0.01 U	0.0001 U	7.89	0.000113	5E-05 DU	0.000113	0.814	0.000786	4E-05 U	6.83
MW-83	W83-200122-	1/22/2020	0.01 U	0.0001 U	31.1	0.0807	5E-05 DU	0.00226	3.66	0.0005 U	4E-05 U	16.2
MW-84	W84-200121-	1/21/2020	0.0629	0.0001 U	13.2	0.121	5E-05 DU	0.00831	1.13	0.000673	4E-05 U	7.77
MW-85	W85-200122-	1/22/2020	0.01 U	0.0001 U	22.7	0.0001 U	5E-05 DU	0.000182	1.62	0.000836	4E-05 U	10.6
MW-87	W87-200121-	1/21/2020	5.06	0.0001 U	34.1	0.539	5E-05 DU	0.000156	2.31	0.0005 U	4E-05 U	11.4
MW-93	W93-200122-	1/22/2020	0.01 U	0.0001 U	17.7	0.197	5E-05 DU	0.000243	1.48	0.0005 U	4E-05 U	9.87
MW-94	W94-200122-	1/22/2020	0.01 U	0.0001 U	15.1	0.00106	5E-05 DU	0.000542	2.24	0.0005 U	4E-05 U	8.46
MW-EB6	WB6-200219-	2/19/2020	0.849	0.00154	3.41	0.0312	5E-05 U	0.00265	0.906	0.0005 U	4E-05 U	12.3

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill – Groundwater Metals Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Sample ID	Date	Thallium, total (mg/L)	Tin total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
MW-101	W101200218-	2/18/2020	0.0001 U		0.000335	0.00116
MW-102	W102200221-	2/21/2020	0.0001 U		0.00144	0.00175
MW-107	W107200218-	2/18/2020	0.0001 U		0.000259	0.00213
MW-108	W108200214-	2/14/2020	0.0001 U		0.0037	0.00258
MW-109	W109200214-	2/14/2020	0.0001 U		0.259 D	0.00417
MW-110	W110200214-	2/14/2020	0.0001 U		0.000694	0.00219
MW-111	W111200220-	2/20/2020	0.0001 U		9.32E-04	0.0012
MW-112	W112200219-	2/19/2020	0.0001 U		0.000864	0.0005 U
MW-30A	W30A200219-	2/19/2020	0.0001 U		0.00227	0.00104
MW-47	W47-200219-	2/19/2020	0.0001 U		0.000178	0.00183
MW-59	W59-200121-	1/21/2020	0.0001 U		7.5E-05 U	0.00097
MW-62	W62-200218-	2/18/2020	0.0001 U		0.000714	0.00128
MW-66	W66-200106-	1/6/2020	0.0001 U		0.000711 D	0.000964
MW-68	W68-200213-	2/13/2020	0.0001 U		0.000344	0.000665
MW-72	W72-200117-	1/17/2020	0.0001 U		7.5E-05 U	0.00156
MW-74R	W74R200121-	1/21/2020	0.0001 U		0.00059	0.000503
MW-75	W75-200121-	1/21/2020	0.0001 U		7.5E-05 U	0.00066
MW-80	W80-200213-	2/13/2020	0.0001 U		7.5E-05 U	0.000505
MW-81	W81-200121-	1/21/2020	0.0001 U		0.00163	0.000966
MW-83	W83-200122-	1/22/2020	0.0001 U		0.000863	0.00147
MW-84	W84-200121-	1/21/2020	0.0001 U		0.000463	0.00391
MW-85	W85-200122-	1/22/2020	0.0001 U		0.000918	0.0005 U
MW-87	W87-200121-	1/21/2020	0.0001 U		0.0000836	0.0005 U
MW-93	W93-200122-	1/22/2020	0.0001 U		0.00208	0.00105
MW-94	W94-200122-	1/22/2020	0.0001 U		0.000962	0.000508
MW-EB6	WB6-200219-	2/19/2020	0.0001 U		0.0045	0.00321

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Sample ID	Date	1,1,1,2-Tetrachloroethane ug/l	1,1,1-Trichloroethane ug/l	1,1,2,2-Tetrachloroethane ug/l	1,1,2-Trichloroethane ug/l	1,1-Dichloroethane ug/l	1,1-Dichloroethene ug/l	1,2,3-Trichloropropane ug/l	1,2-Dibromo-3-Chloropropane ug/l	1,2-Dibromochloroethane ug/l	1,2-Dichlorobenzene ug/l	1,2-Dichloroethane ug/l	1,2-Dichloropropane ug/l	1,4-Dichlorobenzene ug/l	2-Butanone ug/l
MW-101	W101200218-	2/18/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-102	W102200221-	2/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.259	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
MW-107	W107200218-	2/18/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.263	0.1 U	0.1 U	1.69	0.25 U
MW-108	W108200214-	2/14/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
MW-109	W109200214-	2/14/2020	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U	1 U	2.5 U
MW-110	W110200214-	2/14/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.29	0.1 GU	0.1 U	2.5 U	0.1 U	0.914	0.234	0.236	0.199 JT	0.25 U
MW-111	W111200220-	2/20/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
MW-112	W112200219-	2/19/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
MW-30A	W30A200219-	2/19/2020	0.25 U	0.1 U	0.1 U	0.1 U	1.56	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 GU
MW-47	W47-200219-	2/19/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.52	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
MW-59	W59-200121-	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-62	W62-200218-	2/18/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.245	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-66	W66-200106-	1/6/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-68	W68-200213-	2/13/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
MW-72	W72-200117-	1/17/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-74R	W74R200121-	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-75	W75-200121-	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-80	W80-200213-	2/13/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 GU	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 GU
MW-81	W81-200121-	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-83	W83-200122-	1/22/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-84	W84-200121-	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-85	W85-200122-	1/22/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-87	W87-200121-	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-93	W93-200122-	1/22/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-94	W94-200122-	1/22/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
MW-EB6	WB6-200219-	2/19/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	VTRP200106Y	1/6/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200117Z	1/17/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200121Y	1/17/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200121Z	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200122Y	1/21/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200122Z	1/17/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200213X	2/11/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	VTRP200213Y	2/11/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	VTRP200214X	2/13/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	VTRP200218X	2/11/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U
VOA TRIP BLANK	VTRP200218Y	2/13/2020	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Sample ID	Date	2-	4-Methyl-2-	Acetone	Acrylonitrile	Benzene	Bromochloro	Bromochloro	Bromoform	Bromomet	Carbon	Carbon	Chlorobenzene	Chlorodibro
			Hexanone	Pentanone	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-101	W101200218-	2/18/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-102	W102200221-	2/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-107	W107200218-	2/18/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.12 JT	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	1.22	0.5 U
MW-108	W108200214-	2/14/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-109	W109200214-	2/14/2020	5 U	25 U	25 U	0.35 U	1.57 JT	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1.41 JT	5 U
MW-110	W110200214-	2/14/2020	0.5 U	2.5 U	2.5 U	0.035 GU	0.235	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.972	0.5 U
MW-111	W111200220-	2/20/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-112	W112200219-	2/19/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-30A	W30A200219-	2/19/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-47	W47-200219-	2/19/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-59	W59-200121-	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-62	W62-200218-	2/18/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-66	W66-200106-	1/6/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-68	W68-200213-	2/13/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-72	W72-200117-	1/17/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-74R	W74R200121-	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-75	W75-200121-	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-80	W80-200213-	2/13/2020	0.5 U	2.5 U	2.5 U	0.035 GU	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-81	W81-200121-	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-83	W83-200122-	1/22/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-84	W84-200121-	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-85	W85-200122-	1/22/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-87	W87-200121-	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-93	W93-200122-	1/22/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-94	W94-200122-	1/22/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
MW-EB6	WB6-200219-	2/19/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200106Y	1/6/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200117Z	1/17/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200121Y	1/17/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200121Z	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200122Y	1/21/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200122Z	1/17/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200213X	2/11/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200213Y	2/11/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200214X	2/13/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200218X	2/11/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U
VOA TRIP BLANK	VTRP200218Y	2/13/2020	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Sample ID	Date	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorodifluoromethane	Ethylbenzene	M & P Xylene	Methyl Iodide	Methylene Chloride	O-Xylene	Styrene
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	MPX	ug/l	ug/l	ug/l
MW-101	W101200218-	2/18/2020	0.1 U	0.1 U	0.25 U	0.12 T	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-102	W102200221-	2/21/2020	0.1 U	0.1 U	0.25 U	0.651	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-107	W107200218-	2/18/2020	0.1 U	0.1 U	0.25 U	0.115 JT	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-108	W108200214-	2/14/2020	0.1 U	0.127 JT	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-109	W109200214-	2/14/2020	1 U	1 U	2.5 U	1 U	2.5 U	1 U	1 U	1 U	1 U	1 U	25 U	1 U	1 U
MW-110	W110200214-	2/14/2020	0.107 JT	0.1 U	0.25 U	2.83	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-111	W111200220-	2/20/2020	0.1 U	0.1 U	0.25 U	0.146 JT	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-112	W112200219-	2/19/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-30A	W30A200219-	2/19/2020	0.1 U	0.1 U	0.25 U	1.86	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-47	W47-200219-	2/19/2020	0.154 JT	0.1 U	0.25 U	1.47	0.25 U	0.1 U	4.19	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-59	W59-200121-	1/21/2020	0.1 U	0.1 U	0.25 U	1.37	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-62	W62-200218-	2/18/2020	0.1 U	0.1 U	0.25 U	0.715	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-66	W66-200106-	1/6/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-68	W68-200213-	2/13/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-72	W72-200117-	1/17/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-74R	W74R200121-	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-75	W75-200121-	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-80	W80-200213-	2/13/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-81	W81-200121-	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-83	W83-200122-	1/22/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-84	W84-200121-	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-85	W85-200122-	1/22/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-87	W87-200121-	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-93	W93-200122-	1/22/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-94	W94-200122-	1/22/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
MW-EB6	WB6-200219-	2/19/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200106Y	1/6/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200117Z	1/17/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200121Y	1/17/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200121Z	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200122Y	1/21/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200122Z	1/17/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200213X	2/11/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200213Y	2/11/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200214X	2/13/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200218X	2/11/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U
VOA TRIP BLANK	VTRP200218Y	2/13/2020	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Sample ID	Date	Tetrachloro	Toluene	Trans-1,2-	Trans-1,3-	Trans-1,4-	Trichloro	Trichlorofluor	Vinyl	Vinyl Chloride
			ethene		Dichloroethene	Dichloropropene	Dichloro-2-Butene	ethene	omethane	Acetate	
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
			127-18-4	108-88-3	156-60-5	10061-02-6	110-57-6	79-01-6	75-69-4	108-05-4	75-01-4
MW-101	W101200218-	2/18/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.319 DG
MW-102	W102200221-	2/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-107	W107200218-	2/18/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.328 D
MW-108	W108200214-	2/14/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-109	W109200214-	2/14/2020	1 U	1610 D	1 U	5 U	5 U	1 U	1 U	1 U	0.265 D
MW-110	W110200214-	2/14/2020	0.1 U	0.1 U	0.182 JT	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.0924 D
MW-111	W111200220-	2/20/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.107 JT	0.1 U	0.1 U	0.01 DU
MW-112	W112200219-	2/19/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-30A	W30A200219-	2/19/2020	0.158 JT	0.1 U	0.1 U	0.5 U	0.5 U	1.01	0.1 U	0.1 U	0.01 DU
MW-47	W47-200219-	2/19/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	4.64 DG
MW-59	W59-200121-	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-62	W62-200218-	2/18/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-66	W66-200106-	1/6/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-68	W68-200213-	2/13/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-72	W72-200117-	1/17/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-74R	W74R200121-	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-75	W75-200121-	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-80	W80-200213-	2/13/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
MW-81	W81-200121-	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-83	W83-200122-	1/22/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	1.71	0.1 U	0.1 U	0.01 U
MW-84	W84-200121-	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-85	W85-200122-	1/22/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-87	W87-200121-	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-93	W93-200122-	1/22/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-94	W94-200122-	1/22/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	2.25	0.1 U	0.1 U	0.01 U
MW-EB6	WB6-200219-	2/19/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	VTRP200106Y	1/6/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP200117Z	1/17/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP200121Y	1/17/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP200121Z	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP200122Y	1/21/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP200122Z	1/17/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	VTRP200213X	2/11/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	VTRP200213Y	2/11/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	VTRP200214X	2/13/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	VTRP200218X	2/11/2020	0.1 U	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	VTRP200218Y	2/13/2020	0.1 U	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU

Storm and Surface Water Field and Analytical Data

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill ---Surface Water Elevation-Staff Gage Measurements
 Contact Person: Sendy Jimenez (206) 477-5224

Staff Gage	Location	Date	Reference Elevation Staff Gage 0' (msl)	Reference Elevation Top of Peizo (msl)	Depth to Water (Peizometer) (feet)	Staff Gage Reading (feet)	Surface Water Elevation (msl)	Comments
SW-G1	SW-W1	1/2/2020	415.38	418.84		0.48	415.86	
SW-G1	SW-W1	2/20/2020	415.38	418.84		0.48	415.86	
SW-G1	SW-W1	3/24/2020	415.38	418.84		0.44	415.82	
SW-G2	SW-N1	1/2/2020	355.68	358.21		0.51	356.19	
SW-G2	SW-N1	2/20/2020	355.68	358.21		0.41	356.09	
SW-G2	SW-N1	3/24/2020	355.68	358.21		0.26	355.94	
SW-G3	SW -V	1/2/2020	466.46	469.88		0.1	466.56	
SW-G3	SW -V	2/20/2020	466.46	469.88		0.15	466.61	
SW-G3	SW -V	3/24/2020	466.46	469.88				Dry at 5.40 ft
SW-G4	Upstream of SW-E1	1/2/2020	502.41	505.85		0.38	502.79	
SW-G4	Upstream of SW-E1	2/20/2020	502.41	505.85		0.34	502.75	
SW-G4	Upstream of SW-E1	3/24/2020	502.41	505.85		0.3	502.71	
SW-G5	SW-E1	1/2/2020	486.92	490.34		0.6	487.52	
SW-G5	SW-E1	2/20/2020	486.92	490.34		0.61	487.53	
SW-G5	SW-E1	3/24/2020	486.92	490.34		0.56	487.48	
SW-G6	Upstream of SW-GS1	1/2/2020	490.72	494.12	2.65		491.47	
SW-G6	Upstream of SW-GS1	2/20/2020	490.72	494.12	2.81		491.31	
SW-G6	Upstream of SW-GS1	3/24/2020	490.72	494.12	3.7		490.42	
SW-G7	SW-S2	1/2/2020	453.03	456.41		0.94	453.97	
SW-G7	SW-S2	2/20/2020	453.03	456.41		0.76	453.79	
SW-G7	SW-S2	3/24/2020	453.03	456.41		0.68	453.71	
SW-G8	Upstream of SW-S1	1/2/2020	510.61	515.56		0.35	510.96	
SW-G8	Upstream of SW-S1	2/20/2020	510.61	515.56		0.31	510.92	
SW-G8	Upstream of SW-S1	3/24/2020	510.61	515.56		0.24	510.85	
SW-G9	SW-S1	1/2/2020	490.93	494.35		0.74	491.67	
SW-G9	SW-S1	2/20/2020	490.93	494.35		0.62	491.55	
SW-G9	SW-S1	3/24/2020	490.93	494.35		0.47	491.40	

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill ---Surface Water Field Parameters
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Sample ID	Date	pH (Field) (std. Units)	Spec. Conductance (Field) (umho/cm)	Temperature (Field) (°C)	Turbidity (Field) (NTU)	Dissolved Oxygen, (Field) (mg/L)
SW-GS1	SGS1200106P	1/6/2020	6.72	116.5	6.21	--	8.37
SW-N4	SN4-200106P	1/6/2020	7.01	90.5	7.34	--	11.39
SW-SL3	SSL3200106P	1/6/2020	6.33	155.6	6.31	--	10.31

Environmental Monitoring Data

Data Collected from July 1, 2019 to September 30, 2019
 Cedar Hills Landfill ---Surface Water ISGP Analytes
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Sample ID	Date	Ammonia, (NH3) (mg/L)	Biological Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Zinc, total (mg/L)
SW-GS1	SGS1200106P	1/6/2020	0.0133	2 U	1 T	0.000877
SW-N4	SN4-200106P	1/6/2020	0.0455	2 U	2.9	0.02
SW-SL3	SSL3200106P	1/6/2020	0.169	2 U	10.1	0.0101

Environmental Monitoring Data

Data Collected from January 01, 2020 to March 31, 2020
 Cedar Hills Landfill ---Surface Water VOAs Analytes
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Sample ID	Date	3-,4-Methylphenol mixture 15831-10-4 (ug/L)	Alpha-Terpineol 98-55-5 (ug/L)	Benzoic Acid 65-85-0 (ug/L)	Phenol 108-95-2 (ug/L)
SW-GS1	SGS1200106P	1/6/2020	0.5 U	0.5 U	10 U	0.5 U
SW-N4	SN4-200106P	1/6/2020	0.51 U	0.51 U	10.2 U	0.51 U
SW-SL3	SSL3200106P	1/6/2020	0.51 U	0.51 U	10.2 U	0.51 U

Washington Department of Ecology Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1709724 - 5/14/2020
10:29:33 AM**

Company Name	Signer Name	System Name
King County Solid Waste Division	Joan Kenton	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Thursday May 14 2020
Cedar Hills Reg LF - Exceedance 5-day ltr dated 13Feb20	CHRLF exceedance ltr to Ecy Feb 13 2020

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



8Xs5pz5Fe7xqLDMLUuh7u8P
+5Aligz/MtD8CRWVkpHhW54z4EHrOXCUJB8Jf8EKEO/t2jsg2236OHN2FV40Lc21+Tr0KulzsShIYkcalQU=



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2020 - 03/31/2020

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,, alpha,, alpha,, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab
		GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-M	1/6/20	A	No	A	<2	<2	<.02	<.5	<10.2	<0.51	<0.51	<.9
6-Th	2/6/20	31.0	M	M	M	M	M	M	M	M	M	M
Minimum												
Average		A BM: <= 25		A BM: <= 14								
Maximum												
Month 1 Average					<2 <= 37	<2 <= 27	<.02 <= 4.9	<.5 <= 16	<10.2 <= 71	<0.51 <= 14	<0.51 <= 15	<.9 <= 110
Month 2 Average					M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14	M <= 15	M <= 110
Month 3 Average					M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14	M <= 15	M <= 110

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP



Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2020 - 03/31/2020

Outfall: N4 - Discharge to unnamed stream (McDonald Cr)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,,alpha ,alpha ,trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab
	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
2-M	1/6/20	A	No	A	<2	<3	<.05	<.51	<10.2	<0.51	<0.51	<.5
Minimum												
Average		A BM: <= 25		A BM: <= 14								
Maximum												
Month 1 Average					<2 <= 37	<3 <= 27	<.05 <= 4.9	<.51 <= 16	<10.2 <= 71	<0.51 <= 14	<0.51 <= 15	<.5 <= 110
Month 2 Average					M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14	M <= 15	M <= 110
Month 3 Average					M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14	M <= 15	M <= 110

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2020 - 03/31/2020

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 Total Milligrams/L (mg/L) Quarterly Grab	Solids (Residue) Total suspended (TSS) Milligrams/L (mg/L) Quarterly Grab	Ammonia Total Milligrams/L (mg/L) Quarterly Grab	Alpha-terpineol (3-Cyclohexene-1-methanol,, alpha,, alpha,, trimethyl-) Micrograms/L (ug/L) Quarterly Grab	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit	ISGP Non-Haz Waste Landfill (40CFR part B)- 2020 permit
2-M	1/6/20	A	No	A	<2	<10.1	<.2	<.51	<10.2	<0.51	<0.51	<10.5
6-Th	2/6/20	77.7	M	M	M	M	M	M	M	M	M	M
Minimum												
Average		M BM: <= 25		M BM: <= 14								
Maximum												
Month 1 Average					<2 <= 37	<10.1 <= 27	<.2 <= 4.9	<.51 <= 16	<10.2 <= 71	<0.51 <= 14	<0.51 <= 15	<10.5 <= 110
Month 2 Average					<2 <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14	M <= 15	M <= 110
Month 3 Average					<2 <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14	M <= 15	M <= 110

Reporting Codes Used: A - Consistent Attainment Of Benchmark, B - Below Detection Limit/No Detection, M - Monitoring Is Conditional/Not Req This MP

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Joan Kenton

5/14/2020 10:29:34 AM

Signature

Date



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

201 South Jackson Street, Suite 701

Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

February 13, 2020

via Ecology Water Quality Permitting Portal

Washington State Department of Ecology

Water Quality Program – Industrial Stormwater

Northwest Regional Office

3190 – 160th Avenue SE

Bellevue, WA 98008-5452

RE: Effluent Exceedance Report

Cedar Hills Regional Landfill, 16645 228th Ave SE, Maple Valley, WA 98038

Industrial Stormwater General Permit (ISGP) WAR000756

ERTS Incident #696331

The purpose of this letter is to report an effluent exceedance for turbidity occurring at the above facility, owned and operated by the King County Solid Waste Division (KCSWD). This report contains all required information set forth in Section S9.E of our permit.

Description of Non-compliance

Date: February 06, 2020

Time: Measurement at 12:58 pm, 2/06/2020; field data received by undersigned 2/06/2020 at 2:57 pm

Verbal Notification to Ecology: February 06, 2020 by undersigned at 3:20 pm; assigned ERTS Incident #696331

Turbidity Exceedance: GS1 – 31.0 ntu; SL3 – 77.7 ntu; N4 - in compliance

Corrective Action

This exceedance is attributed to the severe storm events occurring in the greater Puget Sound Region in the first part of February. Maintenance was performed of existing BMPs.

Next Steps

All BMPs across the site are being inspected by qualified personnel. Maintenance will be performed and additional BMPs installed, as warranted.

If you have any questions, comments, or need any additional information, please feel free to contact me at any time at (206) 263-0805 or via email at jkenton@kingcounty.gov.

Sincerely,

Joan Kenton

Environmental Compliance Coordinator

Cedar Hills Regional Landfill

Environmental Monitoring Report

First Quarter of 2020

cc: Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD),
Department of Natural Resources & Parks (DNRP)
Neil Fujii, P.E., FESS Manager, SWD, DNRP
Bill Berni, Operations Manager, SWD, DNRP
Scott Barden, Assistant Operations Manager, SWD, DNRP
Mark Monteiro, Supervisor II, SWD, DNRP
Laura Belt, P.E., Engineer Supervisor, SWD, DNRP
Sterling Bath, Engineer II, SWD, DNRP

Washington Department of Ecology

Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1709773 - 2/13/2020
10:37:20 AM**

Company Name	Signer Name	System Name
King County Solid Waste Division	Joan Kenton	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Thursday February 13 2020

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



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+HB61m7KySXgBl/PRVWwzmyO5RKbD6Mz6qtA8+4iwvS3NjHJ4QvLtS7EQJUTqmTPBh5K70ExjxDRgaJtGmQcTS0pxtv
dabc=



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: Queen City Farms Lake (QCFL)

Monitoring Period: 01/01/2020 - 01/31/2020

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		CHL	CHL
1-W	1/1/20	M	C
1-Th	1/2/20	M	M
1-F	1/3/20	M	M
1-Sa	1/4/20	M	M
2-Su	1/5/20	M	M
2-M	1/6/20	M	M
2-T	1/7/20	M	M
2-W	1/8/20	M	M
2-Th	1/9/20	M	M
2-F	1/10/20	M	M
2-Sa	1/11/20	M	M
3-Su	1/12/20	M	M
3-M	1/13/20	M	M
3-T	1/14/20	M	M
3-W	1/15/20	M	M
3-Th	1/16/20	M	M
3-F	1/17/20	M	M
3-Sa	1/18/20	M	M
4-Su	1/19/20		M
4-M	1/20/20		M
4-T	1/21/20		M
4-W	1/22/20	4.52	M
4-Th	1/23/20		M
4-F	1/24/20		M
4-Sa	1/25/20		M
5-Su	1/26/20	M	M
5-M	1/27/20	M	M
5-T	1/28/20	M	M
5-W	1/29/20	M	M
5-Th	1/30/20	M	M
5-F	1/31/20	M	M
Minimum			M BM: >= 6.5 (RO)
Maximum		BM: <= 25 (RO)	M BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2 the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
		Triangle Silt Dike



	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: gravel pit lake

Monitoring Period: 01/01/2020 - 01/31/2020

Outfall: grav - The gravel pit lake infiltrates and has no surface discharge outlet

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-W	1/1/20	M	M
1-Th	1/2/20	M	M
1-F	1/3/20	M	M
1-Sa	1/4/20	M	M
2-Su	1/5/20	M	M
2-M	1/6/20	M	M
2-T	1/7/20	M	M
2-W	1/8/20	M	M
2-Th	1/9/20	M	M
2-F	1/10/20	M	M
2-Sa	1/11/20	M	M
3-Su	1/12/20	M	M
3-M	1/13/20	M	M
3-T	1/14/20	M	M
3-W	1/15/20	M	M
3-Th	1/16/20	M	M
3-F	1/17/20	M	M
3-Sa	1/18/20	M	M
4-Su	1/19/20		M
4-M	1/20/20		M
4-T	1/21/20		M
4-W	1/22/20	53.7	M
4-Th	1/23/20		M
4-F	1/24/20		M
4-Sa	1/25/20		M
5-Su	1/26/20	M	M
5-M	1/27/20	M	M
5-T	1/28/20	M	M
5-W	1/29/20	M	M
5-Th	1/30/20	M	M
5-F	1/31/20	M	M

Minimum		BM: >=6.5
		BM: >= 6.5 (RO)
Maximum		BM: <=8.5
	BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2 the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond



	1	Triangular Silt Dike
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 01/01/2020 - 01/31/2020

Outfall: McDo - Outfall SW N4 The discharge on the northern boundary drains to McDonald Creek at Lat 47 477875 and Long 122 054943

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C1	C1	C2	C2
1-W	1/1/20	M	M	M	M
1-Th	1/2/20	M	M	M	M
1-F	1/3/20	M	M	M	M
1-Sa	1/4/20	M	M	M	M
2-Su	1/5/20	M	M	M	M
2-M	1/6/20	M	M	M	M
2-T	1/7/20	M	M	M	M
2-W	1/8/20	M	M	M	M
2-Th	1/9/20	M	M	M	M
2-F	1/10/20	M	M	M	M
2-Sa	1/11/20	M	M	M	M
3-Su	1/12/20	M	M	M	M
3-M	1/13/20	M	M	M	M
3-T	1/14/20	M	M	M	M
3-W	1/15/20	M	M	M	M
3-Th	1/16/20	M	M	M	M
3-F	1/17/20	M	M	M	M
3-Sa	1/18/20	M	M	M	M
4-Su	1/19/20		M		M
4-M	1/20/20		M		M
4-T	1/21/20		M		M
4-W	1/22/20	2.70	M	4.87	M
4-Th	1/23/20		M		M
4-F	1/24/20		M		M
4-Sa	1/25/20		M		M
5-Su	1/26/20	M	M	M	M
5-M	1/27/20	M	M	M	M
5-T	1/28/20	M	M	M	M
5-W	1/29/20	M	M	M	M
5-Th	1/30/20	M	M	M	M
5-F	1/31/20	M	M	M	M
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum			M		M
			BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)

Reporting Codes Used: C - No Discharge, M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2 the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles



	1	Triangular Silt Dike
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Joan Kenton

2/13/2020 10:37:18 AM

Signature

Date

Washington Department of Ecology Electronic Submission Cover Letter



WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1712440 - 3/9/2020 2:01:45 PM

Company Name	Signer Name	System Name
King County Solid Waste Division	Joan Kenton	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Monday March 9 2020

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



6pC7n7eL4L6MW0h4IT3Lo3BnIn54rH6SiXdz/TNOKQhPQOBMurEBD9RgX8t0eXkSC8icfRAZ8e5Mp10IQ6dRIRMVfkngN
YdEBueh31jeSGA=



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: Queen City Farms Lake (QCFL)

Monitoring Period: 02/01/2020 - 02/29/2020

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		CHL	CHL
1-Sa	2/1/20	M	M
2-Su	2/2/20	M	M
2-M	2/3/20	M	M
2-T	2/4/20	M	M
2-W	2/5/20	M	M
2-Th	2/6/20	M	M
2-F	2/7/20	M	M
2-Sa	2/8/20	M	M
3-Su	2/9/20	M	M
3-M	2/10/20	M	M
3-T	2/11/20	M	M
3-W	2/12/20	M	M
3-Th	2/13/20	M	M
3-F	2/14/20	M	M
3-Sa	2/15/20	M	M
4-Su	2/16/20	M	M
4-M	2/17/20	M	M
4-T	2/18/20	M	M
4-W	2/19/20	M	M
4-Th	2/20/20	M	M
4-F	2/21/20	M	M
4-Sa	2/22/20	M	M
5-Su	2/23/20		M
5-M	2/24/20	5.65	M
5-T	2/25/20		M
5-W	2/26/20		M
5-Th	2/27/20		M
5-F	2/28/20		M
5-Sa	2/29/20		M
Minimum			M
			BM: >= 6.5 (RO)
Maximum			M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2 the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	1	Triangular Silt Dike
	2	Check Dams



	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: gravel pit lake

Monitoring Period: 02/01/2020 - 02/29/2020

Outfall: grav - The gravel pit lake infiltrates and has no surface discharge outlet

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-Sa	2/1/20	M	M
2-Su	2/2/20	M	M
2-M	2/3/20	M	M
2-T	2/4/20	M	M
2-W	2/5/20	M	M
2-Th	2/6/20	M	M
2-F	2/7/20	M	M
2-Sa	2/8/20	M	M
3-Su	2/9/20	M	M
3-M	2/10/20	M	M
3-T	2/11/20	M	M
3-W	2/12/20	M	M
3-Th	2/13/20	M	M
3-F	2/14/20	M	M
3-Sa	2/15/20	M	M
4-Su	2/16/20	M	M
4-M	2/17/20	M	M
4-T	2/18/20	M	M
4-W	2/19/20	M	M
4-Th	2/20/20	M	M
4-F	2/21/20	M	M
4-Sa	2/22/20	M	M
5-Su	2/23/20		M
5-M	2/24/20	33.5	M
5-T	2/25/20		M
5-W	2/26/20		M
5-Th	2/27/20		M
5-F	2/28/20		M
5-Sa	2/29/20		M
Minimum			M
			BM: >= 6.5 (RO)
Maximum			M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2 the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	1	Triangular Silt Dike
	2	Check Dams



	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 02/01/2020 - 02/29/2020

Outfall: McDo - Outfall SW N4 The discharge on the northern boundary drains to McDonald Creek at Lat 47 477875 and Long 122 054943

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C1	C1	C2	C2
1-Sa	2/1/20	M	M	M	M
2-Su	2/2/20	M	M	M	M
2-M	2/3/20	M	M	M	M
2-T	2/4/20	M	M	M	M
2-W	2/5/20	M	M	M	M
2-Th	2/6/20	M	M	M	M
2-F	2/7/20	M	M	M	M
2-Sa	2/8/20	M	M	M	M
3-Su	2/9/20	M	M	M	M
3-M	2/10/20	M	M	M	M
3-T	2/11/20	M	M	M	M
3-W	2/12/20	M	M	M	M
3-Th	2/13/20	M	M	M	M
3-F	2/14/20	M	M	M	M
3-Sa	2/15/20	M	M	M	M
4-Su	2/16/20	M	M	M	M
4-M	2/17/20	M	M	M	M
4-T	2/18/20	M	M	M	M
4-W	2/19/20	M	M	M	M
4-Th	2/20/20	M	M	M	M
4-F	2/21/20	M	M	M	M
4-Sa	2/22/20	M	M	M	M
5-Su	2/23/20		M		M
5-M	2/24/20	2.10	M	8.06	M
5-T	2/25/20		M		M
5-W	2/26/20		M		M
5-Th	2/27/20		M		M
5-F	2/28/20		M		M
5-Sa	2/29/20		M		M
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum			M		M
			BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)

Reporting Codes Used: M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2 the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	1	Triangular Silt Dike



	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Joan Kenton

 Signature

3/9/2020 2:01:53 PM

 Date

Washington Department of Ecology Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1717829 - 4/13/2020
8:28:33 AM**

Company Name	Signer Name	System Name
King County Solid Waste Division	Joan Kenton	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Monday April 13 2020

Attestation Agreed to at Signing:

I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

For Ecology Use Only



Fjd1tw0u7PViaHf8y2GFN2PsLp
+tJtYQLmIbHK6e96rJ8ky4dcAvxUtI36CY5c6eDTTJoYhTn32RlglHtfzi6ZEeQtXSr6akpBw6fjepjtg=



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: Queen City Farms Lake (QCFL)

Monitoring Period: 03/01/2020 - 03/31/2020

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		CHL	CHL
1-Su	3/1/20	M	M
1-M	3/2/20	M	M
1-T	3/3/20	M	M
1-W	3/4/20	M	M
1-Th	3/5/20	M	M
1-F	3/6/20	M	M
1-Sa	3/7/20	M	M
2-Su	3/8/20	M	M
2-M	3/9/20	M	M
2-T	3/10/20	M	M
2-W	3/11/20	M	M
2-Th	3/12/20	M	M
2-F	3/13/20	M	M
2-Sa	3/14/20	M	M
3-Su	3/15/20	M	M
3-M	3/16/20	M	M
3-T	3/17/20	M	M
3-W	3/18/20	M	M
3-Th	3/19/20	M	M
3-F	3/20/20	M	M
3-Sa	3/21/20	M	M
4-Su	3/22/20		M
4-M	3/23/20	1.43	M
4-T	3/24/20		M
4-W	3/25/20		M
4-Th	3/26/20		M
4-F	3/27/20		M
4-Sa	3/28/20		M
5-Su	3/29/20	M	M
5-M	3/30/20	M	M
5-T	3/31/20	M	M
Minimum			M BM: >= 6.5 (RO)
Maximum		1.43 BM: <= 25 (RO)	M BM: <= 8.5 (RO)

Reporting Codes Used: M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2. the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
Cedar Hills Regional Landfill		Triangle Silt Dike

B-44



	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: gravel pit lake

Monitoring Period: 03/01/2020 - 03/31/2020

Outfall: grav - The gravel pit lake infiltrates and has no surface discharge outlet

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-Su	3/1/20	M	M
1-M	3/2/20	M	M
1-T	3/3/20	M	M
1-W	3/4/20	M	M
1-Th	3/5/20	M	M
1-F	3/6/20	M	M
1-Sa	3/7/20	M	M
2-Su	3/8/20	M	M
2-M	3/9/20	M	M
2-T	3/10/20	M	M
2-W	3/11/20	M	M
2-Th	3/12/20	M	M
2-F	3/13/20	M	M
2-Sa	3/14/20	M	M
3-Su	3/15/20	M	M
3-M	3/16/20	M	M
3-T	3/17/20	M	M
3-W	3/18/20	M	M
3-Th	3/19/20	M	M
3-F	3/20/20	M	M
3-Sa	3/21/20	M	M
4-Su	3/22/20		M
4-M	3/23/20	1.18	M
4-T	3/24/20		M
4-W	3/25/20		M
4-Th	3/26/20		M
4-F	3/27/20		M
4-Sa	3/28/20		M
5-Su	3/29/20	M	M
5-M	3/30/20	M	M
5-T	3/31/20	M	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum	1.18		M
	BM: <= 25 (RO)	BM: <= 8.5 (RO)	

Reporting Codes Used: M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2. the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond



	1	Triangular Silt Dike
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 03/01/2020 - 03/31/2020

Outfall: McDo - Outfall SW N4 The discharge on the northern boundary drains to McDonald Creek at Lat 47 477875 and Long 122 054943

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C1	C1	C2	C2
1-Su	3/1/20	M	M	M	M
1-M	3/2/20	M	M	M	M
1-T	3/3/20	M	M	M	M
1-W	3/4/20	M	M	M	M
1-Th	3/5/20	M	M	M	M
1-F	3/6/20	M	M	M	M
1-Sa	3/7/20	M	M	M	M
2-Su	3/8/20	M	M	M	M
2-M	3/9/20	M	M	M	M
2-T	3/10/20	M	M	M	M
2-W	3/11/20	M	M	M	M
2-Th	3/12/20	M	M	M	M
2-F	3/13/20	M	M	M	M
2-Sa	3/14/20	M	M	M	M
3-Su	3/15/20	M	M	M	M
3-M	3/16/20	M	M	M	M
3-T	3/17/20	M	M	M	M
3-W	3/18/20	M	M	M	M
3-Th	3/19/20	M	M	M	M
3-F	3/20/20	M	M	M	M
3-Sa	3/21/20	M	M	M	M
4-Su	3/22/20		M		M
4-M	3/23/20	1.37	M	1.33	M
4-T	3/24/20		M		M
4-W	3/25/20		M		M
4-Th	3/26/20		M		M
4-F	3/27/20		M		M
4-Sa	3/28/20		M		M
5-Su	3/29/20	M	M	M	M
5-M	3/30/20	M	M	M	M
5-T	3/31/20	M	M	M	M
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		1.37	M	1.33	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: M - Monitoring Is Conditional/Not Req This MP

Overall DMR Notes/Comment

The site is currently inactive and temporarily stabilized beginning in April 2019. In accordance with section S4.B.2. the inspection frequency has been reduced to once every calendar month. Once construction activities recommence, the inspection frequency will return to a weekly schedule.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles



	1	Triangular Silt Dike
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	4	Triangular Silt Dike
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	5	Triangular Silt Dike

I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Joan Kenton

4/13/2020 8:28:39 AM

Signature

Date

Leachate Field and Analytical Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Field Parameters
 Contact Person: Sindy Jimenez (206) 477-5224

Leachate Monitoring Activities 1st Quarter 2020

Station ID	Date	Activity	Sample ID	Comment
LS-46N	1/8/2020	Monthly Characterization Sample	L46N200108M	
LS-46N	2/5/2020	Monthly Characterization Sample	L46N200205M	
LS-46N	3/18/2020	Monthly Characterization Sample	L46N200318M	
LS-A567	1/9/2020	Special Investigation	L567200109I	
LS-A567	1/9/2020	Special Investigation	L567200109I2	
LS-A567	2/11/2020	Special Investigation	L567200211I2	
LS-A567	2/11/2020	Special Investigation	L567200211I	
LS-A567	3/19/2020	Special Investigation	L567200319I	
LS-A567	3/19/2020	Special Investigation	L567200319I2	
LS-A8	1/9/2020	Special Investigation	LA81200109I	
LS-A8	1/9/2020	Special Investigation	LA81200109I2	
LS-A8	2/11/2020	Special Investigation	LA81200211I2	
LS-A8	2/11/2020	Special Investigation	LA81200211I	
LS-A8	2/11/2020	QA/QC Sample	LA81200211D	
LS-A8	3/19/2020	Special Investigation	LA81200319I	
LS-A8	3/19/2020	Special Investigation	LA81200319I2	
LS-CSW	1/9/2020	Special Investigation	LCSW200109I	
LS-CSW	1/9/2020	Special Investigation	LCSW200109I2	
LS-CSW	2/11/2020	Special Investigation	LCSW200211I2	
LS-CSW	2/11/2020	Special Investigation	LCSW200211I	
LS-EMER	2/28/2020	Special Investigation	LTDFC200228I	
LS-FB	1/17/2020	QA/QC Sample	LEPS200117F	
LS-FB	2/11/2020	QA/QC Sample	LA8A200211F	
LS-FB	3/19/2020	QA/QC Sample	L567200319F	
LS-LEPS	1/2/2020	Permit	LEPS200102P	
LS-LEPS	1/7/2020	Permit	LEPS200107P	
LS-LEPS	1/7/2020	Monthly Characterization Sample	LEPS200107M	
LS-LEPS	1/7/2020	Permit	LEPS200107P	
LS-LEPS	1/9/2020	Special Investigation	LEPS200109I2	
LS-LEPS	1/17/2020	Permit	LEPS200117P	
LS-LEPS	1/23/2020	Permit	LEPS200123P	
LS-LEPS	1/28/2020	Permit	LEPS200128P	
LS-LEPS	2/5/2020	Monthly Characterization Sample	LEPS200205M	
LS-LEPS	2/5/2020	Permit	LEPS200205P	
LS-LEPS	2/11/2020	Special Investigation	LEPS200211I2	
LS-LEPS	2/12/2020	Permit	LEPS200212P	
LS-LEPS	2/19/2020	Permit	LEPS200219P	
LS-LEPS	2/25/2020	Permit	LEPS200225P	
LS-LEPS	3/3/2020	Permit	LEPS200303P	
LS-LEPS	3/11/2020	Permit	LEPS200311P	
LS-LEPS	3/17/2020	Permit	LEPS200317P	

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Field Parameters
 Contact Person: Sindy Jimenez (206) 477-5224

Leachate Monitoring Activities 1st Quarter 2020

Station ID	Date	Activity	Sample ID	Comment
LS-LEPS	3/17/2020	Monthly Characterization Sample	LEPS200317M	
LS-LEPS	3/19/2020	Special Investigation	LEPS200319I2	
LS-LEPS	3/23/2020	Permit	LEPS200323P	
LS-LEPS	3/31/2020	Permit	LEPS200331P	
LS-LIF	1/9/2020	Special Investigation	LIF-200109I	
LS-LIF	1/9/2020	Special Investigation	LIF-200109I2	
LS-LIF	2/11/2020	Special Investigation	LIF-200211I2	
LS-LIF	2/11/2020	Special Investigation	LIF-200211I	
LS-PS1A	1/9/2020	Special Investigation	LP1A200109I	
LS-PS1A	1/9/2020	Special Investigation	LP1A200109I2	
LS-PS1A	2/11/2020	Special Investigation	LP1A200211I2	
LS-PS1A	2/11/2020	Special Investigation	LP1A200211I	
LS-PS1A	3/19/2020	Special Investigation	LP1A200319I	
LS-PS1A	3/19/2020	Special Investigation	LP1A200319I2	
LS-PS2A	1/8/2020	Monthly Characterization Sample	LP2A200108M	
LS-PS2A	2/5/2020	Monthly Characterization Sample	LP2A200205M	
LS-PS2A	3/18/2020	Monthly Characterization Sample	LP2A200318M	
LS-PS4	1/9/2020	Special Investigation	LP4-200109I	
LS-PS4	1/9/2020	QA/QC Sample	LP4-200109D	
LS-PS4	1/9/2020	Special Investigation	LP4-200109I2	
LS-PS4	2/11/2020	Special Investigation	LP4-200211I2	
LS-PS4	2/11/2020	Special Investigation	LP4-200211I	
LS-PS4	3/19/2020	Special Investigation	LP4-200819I	
LS-PS4	3/19/2020	QA/QC Sample	LP4-200319D	
LS-PS4	3/19/2020	Special Investigation	LP4-200319I2	
LS-V1A	1/9/2020	Monthly Characterization Sample	LV1A200109M	
LS-V1A	1/9/2020	Special Investigation	LV1A200109I2	
LS-V1A	2/6/2020	Monthly Characterization Sample	LV1A200206M	
LS-V1A	2/11/2020	Special Investigation	LV1A200211I2	
LS-V1A	3/18/2020	Monthly Characterization Sample	LV1A200318M	
LS-V1A	3/19/2020	Special Investigation	LV1A200319I2	

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Field Parameters
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field) (std. Units)	Specific Conductance (Field) (umho/cm)	Temperature (Field) (° C)
LS-A567	1/9/2020	L567200109I	7.98	21235	25.9
LS-A567	1/9/2020	L567200109I2	7.98	21235	25.9
LS-A567	2/11/2020	L567200211I	7.71	18562	33
LS-A567	2/11/2020	L567200211I2	7.71	18562	33
LS-A567	3/19/2020	L567200319I	7.89	22519	23.1
LS-A567	3/19/2020	L567200319I2	7.91	24104	31.6
LS-A81	1/9/2020	LA81200109I	5.48	3704	11
LS-A81	1/9/2020	LA81200109I2	5.48	3704	11
LS-A81	2/11/2020	LA81200211I	6.04	10098	11.4
LS-A81	2/11/2020	LA81200211I2	6.04	10098	11.4
LS-A81	3/19/2020	LA81200319I	6.42	14793	14.2
LS-A81	3/19/2020	LA81200319I2	6.42	14793	14.2
LS-CSW	1/9/2020	LCSW200109I	7.44	213.3	8.3
LS-CSW	1/9/2020	LCSW200109I2	7.44	213.3	8.3
LS-CSW	2/11/2020	LCSW200211I	7.38	342.5	8.1
LS-CSW	2/11/2020	LCSW200211I2	7.38	342.5	8.1
LS-LEPS	1/2/2020	LEPS200102P	7.55	4150	9.4
LS-LEPS	1/7/2020	LEPS200107M	8.24	4747	9.5
LS-LEPS	1/7/2020	LEPS200107P	8.24	4747	9.5
LS-LEPS	1/9/2020	LEPS200109I2	7.94	3764	10.4
LS-LEPS	1/17/2020	LEPS200117P	7.19	3320	7.9
LS-LEPS	1/23/2020	LEPS200123P	6.89	3290	9.3
LS-LEPS	1/28/2020	LEPS200128P	7.09	3250	10.4
LS-LEPS	2/5/2020	LEPS200205M	6.85	2120	10
LS-LEPS	2/5/2020	LEPS200205P	6.85	2120	10
LS-LEPS	2/11/2020	LEPS200211I2	7.72	2265	10.3
LS-LEPS	2/12/2020	LEPS200212P	6.93	2010	11.6
LS-LEPS	2/19/2020	LEPS200219P	6.97	3720	11.7
LS-LEPS	2/25/2020	LEPS200225P	7.98	4940	12
LS-LEPS	3/3/2020	LEPS200303P	7.91	6059	13.3
LS-LEPS	3/11/2020	LEPS200311P	7.95	5483	13.9
LS-LEPS	3/17/2020	LEPS200317M	8.24	6064	10.8
LS-LEPS	3/17/2020	LEPS200317P	8.24	6064	10.8
LS-LEPS	3/19/2020	LEPS200319I2	8.27	6546	10.4
LS-LEPS	3/23/2020	LEPS200323P	8.02	6910	12
LS-LEPS	3/31/2020	LEPS200331P	8.29	5028	12.4
LS-LIF	1/9/2020	LIF-200109I	7.47	6312	15.7
LS-LIF	1/9/2020	LIF-200109I2	7.47	6312	15.7
LS-LIF	2/11/2020	LIF-200211I	8.22	10442	18.7
LS-LIF	2/11/2020	LIF-200211I2	8.22	10442	18.7

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Field Parameters
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field) (std. Units)	Specific Conductance (Field) (umho/cm)	Temperature (Field) (° C)
LS-MH46N	1/8/2020	L46N200108M	7.12	9800	24.1
LS-MH46N	2/5/2020	L46N200205M	7.24	8122	21
LS-MH46N	3/18/2020	L46N200318M	6.86	8332	24.4
LS-PS1A	1/9/2020	LP1A200109I	6.62	163.6	9.6
LS-PS1A	1/9/2020	LP1A200109I2	6.62	163.6	9.6
LS-PS1A	2/11/2020	LP1A200211I	6.98	805	11.4
LS-PS1A	2/11/2020	LP1A200211I2	6.98	805	11.4
LS-PS1A	3/19/2020	LP1A200319I	7.5	1484	11.1
LS-PS1A	3/19/2020	LP1A200319I2	7.5	1484	11.1
LS-PS2A	1/8/2020	LP2A200108M	6.39	152.5	8.6
LS-PS2A	2/5/2020	LP2A200205M	6.69	183.7	10.2
LS-PS2A	3/18/2020	PS2A200318M	7.79	627	9.6
LS-PS4	1/9/2020	LP4-200109D	7	866	10.8
LS-PS4	1/9/2020	LP4-200109I	7	866	10.8
LS-PS4	1/9/2020	LP4-200109I2	7	866	10.8
LS-PS4	2/11/2020	LP4-200211I	7.14	1005	12.6
LS-PS4	2/11/2020	LP4-200211I2	7.14	1005	12.6
LS-PS4	3/19/2020	LP4-200319I	7.14	1962	13
LS-PS4	3/19/2020	LP4-200319I2	7.14	1962	13
LS-V1A	1/9/2020	LV1A200109I2	7.66	4324	14.3
LS-V1A	1/9/2020	LV1A200109M	7.66	4324	14.3
LS-V1A	2/6/2020	LV1A200206M	7.12	2660	13.7
LS-V1A	2/11/2020	LV1A200211I2	7.86	1150	7.8
LS-V1A	3/18/2020	LV1A200318M	8.04	11440	15.7
LS-V1A	3/19/2020	LV1A200319I2	7.91	11281	14.4
FIELD BLANK	1/17/2020	LEPS200117F	9.6	0.65	3.1
FIELD BLANK	2/11/2020	LA81200211F	9.82	252.3	6.9
FIELD BLANK	3/19/2020	L567200319F	9.54	6.9	8.7

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Conventional Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity,	Alkalinity,	Ammonia,	Biological	Chemical	Chloride	Coliforms,	Coliforms,	Cyanide	Fluoride	Nitrate+Nitrite
			Carbonate	Total	(NH3 as N)	Oxygen	Oxygen		Fecal	Total			(NO3+NO2 as N)
			(mg/l)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(CFU/100mL)	(CFU/100mL)	(mg/L)	(mg/L)	(mg/L)
LS-A567	1/9/2020	L567200109I	1 U	8280	963	2560	5520 S	2290				5 U	0.2 U
LS-A567	2/11/2020	L567200211I	1 U	7010	1210	2180	5530 S	1880				20 U	0.2 U
LS-A567	3/19/2020	L567200319I	1 U	9190	1620	3290	8420 S	2540				5 U	0.2 U
LS-A81	1/9/2020	LA81200109I	1 U	1130	65.3	4250	5930	256				10 U	0.01 U
LS-A81	2/11/2020	LA81200211I	1 U	3460	353	14400	19800	793				50 U	0.05 U
LS-A81	3/19/2020	LA81200319I	1 U	5050	618	20600	29800 S	1080				50 U	0.05 U
LS-CSW	1/9/2020	LCSW200109I	1 U	73.1	4.44 J	3.41	17 T	6.84				0.031 T	0.345
LS-CSW	2/11/2020	LCSW200211I	1 U	120	15	68.9	123	18.2				0.02 U	0.01 U
LS-LEPS	1/7/2020	LEPS200107M		1400	150	365	1090	321	14000	6900000 C	0.0056 ST	0.4 U	0.064 T
LS-LEPS	2/5/2020	LEPS200205M		857	123	327	793	189	12000	490000	0.0023 ST	0.4 U	0.5 U
LS-LEPS	3/17/2020	LEPS200317M		2390	389	441	1670	542	47000 C	390000	0.0049 ST	0.4 U	0.567
LS-LIF	1/9/2020	LIF-200109I	1 U	2390	198	1300	2980	676				2 U	0.947
LS-LIF	2/11/2020	LIF-200211I	1 U	2140	571	1240	2340	623				10 U	0.35 T
LS-MH46N	1/8/2020	L46N200108M		2910	472	67.4	1500	1420	1 U	36000	0.011 ST	1 U	0.1 T
LS-MH46N	2/5/2020	L46N200205M		2350	397	47.8	1140	1130	1 U	20	0.01 ST	2 U	0.05 U
LS-MH46N	3/18/2020	L46N200318M		2420	428	53.1	1190	1130	1 U	440	0.0098 ST	2 U	0.1 U
LS-PS1A	1/9/2020	LP1A200109I	1 U	45.8	2.76	2.38	22.2	8.31				0.033 T	1.53
LS-PS1A	2/11/2020	LP1A200211I	1 U	251	38.1	15.2	93.2	74.5				0.1 U	1.34
LS-PS1A	3/19/2020	LP1A200319I	1 U	450	77	25.4	192	145				0.1 U	1.15
LS-PS2A	1/8/2020	LP2A200108M		46	1.18	2.25	27.2	2.2	1	42	0.003 T	0.0519	0.394
LS-PS2A	2/5/2020	LP2A200205M		58.4	1.77	11.9	39.2	1.98	1 U	160	0.0022 ST	0.059 T	0.257
LS-PS4	1/9/2020	LP4-200109D	1 U	309	30	86.2	181	55.4				0.1 U	0.65
LS-PS4	1/9/2020	LP4-200109I	1 U	306	26.4	80.6	183	55.2				0.4 U	0.649
LS-PS4	2/11/2020	LP4-200211I	1 U	279	44.9	101	232	55.9				0.2 U	0.333
LS-PS4	3/19/2020	LP4-200319I	1 U	723	126	213	443	126				0.4 U	0.27 T
LS-V1A	1/9/2020	LV1A200109M		1960	125	1180	2200	470	38000 C	330000	0.0072 ST	1 U	0.585
LS-V1A	2/6/2020	LV1A200206M		625	85.4	747	1130	140	19000 C	130000	0.002 U	1 U	0.991
LS-V1A	3/18/2020	LV1A200318M		4390	781	3150	6050 S	1060	220000	650000	0.011 ST	2 U	0.1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Conventional Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Specific Conductance (umho/cm)	Sulfate (SO4) (mg/L)	Sulfide Total (mg/L)	Total Fats, Oils and Grease (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Total Volatile Solids (mg/L)	Volatile Suspended Solids (mg/L)
LS-A567	1/9/2020	L567200109I	20600	19.9	6.2		1870 S	1860 S	19.3	4240	12.7
LS-A567	2/11/2020	L567200211I	17600	18.6	0.82 T		1530 S	1730 S	20	3760 H	17.7
LS-A567	3/19/2020	L567200319I	21800	23	1.43		2050 S	2610 S	66	4770	59
LS-A81	1/9/2020	LA81200109I	3640	186	2.21		157	1910	84	2090	21.5
LS-A81	2/11/2020	LA81200211I	9800	719	0.804		602	5520 S	108	7140 H	58
LS-A81	3/19/2020	LA81200319I	12900	767	0.88		886 S	8610 S	39	7830	23 B
LS-CSW	1/9/2020	LCSW200109I	192	10.6	0.01 U		2.37 J	11.3	26	35	7
LS-CSW	2/11/2020	LCSW200211I	332	5.96	0.102		17.5	40	61	170 BH	26
LS-LEPS	1/7/2020	LEPS200107M	3810	34.4	0.13 T	4.9 JT	298	367	64	788	58
LS-LEPS	2/5/2020	LEPS200205M	2380	30.4	0.086 T	5.4 U	175	182	123	582	102
LS-LEPS	3/17/2020	LEPS200317M	5700	41.2	0.13 T	2.3 T	472	351	77.4	1270	67.9
LS-LIF	1/9/2020	LIF-200109I	6770	42.3	0.501		530	866 S	16	1660	7.2
LS-LIF	2/11/2020	LIF-200211I	5780	29.8	0.31 T		620	779	9.67	1420 H	8.33
LS-MH46N	1/8/2020	L46N200108M	9710	1.9 T	1.42	2.4 T	600	523	0.53 U	1110	0.53 U
LS-MH46N	2/5/2020	L46N200205M	7740	4.06	0.76	3.2 T	480	342	0.5 U	948	0.5 U
LS-MH46N	3/18/2020	L46N200318M	7580	2 U	1.12	2.2 T	505	380 S	0.5 U	888	0.7 BT
LS-PS1A	1/9/2020	LP1A200109I	159	7.72	0.01 U		3.1	9.52	1	43.3	0.7 T
LS-PS1A	2/11/2020	LP1A200211I	814	10.7	0.029 T		41.4	31.9	2.4	162 BH	1.6
LS-PS1A	3/19/2020	LP1A200319I	1380	10.7	0.0474		86.4	58.1	6.2	156	5.4 B
LS-PS2A	1/8/2020	LP2A200108M	128	7.23	0.01 U	2.1 T	1.94	11	1.6	50	0.7 T
LS-PS2A	2/5/2020	LP2A200205M	142	4.52	0.01 U	1.8 U	2.65	7.93	3.43	43	2.3 T
LS-PS4	1/9/2020	LP4-200109D	886	29	0.01 U		49.7	77.2	26.8	203	17.2
LS-PS4	1/9/2020	LP4-200109I	885	27.6	0.012 T		48.3	73.7	26.9	179	16.3
LS-PS4	2/11/2020	LP4-200211I	834	42.2	0.033 T		52.4	64.4	39	256 BH	23.5
LS-PS4	3/19/2020	LP4-200319I	1960	34.5	0.024 T		138	161	44	300	34.4
LS-V1A	1/9/2020	LV1A200109M	5500	38.9	0.14 T	2.8 JT	434	680	48	1270	22.7
LS-V1A	2/6/2020	LV1A200206M	1860	48.9	0.0406	1.8 T	116	363	34.7	632	16
LS-V1A	3/18/2020	LV1A200318M	10800	74.4	0.24 T	4.2 T	1000 S	1810 S	107	2890	80.3

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Aluminum,	Antimony,	Arsenic,	Barium,	Beryllium,	Cadmium,	Calcium,	Chromium,
			total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)
LS-A567	1/9/2020	L567200109I	0.756	0.0181	0.303	0.373	0.000986 U	0.000493 U	63.6	0.224
LS-A567	2/11/2020	L567200211I	0.363	0.0126	0.253	0.325	0.00101 U	0.000504 U	58.3	0.161
LS-A567	3/19/2020	L567200319I	0.463	0.0136	0.303	0.409	0.001 U	0.0005 U	73.7	0.203
LS-A81	1/9/2020	LA81200109I	5.71	0.00846	0.00777	0.175	0.00101 U	0.000504 U	411	0.0922
LS-A81	2/11/2020	LA81200211I	1.89	0.0229	0.0486	0.342	0.000996 U	0.000535	1110	0.176
LS-A81	3/19/2020	LA81200319I	1.06	0.02	0.0273	0.483	0.001 U	0.000501 U	1580	0.145
LS-CSW	1/9/2020	LCSW200109I	2.17	0.00303 U	0.00255	0.0246	0.00101 U	0.000505 U	20.9	0.00425
LS-CSW	2/11/2020	LCSW200211I	1.86	0.00296 U	0.00231	0.0243	0.000988 U	0.000494 U	15.9	0.00562
LS-LEPS	1/2/2020	LEPS200102P	1.6	0.0115	0.0715	0.135	0.00103 U	0.000517 U	82.1	0.0544
LS-LEPS	1/7/2020	LEPS200107M	0.793	0.01	0.0691	0.103	0.00102 U	0.000512 U	68.8	0.0502
LS-LEPS	1/7/2020	LEPS200107P	0.745	0.00951	0.067	0.0976	0.00103 U	0.000514 U	67	0.0477
LS-LEPS	1/17/2020	LEPS200117P	0.399	0.00777	0.0544	0.0706	0.00102 U	0.000511 U	60.7	0.04
LS-LEPS	1/23/2020	LEPS200123P	0.789	0.0071	0.0521	0.069	0.00102 U	0.000511 U	55.6	0.0382
LS-LEPS	1/28/2020	LEPS200128P	0.445	0.00633	0.0474	0.0663	0.00102 U	0.00051 U	63.8	0.0366
LS-LEPS	2/5/2020	LEPS200205M	0.089	0.00382	0.0293	0.0446	0.00101 U	0.000506 U	55.3	0.0247
LS-LEPS	2/5/2020	LEPS200205P	1.62	0.0042	0.0327	0.0634	0.00101 U	0.000504 U	61.5	0.0317
LS-LEPS	2/12/2020	LEPS200212P	0.899	0.00333	0.024	0.0724	0.00102 U	0.000508 U	76.8	0.0236
LS-LEPS	2/19/2020	LEPS200219P	0.596	0.00563	0.0485	0.0935	0.00101 U	0.000506 U	88.7	0.0442
LS-LEPS	2/25/2020	LEPS200225P	0.613	0.008	0.0686	0.109	0.00101 U	0.000507 U	112	0.0615
LS-LEPS	3/3/2020	LEPS200303P	0.63	0.00919	0.0846	0.118	0.000504 U	0.000252 U	124	0.0672
LS-LEPS	3/11/2020	LEPS200311P	0.845	0.00877	0.0784	0.106	0.00105 U	0.000527 U	105	0.068
LS-LEPS	3/17/2020	LEPS200317M	0.999	0.00958	0.0865	0.116	0.00101 U	0.000507 U	113	0.0718
LS-LEPS	3/17/2020	LEPS200317P	0.78 J	0.01	0.087	0.116	0.000514 U	0.000257 U	112	0.0762
LS-LEPS	3/23/2020	LEPS200323P	0.709	0.0117	0.104	0.13	0.000987 U	0.000493 U	117	0.0884
LS-LEPS	3/31/2020	LEPS200331P	0.991	0.0102	0.0881	0.107	0.00102 U	0.000509 U	103	0.0729
LS-LIF	1/9/2020	LIF-200109I	0.411	0.00714	0.0688	0.145	0.00104 U	0.000519 U	128	0.0726
LS-LIF	2/11/2020	LIF-200211I	0.353	0.0105	0.121	0.117	0.001 U	0.000502 U	41.8	0.106
LS-MH46N	1/8/2020	L46N200108M	0.0513 U	0.00308 U	0.0888	0.364	0.00103 U	0.000513 U	63.5	0.096
LS-MH46N	2/5/2020	L46N200205M	0.0509 U	0.00305 U	0.0677	0.252	0.00102 U	0.000509 U	56.9	0.0721
LS-MH46N	3/18/2020	L46N200318M	0.0499 U	0.00299 U	0.0766	0.265	0.000998 U	0.000499 U	71.2	0.0659
LS-PS1A	1/9/2020	LP1A200109I	0.105	0.00302 U	0.00141	0.00829	0.00101 U	0.000503 U	12	0.00201 U
LS-PS1A	2/11/2020	LP1A200211I	0.164	0.003 U	0.0121	0.0272	0.001 U	0.0005 U	17.7	0.0046
LS-PS1A	3/19/2020	LP1A200319I	0.0599	0.00381	0.0215	0.0421	0.000989 U	0.000495 U	22.4	0.00725
LS-PS2A	1/8/2020	LP2A200108M	0.182	0.00302 U	0.0011	0.00848	0.00101 U	0.000504 U	12.3	0.00282
LS-PS2A	2/5/2020	LP2A200205M	0.194	0.00298 U	0.000998	0.0102	0.000994 U	0.000497 U	14.6	0.00279
LS-PS2A	3/18/2020	LP2A200318M	0.0699	0.00292 U	0.00229	0.0169	0.000974 U	0.000487 U	15.1	0.00322
LS-PS4	1/9/2020	LP4-200109D	0.367	0.00377	0.0186	0.0374	0.00101 U	0.000506 U	32	0.00452
LS-PS4	1/9/2020	LP4-200109I	0.345	0.00362	0.0183	0.0359	0.001 U	0.000501 U	30.7	0.0044
LS-PS4	2/11/2020	LP4-200211I	0.656	0.0168	0.135	0.0353	0.000996 U	0.000498 U	33.8	0.00535
LS-PS4	3/19/2020	LP4-200319I	0.613	0.0103	0.0903	0.0463	0.001 U	0.0005 U	36.7	0.0114
LS-V1A	1/9/2020	LV1A200109M	2.09	0.0133	0.103	0.108	0.00103 U	0.000515 U	75.9	0.0742
LS-V1A	2/6/2020	LV1A200206M	1.41	0.00352	0.0222	0.0776	0.00102 U	0.000512 U	80.5	0.0238
LS-V1A	3/18/2020	LV1A200318M	0.628	0.0169	0.183	0.187	0.00101 U	0.000503 U	189	0.136

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Cobalt, total (mg/L)	Copper, total (mg/L)	Iron, total (mg/L)	Lead, total (mg/L)	Magnesium, total (mg/L)	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, total (mg/L)
LS-A567	1/9/2020	L567200109I	0.0678	0.00628	6.91	0.00238	91	0.395	0.0001 U	0.239
LS-A567	2/11/2020	L567200211I	0.0471	0.00275	3.94	0.00139	72	0.34	0.0001 U	0.172
LS-A567	3/19/2020	L567200319I	0.0634	0.00288	4.38	0.00166	91.6	0.462	0.0001 U	0.248
LS-A81	1/9/2020	LA81200109I	0.0635	0.0427	36.7	0.00679	50.7	6.28	0.0001 U	0.118
LS-A81	2/11/2020	LA81200211I	0.111	0.0282	106	0.00368	129	13.4	0.000106	0.285
LS-A81	3/19/2020	LA81200319I	0.163	0.0127	163	0.00169	209	30.2 D	0.0001 U	0.422
LS-CSW	1/9/2020	LCSW200109I	0.0014	0.00772	2.55	0.00113	4.17	0.124	0.0001 U	0.00531
LS-CSW	2/11/2020	LCSW200211I	0.00192	0.00885	3.08	0.00118	5.4	0.217	0.0001 U	0.0082
LS-LEPS	1/2/2020	LEPS200102P	0.0157	0.0107	8.25	0.00192	24.9	1.67	0.0001 U	0.0502
LS-LEPS	1/7/2020	LEPS200107M	0.0133	0.00921	5.43	0.00156	23.1	1.22	0.0001 U	0.045
LS-LEPS	1/7/2020	LEPS200107P	0.0131	0.0082	5.23	0.00141	23	1.15	0.0001 U	0.0455
LS-LEPS	1/17/2020	LEPS200117P	0.0111	0.0064	3.95	0.00102 U	20.1	0.875	0.0001 U	0.0375
LS-LEPS	1/23/2020	LEPS200123P	0.0102	0.00795	3.85	0.00119	19.3	0.802	0.0001 U	0.0368
LS-LEPS	1/28/2020	LEPS200128P	0.0107	0.00604	4.22	0.00102 U	20	0.939	5E-05 U	0.0353
LS-LEPS	2/5/2020	LEPS200205M	0.00728	0.00203 U	2.33	0.00101 U	16	0.743	0.0001 U	0.0269
LS-LEPS	2/5/2020	LEPS200205P	0.00856	0.00995	5.95	0.0014	16.8	0.9	5E-05 U	0.0291
LS-LEPS	2/12/2020	LEPS200212P	0.00935	0.00692	7.23	0.00102 U	15.3	1.46 D	0.0001 U	0.028
LS-LEPS	2/19/2020	LEPS200219P	0.0116	0.00688	6.3	0.00101 U	24.7	1.36	0.0001 U	0.0411
LS-LEPS	2/25/2020	LEPS200225P	0.016	0.00654	7.22	0.00102	31.2	1.55	0.0001 U	0.0562
LS-LEPS	3/3/2020	LEPS200303P	0.0188	0.0063	7.53	0.000967	35.3	1.52	0.0001 U	0.0663
LS-LEPS	3/11/2020	LEPS200311P	0.0177	0.0077	7.42	0.00131	34	1.39	0.0001 U	0.0652
LS-LEPS	3/17/2020	LEPS200317M	0.0195	0.00795	8.5	0.00156	34.2	1.38	0.0001 U	0.0722
LS-LEPS	3/17/2020	LEPS200317P	0.0192	0.00758	7.7	0.00132	35.1	1.36	0.0001 U	0.0718
LS-LEPS	3/23/2020	LEPS200323P	0.0214	0.00676	7.9	0.00133	39.6	1.4	0.0001 U	0.0777
LS-LEPS	3/31/2020	LEPS200331P	0.019	0.00755	7.26	0.00156	36.3	1.22	0.0001 U	0.0734
LS-LIF	1/9/2020	LIF-200109I	0.0222	0.00989	7.11	0.00104 U	35.9	1.88	0.0001 U	0.0736
LS-LIF	2/11/2020	LIF-200211I	0.0184	0.00525	3.29	0.00107	34.9	0.597	0.0001 U	0.0702
LS-MH46N	1/8/2020	L46N200108M	0.03	0.00205 U	2.58	0.00103 U	42	0.383	0.0001 U	0.12
LS-MH46N	2/5/2020	L46N200205M	0.0229	0.00204 U	2	0.00102 U	35.5	0.376	5E-05 U	0.0865
LS-MH46N	3/18/2020	L46N200318M	0.0235	0.002 U	2.14	0.000998 U	38.9	0.483	0.0001 U	0.096
LS-PS1A	1/9/2020	LP1A200109I	0.000503 U	0.0137	0.449	0.00101 U	3.66	0.0678	0.0001 U	0.00391
LS-PS1A	2/11/2020	LP1A200211I	0.00218	0.00855	0.668	0.001 U	6.31	0.122	0.0001 U	0.00927
LS-PS1A	3/19/2020	LP1A200319I	0.00358	0.00753	0.845	0.000989 U	8.88	0.187	0.0001 U	0.0153
LS-PS2A	1/8/2020	LP2A200108M	0.000504 U	0.0351	1.1	0.00101 U	4.09	0.0521	0.0001 U	0.00654
LS-PS2A	2/5/2020	LP2A200205M	0.000497 U	0.0266	1.43	0.000994 U	4.26	0.0883	5E-05 U	0.00657
LS-PS2A	3/18/2020	LP2A200318M	0.0019	0.0252	2.51	0.000974 U	4.75	0.175	0.0001 U	0.0102
LS-PS4	1/9/2020	LP4-200109D	0.00169	0.00685	3.55	0.00101 U	10.1	0.433	0.0001 U	0.00716
LS-PS4	1/9/2020	LP4-200109I	0.0017	0.00684	3.58	0.001 U	9.89	0.412	0.0001 U	0.00699
LS-PS4	2/11/2020	LP4-200211I	0.00236	0.0082	2.89	0.000996 U	12.9	0.599	0.0001 U	0.00883
LS-PS4	3/19/2020	LP4-200319I	0.00413	0.00663	2.69	0.00104	15.3	0.703	0.0001 U	0.0159
LS-V1A	1/9/2020	LV1A200109M	0.0183	0.0135	6.62	0.00247	30.2	1.05	0.0001 U	0.0637
LS-V1A	2/6/2020	LV1A200206M	0.0107	0.00989	8.56	0.00127	14.3	1.74	0.0001 U	0.027
LS-V1A	3/18/2020	LV1A200318M	0.0362	0.00697	13.5	0.00157	62.4	2.54	0.0001 U	0.133

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Potassium,	Selenium,	Silver,	Sodium,	Thallium,	Tin,	Vanadium,	Zinc,
			total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)	total (mg/L)
LS-A567	1/9/2020	L567200109I	692	0.00493 U	0.000394 U	2210	0.000986 U	0.0412	0.139	0.0899
LS-A567	2/11/2020	L567200211I	572	0.00504 U	0.000404 U	1790	0.00101 U	0.0294	0.116	0.0437
LS-A567	3/19/2020	L567200319I	758	0.005 U	0.0004 U	2410 D	0.001 U	0.0356	0.154	0.0592
LS-A81	1/9/2020	LA81200109I	100	0.00504 U	0.000403 U	248	0.00101 U	0.00504 U	0.0234	0.346
LS-A81	2/11/2020	LA81200211I	322	0.00593	0.000398 U	721	0.000996 U	0.0122	0.0268	7.89
LS-A81	3/19/2020	LA81200319I	401	0.0187	0.000401 U	1010	0.001 U	0.0102	0.0521	0.636
LS-CSW	1/9/2020	LCSW200109I	5.24	0.00505 U	0.000404 U	9.81	0.00101 U	0.00505 U	0.00557	0.0179
LS-CSW	2/11/2020	LCSW200211I	9.15	0.00494 U	0.000395 U	19.8	0.000988 U	0.00494 U	0.00529	0.0266
LS-LEPS	1/2/2020	LEPS200102P	114	0.00517 U	0.000414 U	318	0.00103 U	0.00582	0.0201	0.208
LS-LEPS	1/7/2020	LEPS200107M	113	0.00512 U	0.00041 U	319	0.00102 U	0.00512 U	0.0175	0.11
LS-LEPS	1/7/2020	LEPS200107P	110	0.00514 U	0.000411 U	314	0.00103 U	0.00587	0.0179	0.103
LS-LEPS	1/17/2020	LEPS200117P	97.3	0.00511 U	0.000409 U	268	0.00102 U	0.00511 U	0.0133	0.0491
LS-LEPS	1/23/2020	LEPS200123P	95.2	0.00511 U	0.000408 U	260	0.00102 U	0.00511 U	0.014	0.0476
LS-LEPS	1/28/2020	LEPS200128P	96.4	0.0051 U	0.000408 U	267	0.00102 U	0.0051 U	0.013	0.0535
LS-LEPS	2/5/2020	LEPS200205M	67.5	0.00506 U	0.000405 U	187	0.00101 U	0.00506 U	0.00804	0.0164
LS-LEPS	2/5/2020	LEPS200205P	73.5	0.00504 U	0.000403 U	196	0.00101 U	0.00504 U	0.0119	0.0771
LS-LEPS	2/12/2020	LEPS200212P	52.5	0.00508 U	0.000406 U	152	0.00102 U	0.00508 U	0.00932	0.131
LS-LEPS	2/19/2020	LEPS200219P	102	0.00506 U	0.000405 U	293	0.00101 U	0.00506 U	0.0133	0.103
LS-LEPS	2/25/2020	LEPS200225P	145	0.00507 U	0.000406 U	415	0.00101 U	0.00544	0.0184	0.115
LS-LEPS	3/3/2020	LEPS200303P	182	0.00252 U	0.000201 U	503	0.000504 U	0.0054 G	0.0218	0.111
LS-LEPS	3/11/2020	LEPS200311P	167	0.00527 U	0.000421 U	480	0.00105 U	0.00663	0.0213	0.0987
LS-LEPS	3/17/2020	LEPS200317M	188	0.00507 U	0.000405 U	527	0.00101 U	0.00679	0.0234	0.105
LS-LEPS	3/17/2020	LEPS200317P	181	0.00257 U	0.000206 U	518	0.000514 U	0.0074 J	0.0231 D	0.101
LS-LEPS	3/23/2020	LEPS200323P	215	0.00493 U	0.000395 U	607	0.000987 U	0.00984	0.0268	0.112
LS-LEPS	3/31/2020	LEPS200331P	188	0.00509 U	0.000407 U	536	0.00102 U	0.00854	0.0237	0.107
LS-LIF	1/9/2020	LIF-200109I	180	0.00519 U	0.000416 U	555	0.00104 U	0.0088	0.0325	0.102
LS-LIF	2/11/2020	LIF-200211I	242	0.00502 U	0.000402 U	666	0.001 U	0.0133	0.0213	0.0649
LS-MH46N	1/8/2020	L46N200108M	317	0.00513 U	0.000411 U	1110	0.00103 U	0.00513 U	0.126	0.00516
LS-MH46N	2/5/2020	L46N200205M	263	0.00509 U	0.000407 U	868	0.00102 U	0.00509 U	0.0883	0.0199
LS-MH46N	3/18/2020	L46N200318M	249	0.00499 U	0.000399 U	842	0.000998 U	0.00499 U	0.0854	0.0057
LS-PS1A	1/9/2020	LP1A200109I	3.1	0.00503 U	0.000402 U	9.5	0.00101 U	0.00503 U	0.00143	0.0107
LS-PS1A	2/11/2020	LP1A200211I	19.1	0.005 U	0.0004 U	67.5	0.001 U	0.005 U	0.00535	0.014
LS-PS1A	3/19/2020	LP1A200319I	33.8	0.00495 U	0.000396 U	127	0.000989 U	0.00495 U	0.0083	0.00968
LS-PS2A	1/8/2020	LP2A200108M	2.24	0.00504 U	0.000403 U	3.32	0.00101 U	0.00504 U	0.00279	0.00981
LS-PS2A	2/5/2020	LP2A200205M	2.6	0.00497 U	0.000397 U	3.18	0.000994 U	0.00497 U	0.0025	0.00994
LS-PS2A	3/18/2020	LP2A200318M	17.9	0.00487 U	0.00039 U	48.1	0.000974 U	0.00487 U	0.00232	0.0102
LS-PS4	1/9/2020	LP4-200109D	19.2	0.00506 U	0.000405 U	53.6	0.00101 U	0.00506 U	0.00222	0.0255
LS-PS4	1/9/2020	LP4-200109I	18.8	0.00501 U	0.000401 U	53	0.001 U	0.00501 U	0.00229	0.0256
LS-PS4	2/11/2020	LP4-200211I	22.3	0.00498 U	0.000398 U	63	0.000996 U	0.00498 U	0.00324	0.0281
LS-PS4	3/19/2020	LP4-200319I	44.8	0.005 U	0.0004 U	138	0.001 U	0.005 U	0.00469	0.0349
LS-V1A	1/9/2020	LV1A200109M	171	0.00515 U	0.000412 U	479	0.00103 U	0.00807	0.0231	0.0875
LS-V1A	2/6/2020	LV1A200206M	50.1	0.00512 U	0.00041 U	134	0.00102 U	0.00512 U	0.00977	0.241
LS-V1A	3/18/2020	LV1A200318M	363	0.00503 U	0.000403 U	1010	0.00101 U	0.0149	0.041	0.178

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-propene	1,2,3-Trichloro-propane
			630-20-6 (ug/L)	71-55-6 (ug/L)	79-34-5 (ug/L)	79-00-5 (ug/L)	75-34-3 (ug/L)	75-35-4 (ug/L)	563-58-6 (ug/L)	96-18-4 (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	2/5/2020	LEPS200205M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	3/17/2020	LEPS200317M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	1/8/2020	L46N200108M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	2/5/2020	L46N200205M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	3/18/2020	L46N200318M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	1/8/2020	LP2A200108M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	2/5/2020	LP2A200205M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	3/18/2020	LP2A200318M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	1/9/2020	LV1A200109M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	2/6/2020	LV1A200206M	2.5 U	1.15 JT	1 U	1 U	1.22 JT	1 U	1 U	1 U
LS-V1A	3/18/2020	LV1A200318M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOA TRIP BLANK	1/8/2020	VTRP200109Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-Dibromo-3-Chloropropane	1,2-Dibromo-ethane	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3 Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone
			96-12-8 (ug/L)	106-93-4 (ug/L)	95-50-1 (ug/L)	107-06-2 (ug/L)	78-87-5 (ug/L)	541-73-1 (ug/L)	142-28-9 (ug/L)	106-46-7 (ug/L)	594-20-7 (ug/L)	78-93-3 (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1490 D
LS-LEPS	2/5/2020	LEPS200205M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	990
LS-LEPS	3/17/2020	LEPS200317M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	990
LS-MH46N	1/8/2020	L46N200108M	25 U	1 U	1.98 JT	1 U	1 U	1 U	1 U	8	1 U	2.5 U
LS-MH46N	2/5/2020	L46N200205M	25 U	1 U	2.94	1 U	1 U	1 U	1 U	11.5	1 U	2.5 U
LS-MH46N	3/18/2020	L46N200318M	25 U	1 U	2.4	1 U	1 U	1 U	1 U	9.27	1 U	2.5 U
LS-PS2A	1/8/2020	LP2A200108M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	2.47	1 U	46.2
LS-PS2A	2/5/2020	LP2A200205M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	3.02	1 U	29.8
LS-PS2A	3/18/2020	LP2A200318M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1.4 JT	1 U	48.4
LS-V1A	1/9/2020	LV1A200109M	25 U	1 U	1 U	3.98	1 U	1 U	1 U	1 U	1 U	2070 D
LS-V1A	2/6/2020	LV1A200206M	25 U	1 U	1 U	4.09	1 U	1 U	1 U	1 U	1 U	767
LS-V1A	3/18/2020	LV1A200318M	25 U	1 U	1 U	5.89	1 U	1 U	1 U	1.12 JT	1 U	5660 D
VOA TRIP BLANK	1/8/2020	VTRP200109Y	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	2-Hexanone	2-Methyl-1-propanol	3-Chloro-propene	4-Methyl-2-Pentanone	Acetone	Acetonitrile	Acrolein	Acrylonitrile	Benzene
			591-78-6 (ug/L)	78-83-1 (ug/L)	107-05-1 (ug/L)	108-10-1 (ug/L)	67-64-1 (ug/L)	75-05-8 (ug/L)	107-02-8 (ug/L)	107-13-1 (ug/L)	71-43-2 (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	5 U	50 U	1 U	25 U	1500 D	50 U	25 U	0.35 U	1 U
LS-LEPS	2/5/2020	LEPS200205M	5 U	50 U	1 U	25 U	920	50 U	25 U	0.35 U	1 U
LS-LEPS	3/17/2020	LEPS200317M	5 U	50 U	1 U	25 U	2020 D	50 U	25 U	0.35 U	1 U
LS-MH46N	1/8/2020	L46N200108M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	3.27
LS-MH46N	2/5/2020	L46N200205M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	3.8
LS-MH46N	3/18/2020	L46N200318M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	4
LS-PS2A	1/8/2020	LP2A200108M	5 U	50 U	1 U	25 U	51.5	50 U	25 U	0.35 U	1 U
LS-PS2A	2/5/2020	LP2A200205M	5 U	50 U	1 U	25 U	31 JT	50 U	25 U	0.35 U	1 U
LS-PS2A	3/18/2020	LP2A200318M	5 U	50 U	1 U	25 U	74.2	50 U	25 U	0.35 U	1 U
LS-V1A	1/9/2020	LV1A200109M	5.79 JT	108	1 U	25 U	1770 D	50 U	25 U	0.35 U	1 U
LS-V1A	2/6/2020	LV1A200206M	5 U	50 U	1 U	25 U	534	50 U	25 U	0.35 U	1.27 JT
LS-V1A	3/18/2020	LV1A200318M	10.7	260	1 U	49.2 JT	5450 D	50 U	25 U	0.35 U	1 U
VOA TRIP BLANK	1/8/2020	VTRP200109Y	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Bromochloro-	Bromodichloro-	Bromoform	Bromo-	Carbon	Carbon	Chloro-	Chloro-dibromo-	Chloroethane
			methane	methane		methane	Disulfide	Tetrachloride	benzene	methane	
			74-97-5 (ug/L)	75-27-4 (ug/L)	75-25-2 (ug/L)	74-83-9 (ug/L)	75-15-0 (ug/L)	56-23-5 (ug/L)	108-90-7 (ug/L)	124-48-1 (ug/L)	75-00-3 (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	2/5/2020	LEPS200205M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	3/17/2020	LEPS200317M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-MH46N	1/8/2020	L46N200108M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1.92 JT	5 U	1 U
LS-MH46N	2/5/2020	L46N200205M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.54	5 U	1 U
LS-MH46N	3/18/2020	L46N200318M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.28	5 U	1 U
LS-PS2A	1/8/2020	LP2A200108M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-PS2A	2/5/2020	LP2A200205M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1.06 JT	5 U	1 U
LS-PS2A	3/18/2020	LP2A200318M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-V1A	1/9/2020	LV1A200109M	1 U	2.5 U	5 U	1 U	1.15 JT	2.5 U	1 U	5 U	1 U
LS-V1A	2/6/2020	LV1A200206M	1 U	2.5 U	5 U	1 U	3.44	2.5 U	1 U	5 U	1 U
LS-V1A	3/18/2020	LV1A200318M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
VOA TRIP BLANK	1/8/2020	VTRP200109Y	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Chloroform	Chloro- methane	Chloroprene	cis-1,2-Dichloro- ethene	cis-1,3-Dichloro- propene	Dibromo-methane	Dichloro-difluoro- methane	Ethylbenzene	m & p Xylenes
			67-66-3 (ug/L)	74-87-3 (ug/L)	126-99-8 (ug/L)	156-59-2 (ug/L)	10061-01-5 (ug/L)	74-95-3 (ug/L)	75-71-8 (ug/L)	100-41-4 (ug/L)	mpx (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	2/5/2020	LEPS200205M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	3/17/2020	LEPS200317M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-MH46N	1/8/2020	L46N200108M	1 U	2.5 U	1 U	2.67	2.5 U	1 U	1 U	36	48.3
LS-MH46N	2/5/2020	L46N200205M	1 U	2.5 U	1 U	2.4	2.5 U	1 U	1 U	50.7	56.3
LS-MH46N	3/18/2020	L46N200318M	1 U	2.5 U	1 U	3.59	2.5 U	1 U	1 U	43.3	51.5
LS-PS2A	1/8/2020	LP2A200108M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	2.42	7.55
LS-PS2A	2/5/2020	LP2A200205M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	5.44	12.1
LS-PS2A	3/18/2020	LP2A200318M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	2.53
LS-V1A	1/9/2020	LV1A200109M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	2.87	7.04
LS-V1A	2/6/2020	LV1A200206M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	4.06	11.2
LS-V1A	3/18/2020	LV1A200318M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	2.4	6.14
VOA TRIP BLANK	1/8/2020	VTRP200109Y	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Methyl Iodide	Methyl Methacrylate	Methylacrylo-nitrile	Methylene Chloride	o-Xylene	Propionitrile	Styrene	Tetrachloro-ethene
			74-88-4 (ug/L)	80-62-6 (ug/L)	126-98-7 (ug/L)	75-09-2 (ug/L)	95-47-6 (ug/L)	107-12-0 (ug/L)	100-42-5 (ug/L)	127-18-4 (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
LS-LEPS	2/5/2020	LEPS200205M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
LS-LEPS	3/17/2020	LEPS200317M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
LS-MH46N	1/8/2020	L46N200108M	1 U	2.5 U	1 U	25 U	3.24	5 U	1.31 JT	1 U
LS-MH46N	2/5/2020	L46N200205M	1 U	2.5 U	1 U	25 U	3.25	5 U	1.36 JT	1 U
LS-MH46N	3/18/2020	L46N200318M	1 U	2.5 U	1 U	25 U	2.37	5 U	1.73 JT	1 U
LS-PS2A	1/8/2020	LP2A200108M	1 U	2.5 U	1 U	25 U	3.77	5 U	1 U	1 U
LS-PS2A	2/5/2020	LP2A200205M	1 U	2.5 U	1 U	25 U	4.73	5 U	1 U	1 U
LS-PS2A	3/18/2020	LP2A200318M	1 U	2.5 U	1 U	25 U	1.6 JT	5 U	1 U	1 U
LS-V1A	1/9/2020	LV1A200109M	1 U	3.96 JT	1 U	25 U	3.44	5 U	1.71 JT	1 U
LS-V1A	2/6/2020	LV1A200206M	1 U	4.68 JT	1 U	25.6 JT	4.35	5 U	2.28	2.25
LS-V1A	3/18/2020	LV1A200318M	1 U	4.64 JT	1 U	25 U	3.15	5 U	1.81 JT	1 U
VOA TRIP BLANK	1/8/2020	VTRP200109Y	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	0.1 U			2.5 U	0.1 U		0.1 U	0.1 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Toluene	trans-1,2-Dichloro-ethene	trans-1,3-Dichloro-propene	trans-1,4-Dichloro-2-butene	Trichloro-ethene	Trichloro-fluoro-methane	Vinyl Acetate	Vinyl Chloride
			108-88-3 (ug/L)	156-60-5 (ug/L)	10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
LS-LEPS	1/7/2020	LEPS200107M	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	2/5/2020	LEPS200205M	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	3/17/2020	LEPS200317M	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-MH46N	1/8/2020	L46N200108M	3.93	1 U	5 U	5 U	1 U	1 U	1 U	6.05
LS-MH46N	2/5/2020	L46N200205M	4.45	1 U	5 U	5 U	1 U	1 U	1 U	4.23
LS-MH46N	3/18/2020	L46N200318M	4.19	1 U	5 U	5 U	1 U	1 U	1 U	11
LS-PS2A	1/8/2020	LP2A200108M	3.26	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	2/5/2020	LP2A200205M	4.25	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	3/18/2020	LP2A200318M	1.03 JT	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	1/9/2020	LV1A200109M	19.6	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	2/6/2020	LV1A200206M	36.4	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	3/18/2020	LV1A200318M	14.1	1 U	5 U	5 U	1 U	1 U	1 U	0.121 JT
VOA TRIP BLANK	1/8/2020	VTRP200109Y	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/7/2020	VTRP200107Y2	0.1 U	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/7/2020	VTRP200108Z	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	2/4/2020	VTRP200205Y	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	2/4/2020	VTRP200205Z	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	2/4/2020	VTRP200206Z	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	3/16/2020	VTRP200317X	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	3/17/2020	VTRP200318Z	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Chemical_Name	2,4,5-T	2,4,5-TP SILVEX	2,4-D	4,4'DDD	4,4'DDE	4,4'DDT	ALDRIN	ALPHA BHC	ALPHA CHLORDANE	AROCLOR 1016	AROCLOR 1221
		CAS_RN	93-76-5	93-72-1	94-75-7	72-54-8	72-55-9	50-29-3	309-00-2	319-84-6	5103-71-9	12674-11-2	11104-28-2
		Sample ID	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	1/7/2020	LEPS200107M	0.5 U	0.5 U	1.97	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 U	0.025 U
LS-LEPS	2/5/2020	LEPS200205M	0.5 U	0.5 U	2.15	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 U	0.025 U
LS-LEPS	3/17/2020	LEPS200317M	0.5 U	1 U	2.84 J	0.05 U	0.05 GU	0.05 GU	0.05 GU	0.05 U	0.05 GU	0.025 U	0.025 U
LS-MH46N	1/8/2020	L46N200108M	0.5 U	1 U	2 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 U	0.1 U
LS-MH46N	2/5/2020	L46N200205M	0.5 U	1 U	2 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 U	0.07 U
LS-MH46N	3/18/2020	L46N200318M	0.5 U	1 U	1.61	0.05 U	0.05 GU	0.05 GU	0.05 GU	0.05 U	0.05 GU	0.025 U	0.025 U
LS-PS2A	1/8/2020	LP2A200108M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U
LS-PS2A	2/5/2020	LP2A200205M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U
LS-PS2A	3/18/2020	LP2A200318M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U
LS-V1A	1/9/2020	LV1A200109M	0.5 U	0.5 U	3.35	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 U	0.025 U
LS-V1A	2/6/2020	LV1A200206M	0.5 U	0.5 U	4	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.025 U	0.025 U
LS-V1A	3/18/2020	LV1A200318M	0.5 U	2 U	4.38	0.05 U	0.05 GU	0.05 GU	0.05 GU	0.05 U	0.05 GU	0.025 U	0.025 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Chemical_Name	AROCLOR 1232	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	BETA BHC	DELTA BHC	DIELDRIN	DINOSEB	ENDOSULFAN I	ENDOSULFAN II
		CAS_RN	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	319-85-7	319-86-8	60-57-1	88-85-7	959-98-8	33213-65-9
		Sample ID	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	1/7/2020	LEPS200107M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 JU	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-LEPS	2/5/2020	LEPS200205M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-LEPS	3/17/2020	LEPS200317M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.05 GU	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-MH46N	1/8/2020	L46N200108M	0.025 U	0.181	0.025 U	0.025 U	0.025 U	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-MH46N	2/5/2020	L46N200205M	0.025 U	0.177	0.025 U	0.025 U	0.025 U	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-MH46N	3/18/2020	L46N200318M	0.025 U	0.192	0.025 U	0.025 U	0.025 U	0.05 GU	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-PS2A	1/8/2020	LP2A200108M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U
LS-PS2A	2/5/2020	LP2A200205M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U
LS-PS2A	3/18/2020	LP2A200318M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U
LS-V1A	1/9/2020	LV1A200109M	0.025 U	0.0721	0.025 U	0.0464	0.025 U	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-V1A	2/6/2020	LV1A200206M	0.025 U	0.0336	0.025 U	0.025 U	0.025 U	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U
LS-V1A	3/18/2020	LV1A200318M	0.025 U	0.0521	0.025 U	0.025 U	0.025 U	0.05 GU	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U

Environmental Monitoring Data

Data Collected from January 1, 2020 to March 31, 2020
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Chemical_Name	ENDOSULFAN	ENDRIN	ENDRIN	HEPTACHLOR	HEPTACHLOR	ISODRIN	LINDANE	METHOXYCHLOR	Total Aroclors	TOXAPHENE	trans-
		CAS_RN	SULFATE	72-20-8	ALDEHYDE	76-44-8	EPOXIDE	465-73-6	(GAMMA BHC)	72-43-5	T_AROCLOR	8001-35-2	Chlordane
		Sample ID	1031-07-8	72-20-8	7421-93-4	76-44-8	1024-57-3	465-73-6	58-89-9	72-43-5	ug/l	ug/l	ug/l
LS-LEPS	1/7/2020	LEPS200107M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.025 U	5 U	0.05 U
LS-LEPS	2/5/2020	LEPS200205M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.025 U	5 U	0.05 GU
LS-LEPS	3/17/2020	LEPS200317M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.025 U	5 U	0.05 GU
LS-MH46N	1/8/2020	L46N200108M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.181	5 U	0.05 U
LS-MH46N	2/5/2020	L46N200205M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.177	5 U	0.05 GU
LS-MH46N	3/18/2020	L46N200318M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.192	5 U	0.05 GU
LS-PS2A	1/8/2020	LP2A200108M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-PS2A	2/5/2020	LP2A200205M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-PS2A	3/18/2020	LP2A200318M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-V1A	1/9/2020	LV1A200109M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.1185	5 U	0.05 GU
LS-V1A	2/6/2020	LV1A200206M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.0336	5 U	0.05 GU
LS-V1A	3/18/2020	LV1A200318M	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U	0.0521	5 U	0.05 GU

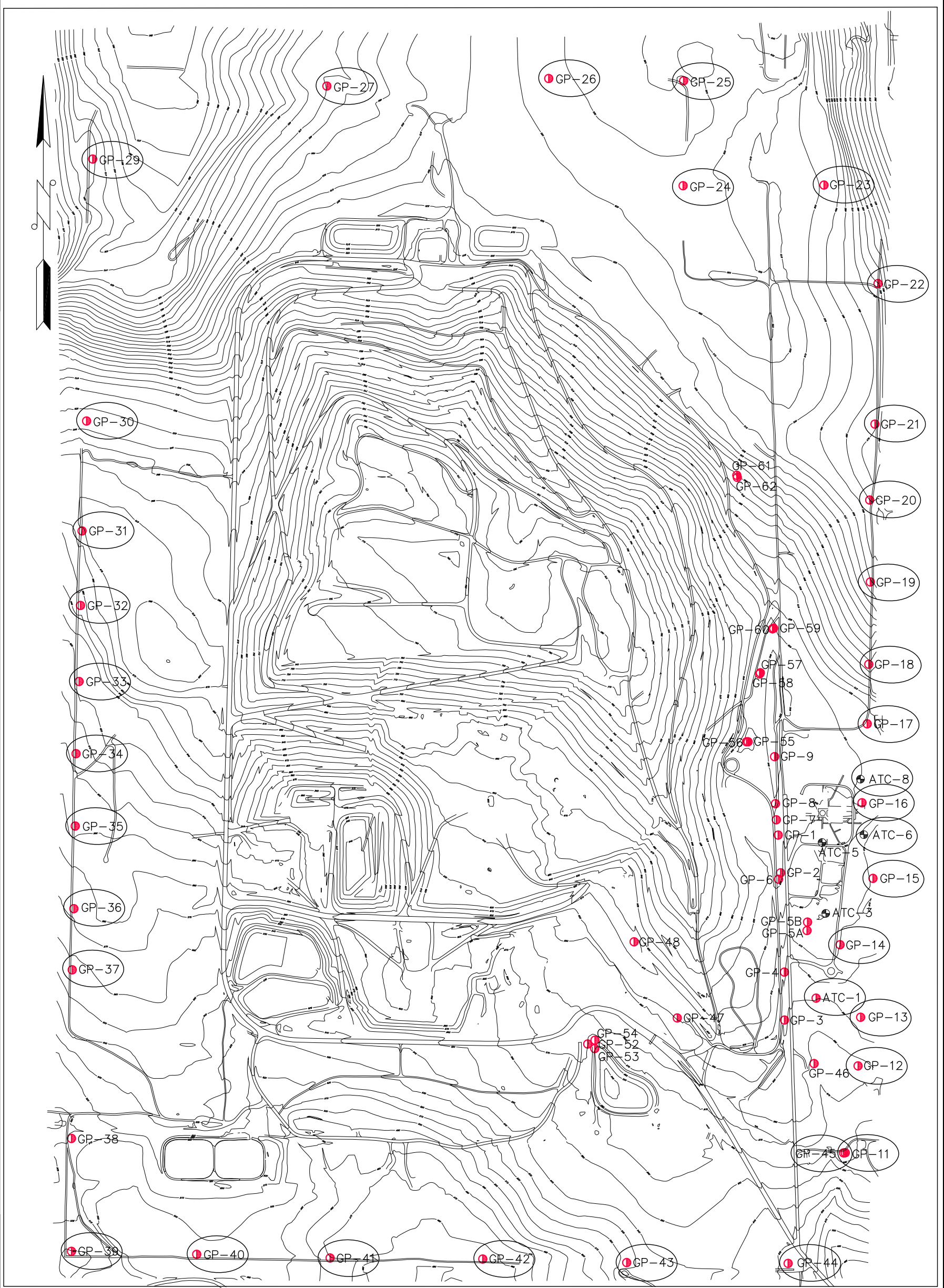
Data Qualifiers

**KING COUNTY SOLID WASTE DIVISION
QUALIFIER INFORMATION**
(Effective 8/27/2015)

QUAL	QUALIFIER DESCRIPTION
U	Undetected; Analyte Concentration Less than Method Detection Limit (< MDL)
T	Estimated; Less than Reporting Detection Limit (<RDL) but Greater than Method Detection Limit (> MDL)
J	Reported Value is an Estimate
B	Matrix Target Analyte Present in Blank, AND, Sample Result Less than or Equal to 10x Blank Detection
C	Confluent Growth
E	Estimated; Outside Expected Accuracy
H	Exceeds Holding Time
R	Data Rejected
S	Sample Handling Errors
X	Too Numerous to Count
D	Re-analysis Due to Dilution
P	PASS – Qualitative Result Acceptable
F	FAIL – Qualitative Result is not Acceptable
G	Estimated with Low Bias (Coliform; BOD; All Other Chemistry Parameters)
L	Estimated with High Bias (BOD; All Other Chemistry Parameters)

Landfill Gas Monitoring Data

Compliance Probes



LEGEND
 INTERIOR LFG MONITORING PROBES
 LFG MIGRATION MONITORING PROBES

GP-61	172389.358	1701689.133	561.42	563.673	563.18	GP#1 TOP LID
GP-62	172375.659	1701672.384	563.35	565.703	565.28	GP#2 TOP LID
GP-59	171373.876	1701913.385	633.45	635.991	635.45	GP#9 TOP LID
GP-60	171369.626	1701906.243	633.68	636.366	633.84	GP#6 TOP LID
GP-57	171077.878	1701825.385	637.02	639.432	639.00	GP#7 TOP LID
GP-56	171070.076	1701820.583	637.56	640.345	639.81	GP#5 TOP LID
GP-56	170619.58	1701733.686	641.07	644.03	643.57	GP#6 TOP LID
GP-55	170619.474	1701744.081	640.99	643.621	643.09	GP#5 TOP LID

DATE	REVISION	BY

Northing	Easting	Elev	Description	Inst Date
170,000.33	1,701,942.93	640.02	GP-1 CASE EL.	1985/86
169,740.00	1,701,960.00	622.00	GP-2 CASE EL.	1985/86
168,758.11	1,701,986.28	594.21	GP-3 CASE EL.	1985/86
169,058.18	1,701,972.94	606.19	GP-4 CASE EL.	1985/86
169,370.19	1,702,134.95	616.23	GP-5A GRND EL.	1988
169,422.02	1,702,138.87	619.63	GP-5B CASE EL.	1988
169,731.73	1,701,946.48	635.59	GP-6 CASE EL.	1988
170,101.22	1,701,930.58	640.65	GP-7 CASE EL.	1988
170,208.37	1,701,925.10	642.67	GP-8 CASE EL.	1988
170,519.95	1,701,919.34	645.27	GP-9 CASE EL.	1988
167,890.09	1,702,398.27	567.15	GP-10 NOT INSTALLED	1988
168,466.64	1,702,473.27	588.08	GP-11 CASE EL.	1988
168,790.03	1,702,490.84	588.15	GP-12 CASE EL.	1988
169,271.56	1,702,354.75	613.32	GP-13 CASE EL.	1988
169,724.93	1,702,446.19	618.75	GP-14 CASE EL.	1988
170,214.28	1,702,500.56	630.19	GP-15 CASE EL.	1988
170,738.83	1,702,535.09	625.18	GP-17 CASE EL.	1988
171,132.85	1,702,543.29	600.83	GP-18 CASE EL.	1988
171,634.82	1,702,554.91	544.15	GP-19 CASE EL.	1988
172,224.83	1,702,550.70	496.61	GP-20 CASE EL.	1988
172,729.15	1,702,594.95	489.79	GP-21 CASE EL.	1988
173,662.40	1,702,607.81	374.84	GP-22 CASE EL.	1988
174,317.16	1,702,248.74	501.77	GP-23 CASE EL.	1988
174,313.44	1,701,314.74	544.72	GP-24 CASE EL.	1988
175,011.63	1,701,324.89	533.86	GP-25 CASE EL.	1988
175,043.82	1,700,394.55	541.69	GP-26 CASE EL.	1988
174,983.78	1,698,936.88	494.75	GP-27 CASE EL.	1988
174,455.39	1,697,386.67	431.05	GP-28 NOT INSTALLED	1988
172,787.40	1,697,339.61	644.62	GP-29 CASE EL.	1988
172,013.96	1,697,324.12	673.37	GP-30 CASE EL.	1988
171,524.28	1,697,308.08	647.57	GP-32 CASE EL.	1988
171,017.18	1,697,293.36	625.03	GP-33 CASE EL.	1988
170,537.12	1,697,287.04	604.93	GP-34 CASE EL.	1988
170,083.32	1,697,286.32	596.28	GP-35 CASE EL.	1988
169,510.89	1,697,282.08	557.38	GP-37 CASE EL.	1988
169,049.03	1,697,252.08	523.57	GP-38 CASE EL.	1988
167,909.72	1,697,243.54	523.57	GP-39 CASE EL.	1988
167,239.45	1,697,232.41	541.03	GP-39 CASE EL.	1988
167,205.68	1,698,100.32	502.77	GP-40 CASE EL.	1988
167,191.96	1,698,965.50	482.97	GP-41 CASE EL.	1988
167,183.37	1,699,979.80	457.95	GP-42 CASE EL.	1988
167,160.00	1,700,961.11	536.85	GP-43 CASE EL.	1988
167,135.28	1,702,007.20	529.11	GP-44 CASE EL.	1984
167,888.74	1,702,378.77	567.47	GP-45 CASE EL.	1994
168,482.15	1,702,182.52	589.79	GP-46 CASE EL.	1994
168,783.75	1,701,272.71	608.75	GP-47 CASE EL.	1994
169,289.65	1,700,985.88	616.56	GP-48 CASE EL.	1994
168,612.91	1,700,710.62	561.13	GP-52 GRND EL.	2001
168,601.99	1,700,711.34	561.02	GP-53 GRND EL.	2001
168,617.89	1,700,717.53	561.20	GP-54 GRND EL.	2001
168,916.92	1,702,196.87	591.29	GP-ATC-1 GRND EL.	1985/86
169,479.79	1,702,259.87	616.25	GP-ATC-3 GRND EL.	1985/86
169,950.42	1,702,236.30	625.65	GP-ATC-5 GRND EL.	1985/86
170,002.70	1,702,572.89	620.16	GP-ATC-6 GRND EL.	1985/86
170,371.26	1,702,480.56	629.94	GP-ATC-8 GRND EL.	1985/86

King County
 KING COUNTY DEPARTMENT OF
 NATURAL RESOURCES AND PARKS
 SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL
 LANDFILL GAS MIGRATION MONITORING PLAN

APPROVED: VICTOR O. OKERKE DATE: 03-27-08
 RECOMMENDED: TOM THIENDO DATE: 03-27-08
 DESIGNED: N/A DRAWN: PHAM / MEHLEN
 PROJECT NO.: SURVEY NO.: SHEET 1 OF 1

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

January 2020 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	1/15/20 10:05 AM	0.0	0.1	20.8	0	-0.03	None
ATC-1S	1/15/20 10:03 AM	0.0	0.1	20.8	0	-0.07	None
ATC-6D	1/15/20 11:26 AM	0.0	0.7	8.6	0	0.01	None
ATC-6S	1/15/20 11:24 AM	0.0	0.1	20.3	0	0.01	None
ATC-8D	1/15/20 11:16 AM	0.0	0.3	16.8	0	1.81	None
ATC-8S	1/15/20 11:14 AM	0.0	0.1	20.4	0	-0.78	None
GP-11A	1/15/20 9:50 AM	0.0	0.2	20.6	0	0.02	None
GP-11B	1/15/20 9:52 AM	0.0	0.1	20.7	0	0.71	None
GP-11C	1/15/20 9:54 AM	0.0	0.1	20.7	0	1.33	None
GP-11D	1/15/20 9:55 AM	0.0	0.1	20.8	0	0.04	None
GP-12A	1/15/20 10:12 AM	0.0	0.1	20.9	0	-0.06	None
GP-12B	1/15/20 10:14 AM	0.0	0.1	20.9	0	-0.02	None
GP-12C	1/15/20 10:16 AM	0.0	0.1	20.5	0	-0.9	None
GP-12D	1/15/20 10:18 AM	0.0	0.7	7.7	0	2.09	None
GP-13A	1/15/20 10:23 AM	0.0	0.1	20.8	0	-1.27	None
GP-13B	1/15/20 10:25 AM	0.0	0.1	21	0	0.16	None
GP-13C	1/15/20 10:27 AM	0.0	0.1	21	0	0.02	None
GP-13D	1/15/20 10:28 AM	0.0	0.2	20.6	0	0.03	None
GP-14A	1/15/20 10:34 AM	0.0	0.1	20.6	0	0.16	None
GP-14B	1/15/20 10:36 AM	0.0	0.1	20.7	0	0.11	None
GP-15A	1/15/20 11:00 AM	0.0	0.1	20.6	0	-0.02	None
GP-15C	1/15/20 11:02 AM	0.0	0.2	20.2	0	-0.01	None
GP-15D	1/15/20 11:04 AM	0.0	0.1	20.6	0	0.03	None
GP-16A	1/15/20 11:18 AM	0.0	0.1	20.2	0	0.03	None
GP-16B	1/15/20 11:20 AM	0.0	0.2	19.7	0	0.93	None
GP-16C	1/15/20 11:22 AM	0.0	0.1	20.3	0	1.98	None
GP-17A	1/15/20 12:56 PM	0.0	0.1	18.5	0	-0.18	None
GP-17B	1/15/20 12:57 PM	0.0	0.7	15.5	0	0.03	None
GP-17C	1/15/20 12:59 PM	0.0	0.1	18.7	0	2.69	None
GP-18A	1/15/20 1:02 PM	0.0	0.1	19.2	0	0	None
GP-18B	1/15/20 1:03 PM	0.0	0.2	16.6	0	0.04	None
GP-18C	1/15/20 1:04 PM	0.0	0.2	17	0	3.35	None
GP-19A	1/15/20 1:08 PM	0.0	0.1	19.8	0	-0.05	None
GP-19B	1/15/20 1:09 PM	0.0	0.7	15.1	0	4.44	None
GP-19C	1/15/20 1:11 PM	0.0	0.1	20	0	0.08	None
GP-20A	1/15/20 1:15 PM	0.0	0.1	20.4	0	-0.06	None
GP-20B	1/15/20 1:16 PM	0.0	0.3	12.4	0	-0.02	None
GP-20C	1/15/20 1:18 PM	0.0	0.1	20.4	0	0	None
GP-21A	1/15/20 1:22 PM	0.0	0.1	20.6	0	-0.02	None
GP-21B	1/15/20 1:23 PM	0.0	0.2	10.9	0	0.01	None
GP-21C	1/15/20 1:24 PM	0.0	0.1	20.5	0	0.03	None
GP-22A	1/15/20 1:30 PM	0.0	0.2	20.6	0	-1.82	None
GP-22C	1/15/20 1:31 PM	0.0	1.4	1.6	0	5.61	None
GP-23A	1/15/20 1:36 PM	0.0	0.1	20.5	0	-0.07	None
GP-23B	1/15/20 1:38 PM	0.0	0.1	20.7	0	-0.02	None
GP-23C	1/15/20 1:40 PM	0.0	0.1	20.7	0	-0.48	None

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

January 2020 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-24A	1/15/20 1:46 PM	0.0	0.1	20.9	0	0.02	None
GP-24B	1/15/20 1:47 PM	0.0	2.4	15	0	0.02	None
GP-25	1/15/20 1:50 PM	0.0	2.5	11.9	0	-0.03	None
GP-26	1/15/20 1:54 PM	0.0	0.5	19.4	0	2.33	None
GP-27	1/15/20 2:00 PM	0.0	7.3	10.8	0	0.01	None
GP-29A	1/15/20 2:04 PM	0.0	5.4	12.1	0	0.08	None
GP-29B	1/15/20 2:07 PM	0.0	0.6	19.8	0	0.35	None
GP-30A	1/15/20 7:46 AM	0.0	1.8	18	0	0.08	None
GP-30B	1/15/20 7:47 AM	0.0	0.7	20.1	0	0.2	None
GP-31A	1/15/20 7:54 AM	0.0	0.2	21	0	0	None
GP-31B	1/15/20 7:55 AM	0.0	0.4	15.7	0	2.45	None
GP-31C	1/15/20 7:57 AM	0.0	0.1	21	0	0.08	None
GP-32A	1/15/20 8:01 AM	0.0	0.5	20.9	0	-0.05	None
GP-32B	1/15/20 8:03 AM	0.0	0.1	21	0	0.03	None
GP-32C	1/15/20 8:04 AM	0.0	0.1	21	0	0.03	None
GP-33A	1/15/20 8:10 AM	0.0	0.1	21	0	-0.05	None
GP-33B	1/15/20 8:11 AM	0.0	0.1	21	0	0.01	None
GP-33C	1/15/20 8:13 AM	0.0	0.1	21	0	0.1	None
GP-34A	1/15/20 8:21 AM	0.0	0.0	0	0	0	NRH2O
GP-34B	1/15/20 8:20 AM	0.0	0.2	20.9	0	0.01	None
GP-34C	1/15/20 8:23 AM	0.0	0.2	8.9	0	0	None
GP-35A	1/15/20 8:27 AM	0.0	0.1	21	0	-0.51	None
GP-35B	1/15/20 8:28 AM	0.0	0.1	21	0	-0.03	None
GP-35C	1/15/20 8:30 AM	0.0	0.1	21	0	-0.05	None
GP-36A	1/15/20 8:35 AM	0.0	0.2	14.6	0	0.02	None
GP-36B	1/15/20 8:36 AM	0.0	0.1	21	0	0	None
GP-36C	1/15/20 8:38 AM	0.0	0.2	20.9	0	0.11	None
GP-37A	1/15/20 8:43 AM	0.0	0.0	0	0	0	NR Plugged
GP-37B	1/15/20 8:45 AM	0.0	0.1	21	0	-0.01	None
GP-37C	1/15/20 8:46 AM	0.0	0.6	6	0	0.53	None
GP-39	1/15/20 8:54 AM	0.0	1.7	17.4	0	1.46	None
GP-40	1/15/20 8:59 AM	0.0	0.1	19.9	0	0	None
GP-41A	1/15/20 9:04 AM	0.0	0.1	20.6	0	0.04	None
GP-41B	1/15/20 9:06 AM	0.0	0.1	20.6	0	0.05	None
GP-41C	1/15/20 9:08 AM	0.0	0.1	20.6	0	0	None
GP-42A	1/15/20 9:19 AM	0.0	0.1	20.7	0	-0.05	None
GP-42B	1/15/20 9:21 AM	0.0	0.6	18	0	0.94	None
GP-43A	1/15/20 9:26 AM	0.0	0.1	20.6	0	-0.03	None
GP-43B	1/15/20 9:28 AM	0.0	0.1	20.7	0	-0.02	None
GP-43C	1/15/20 9:30 AM	0.0	0.1	18.1	0	0	None
GP-44A	1/15/20 9:35 AM	0.0	0.1	20.7	0	-0.01	None
GP-44B	1/15/20 9:37 AM	0.0	1.0	7.8	0	-0.01	None
GP-44C	1/15/20 9:39 AM	0.0	0.1	20.3	0	-0.02	None
GP-45D	1/15/20 9:48 AM	0.0	0.2	20.2	0	1.47	None
GP-45I	1/15/20 9:47 AM	0.0	0.1	20.6	0	0.08	None
GP-45S	1/15/20 9:45 AM	0.0	0.1	20.6	0	0.03	None

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

February 2020 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	2/13/20 9:28 AM	0	0.1	21	0	-0.04	None
ATC-1S	2/13/20 9:27 AM	0	0	0	0	0	NRH2O
ATC-6D	2/13/20 10:39 AM	0	0.9	5	0	8.01	None
ATC-6S	2/13/20 10:38 AM	0	0	0	0	0	NRH2O
ATC-8D	2/13/20 10:34 AM	0	1.2	13.8	0	-0.02	None
ATC-8S	2/13/20 10:33 AM	0	0.4	13.5	0	1.26	None
GP-11A	2/13/20 9:15 AM	0	1	19.4	0	0.23	None
GP-11B	2/13/20 9:17 AM	0	0.7	15.5	0	1.15	None
GP-11C	2/13/20 9:19 AM	0	0.2	15.9	0	1.41	None
GP-11D	2/13/20 9:20 AM	0	0.1	21	0	0.07	None
GP-12A	2/13/20 9:35 AM	0	0.1	21	0	-0.65	None
GP-12B	2/13/20 9:37 AM	0	0.1	21	0	-0.01	None
GP-12C	2/13/20 9:38 AM	0	0.2	17.9	0	-7.47	None
GP-12D	2/13/20 9:40 AM	0	0.4	18.6	0	2.85	None
GP-13A	2/13/20 9:43 AM	0	0.1	21	0	-7.77	None
GP-13B	2/13/20 9:45 AM	0	0	0	0	0	NR Plugged
GP-13C	2/13/20 9:47 AM	0	0.1	21.1	0	-0.05	None
GP-13D	2/13/20 9:49 AM	0	0.2	18.7	0	3.22	None
GP-14A	2/13/20 9:53 AM	0	0.1	21	0	1.1	None
GP-14B	2/13/20 9:55 AM	0	0.1	21	0	0.84	None
GP-15A	2/13/20 10:18 AM	0	0	0	0	0	NRH2O
GP-15C	2/13/20 10:20 AM	0	0.9	16.5	0	0.07	None
GP-15D	2/13/20 10:21 AM	0	0.2	20.8	0	-0.1	None
GP-16A	2/13/20 10:27 AM	0	0.2	20.8	0	-4.92	None
GP-16B	2/13/20 10:28 AM	0	0.2	20.3	0	0.55	None
GP-16C	2/13/20 10:30 AM	0	0.5	17.1	0	3.26	None
GP-17A	2/13/20 1:05 PM	0	0	0	0	0	NRH2O
GP-17B	2/13/20 1:07 PM	0	0.8	15.4	0	0.03	None
GP-17C	2/13/20 1:08 PM	0	0.1	19.8	0	3.32	None
GP-18A	2/13/20 1:11 PM	0	0	0	0	0	NRH2O
GP-18B	2/13/20 1:13 PM	0	0.4	11.6	0	0.01	None
GP-18C	2/13/20 1:14 PM	0	0.2	15.2	0	3.55	None
GP-19A	2/13/20 1:18 PM	0	0	20.2	0	0.06	None
GP-19B	2/13/20 1:19 PM	0	0.6	15	0	-0.7	None
GP-19C	2/13/20 1:21 PM	0	0.1	20.3	0	0.24	None
GP-20A	2/13/20 1:25 PM	0	0.1	20.5	0	1.27	None
GP-20B	2/13/20 1:27 PM	0	0.3	19	0	-0.03	None
GP-20C	2/13/20 1:28 PM	0	0.2	4.4	0	0.98	None
GP-21A	2/13/20 1:31 PM	0	0.1	20.4	0	-0.15	None
GP-21B	2/13/20 1:33 PM	0	0.1	8.7	0	-0.03	None
GP-21C	2/13/20 1:34 PM	0	0	0	0	0	NR Plugged
GP-22A	2/13/20 1:38 PM	0	0.3	20.5	0	-11.01	None
GP-22C	2/13/20 1:40 PM	0	1.2	1.7	0	3.07	None
GP-23A	2/13/20 1:45 PM	0	0.1	20.8	0	-0.23	None
GP-23B	2/13/20 1:46 PM	0	0.1	20.9	0	-1.91	None
GP-23C	2/13/20 1:48 PM	0	0.1	21	0	-2.42	None

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

February 2020 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-24A	2/13/20 1:53 PM	0	3.8	10.5	0	-0.03	None
GP-24B	2/13/20 1:54 PM	0	0.4	20.6	0	-0.04	None
GP-25	2/13/20 1:57 PM	0	0	0	0	0	NRH20
GP-26	2/13/20 2:02 PM	0	0.9	17.9	0	5.03	None
GP-27	2/13/20 2:07 PM	0	4.5	9.2	0	0.02	None
GP-29A	2/13/20 2:11 PM	0	2.1	17.1	0	-0.01	None
GP-29B	2/13/20 2:13 PM	0	0.1	21	0	1.16	None
GP-30A	2/13/20 7:36 AM	0	1.7	11.7	0	-0.02	None
GP-30B	2/13/20 7:38 AM	0	1.3	18.7	0	0.67	None
GP-31A	2/13/20 7:42 AM	0	0	0	0	0	NRH20
GP-31B	2/13/20 7:44 AM	0	0.4	15.6	0	14.41	None
GP-31C	2/13/20 7:45 AM	0	0.1	21.3	0	0.23	None
GP-32A	2/13/20 7:49 AM	0	0.5	20.1	0	0.03	None
GP-32B	2/13/20 7:51 AM	0	0.2	21	0	0.08	None
GP-32C	2/13/20 7:52 AM	0	0.4	21	0	0.08	None
GP-33A	2/13/20 7:57 AM	0	0.4	21	0	-10.68	None
GP-33B	2/13/20 7:58 AM	0	0	0	0	0	NRH20
GP-33C	2/13/20 8:00 AM	0	0.7	20.4	0	1.52	None
GP-34A	2/13/20 8:03 AM	0	0	0	0	0	NRH20
GP-34B	2/13/20 8:05 AM	0	0.3	21	0	0.58	None
GP-34C	2/13/20 8:07 AM	0	0.1	16.9	0	2.43	None
GP-35A	2/13/20 8:10 AM	0	0.3	21	0	-3.62	None
GP-35B	2/13/20 8:12 AM	0	0.1	21	0	0.98	None
GP-35C	2/13/20 8:14 AM	0	0.1	21	0	0.05	None
GP-36A	2/13/20 8:17 AM	0	0.4	8.5	0	0.09	None
GP-36B	2/13/20 8:19 AM	0	0.1	21	0	0	None
GP-36C	2/13/20 8:20 AM	0	0.3	12.7	0	3.5	None
GP-37A	2/13/20 8:23 AM	0	0	0	0	0	NRH20
GP-37B	2/13/20 8:25 AM	0	0	0	0	0	NR Plugged
GP-37C	2/13/20 8:26 AM	0	0.6	1.2	0	3.54	None
GP-39	2/13/20 8:32 AM	0	0.4	21	0	0.41	None
GP-40	2/13/20 8:36 AM	0	0.1	20.2	0	0.02	None
GP-41A	2/13/20 8:41 AM	0	0.1	21	0	0.01	None
GP-41B	2/13/20 8:42 AM	0	0.1	21	0	0.18	None
GP-41C	2/13/20 8:44 AM	0	0.1	21	0	0.07	None
GP-42A	2/13/20 8:47 AM	0	0	0	0	0	NRH20
GP-42B	2/13/20 8:49 AM	0	0.7	18.7	0	1.64	None
GP-43A	2/13/20 8:53 AM	0	0	0	0	0	NR Plugged
GP-43B	2/13/20 8:55 AM	0	0.1	21	0	0.04	None
GP-43C	2/13/20 8:56 AM	0	0.1	21	0	0.04	None
GP-44A	2/13/20 9:01 AM	0	0	0	0	0	NRH20
GP-44B	2/13/20 9:03 AM	0	1	7.9	0	4.75	None
GP-44C	2/13/20 9:05 AM	0	0.1	21	0	0.01	None
GP-45D	2/13/20 9:13 AM	0	0.1	21	0	1.56	None
GP-45I	2/13/20 9:11 AM	0	0.1	20.3	0	0.02	None
GP-45S	2/13/20 9:10 AM	0	0.1	21	0	-0.07	None

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

March 2020 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	3/31/20 11:21 AM	0	0.1	20.4	0	-0.01	None
ATC-1S	3/31/20 11:19 AM	0	0.1	20.5	0	0.02	None
ATC-6D	3/31/20 12:18 PM	0	0.8	3.1	0	0.35	None
ATC-6S	3/31/20 12:16 PM	0	0.1	20.5	0	-0.04	None
ATC-8D	3/31/20 12:27 PM	0	0.3	19.5	0	-1.62	None
ATC-8S	3/31/20 12:25 PM	0	0.4	16.9	0	2.25	None
GP-11A	3/31/20 11:09 AM	0	0.1	20.7	0	0	None
GP-11B	3/31/20 11:10 AM	0	0.1	20.7	0	-0.56	None
GP-11C	3/31/20 11:11 AM	0	0.1	20.7	0	-0.56	None
GP-11D	3/31/20 11:13 AM	0	0.1	20.6	0	0	None
GP-12A	3/31/20 11:33 AM	0	0.1	20.8	0	0	None
GP-12B	3/31/20 11:34 AM	0	0.1	20.8	0	-0.01	None
GP-12C	3/31/20 11:35 AM	0	0.2	18	0	-13	None
GP-12D	3/31/20 11:36 AM	0	0.1	20.8	0	-0.23	None
GP-13A	3/31/20 11:25 AM	0	0.1	20.5	0	-0.03	None
GP-13B	3/31/20 11:27 AM	0	0.1	20.5	0	-0.02	None
GP-13C	3/31/20 11:28 AM	0	0.1	20.6	0	-0.05	None
GP-13D	3/31/20 11:29 AM	0	0.1	20.7	0	-1.44	None
GP-14A	3/31/20 11:42 AM	0	0.1	20.5	0	-0.37	None
GP-14B	3/31/20 11:43 AM	0	0.1	20.9	0	-0.44	None
GP-15A	3/31/20 12:05 PM	0	0.1	21	0	-0.03	None
GP-15C	3/31/20 12:06 PM	0	0.4	18.9	0	0.07	None
GP-15D	3/31/20 12:08 PM	0	0.1	21	0	-0.92	None
GP-16A	3/31/20 12:21 PM	0	0.1	20.4	0	0	None
GP-16B	3/31/20 12:22 PM	0	0.2	19.8	0	-0.2	None
GP-16C	3/31/20 12:23 PM	0	0.2	19.7	0	-1.34	None
GP-17A	3/31/20 1:04 PM	0	0	0	0	0	NR H2O
GP-17B	3/31/20 1:05 PM	0	0.7	16.1	0	-0.04	None
GP-17C	3/31/20 1:07 PM	0	0.1	19.1	0	-1.26	None
GP-18A	3/31/20 1:09 PM	0	0	0	0	0	NR H2O
GP-18B	3/31/20 1:10 PM	0	0.2	16.1	0	0.15	None
GP-18C	3/31/20 1:11 PM	0	0.2	16.1	0	-0.94	None
GP-19A	3/31/20 1:14 PM	0	0.1	19.4	0	-0.06	None
GP-19B	3/31/20 1:16 PM	0	0.6	14.9	0	-1.15	None
GP-19C	3/31/20 1:17 PM	0	0.1	19.5	0	-0.08	None
GP-20A	3/31/20 2:03 PM	0	0.1	19.6	0	-0.06	None
GP-20B	3/31/20 2:05 PM	0	0.3	10.4	0	0.01	None
GP-20C	3/31/20 2:06 PM	0	0.1	19.5	0	0.04	None
GP-21A	3/31/20 2:09 PM	0	0.3	18.9	0	-0.01	None
GP-21B	3/31/20 2:10 PM	0	0.1	9.2	0	-0.04	None
GP-21C	3/31/20 2:11 PM	0	0.1	19.5	0	-0.05	None
GP-22A	3/31/20 2:14 PM	0	0.3	19.5	0	0.54	None
GP-22C	3/31/20 2:16 PM	0	1.4	2.3	0	-0.57	None
GP-23A	3/31/20 2:21 PM	0	0.1	19.6	0	-0.01	None
GP-23B	3/31/20 2:22 PM	0	0.1	19.7	0	0.02	None
GP-23C	3/31/20 2:24 PM	0	0.1	19.7	0	-0.07	None

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

March 2020 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-24A	3/31/20 2:27 PM	0	3.2	12.2	0	0	None
GP-24B	3/31/20 2:28 PM	0	1.4	15.2	0	0.04	None
GP-25	3/31/20 2:30 PM	0	0.1	19.7	0	-0.02	None
GP-26	3/31/20 2:33 PM	0	0.6	17.8	0	-0.09	None
GP-27	3/31/20 2:37 PM	0	5.5	10.4	0	0	None
GP-29A	3/31/20 2:41 PM	0	2.6	15	0	0.05	None
GP-29B	3/31/20 2:42 PM	0	0.7	19.4	0	-0.18	None
GP-30A	3/31/20 8:07 AM	0	2.2	17.9	0	-0.21	None
GP-30B	3/31/20 8:09 AM	0	1.3	18.9	0	-1.33	None
GP-31A	3/31/20 8:12 AM	0	0.2	20.3	0	-0.27	None
GP-31B	3/31/20 8:13 AM	0	0.2	18.8	0	-0.67	None
GP-31C	3/31/20 8:15 AM	0	0.1	20.5	0	-0.05	None
GP-32A	3/31/20 8:17 AM	0	0.7	20.1	0	-0.04	None
GP-32B	3/31/20 8:19 AM	0	0.2	20.6	0	-0.08	None
GP-32C	3/31/20 8:20 AM	0	0.1	20.6	0	-0.03	None
GP-33A	3/31/20 8:38 AM	0	0.1	20.4	0	-0.04	None
GP-33B	3/31/20 8:40 AM	0	0.1	20.4	0	-0.03	None
GP-33C	3/31/20 8:41 AM	0	0.1	20.5	0	-1.56	None
GP-34A	3/31/20 8:44 AM	0	0	0	0	0	NR H2O
GP-34B	3/31/20 8:46 AM	0	0.1	20.6	0	-0.08	None
GP-34C	3/31/20 8:47 AM	0	0.1	19.3	0	-0.91	None
GP-35A	3/31/20 9:08 AM	0	0.1	20.3	0	-0.8	None
GP-35B	3/31/20 9:09 AM	0	0.1	20.4	0	0	None
GP-35C	3/31/20 9:10 AM	0	0.1	19.1	0	-0.18	None
GP-36A	3/31/20 9:13 AM	0	0.2	16.6	0	-0.56	None
GP-36B	3/31/20 9:15 AM	0	0.1	20.6	0	-1.04	None
GP-36C	3/31/20 9:16 AM	0	0.2	19	0	-0.44	None
GP-37A	3/31/20 9:19 AM	0	0	0	0	0	NR H2O
GP-37B	3/31/20 9:20 AM	0	0.1	20.7	0	-0.36	None
GP-37C	3/31/20 9:43 AM	0	0.5	7.1	0	-0.88	None
GP-39	3/31/20 9:48 AM	0	1.6	16.5	0	-0.01	None
GP-40	3/31/20 9:51 AM	0	0.1	17.6	0	-0.05	None
GP-41A	3/31/20 9:54 AM	0	0.1	20.4	0	0	None
GP-41B	3/31/20 9:56 AM	0	0.1	20.5	0	0	None
GP-41C	3/31/20 9:57 AM	0	0.1	20.6	0	0.02	None
GP-42A	3/31/20 10:00 AM	0	0	0	0	0	NR H2O
GP-42B	3/31/20 10:02 AM	0	0.4	18.3	0	-0.71	None
GP-43A	3/31/20 10:06 AM	0	0.1	20.8	0	-0.01	None
GP-43B	3/31/20 10:07 AM	0	0.1	20.9	0	-0.01	None
GP-43C	3/31/20 10:08 AM	0	0.2	15	0	0	None
GP-44A	3/31/20 10:12 AM	0	0.1	21	0	-0.07	None
GP-44B	3/31/20 10:13 AM	0	0.5	15.2	0	0.59	None
GP-44C	3/31/20 10:14 AM	0	0.1	21	0	0.15	None
GP-45D	3/31/20 11:07 AM	0	0.1	20.7	0	-0.7	None
GP-45I	3/31/20 11:05 AM	0	0.1	21	0	0.16	None
GP-45S	3/31/20 11:03 AM	0	0.1	21	0	0	None

Interior Probes

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Interior Probes

January 2020 Monitoring Data

Location ID	Date/Time	CH₄ (% Vol)	CO₂ (% Vol)	O₂ (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	1/15/20 10:56 AM	0.0	0.0	0	0	0	NRH2O
ATC-3S	1/15/20 10:55 AM	0.0	0.0	0	0	0	NRH2O
GP-1A	1/21/20 9:49 PM	0.0	0.2	22.2	0	-0.09	None
GP-1B	1/21/20 9:50 PM	0.0	0.2	22.3	0	-0.19	None
GP-2A	1/21/20 10:09 PM	0.0	4.5	15.6	0	-0.12	None
GP-2B	1/21/20 10:10 PM	0.0	0.4	22.3	0	-0.11	None
GP-3	1/21/20 10:24 PM	0.0	2.8	18.1	0	0.07	None
GP-46D	1/21/20 10:34 PM	0.0	0.3	22.1	0	-1.17	None
GP-46I	1/21/20 10:32 PM	2.6	1.5	15.1	52	0.08	None
GP-46S	1/21/20 10:30 PM	0.0	0.3	18.5	0	-0.25	None
GP-47D	1/15/20 11:46 AM	0.5	0.7	11.4	10	-0.01	None
GP-47I	1/15/20 11:45 AM	50.6	23.2	0.1	>>>>	2.91	None
GP-47S	1/15/20 11:43 AM	0.0	0.4	20.1	0	2.91	None
GP-48D	1/21/20 10:42 PM	21.6	9.9	1.7	>>>>	-0.18	None
GP-48I	1/21/20 10:41 PM	0.1	0.5	21.7	2	-0.15	None
GP-48S	1/21/20 10:39 PM	0.1	1.0	16.9	2	-0.17	None
GP-4A	1/21/20 10:14 PM	0.0	0.2	22.5	0	-0.1	None
GP-4B	1/21/20 10:16 PM	0.0	0.4	22.4	0	-0.12	None
GP-52	1/15/20 11:35 AM	0.0	0.1	20.2	0	0.02	None
GP-53	1/15/20 11:36 AM	0.0	0.8	17.5	0	1.41	None
GP-54	1/15/20 11:38 AM	12.6	10.9	10.5	>>>>	1.36	None
GP-55	1/21/20 9:32 PM	13.6	10.1	0.5	>>>>	-0.63	None
GP-56	1/21/20 9:34 PM	0.0	1.1	21.5	0	-0.05	None
GP-57	1/21/20 9:26 PM	41.8	21.2	3.4	>>>>	-9.45	None
GP-58	1/21/20 9:28 PM	0.0	19.1	4.1	0	-7.09	None
GP-59	1/21/20 9:19 PM	0.9	1.4	20.4	18	-0.45	None
GP-5A	1/15/20 10:42 AM	0.0	0.7	10.9	0	1.55	None
GP-5BA	1/15/20 10:45 AM	0.0	0.2	20.6	0	-7.68	None
GP-5BB	1/15/20 10:47 AM	0.0	1.2	15.6	0	1.54	None
GP-5BC	1/15/20 10:49 AM	0.0	0.2	20.7	0	1.66	None
GP-5BD	1/15/20 10:50 AM	0.0	0.7	10.6	0	1.41	None
GP-60	1/21/20 9:22 PM	0.0	0.3	21.5	0	-0.03	None
GP-61	1/21/20 9:02 PM	0.0	2.1	19.5	0	0.09	None
GP-62	1/21/20 9:04 PM	0.0	1.8	20	0	-0.01	None
GP-6A	1/21/20 9:54 PM	0.0	1.8	15.5	0	-0.53	None
GP-6B	1/21/20 9:56 PM	0.0	3.5	7.3	0	-0.48	None
GP-6C	1/21/20 9:57 PM	0.0	1.1	17.5	0	-0.51	None
GP-6D	1/21/20 9:58 PM	0.0	4.8	1.7	0	-0.95	None
GP-6E	1/21/20 10:00 PM	0.0	2.7	8.3	0	-0.51	None
GP-6F	1/21/20 10:01 PM	0.0	0.5	20.4	0	-0.51	None
GP-6G	1/21/20 10:03 PM	0.0	0.2	22.4	0	-0.52	None
GP-6H	1/21/20 10:04 PM	0.0	4.9	0.8	0	-1.01	None
GP-7	1/21/20 9:42 PM	0.0	3.1	16.1	0	-0.8	None
GP-8	1/21/20 9:38 PM	0.0	0.2	22	0	-0.81	None
GP-9	1/21/20 9:13 PM	0.0	1.2	18.5	0	-0.53	None
GP-B4-1	1/21/20 10:19 PM	0.0	0.4	22.4	0	-1.47	None
GP-B4-2	1/21/20 10:21 PM	0.0	2.8	20.1	0	-0.9	None

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Interior Probes

February 2020 Monitoring Data

Location ID	Date/Time	CH₄ (% Vol)	CO₂ (% Vol)	O₂ (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	2/13/20 10:14 AM	0.0	0.0	0	0	0	NRH20
ATC-3S	2/13/20 10:12 AM	0.1	2.0	12.1	2	0.12	None
GP-1A	2/20/20 10:07 PM	0.0	0.1	21	0	0.04	None
GP-1B	2/20/20 10:09 PM	0.0	0.1	21	0	0.03	None
GP-2A	2/20/20 10:31 PM	0.0	3.7	15.2	0	0.02	None
GP-2B	2/20/20 10:32 PM	0.0	0.1	21	0	-0.01	None
GP-3	2/20/20 10:52 PM	0.0	6.7	10.4	0	-0.06	None
GP-46D	2/20/20 11:00 PM	0.0	0.1	21	0	-0.19	None
GP-46I	2/20/20 10:59 PM	0.0	0.1	21	0	-0.08	None
GP-46S	2/20/20 10:57 PM	0.0	0.1	19.5	0	-0.05	None
GP-47D	2/13/20 11:11 AM	0.2	1.1	12.2	4	-0.01	None
GP-47I	2/13/20 11:09 AM	31.9	18.5	0	>>>>	3.91	None
GP-47S	2/13/20 11:07 AM	56.4	23.4	0.1	>>>>	0.01	None
GP-48D	2/20/20 11:11 PM	0.0	0.1	21	0	-0.07	None
GP-48I	2/20/20 11:09 PM	0.0	0.2	21	0	-0.15	None
GP-48S	2/20/20 11:07 PM	0.0	0.6	16.4	0	-0.05	None
GP-4A	2/20/20 10:38 PM	0.0	0.1	21	0	-0.01	None
GP-4B	2/20/20 10:41 PM	0.0	0.1	21	0	-0.02	None
GP-52	2/13/20 10:46 AM	0.0	0.0	0	0	0	NRH20
GP-53	2/13/20 10:48 AM	0.0	0.5	19.1	0	1.56	None
GP-54	2/13/20 10:50 AM	0.0	0.8	19.9	0	0.04	None
GP-55	2/20/20 9:53 PM	0.0	0.2	21	0	-0.19	None
GP-56	2/20/20 9:51 PM	0.0	0.3	21	0	0.01	None
GP-57	2/20/20 9:44 PM	47.6	24.1	3	>>>>	-7.67	None
GP-58	2/20/20 9:46 PM	1.5	18.2	3.7	30	-38.07	H2O
GP-59	2/20/20 9:38 PM	0.0	1.3	15.3	0	0.02	None
GP-5A	2/13/20 10:00 AM	0.0	0.8	9.8	0	2.71	None
GP-5BA	2/13/20 10:03 AM	0.0	0.0	0	0	0	NRH20
GP-5BB	2/13/20 10:05 AM	0.0	1.3	19.3	0	2.75	None
GP-5BC	2/13/20 10:06 AM	0.0	0.7	18.2	0	2.61	None
GP-5BD	2/13/20 10:08 AM	0.0	1.1	11.2	0	2.94	None
GP-60	2/20/20 9:36 PM	0.0	0.1	21	0	0.05	None
GP-61	2/20/20 9:22 PM	0.0	0.6	20.3	0	0	None
GP-62	2/20/20 9:20 PM	0.0	1.2	19.6	0	0.05	None
GP-6A	2/20/20 10:13 PM	0.0	0.1	21	0	-0.51	None
GP-6B	2/20/20 10:15 PM	0.0	0.1	21	0	-0.05	None
GP-6C	2/20/20 10:17 PM	0.0	0.1	21	0	-0.2	None
GP-6D	2/20/20 10:19 PM	0.0	0.0	21	0	-0.79	None
GP-6E	2/20/20 10:21 PM	0.0	0.1	21	0	-0.16	None
GP-6F	2/20/20 10:22 PM	0.0	0.1	21	0	-0.2	None
GP-6G	2/20/20 10:24 PM	0.0	0.1	21	0	-0.19	None
GP-6H	2/20/20 10:26 PM	0.0	0.1	21	0	-0.64	None
GP-7	2/20/20 10:03 PM	0.0	0.1	21	0	-0.26	None
GP-8	2/20/20 9:58 PM	0.0	0.1	21	0	-0.34	None
GP-9	2/20/20 9:29 PM	0.0	0.1	21	0	-0.46	None
GP-B4-1	2/20/20 10:46 PM	0.0	0.1	21	0	-0.89	None
GP-B4-2	2/20/20 10:48 PM	0.0	0.2	21	0	-0.46	None

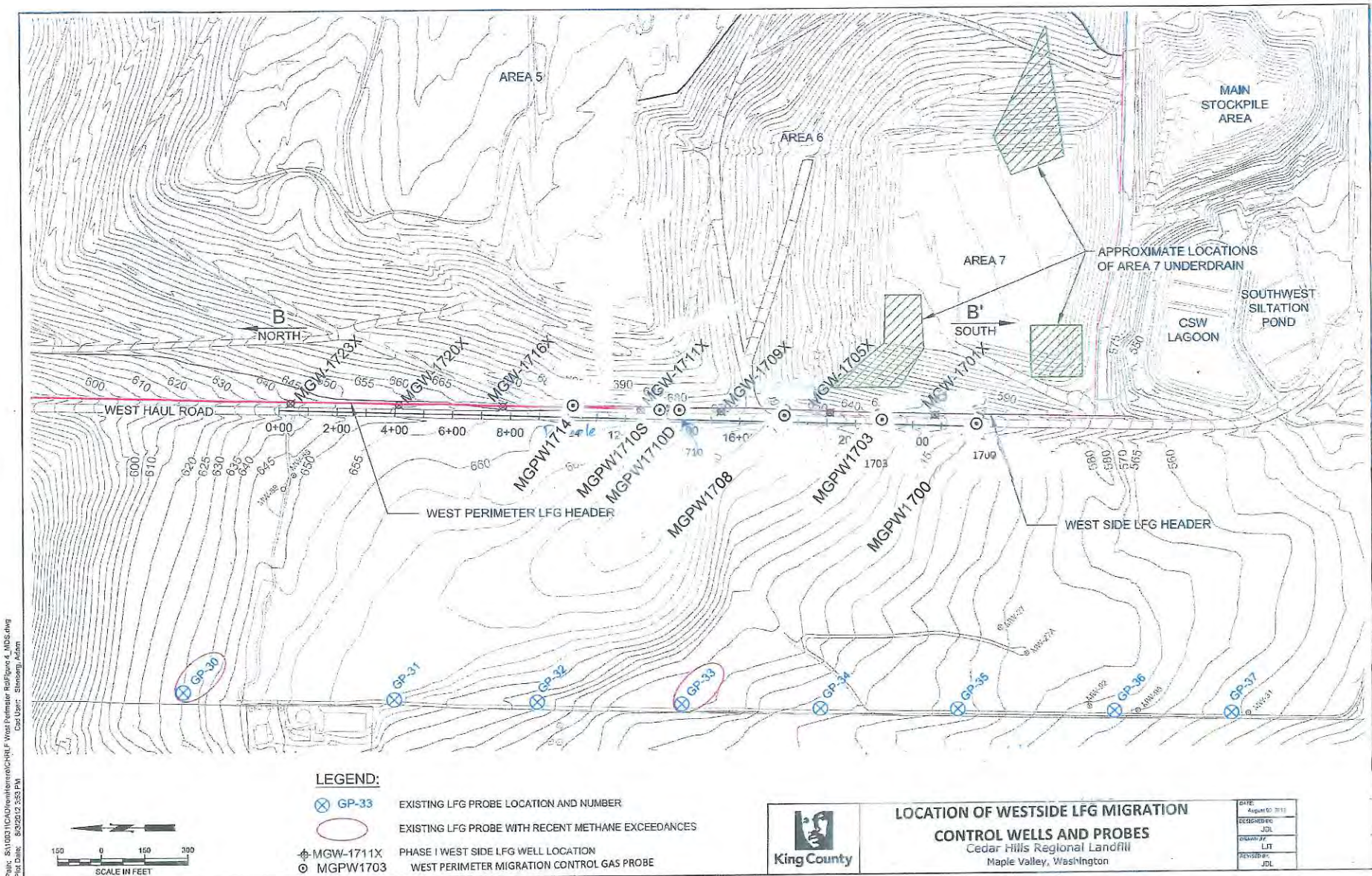
CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Interior Probes

March 2020 Monitoring Data

Location ID	Date/Time	CH₄ (% Vol)	CO₂ (% Vol)	O₂ (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	3/31/20 12:00 PM	0.0	0.0	0	0	0	NR H2O
ATC-3S	3/31/20 11:59 AM	0.0	1.8	11.6	0	-0.93	None
GP-1A	3/18/20 8:58 PM	0.0	0.3	21	0	-0.01	None
GP-1B	3/18/20 9:00 PM	0.0	0.2	21	0	-0.03	None
GP-2A	3/18/20 9:17 PM	0.0	5.9	9.2	0	-0.04	None
GP-2B	3/18/20 9:19 PM	0.0	0.3	21	0	0.04	None
GP-3	3/18/20 9:31 PM	0.0	9.5	8.2	0	0.03	None
GP-46D	3/18/20 9:38 PM	0.1	4.3	9.8	2	0.27	None
GP-46I	3/18/20 9:36 PM	15.7	2.3	0	>>>>	2.02	None
GP-46S	3/18/20 9:34 PM	0.0	0.4	18.6	0	0.04	None
GP-47D	3/31/20 10:56 AM	0.0	0.8	6.8	0	0.66	None
GP-47I	3/31/20 10:54 AM	60.9	23.2	0.7	>>>>	-0.9	None
GP-47S	3/31/20 10:53 AM	0.3	0.3	20.7	6	-0.93	None
GP-48D	3/18/20 9:46 PM	29.5	9.7	2.7	>>>>	0.87	None
GP-48I	3/18/20 9:44 PM	0.0	0.3	21	0	0	None
GP-48S	3/18/20 9:43 PM	0.2	1.1	16.6	4	-0.01	None
GP-4A	3/18/20 9:23 PM	0.0	0.2	21	0	-0.02	None
GP-4B	3/18/20 9:24 PM	0.0	0.3	21	0	0	None
GP-52	3/31/20 10:43 AM	0.0	0.1	20.6	0	-0.03	None
GP-53	3/31/20 10:45 AM	0.0	0.6	18.4	0	-0.49	None
GP-54	3/31/20 10:47 AM	0.0	0.1	20.7	0	-0.1	None
GP-55	3/18/20 8:45 PM	13.7	12.1	0.3	>>>>	0.08	None
GP-56	3/18/20 8:48 PM	0.0	0.5	21	0	-0.04	None
GP-57	3/18/20 8:39 PM	22.6	12.4	11.4	>>>>	-8.38	None
GP-58	3/18/20 8:41 PM	0.0	2.8	20	0	-31.28	None
GP-59	3/18/20 8:33 PM	18.5	8.4	6.1	>>>>	0.45	None
GP-5A	3/31/20 11:48 AM	0.0	0.1	21	0	-1.15	None
GP-5BA	3/31/20 11:50 AM	0.0	0.1	20.9	0	-0.03	None
GP-5BB	3/31/20 11:51 AM	0.0	0.1	21	0	-1.13	None
GP-5BC	3/31/20 11:53 AM	0.0	0.1	21	0	-1.14	None
GP-5BD	3/31/20 11:54 AM	0.0	0.1	21	0	-1.47	None
GP-60	3/18/20 8:35 PM	0.0	0.3	21	0	-0.05	None
GP-61	3/18/20 8:21 PM	0.0	2.4	17.9	0	0.74	None
GP-62	3/18/20 8:23 PM	0.0	1.7	19.7	0	0.12	None
GP-6A	3/18/20 9:03 PM	0.0	2.2	10.8	0	0.88	None
GP-6B	3/18/20 9:05 PM	0.0	4.2	5.4	0	1.01	None
GP-6C	3/18/20 9:07 PM	0.0	1.1	17.6	0	0.92	None
GP-6D	3/18/20 9:08 PM	0.0	5.0	0.8	0	0.67	None
GP-6E	3/18/20 9:10 PM	0.0	2.4	10.4	0	1.01	None
GP-6F	3/18/20 9:11 PM	0.0	2.1	10.6	0	0.85	None
GP-6G	3/18/20 9:13 PM	0.0	1.8	13.4	0	0.82	None
GP-6H	3/18/20 9:14 PM	0.0	5.0	0.6	0	0.67	None
GP-7	3/18/20 8:55 PM	0.0	3.7	13.5	0	0.66	None
GP-8	3/18/20 8:52 PM	0.0	2.8	14.2	0	0.45	None
GP-9	3/18/20 8:28 PM	0.0	2.8	13.7	0	0.79	None
GP-B4-1	3/18/20 9:27 PM	0.0	0.3	21	0	0.04	None
GP-B4-2	3/18/20 9:29 PM	0.0	2.8	19.9	0	0.6	None

On-Site Building Monitoring

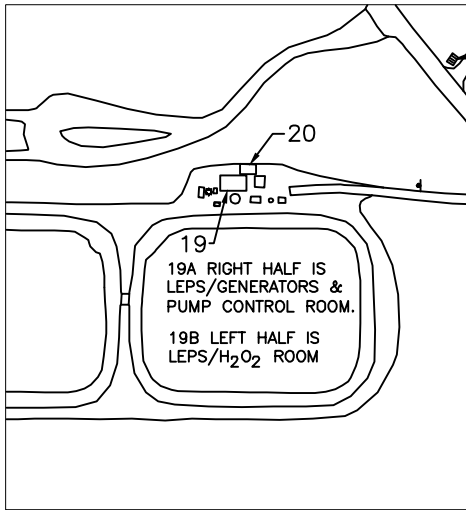


CEDAR HILLS REGIONAL LANDFILL
West Perimeter Landfill Gas Migration Control Probes
First Quarter 2020 Monitoring Data

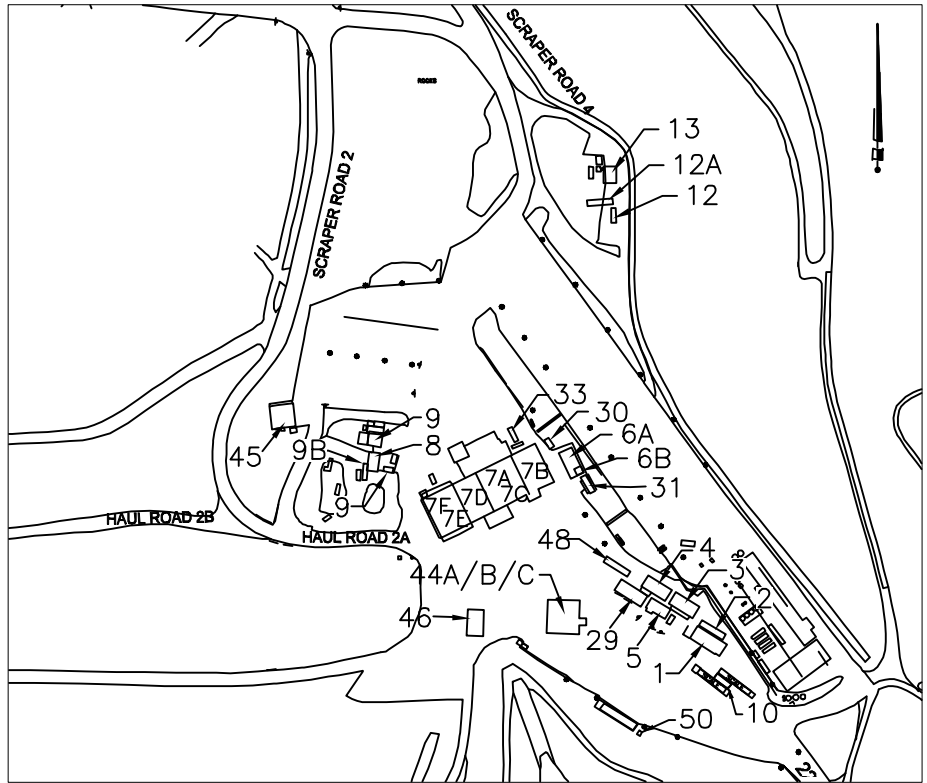
Probe ID	Date	Time	Barometric			Static		Comments
			Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Pressure in INWC	
MGPW 1700	1/7/2020	10:34 AM	29.87	0.0	0.3	22.8	-0.04	
MGPW 1700	1/27/2020	8:18 AM	30.08	0.0	0.3	21.0	-1.93	
MGPW 1700	2/7/2020	10:58 AM	29.98	0.0	0.2	21.9	0.05	
MGPW 1700	2/21/2020	8:20 AM	30.09	0.0	0.2	21.1	0.15	
MGPW 1700	3/6/2020	2:51pm	29.9	0.0	0.1	20.1	-0.02	
MGPW 1700	3/20/2020	2:12pm	30.18	0.0	0.2	19.5	-0.01	
MGPW 1708	1/7/2020	10:24 AM	29.87	0.0	0.2	23.0	0.92	
MGPW 1708	1/27/2020	8:34 AM	30.08	0.0	0.3	20.8	-2.7	
MGPW 1708	2/7/2020	11:03 AM	29.98	0.0	0.2	21.9	-0.05	
MGPW 1708	2/21/2020	8:24 AM	30.09	0.0	0.2	21.2	-0.68	
MGPW 1708	3/6/2020	3:01pm	29.9	0.0	0.4	19.8	-0.62	
MGPW 1708	3/20/2020	2:21pm	30.18	0.0	0.3	19.3	-2.06	
MGPW 1710S	1/7/2020	10:16 AM	29.87	0.0	0.3	22.4	0.67	
MGPW 1710S	1/27/2020	8:25 AM	30.08	0.0	0.3	21.0	-2.55	
MGPW 1710S	2/7/2020	11:06 AM	29.98	0.0	0.1	22.0	-0.87	
MGPW 1710S	2/20/2020	8:30 AM	30.09	0.0	0.2	21.4	-0.45	
MGPW 1710S	3/6/2020	3:05pm	29.90	0.0	0.1	20.4	-0.56	
MGPW 1710S	3/20/2020	2:26pm	30.18	0.0	0.2	19.5	-1.62	
MGPW 1710D	1/7/2020	10:18 AM	29.87	0.0	0.2	22.9	0.73	
MGPW 1710D	1/27/2020	8:27 AM	30.08	0.0	0.2	21.0	-2.6	
MGPW 1710D	2/7/2020	11:09 AM	29.98	0.0	0.1	22.0	-0.88	
MGPW 1710D	2/21/2020	8:33 AM	30.09	0.0	0.2	21.5	-0.81	
MGPW 1710D	3/6/2020	3:07pm	29.9	0.0	0.1	20.5	-0.61	
MGPW 1710D	3/20/2020	2:28pm	30.18	0.0	0.1	19.6	-1.87	
MGPW 1714	1/7/2020	12:08 PM	29.87	0.0	0.3	22.3	0.65	
MGPW 1714	1/27/2020	8:45 AM	30.08	0.0	0.3	20.7	0.02	
MGPW 1714	2/7/2020	11:12 AM	29.98	0.0	0.1	21.0	-0.83	
MGPW 1714	2/21/2020	8:39 AM	30.09	0.0	0.2	21.5	-0.81	
MGPW 1714	3/6/2020	3:12pm	29.90	0.0	0.2	20.5	-0.73	
MGPW 1714	3/20/2020	2:31pm	30.18	0	0.2	19.4	-1.81	

Migration Probes

Aeration Ponds

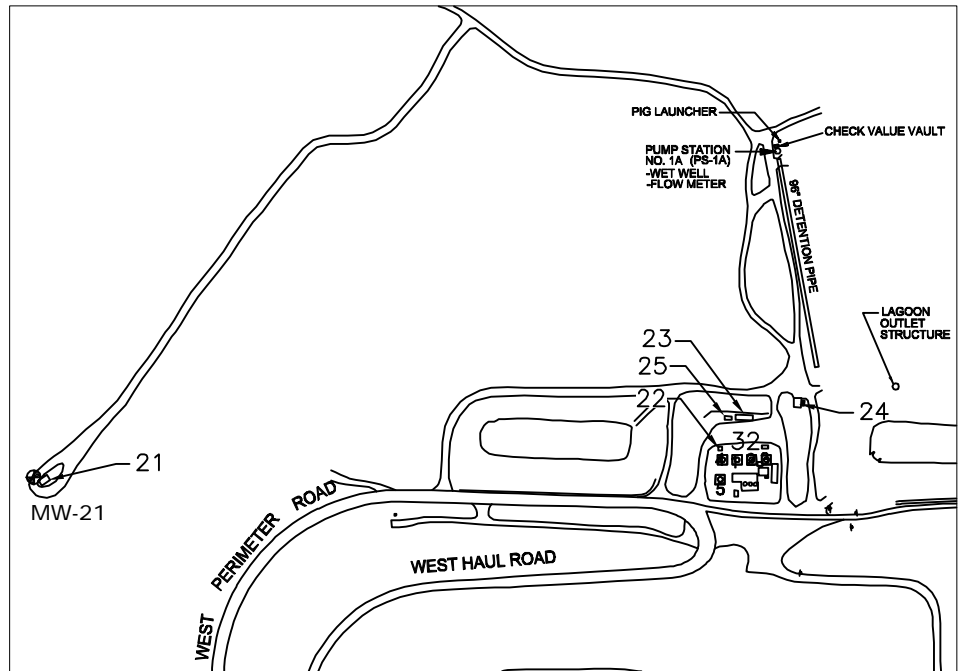


Shop and Office Buildings



BUILDING NO.	EO Description
1	Front Office
2	Conference Room
3	Vacant (Old Payroll Trailer)
4	Engineering Trailer
5	Lunch Room Trailer
6A	Dry Storage
6B	Electrician Office
7	Maintenance Shop
7A	Shop Office
7B	Stores—Shipping/Receiving
7C	Trailer Bay and Pit Area
7D	Tire Shop and Trailer Bay
7E	East Weld Shop
7F	West Weld Shop
8	Carpenter's Shop
9	Wastewater Shed
9B	Carpenter Storage
10	Scale House
11	New Eqpt. Operator's Trailer
12	EQ. Operator's Trailer (Old)
13	WW Compressor
16	Generator (Not Shown)
19	LEPS (P.S. #5)
19A	LEPS Pump Control Room
19B	LEPS/H ₂ O ₂ room
20	LEPS, Elec Panels
21	Storage(Old PS1)
22	Storage/N.Flare
23	LFGAS Office
24	NE Generator Bldg.
25	Storage BLDG. @ N.F.S.
29	OPS Administration Office
30	Women Brk Rm.
31	Landfill Leads/Accts Payable
32	North Flare Station
33	SPOC trailer
44A	Truck Wash West Restroom
44B	Truck Wash East Restroom
44C	Pressure Wash Room
45	Heavy Equipment Canopy
46	Fuel Island
48	Operations Planning
49	CCG Faster (Not Shown)
50	Chlorine Shed

North Flare Station



CEDAR HILLS REGIONAL LANDFILL BUILDING NUMBERS

Source: KCSWD, February 2012



King County


Landfill Gas Structure Monitoring Location

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE: February 2012	PROJECT NO.
DESIGNED BY:	
DRAWN BY:	FIGURE NO.
REVISED BY:	

**FIRST QUARTER
BUILDING MONITORING**

 King County		INSTRUMENT: Place check by instrument used Foxboro TVA 1000 (sn. 301) SEM 5000			WEATHER: cloudy , no wind		DATE: 02/26/20 TECH: LD, BL	
ENVIS ID	BLDG #	DESCRIPTION	CH ₄ (ppm)	REMARKS	BAR PRESS (in. Hg)	TIME		
GOC- 02/26/20	1	FRONT OFFICE	-		30.35	9:05PM		
GCR- 02/26/20	2	CONF ROOM	-					
GAO- 02/26/20	3	PAYROLL OFFICE	-					
GEO- 02/26/20	4	ENGR. OFFICE	-					
GLRC- 02/26/20	5	LUNCHROOM	-					
GSPC 02/26/20		SPOC	-					
GELO- 02/26/20 A	6A	DRY STORAGE	-					
GELO- 02/26/20 B	6B	ELECTRICIAN OFFICE	-					
GAP- 02/26/20		ACCOUNT PAYABLE	-					
GSO- 02/26/20 A	7A	SHOP OFFICE	-					
GPR- 02/26/20 B	7B	PARTS ROOM	-					
GMS- 02/26/20 C	7C	SHOP PIT AREA/BAY	-					
GTB- 02/26/20 D	7D	SHOP TIRE BAY	-					
GEW- 02/26/20 E	7E	EAST WELD SHOP	-					
GWW- 02/26/20 F	7F	WEST WELD SHOP	-					
GCS- 02/26/20	8	CARPENTER'S	-					
GSS- 02/26/20	9	WASTEWATER	NA	building removed				
GSS- 02/26/20 B	9B	CARPENTER/STORAGE	-					
GSH- 02/26/20	10	SCALEHOUSE	-					
GB13- 02/26/20	13	WW COMPRESSOR	-					
GB16- 02/26/20	16	GENERATOR	-					
GB19- 02/26/20	19	LEPS (P.S.# 5)	NA	inaccessable				
GB19- 02/26/20 B	19B	LEPS/H ₂ O ₂ ROOM	NA	inaccessable				
GB20- 02/26/20	20	LEPS ELEC PANALS	NA	inaccessable				
GB21- 02/26/20	21	STORAGE(OLD PS 1)	-					
GB22- 02/26/20	22	STORAGE/N FLARE	-					
GB23- 02/26/20	23	LFGAS	-					
GB24- 02/26/20	24	NE GENERATOR BLDG	-					
GBWW- 02/26/20	30	WOMEN BRK RM	-					
GPWT- 02/26/20	PW	PRESSURE WASH RM	-					
GBRR- 02/26/20	RR	TRUCKWASH RR W	-					
GBSS- 02/26/20	SS	TRUCKWASH RR E	-					
GBZZ- 02/26/20	29	MANAGERS TRAILER	-					
GBPT- 02/26/20		CCG FASTER	NA	unknown location				
GCLS- 02/26/20		CHLORINE SHED	-					

APPENDIX C

Meteorological Data

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/1/20 0:00	19.71	224	12.29	10.59	28.85	0
1/1/20 0:15	19.77	230.8	11.79	10.61	28.85	0
1/1/20 0:30	19.55	229.6	10.88	10.6	28.85	0
1/1/20 0:45	15.93	234.3	12.31	10.56	28.85	0
1/1/20 1:00	17.5	226.9	10.87	10.53	28.86	0
1/1/20 1:15	17.36	227.5	11.22	10.4	28.86	0
1/1/20 1:30	18.71	227.3	10.49	10.36	28.86	0
1/1/20 1:45	17.98	228.1	10.65	10.3	28.86	0
1/1/20 2:00	12.77	230.8	12.96	10.21	28.88	0
1/1/20 2:15	9.36	235.7	15.87	10.16	28.88	0
1/1/20 2:30	13.19	235.5	15.6	10.12	28.88	0
1/1/20 2:45	13.7	225.1	11.36	10.06	28.88	0
1/1/20 3:00	16.12	218.8	10.34	9.94	28.87	0
1/1/20 3:15	18.11	217.4	12.26	9.91	28.87	0
1/1/20 3:30	15.1	230.2	15.06	9.99	28.87	0
1/1/20 3:45	14.89	228.3	11.05	9.95	28.87	0
1/1/20 4:00	16.2	230.9	11.61	9.91	28.87	0
1/1/20 4:15	12.14	233.8	10.98	9.84	28.87	0
1/1/20 4:30	13.05	225.8	12.63	9.79	28.87	0
1/1/20 4:45	14.92	225.9	12.46	9.68	28.87	0
1/1/20 5:00	13.43	225.5	11.43	9.58	28.87	0
1/1/20 5:15	14.76	224.4	12.05	9.59	28.87	0
1/1/20 5:30	12.5	223.1	11.87	9.53	28.87	0
1/1/20 5:45	12.91	220	13.32	9.48	28.87	0
1/1/20 6:00	14.2	213.8	10.44	9.37	28.88	0
1/1/20 6:15	12.04	213.7	13.26	9.27	28.88	0
1/1/20 6:30	9.83	226.6	16.6	9.22	28.88	0
1/1/20 6:45	10.59	233.5	12.48	9.19	28.88	0
1/1/20 7:00	12.53	230.5	10.5	9.23	28.9	0
1/1/20 7:15	12.27	227.1	12.59	9.2	28.9	0
1/1/20 7:30	6.859	234.4	14.78	9.07	28.9	0
1/1/20 7:45	4.336	283.7	18.28	8.83	28.9	0
1/1/20 8:00	5.959	252.2	10.55	8.89	28.94	0
1/1/20 8:15	7.572	263	22.4	8.42	28.94	0.02
1/1/20 8:30	5.363	289.7	10.36	7.74	28.94	0.08
1/1/20 8:45	4.935	285.8	25.24	7.602	28.94	0.09
1/1/20 9:00	10.13	246.6	16.62	8.06	28.97	0.02
1/1/20 9:15	14.4	238	9.8	8.31	28.97	0
1/1/20 9:30	13.15	234.9	9.3	8.34	28.97	0
1/1/20 9:45	10.88	226.6	11.61	8.41	28.97	0
1/1/20 10:00	9.61	218.9	12.84	8.53	29	0
1/1/20 10:15	8.88	204	14.64	8.52	29	0
1/1/20 10:30	8.4	210.5	10.05	8.49	29	0
1/1/20 10:45	7.724	211.8	14.03	8.54	29	0
1/1/20 11:00	8.56	215.8	10.82	8.59	29	0
1/1/20 11:15	8.2	204.4	13.07	8.69	29	0
1/1/20 11:30	11.38	227.6	12.64	8.84	29	0
1/1/20 11:45	14.07	222	11.43	8.9	29	0
1/1/20 12:00	12.81	220.4	10.8	8.81	29	0
1/1/20 12:15	11.54	219.6	9.62	8.73	29	0
1/1/20 12:30	11.97	220.5	10.41	8.84	29	0
1/1/20 12:45	9.25	213.7	11.35	9	29	0
1/1/20 13:00	11.59	222.8	12.85	9.2	29.01	0
1/1/20 13:15	10.69	223.2	11.26	9.36	29.01	0
1/1/20 13:30	12.18	224.4	9.12	9.4	29.01	0
1/1/20 13:45	11.64	227.8	11.37	9.48	29.01	0
1/1/20 14:00	11.32	228.2	9.73	9.6	29.01	0
1/1/20 14:15	11.32	211.1	9.75	9.54	29.01	0
1/1/20 14:30	13.69	217.3	8.7	9.49	29.01	0
1/1/20 14:45	15.01	228.7	9.57	9.56	29.01	0
1/1/20 15:00	15.54	233.5	8.86	9.59	29.03	0
1/1/20 15:15	17.58	229.2	8.23	9.47	29.03	0
1/1/20 15:30	13.62	225.8	11.34	9.39	29.03	0
1/1/20 15:45	12.88	217.6	9.62	9.28	29.03	0
1/1/20 16:00	10.46	214.4	11.97	9.15	29.04	0
1/1/20 16:15	9.5	205.9	10.4	9.07	29.04	0
1/1/20 16:30	10.44	203.8	11.32	8.99	29.04	0
1/1/20 16:45	11.72	215	10.23	9.01	29.04	0
1/1/20 17:00	11.27	206.7	10.67	8.94	29.05	0
1/1/20 17:15	10.37	192.6	11.28	8.84	29.05	0
1/1/20 17:30	11.77	182.8	12.85	8.65	29.05	0
1/1/20 17:45	12.74	190.9	9.32	8.52	29.05	0
1/1/20 18:00	13.72	201.1	9.69	8.45	29.06	0
1/1/20 18:15	17.52	204.5	8.86	8.35	29.06	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/1/20 18:30	17.63	208.5	8.08	8.26	29.06	0
1/1/20 18:45	17.73	210.9	10.55	8.12	29.06	0
1/1/20 19:00	18.42	205.5	8.98	7.954	29.08	0
1/1/20 19:15	16.12	213.1	10.04	7.827	29.08	0
1/1/20 19:30	16.25	213.8	11.11	7.748	29.08	0
1/1/20 19:45	15.78	213	10.12	7.727	29.08	0
1/1/20 20:00	15.52	211.8	12.35	7.617	29.11	0
1/1/20 20:15	14	212.5	9.89	7.531	29.11	0
1/1/20 20:30	12.61	211.5	9.78	7.434	29.11	0
1/1/20 20:45	15.94	211.9	9.47	7.433	29.11	0
1/1/20 21:00	14.79	224.3	10.53	7.395	29.12	0
1/1/20 21:15	15.22	219.5	9.94	7.345	29.12	0
1/1/20 21:30	13.65	229.5	11.08	7.263	29.12	0
1/1/20 21:45	12.53	223.8	9.59	7.193	29.12	0
1/1/20 22:00	4.925	224.6	35.94	7.085	29.19	0
1/1/20 22:15	5.283	32.19	29.45	5.234	29.19	0
1/1/20 22:30	9.54	35.66	18.32	4.182	29.19	0
1/1/20 22:45	10.68	37.4	11.4	3.66	29.19	0
1/1/20 23:00	8.71	50.47	12.15	3.534	29.19	0
1/1/20 23:15	4.399	61.08	21.74	3.537	29.19	0
1/1/20 23:30	4.934	52.38	11.77	3.81	29.19	0
1/1/20 23:45	3.972	58.91	10.54	3.718	29.19	0
1/2/20 0:00	3.545	54.52	26.98	3.61	29.21	0
1/2/20 0:15	1.546	74.24	44.13	3.884	29.21	0
1/2/20 0:30	6.173	202.2	11.73	5.427	29.21	0
1/2/20 0:45	10.09	198.3	9.89	5.999	29.21	0
1/2/20 1:00	11.6	207.6	8.05	5.871	29.24	0
1/2/20 1:15	9.79	204.1	7.581	5.79	29.24	0
1/2/20 1:30	7.607	202.7	10.98	5.772	29.24	0
1/2/20 1:45	6.543	181.4	29.82	5.576	29.24	0
1/2/20 2:00	4.725	156.6	43.09	5.062	29.28	0
1/2/20 2:15	2.238	134.6	69.36	4.393	29.28	0
1/2/20 2:30	8.5	199.2	10.47	5.589	29.28	0
1/2/20 2:45	7.639	197.5	11.78	5.604	29.28	0
1/2/20 3:00	4.939	120.1	62.76	4.552	29.31	0
1/2/20 3:15	5.142	176.8	64.79	4.668	29.31	0
1/2/20 3:30	7.462	195.5	8.9	5.441	29.31	0
1/2/20 3:45	7.41	191.5	10.81	5.381	29.31	0
1/2/20 4:00	7.059	185.2	12.7	5.245	29.29	0
1/2/20 4:15	7.869	191.1	8.81	5.298	29.29	0
1/2/20 4:30	7.176	193.6	8.66	5.272	29.29	0
1/2/20 4:45	6.639	187.3	9.88	5.283	29.29	0
1/2/20 5:00	5.628	184.7	11.88	5.166	29.27	0
1/2/20 5:15	3.62	139.1	18.28	4.45	29.27	0
1/2/20 5:30	6.107	153.2	6.164	4.421	29.27	0
1/2/20 5:45	6.101	164.5	8.8	4.544	29.27	0
1/2/20 6:00	5.879	164.6	9.24	4.425	29.25	0
1/2/20 6:15	5.921	173.2	11.85	4.474	29.25	0
1/2/20 6:30	6.811	187	7.692	4.726	29.25	0
1/2/20 6:45	5.789	181.1	11.16	4.592	29.25	0
1/2/20 7:00	5.488	149.1	7.444	4.264	29.27	0
1/2/20 7:15	4.805	144.9	9.47	4.386	29.27	0
1/2/20 7:30	5.871	163.8	8.4	4.158	29.27	0
1/2/20 7:45	7.354	154.3	5.206	4.296	29.27	0
1/2/20 8:00	6.872	150.6	6.39	4.349	29.29	0
1/2/20 8:15	5.849	145.9	8.27	4.216	29.29	0
1/2/20 8:30	6.485	150.9	6.818	4.274	29.29	0
1/2/20 8:45	4.752	145.3	8.1	4.274	29.29	0
1/2/20 9:00	4.825	145.6	10.2	4.314	29.31	0
1/2/20 9:15	4.209	129.1	9.76	4.376	29.31	0
1/2/20 9:30	3.73	133.5	10.75	4.397	29.31	0
1/2/20 9:45	5.268	152.3	10.23	4.576	29.31	0
1/2/20 10:00	5.203	162.3	8.67	4.786	29.32	0
1/2/20 10:15	5.451	163.1	10.19	4.878	29.32	0
1/2/20 10:30	8.56	188.9	8.89	4.98	29.32	0
1/2/20 10:45	8.64	192.9	8.85	5.005	29.32	0
1/2/20 11:00	8.71	196.9	9.54	4.803	29.33	0
1/2/20 11:15	8.6	193.8	7.37	4.611	29.33	0.01
1/2/20 11:30	8.16	178.6	13.66	4.403	29.33	0
1/2/20 11:45	7.639	175.2	14.39	4.215	29.33	0.01
1/2/20 12:00	6.317	139.8	10.6	3.909	29.3	0
1/2/20 12:15	6.145	124.6	9.27	3.678	29.3	0.01
1/2/20 12:30	6.152	109	10.47	3.486	29.3	0
1/2/20 12:45	5.92	108.2	9.45	3.375	29.3	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/2/20 13:00	5.223	116	10.1	3.442	29.27	0
1/2/20 13:15	4.969	109	9.99	3.531	29.27	0
1/2/20 13:30	4.219	114.6	17.71	3.594	29.27	0
1/2/20 13:45	6.536	132.1	9.47	3.918	29.27	0
1/2/20 14:00	4.682	123.8	9.27	3.744	29.24	0
1/2/20 14:15	6.107	117.5	10.41	3.701	29.24	0
1/2/20 14:30	5.93	115.3	9.58	3.693	29.24	0.01
1/2/20 14:45	4.252	122.5	8.85	3.704	29.24	0
1/2/20 15:00	3.857	126.7	11.9	3.636	29.22	0.01
1/2/20 15:15	4.568	123.5	7.98	3.475	29.22	0
1/2/20 15:30	4.357	122.3	11.17	3.546	29.22	0
1/2/20 15:45	4.354	148.1	13.39	3.557	29.22	0
1/2/20 16:00	6.345	141.2	9.35	3.637	29.19	0.01
1/2/20 16:15	7.589	142.8	9.57	3.686	29.19	0
1/2/20 16:30	6.316	128.4	10.95	3.713	29.19	0
1/2/20 16:45	3.32	107.7	18.78	3.638	29.19	0
1/2/20 17:00	4.396	104.4	13.94	3.711	29.15	0.01
1/2/20 17:15	4.298	117.7	13.8	3.593	29.15	0
1/2/20 17:30	7.88	143.2	9.97	4.136	29.15	0
1/2/20 17:45	11.83	137.8	9.26	4.853	29.15	0
1/2/20 18:00	10.69	137.9	9.77	5.156	29.12	0
1/2/20 18:15	9.66	153.1	9.78	5.185	29.12	0
1/2/20 18:30	10.42	140.1	10.17	5.514	29.12	0
1/2/20 18:45	8.14	161.6	10.5	5.49	29.12	0
1/2/20 19:00	7.506	141.8	8.96	5.499	29.12	0
1/2/20 19:15	8.85	156.3	13.3	5.998	29.12	0
1/2/20 19:30	9.26	169	14.15	6.079	29.12	0
1/2/20 19:45	8.99	170.2	12.37	6.345	29.12	0
1/2/20 20:00	10.28	164.3	10.81	6.771	29.14	0
1/2/20 20:15	8.63	158.8	8.57	6.906	29.14	0
1/2/20 20:30	8.59	173.2	7.642	6.976	29.14	0
1/2/20 20:45	9.93	167.3	6.054	7.192	29.14	0
1/2/20 21:00	9.67	156.6	6.447	7.469	29.14	0
1/2/20 21:15	10.24	162.6	6.315	7.628	29.14	0
1/2/20 21:30	9.25	163.3	6.373	7.595	29.14	0
1/2/20 21:45	8.7	156.8	5.719	7.845	29.14	0
1/2/20 22:00	9.71	160.6	5.661	8.16	29.14	0
1/2/20 22:15	8.68	156.9	5.732	8.08	29.14	0
1/2/20 22:30	7.629	153.3	6.44	8.13	29.14	0
1/2/20 22:45	9.42	160.2	7.27	8.39	29.14	0
1/2/20 23:00	10.67	178.2	9.5	8.88	29.14	0
1/2/20 23:15	9.93	179.7	9.13	8.99	29.14	0
1/2/20 23:30	10.52	188.9	7.233	9.41	29.14	0
1/2/20 23:45	12.19	195.4	8.54	9.5	29.14	0
1/3/20 0:00	12.51	186	15.07	9.53	29.16	0
1/3/20 0:15	7.642	153.2	10.83	9.41	29.16	0
1/3/20 0:30	8.28	164.4	15.28	9.44	29.16	0
1/3/20 0:45	10.37	178.8	10.62	9.09	29.16	0.01
1/3/20 1:00	7.845	150.7	14.89	8.58	29.16	0
1/3/20 1:15	6.334	139.5	10.04	8.44	29.16	0
1/3/20 1:30	8.95	141.5	9.91	8.6	29.16	0.01
1/3/20 1:45	9.02	136.6	9.81	8.49	29.16	0
1/3/20 2:00	10.56	130.3	8.22	8.29	29.13	0.01
1/3/20 2:15	8.74	135.7	9.19	8.4	29.13	0
1/3/20 2:30	8.56	125.5	7.642	8.54	29.13	0
1/3/20 2:45	9.66	120.1	10.43	8.93	29.13	0.01
1/3/20 3:00	8.55	132.6	11.86	9.18	29.12	0
1/3/20 3:15	6.416	140.6	9.65	9.25	29.12	0
1/3/20 3:30	4.598	161.8	18.36	9.31	29.12	0
1/3/20 3:45	5.019	171.4	17.51	9.4	29.12	0
1/3/20 4:00	6.515	191.1	16.97	9.42	29.14	0
1/3/20 4:15	10.1	214.5	8.17	9.39	29.14	0
1/3/20 4:30	7.693	211.2	8.47	9.31	29.14	0
1/3/20 4:45	7.764	194.6	13.7	9.24	29.14	0.01
1/3/20 5:00	3.296	117.3	27.03	8.57	29.13	0
1/3/20 5:15	7.424	142.8	11.67	8.88	29.13	0
1/3/20 5:30	9.24	165.6	14.51	9.39	29.13	0.01
1/3/20 5:45	4.186	124	16.55	8.93	29.13	0
1/3/20 6:00	6.714	140.2	9.74	8.93	29.12	0
1/3/20 6:15	6.822	148.9	6.552	9.14	29.12	0
1/3/20 6:30	5.734	134.8	8.49	9.23	29.12	0
1/3/20 6:45	6.466	147.1	8.61	9.27	29.12	0
1/3/20 7:00	4.043	137.6	9.73	9.42	29.12	0
1/3/20 7:15	4.554	139.9	10.29	9.85	29.12	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/3/20 7:30	4.901	136.3	5.476	10.02	29.12	0
1/3/20 7:45	4.21	134.4	6.966	10.3	29.12	0
1/3/20 8:00	3.563	131.7	11.21	10.3	29.13	0
1/3/20 8:15	4.782	141.6	16.25	11.26	29.13	0
1/3/20 8:30	3.834	115.3	16.99	11.49	29.13	0
1/3/20 8:45	3.575	115.6	13.31	11.02	29.13	0
1/3/20 9:00	2.875	107.1	17.67	12.03	29.15	0
1/3/20 9:15	2.299	65.73	43.7	12.36	29.15	0
1/3/20 9:30	2.111	353.8	64.09	12.99	29.15	0
1/3/20 9:45	2.35	1.977	43.68	11.81	29.15	0
1/3/20 10:00	2.026	261.4	61.04	10.59	29.15	0
1/3/20 10:15	2.352	255.8	21.83	12.68	29.15	0
1/3/20 10:30	1.184	300	30.74	13.72	29.15	0
1/3/20 10:45	0.723	24.32	30.4	13.65	29.15	0
1/3/20 11:00	1.306	342.1	25.5	13.87	29.15	0
1/3/20 11:15	1.802	291.3	21.67	13.51	29.15	0
1/3/20 11:30	1.821	224.8	55.85	13.3	29.15	0
1/3/20 11:45	1.904	214	23.68	13.52	29.15	0
1/3/20 12:00	0.464	267.3	11.94	13.38	29.12	0
1/3/20 12:15	0.844	44.3	5.152	12.91	29.12	0
1/3/20 12:30	2.551	68.51	8.91	12.47	29.12	0
1/3/20 12:45	4.412	97.5	7.259	12.65	29.12	0
1/3/20 13:00	4.312	122.8	10.43	13.01	29.09	0
1/3/20 13:15	3.091	123.4	20.82	13.31	29.09	0
1/3/20 13:30	3.754	128.5	22.9	12.91	29.09	0
1/3/20 13:45	3.545	115.7	14.43	12.46	29.09	0
1/3/20 14:00	5.461	142.8	9.34	12.92	29.08	0
1/3/20 14:15	5.638	148.7	5.869	13.04	29.08	0
1/3/20 14:30	7.43	146.1	8.43	13.03	29.08	0
1/3/20 14:45	7.758	151.5	8.56	13.24	29.08	0
1/3/20 15:00	8.83	157.6	8.71	13.35	29.05	0
1/3/20 15:15	8.83	157.4	8.86	13.25	29.05	0
1/3/20 15:30	9.91	160.3	6.453	13.48	29.05	0
1/3/20 15:45	8.96	156	5.511	13.51	29.05	0
1/3/20 16:00	8.56	156.5	5.414	13.36	29.01	0
1/3/20 16:15	9.42	157.1	6.346	13.33	29.01	0
1/3/20 16:30	10.87	159.8	6.518	13.43	29.01	0
1/3/20 16:45	12.75	157.8	6.223	13.44	29.01	0
1/3/20 17:00	14.87	168.2	7.317	13.75	28.98	0
1/3/20 17:15	15.9	172.3	7.948	14.04	28.98	0
1/3/20 17:30	18.67	175.8	7.701	14.75	28.98	0
1/3/20 17:45	20.61	171.1	7.288	15	28.98	0
1/3/20 18:00	23.44	170.8	7.87	15.42	28.92	0
1/3/20 18:15	21.42	174.6	8.03	15.66	28.92	0
1/3/20 18:30	20.45	175.4	8.45	15.73	28.92	0
1/3/20 18:45	20.44	179.1	9.73	15.86	28.92	0
1/3/20 19:00	21.51	183.6	9.42	16.05	28.87	0
1/3/20 19:15	22.79	188.3	9.88	16.08	28.87	0
1/3/20 19:30	22.13	192.1	8.7	16	28.87	0
1/3/20 19:45	21.87	197.9	11.58	15.89	28.87	0
1/3/20 20:00	17.71	202	7.338	15.63	28.87	0
1/3/20 20:15	21.82	203.5	9.21	14.77	28.87	0.01
1/3/20 20:30	19.49	225	8.22	12.84	28.87	0.02
1/3/20 20:45	13.08	234.3	8.79	11.7	28.87	0.01
1/3/20 21:00	8.49	266.7	14.31	10.56	28.88	0
1/3/20 21:15	17.08	270.1	10.97	8.98	28.88	0.02
1/3/20 21:30	17.34	249	12.14	8.07	28.88	0.02
1/3/20 21:45	17.15	228.3	9.28	7.895	28.88	0.02
1/3/20 22:00	17.45	218.8	9.36	7.928	28.96	0.01
1/3/20 22:15	15.49	226.8	10.91	7.998	28.96	0.01
1/3/20 22:30	16.55	235.7	10.26	7.659	28.96	0.02
1/3/20 22:45	16.8	239.6	9.21	7.264	28.96	0.01
1/3/20 23:00	14.51	231.8	8.6	7.045	29	0.01
1/3/20 23:15	11.39	227.6	8.18	6.887	29	0.03
1/3/20 23:30	12.08	210.7	11.19	6.886	29	0.04
1/3/20 23:45	14	204	7.807	6.836	29	0.02
1/4/20 0:00	14.66	199.5	7.599	6.628	29	0.04
1/4/20 0:15	13.92	222.7	13.61	6.473	29	0.04
1/4/20 0:30	15.04	209.8	9.94	6.164	29	0.04
1/4/20 0:45	18.24	206.6	7.399	5.514	29	0.03
1/4/20 1:00	13.34	200.4	10.24	5.19	29.04	0.03
1/4/20 1:15	11.92	185.2	9.5	5.055	29.04	0.02
1/4/20 1:30	12.18	167.8	9.92	5.058	29.04	0.02
1/4/20 1:45	9.84	175.2	9.77	5.055	29.04	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/4/20 2:00	12.03	173.4	10.22	5.085	29.06	0.01
1/4/20 2:15	13.61	193.4	10.63	5.223	29.06	0.02
1/4/20 2:30	17.28	196.4	9.61	5.33	29.06	0.01
1/4/20 2:45	16.56	197.4	9.18	5.249	29.06	0.01
1/4/20 3:00	15.26	193.6	10.05	5.17	29.08	0
1/4/20 3:15	11.76	191.6	12.62	5.186	29.08	0
1/4/20 3:30	12.29	189	13	5.076	29.08	0
1/4/20 3:45	11.83	180.9	16.76	4.903	29.08	0
1/4/20 4:00	13.3	196.4	9.9	4.921	29.13	0
1/4/20 4:15	16.11	191.1	9.88	4.874	29.13	0
1/4/20 4:30	15.08	196.8	8.98	4.874	29.13	0
1/4/20 4:45	11.47	189.3	11.79	4.751	29.13	0
1/4/20 5:00	10.35	187.1	10.33	4.584	29.18	0
1/4/20 5:15	11.53	181.6	10.57	4.267	29.18	0
1/4/20 5:30	12.04	181.1	11.12	4.033	29.18	0
1/4/20 5:45	12.34	189.7	11.03	4.124	29.18	0
1/4/20 6:00	9.41	185.7	15.22	3.963	29.24	0
1/4/20 6:15	11.53	190.2	12.14	3.906	29.24	0
1/4/20 6:30	13.23	198.1	9.86	3.867	29.24	0
1/4/20 6:45	11.65	201.1	8.75	3.865	29.24	0
1/4/20 7:00	13.19	193.2	8.54	3.805	29.28	0
1/4/20 7:15	16.5	198	6.808	3.741	29.28	0
1/4/20 7:30	16.42	199.1	6.501	3.8	29.28	0
1/4/20 7:45	13.66	193.3	9.33	3.84	29.28	0
1/4/20 8:00	14.03	197.8	9.74	3.879	29.33	0
1/4/20 8:15	18.27	203.6	8	4.026	29.33	0
1/4/20 8:30	19.09	204.8	7.614	4.093	29.33	0
1/4/20 8:45	18.04	207.7	8.23	4.087	29.33	0
1/4/20 9:00	16.77	203.8	10.38	4.061	29.38	0
1/4/20 9:15	12.97	185.3	11.33	3.901	29.38	0
1/4/20 9:30	11.17	184.2	13.55	3.835	29.38	0
1/4/20 9:45	15.52	195.9	10.7	3.923	29.38	0
1/4/20 10:00	14.04	199.4	8.61	3.938	29.42	0
1/4/20 10:15	12.62	201.4	10.55	4.301	29.42	0
1/4/20 10:30	11.39	194.4	8.04	4.136	29.42	0
1/4/20 10:45	10.92	185.5	12.02	4.341	29.42	0
1/4/20 11:00	11.75	187.6	13.92	4.581	29.45	0
1/4/20 11:15	10.95	187.7	14.91	4.372	29.45	0.01
1/4/20 11:30	9.65	179.1	15.19	4.372	29.45	0
1/4/20 11:45	10.3	191	8.46	4.511	29.45	0
1/4/20 12:00	9.34	179.5	12.8	4.715	29.44	0
1/4/20 12:15	9.95	186.9	10.97	5.12	29.44	0
1/4/20 12:30	10.33	196.6	9.49	5.099	29.44	0
1/4/20 12:45	11.03	207.2	11.74	5.031	29.44	0.01
1/4/20 13:00	11.33	189.8	9.08	5.101	29.46	0
1/4/20 13:15	11.01	189.4	7.846	5.175	29.46	0
1/4/20 13:30	13.57	192.7	9.61	5.483	29.46	0
1/4/20 13:45	15.12	195.7	10.81	5.576	29.46	0
1/4/20 14:00	12.61	186.1	12.07	5.189	29.5	0
1/4/20 14:15	10.68	174.5	13.06	5.09	29.5	0
1/4/20 14:30	9.5	183.7	10.81	5.272	29.5	0
1/4/20 14:45	12.96	183.6	13.71	5.459	29.5	0
1/4/20 15:00	14.27	191.8	11.22	5.653	29.51	0
1/4/20 15:15	13.81	187.7	12.53	5.467	29.51	0
1/4/20 15:30	12.34	180.3	13.14	5.076	29.51	0
1/4/20 15:45	8.78	160.4	12.59	4.61	29.51	0.01
1/4/20 16:00	6.961	122.2	9.23	4.562	29.51	0
1/4/20 16:15	8.39	134.6	9.56	4.344	29.51	0
1/4/20 16:30	8.47	140.9	10.69	4.417	29.51	0
1/4/20 16:45	8.66	135.2	9.4	4.609	29.51	0
1/4/20 17:00	7.883	146.3	13.1	4.684	29.51	0
1/4/20 17:15	9.58	157.1	8.38	4.776	29.51	0
1/4/20 17:30	9.81	152.4	7.867	4.788	29.51	0
1/4/20 17:45	9.17	154.3	7.789	4.741	29.51	0
1/4/20 18:00	9.14	153.6	6.945	4.76	29.5	0
1/4/20 18:15	9.55	153.4	8.82	4.977	29.5	0
1/4/20 18:30	8.65	158.7	8.87	5.047	29.5	0
1/4/20 18:45	7.674	156.9	6.627	4.988	29.5	0
1/4/20 19:00	7.329	162.4	9.47	5.018	29.52	0
1/4/20 19:15	8.17	174	12.53	5.162	29.52	0
1/4/20 19:30	8.92	163.4	9.99	5.249	29.52	0
1/4/20 19:45	8.21	158.2	7.753	5.241	29.52	0
1/4/20 20:00	8.2	158.7	7.314	5.174	29.52	0
1/4/20 20:15	6.953	157.5	6.829	5.009	29.52	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/4/20 20:30	6.312	153.6	5.721	5.027	29.52	0
1/4/20 20:45	7.493	156.7	6.126	5.182	29.52	0
1/4/20 21:00	8.23	157.5	5.342	5.109	29.52	0
1/4/20 21:15	6.801	149.6	5.665	5.254	29.52	0
1/4/20 21:30	5.332	147.6	7.4	5.343	29.52	0
1/4/20 21:45	6.318	150.9	6.501	5.312	29.52	0
1/4/20 22:00	7.708	153.9	7.268	5.385	29.52	0
1/4/20 22:15	7.059	152.1	7.01	5.399	29.52	0
1/4/20 22:30	7.536	151.4	7.83	5.618	29.52	0
1/4/20 22:45	8.23	154.3	6.772	5.776	29.52	0
1/4/20 23:00	8.68	157.8	6.913	5.852	29.51	0
1/4/20 23:15	7.239	153.9	7.268	5.727	29.51	0
1/4/20 23:30	8.43	157.6	5.437	5.776	29.51	0
1/4/20 23:45	8.11	152	7.522	5.88	29.51	0
1/5/20 0:00	8.56	154.1	6.148	5.779	29.46	0
1/5/20 0:15	7.803	152.9	6.577	5.849	29.46	0
1/5/20 0:30	7.307	158.2	7.626	5.719	29.46	0
1/5/20 0:45	7.764	160.6	7.3	5.595	29.46	0
1/5/20 1:00	6.645	154.4	8.41	5.537	29.44	0
1/5/20 1:15	6.432	153.6	14.9	5.504	29.44	0
1/5/20 1:30	6.28	140.9	11.43	5.206	29.44	0
1/5/20 1:45	6.728	144.6	11.58	5.362	29.44	0
1/5/20 2:00	7.43	162.1	15.55	5.058	29.45	0.01
1/5/20 2:15	8.45	141.6	10.64	5.184	29.45	0
1/5/20 2:30	9.83	136.1	8.17	5.428	29.45	0
1/5/20 2:45	8.8	141.1	8.65	5.462	29.45	0
1/5/20 3:00	8.22	144.8	8.48	5.431	29.44	0
1/5/20 3:15	8.4	141.7	9.33	5.654	29.44	0
1/5/20 3:30	8.61	148.2	9.35	5.607	29.44	0
1/5/20 3:45	7.044	173.8	13.3	5.307	29.44	0
1/5/20 4:00	6.96	166.5	8.86	4.933	29.43	0
1/5/20 4:15	7.621	149.7	10.77	4.869	29.43	0
1/5/20 4:30	8.75	146.2	10.14	5.034	29.43	0
1/5/20 4:45	7.682	163.2	10.58	4.892	29.43	0
1/5/20 5:00	7.569	154.4	10.6	4.609	29.4	0.01
1/5/20 5:15	7.223	136.9	10.62	4.623	29.4	0
1/5/20 5:30	7.991	135.3	8.09	4.614	29.4	0
1/5/20 5:45	9.2	144.7	10.04	4.563	29.4	0.01
1/5/20 6:00	9.91	158.5	12.17	4.369	29.38	0
1/5/20 6:15	8.57	150.4	11.15	4.157	29.38	0
1/5/20 6:30	10.28	135.9	8.59	4.3	29.38	0
1/5/20 6:45	10.42	140.2	8.02	4.489	29.38	0
1/5/20 7:00	11.34	136	9.16	4.805	29.35	0
1/5/20 7:15	10.29	139.8	7.859	4.894	29.35	0
1/5/20 7:30	9.98	139.8	8.99	4.947	29.35	0
1/5/20 7:45	10.31	140.7	9.12	5.145	29.35	0
1/5/20 8:00	10.98	139.6	9.04	5.292	29.31	0
1/5/20 8:15	8.86	127.8	9.22	5.365	29.31	0
1/5/20 8:30	10.14	148.1	11.03	5.573	29.31	0
1/5/20 8:45	13.71	140.8	9.41	5.603	29.31	0
1/5/20 9:00	12.98	139.8	8.77	5.4	29.29	0
1/5/20 9:15	11.73	145.8	10.26	5.364	29.29	0
1/5/20 9:30	10.89	162.2	14.73	5.092	29.29	0.01
1/5/20 9:45	11.16	151.8	11.01	5.064	29.29	0.03
1/5/20 10:00	10.72	143.3	12.35	4.947	29.28	0.02
1/5/20 10:15	9.92	134.6	11.56	4.701	29.28	0.01
1/5/20 10:30	9.87	151.1	11.01	4.699	29.28	0
1/5/20 10:45	9.25	147	10.18	4.693	29.28	0
1/5/20 11:00	9.17	168.6	10.51	4.393	29.31	0.02
1/5/20 11:15	12.49	198.4	13.53	4.603	29.31	0.02
1/5/20 11:30	16.46	198.6	10.44	5.002	29.31	0
1/5/20 11:45	16.82	191.9	9.2	4.924	29.31	0
1/5/20 12:00	17.5	187.4	10.01	4.918	29.32	0
1/5/20 12:15	20.01	189.5	10.5	5.088	29.32	0
1/5/20 12:30	18.54	186.7	12.68	5.44	29.32	0
1/5/20 12:45	17.79	197.6	10.38	5.62	29.32	0
1/5/20 13:00	19.66	205.7	11.28	5.87	29.37	0
1/5/20 13:15	15.74	193.4	10.68	6.189	29.37	0
1/5/20 13:30	16.78	197.3	12.44	6.758	29.37	0
1/5/20 13:45	20.31	199.3	11.61	6.756	29.37	0
1/5/20 14:00	19.85	202.9	8.86	6.786	29.38	0
1/5/20 14:15	19.22	212.4	8.57	6.473	29.38	0
1/5/20 14:30	17.17	220.5	11.71	6.442	29.38	0
1/5/20 14:45	18.2	225.6	10.45	6.36	29.38	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/5/20 15:00	16.71	227.6	9.85	6.339	29.45	0
1/5/20 15:15	12.79	234.4	10.75	6.335	29.45	0
1/5/20 15:30	13.48	228.9	14.7	6.142	29.45	0
1/5/20 15:45	9.84	229.2	11.34	6.102	29.45	0
1/5/20 16:00	12.53	231.6	12.21	6.082	29.46	0
1/5/20 16:15	10.35	228	11.54	5.914	29.46	0
1/5/20 16:30	9.1	224.1	18.17	5.791	29.46	0
1/5/20 16:45	10.75	215	12.46	5.662	29.46	0
1/5/20 17:00	11.22	218	14.06	5.578	29.5	0
1/5/20 17:15	11.99	205.6	10.38	5.397	29.5	0
1/5/20 17:30	11.78	201.1	11.59	5.228	29.5	0
1/5/20 17:45	10.36	198.3	13.62	5.104	29.5	0
1/5/20 18:00	10.94	190.2	14.39	4.987	29.51	0
1/5/20 18:15	11.07	198.1	12.86	4.991	29.51	0
1/5/20 18:30	9.72	188.8	10.79	4.987	29.51	0
1/5/20 18:45	11.59	192.9	11.26	4.981	29.51	0
1/5/20 19:00	13.21	193.9	10.98	4.716	29.52	0
1/5/20 19:15	15.28	200.1	8.1	4.492	29.52	0
1/5/20 19:30	13.13	198.2	8.8	4.403	29.52	0
1/5/20 19:45	13.17	198.1	7.71	4.321	29.52	0.01
1/5/20 20:00	12.6	199.1	7.427	4.068	29.53	0
1/5/20 20:15	9.77	190.1	9.44	3.952	29.53	0
1/5/20 20:30	9.18	178.5	13.39	3.828	29.53	0
1/5/20 20:45	9.03	160.7	9	3.687	29.53	0
1/5/20 21:00	8.33	152.5	7.38	3.642	29.54	0
1/5/20 21:15	8.69	159.4	8.42	3.645	29.54	0
1/5/20 21:30	8.55	162.6	10.59	3.673	29.54	0.01
1/5/20 21:45	7.053	176.2	11.55	3.81	29.54	0
1/5/20 22:00	9.69	179.8	8.79	4.149	29.54	0
1/5/20 22:15	10.52	188.8	10.28	4.413	29.54	0
1/5/20 22:30	11.51	192.6	8.95	4.584	29.54	0
1/5/20 22:45	11.69	197.4	7.928	4.528	29.54	0
1/5/20 23:00	13.13	195.3	8.3	4.477	29.53	0.01
1/5/20 23:15	11.51	188.7	9.39	4.378	29.53	0
1/5/20 23:30	8.55	169.8	14.56	4.237	29.53	0
1/5/20 23:45	7.532	153.9	8.1	4.035	29.53	0.01
1/6/20 0:00	7.89	156.6	8.19	3.942	29.51	0
1/6/20 0:15	8.26	158.9	8.04	3.925	29.51	0
1/6/20 0:30	6.608	146.6	7.78	3.834	29.51	0.01
1/6/20 0:45	6.429	144	7.81	3.808	29.51	0
1/6/20 1:00	6.356	139.9	6.84	3.714	29.48	0
1/6/20 1:15	6.943	141.2	7.323	3.72	29.48	0.01
1/6/20 1:30	6.834	143.7	7.465	3.741	29.48	0
1/6/20 1:45	7.036	144.5	7.738	3.812	29.48	0.01
1/6/20 2:00	8.2	153.1	6.299	3.876	29.44	0
1/6/20 2:15	6.12	145	9.13	3.919	29.44	0.01
1/6/20 2:30	5.549	137.5	6.428	3.915	29.44	0
1/6/20 2:45	6.803	141.1	7.251	4.052	29.44	0.01
1/6/20 3:00	7.509	133.4	9.76	4.289	29.42	0
1/6/20 3:15	7.547	134.3	7.829	4.373	29.42	0
1/6/20 3:30	8.79	135.7	8.23	4.73	29.42	0
1/6/20 3:45	8.76	143	9.94	5.213	29.42	0
1/6/20 4:00	8.59	147.8	9.28	5.197	29.39	0
1/6/20 4:15	7.768	146.5	9.96	5.158	29.39	0.01
1/6/20 4:30	8.83	153.7	7.951	5.24	29.39	0
1/6/20 4:45	7.116	143.3	9.22	5.177	29.39	0.01
1/6/20 5:00	9.96	159	10.37	5.325	29.35	0.01
1/6/20 5:15	8.95	176	9.81	5.481	29.35	0
1/6/20 5:30	10.17	173.1	10.62	5.582	29.35	0.01
1/6/20 5:45	10.22	175.3	10.67	5.684	29.35	0
1/6/20 6:00	11.85	180.4	9.25	6.023	29.32	0
1/6/20 6:15	11.67	168	8.54	5.998	29.32	0.01
1/6/20 6:30	11.56	169.4	9.14	6.058	29.32	0
1/6/20 6:45	12.17	168.3	7.774	6.104	29.32	0.01
1/6/20 7:00	12.1	161.5	8.1	6.06	29.29	0.01
1/6/20 7:15	14.83	160.1	8.53	6.083	29.29	0.01
1/6/20 7:30	12.8	166.2	8.9	6.129	29.29	0.01
1/6/20 7:45	12.26	169.2	8.9	6.239	29.29	0.01
1/6/20 8:00	13.88	167.2	8.41	6.309	29.29	0
1/6/20 8:15	13.59	173	9.46	6.554	29.29	0
1/6/20 8:30	13.74	178.2	9.14	6.584	29.29	0.01
1/6/20 8:45	14.13	177.8	11.55	6.702	29.29	0
1/6/20 9:00	14.29	177.9	10.05	6.838	29.28	0.01
1/6/20 9:15	14.22	176	9.12	6.914	29.28	0.02

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/6/20 9:30	15.65	179.7	8.49	7.048	29.28	0.01
1/6/20 9:45	15.78	179	9.62	7.075	29.28	0.01
1/6/20 10:00	18.6	190.6	9.71	7.312	29.28	0.01
1/6/20 10:15	18.44	189.1	9.41	7.552	29.28	0.02
1/6/20 10:30	18	192.7	10.12	7.574	29.28	0.02
1/6/20 10:45	15.57	184.8	9.62	7.488	29.28	0.01
1/6/20 11:00	17.85	191.7	9.5	7.586	29.29	0.02
1/6/20 11:15	17.57	189.8	9.28	7.659	29.29	0.01
1/6/20 11:30	17.92	187.6	8.24	7.707	29.29	0.02
1/6/20 11:45	15.5	187.4	9.37	7.688	29.29	0.02
1/6/20 12:00	14.92	181.8	10.25	7.732	29.28	0.02
1/6/20 12:15	18.99	192.4	9.3	7.836	29.28	0.01
1/6/20 12:30	17.71	191.2	8.61	7.804	29.28	0.01
1/6/20 12:45	17.07	188	10.26	7.8	29.28	0.01
1/6/20 13:00	15.65	190.1	8.39	7.713	29.25	0.01
1/6/20 13:15	16.56	188.8	8.69	7.807	29.25	0
1/6/20 13:30	16.74	193.1	8.08	7.904	29.25	0.01
1/6/20 13:45	16.47	195	8.55	7.941	29.25	0.01
1/6/20 14:00	15.24	192.9	7.501	7.965	29.27	0.01
1/6/20 14:15	15.71	193.2	8.66	8.04	29.27	0.01
1/6/20 14:30	16.43	194.4	8.67	8.15	29.27	0.01
1/6/20 14:45	13.23	196.3	9.23	8.18	29.27	0.01
1/6/20 15:00	13.61	191.4	10.58	8.23	29.27	0.01
1/6/20 15:15	15.81	190.2	10.29	8.31	29.27	0.01
1/6/20 15:30	15.02	192.6	10.44	8.32	29.27	0.01
1/6/20 15:45	16.93	193.1	9.66	8.39	29.27	0.01
1/6/20 16:00	17.44	192.2	8.21	8.45	29.26	0.01
1/6/20 16:15	16.48	189.7	8.51	8.45	29.26	0.03
1/6/20 16:30	14.22	190.1	10.83	8.43	29.26	0.01
1/6/20 16:45	14.64	194.5	9.29	8.45	29.26	0.02
1/6/20 17:00	15.82	192.4	9.35	8.52	29.27	0
1/6/20 17:15	16.38	189.9	8.71	8.54	29.27	0.01
1/6/20 17:30	16.47	187.4	9.01	8.57	29.27	0
1/6/20 17:45	17.21	191.5	8.35	8.62	29.27	0.01
1/6/20 18:00	16.6	189.9	9.4	8.63	29.29	0.01
1/6/20 18:15	16.07	191.4	9.2	8.61	29.29	0.03
1/6/20 18:30	15.5	193.8	8.03	8.63	29.29	0.02
1/6/20 18:45	15.52	193.3	8.8	8.65	29.29	0.02
1/6/20 19:00	14.56	196.4	6.958	8.69	29.29	0.02
1/6/20 19:15	14.95	196.6	8.56	8.74	29.29	0.03
1/6/20 19:30	14.75	198.6	7.99	8.78	29.29	0.01
1/6/20 19:45	16.23	194.8	8.21	8.76	29.29	0.01
1/6/20 20:00	14.64	189.6	9.45	8.69	29.28	0.02
1/6/20 20:15	15.73	190.9	8.71	8.59	29.28	0.01
1/6/20 20:30	15.18	190	8.56	8.53	29.28	0.02
1/6/20 20:45	15.88	191.1	8.13	8.51	29.28	0.03
1/6/20 21:00	15.91	190.1	8.53	8.48	29.26	0.02
1/6/20 21:15	15.29	189.4	8.57	8.48	29.26	0.02
1/6/20 21:30	15.59	189.8	8.88	8.53	29.26	0.03
1/6/20 21:45	14.15	184.2	8.59	8.54	29.26	0.03
1/6/20 22:00	14.62	184.9	8.25	8.55	29.25	0.02
1/6/20 22:15	14.92	183.6	8.67	8.6	29.25	0.04
1/6/20 22:30	12.47	182.8	9.39	8.61	29.25	0.02
1/6/20 22:45	11.68	170.7	10.29	8.7	29.25	0.01
1/6/20 23:00	12.43	167.4	8.52	8.75	29.27	0
1/6/20 23:15	12.77	169.3	8.38	8.84	29.27	0.02
1/6/20 23:30	13.31	168.8	7.207	8.83	29.27	0.02
1/6/20 23:45	13.96	166.7	6.408	8.85	29.27	0.01
1/7/20 0:00	12.84	165.5	7.209	8.79	29.25	0.01
1/7/20 0:15	13.75	162.3	6.696	8.79	29.25	0.02
1/7/20 0:30	13.29	164.2	7.001	8.8	29.25	0.02
1/7/20 0:45	12.92	167.3	8.17	8.82	29.25	0.03
1/7/20 1:00	11.44	164.6	8.4	8.75	29.23	0.03
1/7/20 1:15	9.83	155.8	8.09	8.63	29.23	0.02
1/7/20 1:30	10.34	159.7	7.943	8.66	29.23	0.03
1/7/20 1:45	9.38	157.7	7.2	8.6	29.23	0.02
1/7/20 2:00	8.81	152.9	8.12	8.6	29.2	0.02
1/7/20 2:15	7.464	149.6	8.08	8.51	29.2	0.03
1/7/20 2:30	7.673	149.1	8.92	8.52	29.2	0
1/7/20 2:45	8.06	149.8	10.28	8.52	29.2	0.01
1/7/20 3:00	9.25	155.9	10.83	8.64	29.19	0.01
1/7/20 3:15	8.3	156.2	9.51	8.63	29.19	0
1/7/20 3:30	7.909	159.1	10.77	8.73	29.19	0.01
1/7/20 3:45	8.05	162.5	9.85	8.75	29.19	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/7/20 4:00	7.078	155.6	11.42	8.7	29.18	0.01
1/7/20 4:15	5.692	144.8	8.6	8.54	29.18	0
1/7/20 4:30	6.299	154.8	12.12	8.67	29.18	0
1/7/20 4:45	8.18	172.8	14.72	8.92	29.18	0
1/7/20 5:00	7.382	186.5	8.75	8.92	29.18	0.01
1/7/20 5:15	7.658	193.1	9.54	8.78	29.18	0.03
1/7/20 5:30	6.902	198.9	8.29	8.58	29.18	0.04
1/7/20 5:45	7.046	184.8	9.75	8.5	29.18	0.03
1/7/20 6:00	6.677	170	16.44	8.41	29.16	0.02
1/7/20 6:15	5.851	156.5	13.96	8.26	29.16	0
1/7/20 6:30	9.17	163.6	8.87	8.4	29.16	0.01
1/7/20 6:45	7.907	153.1	8.09	8.28	29.16	0
1/7/20 7:00	5.96	136.1	7.638	8.17	29.12	0
1/7/20 7:15	5.462	127.7	7.073	8.16	29.12	0.01
1/7/20 7:30	6.963	121.6	7.185	8.19	29.12	0
1/7/20 7:45	6.924	120.6	9.93	8.35	29.12	0
1/7/20 8:00	9.12	120	8.53	8.48	29.12	0
1/7/20 8:15	10.12	128.6	8.81	8.96	29.12	0
1/7/20 8:30	8.63	130.5	8.53	9.01	29.12	0
1/7/20 8:45	9.1	137	8.26	9.08	29.12	0
1/7/20 9:00	8.38	143.1	7.05	9.12	29.11	0
1/7/20 9:15	8.9	139.9	7.558	9.1	29.11	0.01
1/7/20 9:30	8.88	140.8	7.681	9.3	29.11	0
1/7/20 9:45	10.93	156.1	13.7	9.6	29.11	0
1/7/20 10:00	11.56	164.1	8.03	9.64	29.08	0
1/7/20 10:15	10.61	158.9	6.525	9.37	29.08	0
1/7/20 10:30	10.19	155.9	6.615	9.36	29.08	0
1/7/20 10:45	9.15	156	5.409	9.53	29.08	0
1/7/20 11:00	7.179	150.6	7.549	9.72	29.03	0
1/7/20 11:15	7.565	149.4	6.921	9.95	29.03	0
1/7/20 11:30	7.863	153.1	9.68	9.98	29.03	0
1/7/20 11:45	7.228	149.2	8.49	10	29.03	0
1/7/20 12:00	8.47	161.3	14.02	10.18	28.99	0
1/7/20 12:15	12.43	186.2	8.75	10.56	28.99	0
1/7/20 12:30	15.99	187	8.1	10.85	28.99	0
1/7/20 12:45	18.33	192.7	8.33	11.01	28.99	0
1/7/20 13:00	17.51	192.4	7.498	11.13	28.94	0
1/7/20 13:15	18.55	192.4	8.26	11.37	28.94	0
1/7/20 13:30	18.86	195.6	8.7	11.44	28.94	0
1/7/20 13:45	19.7	196	9.54	11.61	28.94	0
1/7/20 14:00	16.27	196.4	9.72	11.65	28.91	0
1/7/20 14:15	14.61	194.6	9.53	11.9	28.91	0
1/7/20 14:30	13.67	194.3	9.4	11.88	28.91	0
1/7/20 14:45	14.5	191	10.43	11.85	28.91	0
1/7/20 15:00	13.53	193.9	8.46	11.72	28.91	0
1/7/20 15:15	10.69	184.9	8.57	11.54	28.91	0
1/7/20 15:30	9.13	188.1	8.01	11.22	28.91	0
1/7/20 15:45	7.814	184.5	7.89	10.82	28.91	0
1/7/20 16:00	8.54	193.4	10.38	10.99	28.89	0
1/7/20 16:15	10.55	210.4	8.88	10.78	28.89	0
1/7/20 16:30	10.9	204.9	8.56	10.62	28.89	0
1/7/20 16:45	8.02	207.7	6.217	10.29	28.89	0
1/7/20 17:00	7.846	211.2	10.69	10.03	28.88	0.01
1/7/20 17:15	17.68	217.9	7.876	9.68	28.88	0.01
1/7/20 17:30	14.55	208.2	8.48	9.17	28.88	0.01
1/7/20 17:45	10.38	195.3	8.86	8.8	28.88	0.01
1/7/20 18:00	6.009	170.3	9.31	8.25	28.89	0.03
1/7/20 18:15	9.34	163.6	7.861	8.17	28.89	0
1/7/20 18:30	10.21	163.8	6.956	8.18	28.89	0.01
1/7/20 18:45	7.741	170.9	7.597	8.12	28.89	0.01
1/7/20 19:00	7.323	177.3	9.26	8.05	28.88	0.01
1/7/20 19:15	9.08	164.9	8.56	7.892	28.88	0.01
1/7/20 19:30	12.33	184	9.26	8.04	28.88	0
1/7/20 19:45	13.17	193.6	9.27	8.04	28.88	0.01
1/7/20 20:00	14.04	200.8	7.513	7.963	28.86	0.01
1/7/20 20:15	15.16	204.5	9.37	7.836	28.86	0.01
1/7/20 20:30	14.52	212.1	8.72	7.608	28.86	0.01
1/7/20 20:45	12.47	210.7	10.73	7.269	28.86	0.02
1/7/20 21:00	13.55	200	9.03	7.174	28.89	0.02
1/7/20 21:15	11.73	189.9	8.85	7.049	28.89	0
1/7/20 21:30	11.47	172.1	8.89	7.016	28.89	0
1/7/20 21:45	11.91	181.6	9.2	7.114	28.89	0
1/7/20 22:00	13.48	183.3	9.31	7.113	28.89	0
1/7/20 22:15	14.68	185.1	9.98	7.118	28.89	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/7/20 22:30	12.7	188	10.82	7.104	28.89	0
1/7/20 22:45	14.34	197.7	8.56	7.078	28.89	0
1/7/20 23:00	15.91	198.4	9.62	7.133	28.89	0
1/7/20 23:15	13.62	190.4	9.58	6.9	28.89	0
1/7/20 23:30	12.21	189.7	11.73	6.845	28.89	0
1/7/20 23:45	13.32	177.2	11.04	6.681	28.89	0
1/8/20 0:00	11.07	194.2	11.56	6.59	28.92	0
1/8/20 0:15	10.17	213.8	11.91	6.527	28.92	0
1/8/20 0:30	12.12	220.9	10.55	6.441	28.92	0
1/8/20 0:45	14.16	221.2	9.79	6.238	28.92	0
1/8/20 1:00	14.84	217.6	8.8	6.083	28.91	0
1/8/20 1:15	14.5	216.3	9.43	5.964	28.91	0
1/8/20 1:30	13.41	210.9	11.12	5.788	28.91	0
1/8/20 1:45	13.89	209.9	8.53	5.677	28.91	0
1/8/20 2:00	13.65	208.2	8.69	5.579	28.93	0
1/8/20 2:15	15.71	206.4	8.64	5.496	28.93	0
1/8/20 2:30	16.09	206.5	8.64	5.351	28.93	0
1/8/20 2:45	17.25	207.8	9.53	5.382	28.93	0
1/8/20 3:00	15.83	209.9	8.94	5.288	28.99	0
1/8/20 3:15	14.56	200	10.77	5.184	28.99	0
1/8/20 3:30	14.26	210.7	11.97	5.039	28.99	0
1/8/20 3:45	15.3	211.1	9.42	4.905	28.99	0
1/8/20 4:00	16.32	208.3	9.49	4.86	28.99	0
1/8/20 4:15	14.55	210	10.94	4.802	28.99	0
1/8/20 4:30	14.83	199	8.78	4.764	28.99	0
1/8/20 4:45	14.67	201.5	8.85	4.727	28.99	0
1/8/20 5:00	15.22	201.8	9.68	4.697	28.97	0
1/8/20 5:15	13.27	190.1	9.98	4.523	28.97	0
1/8/20 5:30	12.22	193.9	9.83	4.308	28.97	0
1/8/20 5:45	12.04	191.1	9.01	4.23	28.97	0
1/8/20 6:00	12.22	189.5	8.47	4.175	28.97	0
1/8/20 6:15	12.92	200.3	7.598	4.153	28.97	0
1/8/20 6:30	11.88	197	9.36	4.151	28.97	0
1/8/20 6:45	14.02	187.1	8.57	4.099	28.97	0
1/8/20 7:00	11.32	192.9	9.77	4.042	28.99	0
1/8/20 7:15	10.98	197.1	12.53	4.004	28.99	0
1/8/20 7:30	11.41	200.6	11.55	3.971	28.99	0
1/8/20 7:45	13	204.3	8.34	3.893	28.99	0
1/8/20 8:00	14.51	209.2	7.659	3.837	29	0
1/8/20 8:15	14.28	206.7	7.329	3.821	29	0
1/8/20 8:30	15.07	210	8.81	3.865	29	0
1/8/20 8:45	14.54	218.1	9.32	3.954	29	0
1/8/20 9:00	12.05	209.2	8.7	3.974	29	0
1/8/20 9:15	11.87	207.4	10	3.983	29	0
1/8/20 9:30	13.65	206.9	9.1	4.042	29	0
1/8/20 9:45	14.28	212.5	9.25	4.17	29	0
1/8/20 10:00	11.66	207.9	10.48	4.278	29.02	0
1/8/20 10:15	15.56	219.2	9.62	4.429	29.02	0
1/8/20 10:30	11.13	221	10.33	4.52	29.02	0
1/8/20 10:45	11.57	212.4	11.18	4.584	29.02	0
1/8/20 11:00	12.65	221.8	10.93	4.631	29.04	0
1/8/20 11:15	14.17	219.3	10.27	4.707	29.04	0
1/8/20 11:30	12.08	227.8	11.09	4.689	29.04	0
1/8/20 11:45	11.07	226.8	10.1	4.671	29.04	0
1/8/20 12:00	12.92	224.9	9.06	4.679	29.04	0
1/8/20 12:15	14.08	223.5	9.18	4.698	29.04	0
1/8/20 12:30	12.77	232.4	7.659	4.662	29.04	0
1/8/20 12:45	11.11	233.8	11.51	4.703	29.04	0
1/8/20 13:00	11.39	233.1	10.58	4.714	29.04	0
1/8/20 13:15	11.82	228	9.93	4.749	29.04	0
1/8/20 13:30	12.33	229	8.74	4.726	29.04	0
1/8/20 13:45	12.15	227.7	9.21	4.704	29.04	0
1/8/20 14:00	10.59	230.7	10.8	4.693	29.02	0
1/8/20 14:15	12.29	216.9	10.64	4.554	29.02	0
1/8/20 14:30	10.52	245.4	40.81	4.379	29.02	0
1/8/20 14:45	10.18	326	20.35	1.676	29.02	0
1/8/20 15:00	4.085	179.3	59.9	1.285	29.04	0
1/8/20 15:15	3.944	221.5	50.2	1.258	29.04	0
1/8/20 15:30	7.506	237.4	11.24	1.584	29.04	0
1/8/20 15:45	5.016	266.7	46.01	1.189	29.04	0.01
1/8/20 16:00	2.646	9.43	13.51	0.624	29.07	0
1/8/20 16:15	2.16	60.37	25.96	0.336	29.07	0.01
1/8/20 16:30	2.22	128.8	9.71	0.222	29.07	0
1/8/20 16:45	2.771	139.3	22.1	0.203	29.07	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/8/20 17:00	4.221	84.4	7.986	0.235	29.04	0
1/8/20 17:15	4.199	75.85	8.45	0.217	29.04	0
1/8/20 17:30	3.981	52.17	8.72	0.469	29.04	0.01
1/8/20 17:45	3.179	189.3	79.89	0.627	29.04	0
1/8/20 18:00	3.319	202.2	25.59	0.595	29.06	0
1/8/20 18:15	4.685	193.5	6.842	0.484	29.06	0
1/8/20 18:30	3.022	198.3	13.39	0.35	29.06	0
1/8/20 18:45	2.041	200.3	23.25	0.213	29.06	0
1/8/20 19:00	3.815	214.5	6.145	0.093	29.06	0
1/8/20 19:15	2.547	207.2	5.864	0.102	29.06	0
1/8/20 19:30	2.215	318.4	47.8	0.07	29.06	0
1/8/20 19:45	2.901	17.86	32.34	-0.084	29.06	0
1/8/20 20:00	6.532	43.66	7.982	0.137	29.08	0
1/8/20 20:15	7.447	36.44	7.861	0.298	29.08	0
1/8/20 20:30	6.305	31.31	6.177	0.512	29.08	0.01
1/8/20 20:45	4.721	11.56	10.79	0.702	29.08	0
1/8/20 21:00	4.095	25.39	20.09	0.874	29.09	0
1/8/20 21:15	5.365	32.62	11.52	0.86	29.09	0
1/8/20 21:30	2.45	35.03	13.49	0.73	29.09	0
1/8/20 21:45	2.022	132.5	35.01	0.298	29.09	0
1/8/20 22:00	2.936	167.6	5.635	0.251	29.11	0
1/8/20 22:15	2.711	151.5	7.894	0.355	29.11	0
1/8/20 22:30	3.399	179.9	12.78	0.684	29.11	0
1/8/20 22:45	3.667	201.5	7.43	0.587	29.11	0
1/8/20 23:00	4.138	250.2	84.1	0.263	29.13	0
1/8/20 23:15	2.712	303.4	27.25	-0.256	29.13	0
1/8/20 23:30	1.681	319.8	60.65	-0.359	29.13	0
1/8/20 23:45	2.525	252.5	44.54	-0.106	29.13	0
1/9/20 0:00	1.573	238	35.2	0.263	29.15	0
1/9/20 0:15	2.151	164.8	21.92	-0.376	29.15	0
1/9/20 0:30	3.254	210.2	4.069	-0.17	29.15	0
1/9/20 0:45	1.02	236.2	10.71	-0.27	29.15	0
1/9/20 1:00	0.128	41.6	0.426	-0.341	29.15	0
1/9/20 1:15	1.035	47.03	5.094	-0.731	29.15	0
1/9/20 1:30	1.375	40.32	10.04	-0.497	29.15	0
1/9/20 1:45	2.612	89.4	34.01	-0.216	29.15	0
1/9/20 2:00	3.081	106.1	7.564	-0.572	29.18	0
1/9/20 2:15	2.917	123	8.26	-0.357	29.18	0
1/9/20 2:30	2.156	160.8	39.88	-0.208	29.18	0
1/9/20 2:45	1.623	202.6	79.53	-0.038	29.18	0
1/9/20 3:00	0.369	126.7	6.86	0.062	29.19	0
1/9/20 3:15	1.05	264.2	31.11	0.035	29.19	0
1/9/20 3:30	0.562	172.2	52.31	0.112	29.19	0
1/9/20 3:45	1.802	116.7	14.8	0.124	29.19	0
1/9/20 4:00	0.522	65.72	2.286	-0.229	29.24	0
1/9/20 4:15	0.993	150.7	8.13	0.292	29.24	0
1/9/20 4:30	1.424	154.6	9.04	0.24	29.24	0
1/9/20 4:45	2.545	137	22.39	0.225	29.24	0
1/9/20 5:00	3.182	115.3	13.27	-0.389	29.22	0
1/9/20 5:15	3.687	152	15.42	-0.214	29.22	0
1/9/20 5:30	5.328	205.4	12.18	-0.794	29.22	0
1/9/20 5:45	4.792	191.3	12.33	-0.708	29.22	0
1/9/20 6:00	4.512	183.5	18.48	-0.538	29.25	0
1/9/20 6:15	4.315	141.5	8.5	-0.339	29.25	0
1/9/20 6:30	3.653	127	5.853	-0.266	29.25	0
1/9/20 6:45	3.991	130	6.446	-0.141	29.25	0
1/9/20 7:00	5.292	145.9	7.364	-0.074	29.27	0
1/9/20 7:15	3.834	147.8	8.44	-0.123	29.27	0
1/9/20 7:30	3.032	140.6	13	-0.205	29.27	0
1/9/20 7:45	1.349	110.8	6.432	-0.197	29.27	0
1/9/20 8:00	2.362	109.9	6.658	-0.094	29.27	0
1/9/20 8:15	2.223	96.8	12.21	-0.133	29.27	0
1/9/20 8:30	2.96	109.4	7.552	-0.089	29.27	0
1/9/20 8:45	2.9	122.8	7.194	0.062	29.27	0
1/9/20 9:00	2.091	119.3	7.202	0.129	29.33	0
1/9/20 9:15	1.47	115.3	9.72	0.171	29.33	0
1/9/20 9:30	2.179	115.2	7.729	0.193	29.33	0
1/9/20 9:45	1.608	116.9	6.508	0.251	29.33	0
1/9/20 10:00	0.582	98.1	7.19	0.286	29.34	0
1/9/20 10:15	0	0	0	0.325	29.34	0
1/9/20 10:30	0	0	0	0.277	29.34	0
1/9/20 10:45	0	0	0	0.439	29.34	0
1/9/20 11:00	0	0	0	0.454	29.35	0
1/9/20 11:15	0	0	0	0.549	29.35	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/9/20 11:30	0	0	0	0.526	29.35	0
1/9/20 11:45	0	0	0	0.508	29.35	0
1/9/20 12:00	0	0	0	0.924	29.36	0
1/9/20 12:15	0	0	0	0.951	29.36	0.01
1/9/20 12:30	0	0	0	1.035	29.36	0
1/9/20 12:45	0.744	169.3	71.86	0.932	29.36	0
1/9/20 13:00	2.699	232.1	10.27	0.918	29.35	0.01
1/9/20 13:15	1.034	167.2	77.41	0.987	29.35	0
1/9/20 13:30	0.694	83.5	1.5	1.044	29.35	0
1/9/20 13:45	0.915	83.9	4.182	1.062	29.35	0.01
1/9/20 14:00	0.618	64.21	14.18	1.053	29.37	0
1/9/20 14:15	0.299	5.191	12.61	1.444	29.37	0
1/9/20 14:30	1.303	15.81	11.31	1.844	29.37	0
1/9/20 14:45	1.746	0.699	21.79	1.704	29.37	0
1/9/20 15:00	1.026	42.9	13.66	1.761	29.37	0
1/9/20 15:15	1.39	141.9	52.98	1.709	29.37	0
1/9/20 15:30	1.359	196	27.2	1.685	29.37	0
1/9/20 15:45	1.1	35.32	57.39	1.694	29.37	0
1/9/20 16:00	1.959	155.8	48.9	1.474	29.38	0
1/9/20 16:15	3.521	198.5	11.7	1.16	29.38	0
1/9/20 16:30	2.92	208.3	9.15	1.135	29.38	0
1/9/20 16:45	1.261	227.3	19.61	1.079	29.38	0
1/9/20 17:00	2.597	213.7	17.53	1.141	29.41	0
1/9/20 17:15	3.934	164.4	13.73	0.858	29.41	0
1/9/20 17:30	3.041	133.5	14.67	0.73	29.41	0
1/9/20 17:45	3.847	109.4	11.62	0.588	29.41	0
1/9/20 18:00	4.926	155.7	12.49	0.288	29.42	0
1/9/20 18:15	3.861	123.8	9.09	0.032	29.42	0
1/9/20 18:30	3.243	132.2	12.89	-0.107	29.42	0
1/9/20 18:45	3.486	144.8	18.89	-0.204	29.42	0
1/9/20 19:00	3.451	153.6	14.48	-0.267	29.4	0
1/9/20 19:15	3.174	142.2	12.35	-0.278	29.4	0
1/9/20 19:30	3.883	135.6	6.276	-0.336	29.4	0
1/9/20 19:45	2.279	129.9	9.01	-0.309	29.4	0
1/9/20 20:00	1.383	143.6	18.54	-0.366	29.4	0
1/9/20 20:15	0.352	83	10.48	-0.45	29.4	0
1/9/20 20:30	1.867	77.51	11.05	-0.474	29.4	0
1/9/20 20:45	1.556	139	45.85	-0.446	29.4	0
1/9/20 21:00	3.064	167.3	6.579	-0.233	29.38	0
1/9/20 21:15	4.717	192.9	10.03	-0.246	29.38	0
1/9/20 21:30	4.813	190.8	9.02	-0.349	29.38	0
1/9/20 21:45	5.962	187.4	10.04	-0.339	29.38	0
1/9/20 22:00	4.815	141.2	19.25	-0.425	29.39	0
1/9/20 22:15	3.991	127.3	6.365	-0.608	29.39	0
1/9/20 22:30	4.491	133	4.767	-0.512	29.39	0
1/9/20 22:45	5.563	140.1	8.2	-0.241	29.39	0
1/9/20 23:00	5.296	143.2	6.335	0.116	29.39	0
1/9/20 23:15	5.662	147.2	8.13	0.661	29.39	0
1/9/20 23:30	5.009	159.1	8.6	0.625	29.39	0
1/9/20 23:45	4.433	149.2	6.766	0.84	29.39	0
1/10/20 0:00	4.86	142.4	5.625	1.064	29.37	0
1/10/20 0:15	4.515	135.6	5.533	1.138	29.37	0
1/10/20 0:30	3.698	132.7	6.39	1.186	29.37	0
1/10/20 0:45	4.612	144.9	6.72	1.187	29.37	0
1/10/20 1:00	5.325	131.4	6.256	1.025	29.35	0
1/10/20 1:15	5.475	132.2	10.2	1.231	29.35	0
1/10/20 1:30	4.807	145.9	11.12	1.302	29.35	0
1/10/20 1:45	5.978	160.7	8.54	1.152	29.35	0
1/10/20 2:00	6.133	152.6	10.05	1.214	29.33	0
1/10/20 2:15	5.174	151	12.27	1.234	29.33	0
1/10/20 2:30	5.731	170.5	22.43	1.165	29.33	0
1/10/20 2:45	6.544	170	23.97	1.331	29.33	0
1/10/20 3:00	6.639	158.3	9.66	1.262	29.3	0.01
1/10/20 3:15	7.436	151.7	6.702	1.358	29.3	0
1/10/20 3:30	7.774	174.6	16.81	1.246	29.3	0
1/10/20 3:45	9.34	156.3	12.36	0.702	29.3	0
1/10/20 4:00	9.23	132.9	10.15	0.415	29.29	0
1/10/20 4:15	10.79	123.4	9.87	0.357	29.29	0
1/10/20 4:30	11.42	125	10.76	0.719	29.29	0
1/10/20 4:45	12.39	136.7	9.31	1.345	29.29	0.01
1/10/20 5:00	13.42	136.5	8.63	1.585	29.21	0.01
1/10/20 5:15	12.77	138.3	9.1	1.641	29.21	0
1/10/20 5:30	12.56	138.2	8.58	1.693	29.21	0.01
1/10/20 5:45	11.34	140.5	9.22	1.603	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/10/20 6:00	11.94	133.9	9.51	1.736	29.19	0.01
1/10/20 6:15	11.41	132.8	8.76	1.75	29.19	0
1/10/20 6:30	12.08	142.2	10.29	1.71	29.19	0
1/10/20 6:45	13.36	137.9	9.89	1.867	29.19	0.01
1/10/20 7:00	12.8	138	9.83	2	29.1	0
1/10/20 7:15	12.64	139.2	9.72	2.258	29.1	0.01
1/10/20 7:30	13.04	139.7	9.08	2.283	29.1	0.01
1/10/20 7:45	12.76	138.2	10.15	2.492	29.1	0.01
1/10/20 8:00	13.53	137.4	10.31	2.578	29.06	0.01
1/10/20 8:15	12.38	133.2	9.17	2.533	29.06	0.02
1/10/20 8:30	12.25	132.4	10.34	2.567	29.06	0.02
1/10/20 8:45	14.77	137.7	10.02	2.571	29.06	0.02
1/10/20 9:00	15.15	139.4	10.31	2.377	29.01	0.03
1/10/20 9:15	14.22	136.1	9.71	2.564	29.01	0.02
1/10/20 9:30	12.94	137.3	9.63	2.729	29.01	0.02
1/10/20 9:45	12.46	137.4	9.03	3.041	29.01	0.01
1/10/20 10:00	10.79	146.8	10.68	3.124	28.98	0.01
1/10/20 10:15	11.08	141.3	9.8	3.253	28.98	0.01
1/10/20 10:30	11.98	144.9	9.58	3.435	28.98	0.01
1/10/20 10:45	12.71	141.7	9.34	3.674	28.98	0
1/10/20 11:00	12.31	138.7	9.3	3.85	28.93	0.02
1/10/20 11:15	12.88	136.4	8.96	4.204	28.93	0
1/10/20 11:30	13.28	137.1	7.498	4.535	28.93	0.01
1/10/20 11:45	12.21	140.5	8.02	4.707	28.93	0.01
1/10/20 12:00	12.39	136	8.23	4.561	28.88	0.01
1/10/20 12:15	12	137.9	8.87	4.862	28.88	0.02
1/10/20 12:30	11.84	140.6	7.574	4.839	28.88	0.02
1/10/20 12:45	10.51	140.7	8.75	4.761	28.88	0.03
1/10/20 13:00	9.21	143.5	9.07	4.817	28.86	0.03
1/10/20 13:15	9.48	144.3	9.74	4.865	28.86	0.02
1/10/20 13:30	8.32	184.8	20.19	4.966	28.86	0.04
1/10/20 13:45	9.85	215.9	10.87	4.755	28.86	0.02
1/10/20 14:00	11.38	174.4	15.01	4.948	28.87	0.02
1/10/20 14:15	14.16	169.8	10.63	5.125	28.87	0
1/10/20 14:30	14.1	179.9	9.78	5.339	28.87	0
1/10/20 14:45	13.23	166.8	8.78	5.28	28.87	0
1/10/20 15:00	10.65	161.5	7.346	5.203	28.86	0.01
1/10/20 15:15	11.81	172.2	14.49	5.514	28.86	0
1/10/20 15:30	10.51	172.9	10.8	5.474	28.86	0.01
1/10/20 15:45	7.297	151.1	13.6	5.196	28.86	0.01
1/10/20 16:00	4.921	136.2	13.26	4.983	28.85	0.03
1/10/20 16:15	3.578	127.3	9.07	4.894	28.85	0.01
1/10/20 16:30	4.39	125.6	10.81	4.833	28.85	0.02
1/10/20 16:45	5.249	150.5	16.03	4.945	28.85	0.03
1/10/20 17:00	8.4	164.3	15.4	5.046	28.84	0.01
1/10/20 17:15	10.03	163.9	8.69	5.002	28.84	0.01
1/10/20 17:30	9.7	154.6	7.848	4.916	28.84	0
1/10/20 17:45	8.53	140.8	9	4.789	28.84	0
1/10/20 18:00	9.69	137.7	9.57	4.835	28.8	0
1/10/20 18:15	10.47	152.6	12.73	5.004	28.8	0.02
1/10/20 18:30	12.09	158.7	7.353	4.962	28.8	0.02
1/10/20 18:45	10	151.2	8.23	4.902	28.8	0.01
1/10/20 19:00	8.49	145.7	7.992	4.909	28.79	0.02
1/10/20 19:15	10.15	155.3	6.573	4.926	28.79	0.03
1/10/20 19:30	11.76	158.5	10.35	5.039	28.79	0.01
1/10/20 19:45	11.86	159.1	6.774	4.992	28.79	0.02
1/10/20 20:00	10.98	160.1	8.13	4.949	28.79	0.02
1/10/20 20:15	11.41	164	7.896	5.07	28.79	0
1/10/20 20:30	11.87	166.2	7.263	5.215	28.79	0.01
1/10/20 20:45	12.74	175.2	10.1	5.387	28.79	0.01
1/10/20 21:00	11.83	176.4	8.8	5.38	28.8	0
1/10/20 21:15	10.25	173.3	11.8	5.363	28.8	0.01
1/10/20 21:30	7.576	152.4	10.28	5.08	28.8	0
1/10/20 21:45	8.55	153.2	6.962	4.992	28.8	0.01
1/10/20 22:00	12	165.4	7.509	5.242	28.79	0.01
1/10/20 22:15	7.721	168.4	8.04	5.058	28.79	0
1/10/20 22:30	7.237	154.3	8.71	4.971	28.79	0.01
1/10/20 22:45	10.4	164.4	9.78	5.247	28.79	0.01
1/10/20 23:00	9.09	178.7	7.589	5.343	28.79	0.01
1/10/20 23:15	9.4	172	10.26	5.294	28.79	0.01
1/10/20 23:30	11.64	176.6	10.54	5.395	28.79	0.01
1/10/20 23:45	13.85	189.8	9.59	5.437	28.79	0.01
1/11/20 0:00	14.31	197.6	7.996	5.311	28.78	0
1/11/20 0:15	12.26	196.7	9.16	5.146	28.78	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/11/20 0:30	11.92	187.4	8.49	5.108	28.78	0.01
1/11/20 0:45	13.21	191.5	8.2	5.062	28.78	0
1/11/20 1:00	14.15	189.8	8.62	5.065	28.76	0
1/11/20 1:15	13.09	173.8	10.49	4.992	28.76	0
1/11/20 1:30	11.4	171.5	9.07	4.97	28.76	0
1/11/20 1:45	11.9	180.5	10.13	5.194	28.76	0
1/11/20 2:00	12.48	180.3	9.89	5.299	28.74	0
1/11/20 2:15	13.89	184.5	8.08	5.374	28.74	0
1/11/20 2:30	15.25	189.3	8.32	5.262	28.74	0.01
1/11/20 2:45	14.41	185.5	9.44	5.091	28.74	0.01
1/11/20 3:00	13.35	183.6	8.2	5.028	28.75	0
1/11/20 3:15	11.93	175.4	9.33	4.902	28.75	0.02
1/11/20 3:30	13.08	176.9	9.85	4.886	28.75	0.01
1/11/20 3:45	12.2	176.2	9.22	4.881	28.75	0.01
1/11/20 4:00	11.86	183.5	10.13	4.902	28.75	0.01
1/11/20 4:15	12.18	182.1	11.7	4.993	28.75	0
1/11/20 4:30	11.62	185.9	9.87	5.045	28.75	0
1/11/20 4:45	12.25	182.7	10.18	5.158	28.75	0
1/11/20 5:00	10.58	176.6	12.54	5.272	28.77	0
1/11/20 5:15	6.825	188.7	16.16	5.336	28.77	0
1/11/20 5:30	6.844	190.7	11.61	5.29	28.77	0.01
1/11/20 5:45	6.201	196	11.7	5.254	28.77	0.01
1/11/20 6:00	6.782	208	11.65	5.381	28.82	0.01
1/11/20 6:15	6.201	220.8	9.49	5.366	28.82	0.01
1/11/20 6:30	5.353	226.6	10.64	5.429	28.82	0
1/11/20 6:45	2.788	203	37.48	5.426	28.82	0.01
1/11/20 7:00	2.323	30.92	10.74	5.061	28.87	0
1/11/20 7:15	2.232	109	39.23	5.21	28.87	0
1/11/20 7:30	1.131	118.1	57.09	5.381	28.87	0
1/11/20 7:45	2.306	219.2	36.32	5.471	28.87	0
1/11/20 8:00	4.196	226.9	20.74	5.601	28.91	0.05
1/11/20 8:15	5.752	244.4	18.75	5.694	28.91	0.07
1/11/20 8:30	7.541	238	10.91	5.458	28.91	0.02
1/11/20 8:45	7.335	230.8	9.58	5.302	28.91	0.01
1/11/20 9:00	9.06	232.7	10.67	5.243	28.94	0
1/11/20 9:15	10.28	235.9	9.25	5.182	28.94	0.01
1/11/20 9:30	7.518	222.1	13.06	5.098	28.94	0
1/11/20 9:45	7.665	214.9	10.74	5.106	28.94	0
1/11/20 10:00	8.47	210.5	13.49	5.054	28.98	0
1/11/20 10:15	12.41	216.6	7.712	5.119	28.98	0
1/11/20 10:30	10.26	208.6	7.88	5.08	28.98	0
1/11/20 10:45	9.42	209.2	7.377	5.076	28.98	0
1/11/20 11:00	8.74	210.3	7.059	5.104	29.01	0
1/11/20 11:15	8.13	213.7	7.857	5.206	29.01	0
1/11/20 11:30	9.02	222.1	9.99	5.288	29.01	0
1/11/20 11:45	9.18	224.9	8.98	5.24	29.01	0
1/11/20 12:00	11.89	216.4	7.744	5.214	29.04	0.01
1/11/20 12:15	12.93	217.4	7.993	5.259	29.04	0
1/11/20 12:30	11.59	216.4	7.889	5.308	29.04	0
1/11/20 12:45	11.23	216.5	8.98	5.278	29.04	0
1/11/20 13:00	12.54	213	8.21	5.306	29.06	0
1/11/20 13:15	13.12	215.6	10.81	5.282	29.06	0
1/11/20 13:30	13.68	213.3	9.96	5.128	29.06	0
1/11/20 13:45	15.69	215.8	9.9	5.074	29.06	0
1/11/20 14:00	15	210.3	9.51	4.999	29.07	0
1/11/20 14:15	17.18	210.5	9.12	5.005	29.07	0
1/11/20 14:30	17.97	205.7	7.592	5.032	29.07	0
1/11/20 14:45	16.5	203.3	9.14	5.067	29.07	0
1/11/20 15:00	17.32	207.5	7.75	5.159	29.09	0
1/11/20 15:15	17.89	204.1	7.821	5.208	29.09	0
1/11/20 15:30	15.58	200.8	8.1	5.171	29.09	0
1/11/20 15:45	17.54	205.6	9.17	5.223	29.09	0
1/11/20 16:00	15.54	198.2	7.549	5.171	29.1	0
1/11/20 16:15	14.57	203	7.732	5.109	29.1	0
1/11/20 16:30	14.41	209.3	9.69	5.063	29.1	0
1/11/20 16:45	15.63	213.2	7.301	5.09	29.1	0
1/11/20 17:00	17.08	216.2	7.831	5.035	29.11	0
1/11/20 17:15	15.27	210.8	8.57	4.952	29.11	0
1/11/20 17:30	14.56	202	8.27	4.892	29.11	0
1/11/20 17:45	14.71	199.1	8.38	4.746	29.11	0
1/11/20 18:00	17.48	203.5	7.607	4.599	29.11	0
1/11/20 18:15	14.92	206.5	7.961	4.5	29.11	0
1/11/20 18:30	13.6	208	8.4	4.457	29.11	0
1/11/20 18:45	13.36	215.2	8.69	4.371	29.11	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/11/20 19:00	13.12	216.1	8.93	4.313	29.11	0
1/11/20 19:15	12.57	217.2	8.73	4.21	29.11	0
1/11/20 19:30	13.67	223.1	9.85	4.098	29.11	0
1/11/20 19:45	15.74	223.9	8.81	3.776	29.11	0
1/11/20 20:00	14.67	224.3	11.49	3.359	29.11	0.02
1/11/20 20:15	13.13	223	11.44	3.102	29.11	0.01
1/11/20 20:30	11.57	210.6	8.64	2.952	29.11	0
1/11/20 20:45	10.2	199.3	9.6	2.82	29.11	0.01
1/11/20 21:00	9.57	189.8	8.2	2.707	29.09	0
1/11/20 21:15	8.68	180.7	9.29	2.695	29.09	0.01
1/11/20 21:30	9.83	182.3	11.36	2.688	29.09	0
1/11/20 21:45	9.2	183.1	12.2	2.686	29.09	0
1/11/20 22:00	8.73	188	11.28	2.647	29.07	0.01
1/11/20 22:15	9.17	186.9	11.88	2.643	29.07	0
1/11/20 22:30	9.63	195.7	12.97	2.553	29.07	0.01
1/11/20 22:45	9.54	202.9	6.933	2.461	29.07	0.01
1/11/20 23:00	11.31	204.9	10.11	2.377	29.06	0
1/11/20 23:15	11.24	202.5	8.87	2.279	29.06	0.01
1/11/20 23:30	10.22	193.4	9.47	2.203	29.06	0.01
1/11/20 23:45	10.06	182.1	9.61	2.229	29.06	0
1/12/20 0:00	9.01	171.5	11.55	2.209	29.03	0
1/12/20 0:15	9.85	161.7	7.475	2.168	29.03	0
1/12/20 0:30	8.71	158.2	10.28	2.175	29.03	0
1/12/20 0:45	10.77	169.9	12.19	2.416	29.03	0
1/12/20 1:00	11.71	173.8	11.83	2.52	28.99	0
1/12/20 1:15	12.16	179.7	11.46	2.657	28.99	0
1/12/20 1:30	11.12	186.8	8.99	2.744	28.99	0
1/12/20 1:45	11.77	178.6	10.58	2.929	28.99	0
1/12/20 2:00	11.08	179.9	11.12	2.931	28.96	0
1/12/20 2:15	8.1	160.6	14.17	2.873	28.96	0
1/12/20 2:30	9.6	177.7	11.77	2.985	28.96	0
1/12/20 2:45	8.1	169.7	14.17	3.131	28.96	0
1/12/20 3:00	6.706	149.6	6.583	2.963	28.93	0
1/12/20 3:15	8.11	153.2	6.301	3.087	28.93	0
1/12/20 3:30	11.48	164	11.19	3.194	28.93	0.01
1/12/20 3:45	11.04	173.4	10.29	3.228	28.93	0
1/12/20 4:00	9.34	154.3	9.98	3.005	28.89	0
1/12/20 4:15	7.786	133.9	8.99	2.92	28.89	0.01
1/12/20 4:30	7.524	136	8.7	2.892	28.89	0.02
1/12/20 4:45	8.14	140.8	10.64	3.109	28.89	0
1/12/20 5:00	9.23	153.5	6.828	3.26	28.85	0.01
1/12/20 5:15	11.8	164.8	9.39	3.412	28.85	0.02
1/12/20 5:30	11.42	166.8	10.63	3.485	28.85	0.01
1/12/20 5:45	10.47	164	9.48	3.515	28.85	0
1/12/20 6:00	9.3	161.3	9.07	3.555	28.82	0
1/12/20 6:15	10.47	167.1	9.39	3.702	28.82	0
1/12/20 6:30	10.64	181.3	10.5	3.753	28.82	0.01
1/12/20 6:45	13.37	192.3	10.01	3.563	28.82	0.06
1/12/20 7:00	16.16	181.9	12.88	3.196	28.77	0.03
1/12/20 7:15	16.01	184.8	11.71	3.308	28.77	0.01
1/12/20 7:30	15.31	180.8	9.99	3.272	28.77	0
1/12/20 7:45	14.73	180.6	8.99	3.254	28.77	0
1/12/20 8:00	13.41	177.4	9.52	3.299	28.75	0
1/12/20 8:15	13.31	172.4	10.13	3.323	28.75	0
1/12/20 8:30	14.59	179.3	9.94	3.415	28.75	0
1/12/20 8:45	13.78	179	8.72	3.563	28.75	0.02
1/12/20 9:00	13.45	176.8	10.03	3.614	28.73	0
1/12/20 9:15	13.55	188.4	8.92	3.68	28.73	0
1/12/20 9:30	14.85	184.3	10.43	3.901	28.73	0
1/12/20 9:45	16.14	188.8	10.16	4.158	28.73	0
1/12/20 10:00	14.52	191.9	11.04	4.226	28.72	0
1/12/20 10:15	13.85	197.3	10.96	4.16	28.72	0
1/12/20 10:30	18.04	192.4	9.41	4.038	28.72	0.01
1/12/20 10:45	17.77	199	7.817	3.905	28.72	0.01
1/12/20 11:00	17.69	198.2	13.12	3.871	28.69	0
1/12/20 11:15	14.15	185.2	9.58	3.918	28.69	0
1/12/20 11:30	12.87	180.4	9	3.89	28.69	0
1/12/20 11:45	12.92	187.6	10.7	3.91	28.69	0
1/12/20 12:00	14.15	188.4	12.11	4.028	28.68	0
1/12/20 12:15	16.68	200.1	12.02	4.066	28.68	0
1/12/20 12:30	16.49	197.7	12.87	4.014	28.68	0
1/12/20 12:45	14.66	199.5	11.94	4.206	28.68	0
1/12/20 13:00	12.9	208.1	11.77	4.463	28.67	0
1/12/20 13:15	17.58	199	10.69	4.662	28.67	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/12/20 13:30	16.75	201.8	9.79	4.664	28.67	0
1/12/20 13:45	17.31	200.5	9.87	4.631	28.67	0
1/12/20 14:00	17.72	208.3	10.73	4.757	28.68	0
1/12/20 14:15	19	210.1	10.77	5.131	28.68	0
1/12/20 14:30	20.08	216.4	10.5	4.724	28.68	0
1/12/20 14:45	19.88	216.5	11.17	4.443	28.68	0
1/12/20 15:00	14.98	223.2	10.91	4.206	28.73	0
1/12/20 15:15	18.33	220.8	10.8	3.838	28.73	0
1/12/20 15:30	18.6	214.5	10.83	3.748	28.73	0
1/12/20 15:45	13.68	206.8	10.36	3.582	28.73	0
1/12/20 16:00	15.94	212.5	10.7	3.297	28.75	0
1/12/20 16:15	15.07	209.1	9.66	2.943	28.75	0
1/12/20 16:30	12.81	193.1	11.59	2.714	28.75	0
1/12/20 16:45	14.02	191.7	10.29	2.581	28.75	0
1/12/20 17:00	13.53	181.1	9.34	2.408	28.75	0
1/12/20 17:15	13.66	172.2	8.62	2.146	28.75	0
1/12/20 17:30	11.95	172.3	10.01	2.019	28.75	0
1/12/20 17:45	12.91	178.7	10.23	2.074	28.75	0
1/12/20 18:00	14.09	189.2	12.51	2.027	28.75	0
1/12/20 18:15	12.77	177	11.26	1.894	28.75	0
1/12/20 18:30	14.84	176.1	10.4	1.7	28.75	0
1/12/20 18:45	13.89	174.7	9.86	1.492	28.75	0
1/12/20 19:00	14.8	172.9	9.12	1.431	28.79	0
1/12/20 19:15	13.86	182.1	9.52	1.417	28.79	0
1/12/20 19:30	14.86	188.7	10.54	1.436	28.79	0
1/12/20 19:45	13.36	185.9	8.57	1.383	28.79	0
1/12/20 20:00	12.34	188.7	12.47	1.407	28.81	0
1/12/20 20:15	13.29	200.2	10.14	1.368	28.81	0
1/12/20 20:30	11.85	207.9	12.1	1.339	28.81	0
1/12/20 20:45	10.97	198.8	11.44	1.237	28.81	0
1/12/20 21:00	11.61	207.1	8.83	1.21	28.81	0
1/12/20 21:15	12.09	212.2	8.46	1.143	28.81	0
1/12/20 21:30	14.59	208.9	8.76	1.037	28.81	0
1/12/20 21:45	13.15	203.2	8.9	0.923	28.81	0
1/12/20 22:00	13.35	203.3	7.161	0.802	28.86	0
1/12/20 22:15	11.22	200.6	7.462	0.724	28.86	0
1/12/20 22:30	11.36	202.4	7.691	0.522	28.86	0
1/12/20 22:45	6.31	196.3	11.16	-0.034	28.86	0
1/12/20 23:00	4.773	185.3	15.24	0.08	28.88	0
1/12/20 23:15	2.701	37.15	101.4	-0.202	28.88	0
1/12/20 23:30	2.333	38.94	11.56	-0.997	28.88	0
1/12/20 23:45	2.303	41.76	21.11	-1.096	28.88	0
1/13/20 0:00	2.972	266.9	19.66	-0.678	28.91	0
1/13/20 0:15	2.944	320.3	29.39	-0.74	28.91	0
1/13/20 0:30	0.984	44.85	11.25	-1.049	28.91	0
1/13/20 0:45	1.817	110.6	47.7	-1.121	28.91	0
1/13/20 1:00	5.734	197.1	11.93	-1.038	28.92	0
1/13/20 1:15	5.541	186.8	9.39	-0.888	28.92	0
1/13/20 1:30	7.006	192.5	13.18	-0.763	28.92	0
1/13/20 1:45	9.81	195.6	8.51	-0.657	28.92	0
1/13/20 2:00	9.38	189.2	7.89	-0.776	28.97	0
1/13/20 2:15	9.29	180.2	7.717	-0.802	28.97	0
1/13/20 2:30	9.1	177.6	8.46	-0.793	28.97	0
1/13/20 2:45	11.36	178.3	8.1	-0.762	28.97	0
1/13/20 3:00	10.56	180.1	8.27	-0.796	28.97	0
1/13/20 3:15	10.72	182.8	8.23	-0.732	28.97	0
1/13/20 3:30	11.9	185.9	7.842	-0.685	28.97	0
1/13/20 3:45	10.4	190.1	8.65	-0.624	28.97	0
1/13/20 4:00	10.08	186.7	8.84	-0.578	29.01	0
1/13/20 4:15	9.99	192.1	8.81	-0.586	29.01	0
1/13/20 4:30	9.87	185.2	8.59	-0.647	29.01	0
1/13/20 4:45	11.59	184.5	8.52	-0.655	29.01	0
1/13/20 5:00	10.78	182.7	8.49	-0.686	29	0
1/13/20 5:15	10.66	183	8.32	-0.705	29	0
1/13/20 5:30	10.11	183.6	8.9	-0.76	29	0
1/13/20 5:45	10.46	184.6	7.349	-0.67	29	0
1/13/20 6:00	9.81	187.9	6.678	-0.556	29.01	0
1/13/20 6:15	9.11	179.9	8.14	-0.55	29.01	0
1/13/20 6:30	10.24	175.3	8.26	-0.734	29.01	0
1/13/20 6:45	9.98	181.1	7.211	-0.864	29.01	0
1/13/20 7:00	9.66	178.9	7.057	-0.826	29	0
1/13/20 7:15	9.61	181	6.728	-0.841	29	0
1/13/20 7:30	8.01	177.7	8.22	-0.826	29	0
1/13/20 7:45	8.34	180.5	6.728	-0.786	29	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/13/20 8:00	7.544	175.1	11.06	-1.032	29	0
1/13/20 8:15	5.739	155	13.45	-1.319	29	0
1/13/20 8:30	6.833	154.5	11.06	-1.265	29	0
1/13/20 8:45	7.407	169.3	12	-1.061	29	0
1/13/20 9:00	8.3	180.4	8.25	-0.924	29.02	0
1/13/20 9:15	9.18	176.7	7.537	-0.87	29.02	0
1/13/20 9:30	10.63	179.7	6.896	-0.855	29.02	0
1/13/20 9:45	10.71	178.3	6.071	-0.811	29.02	0
1/13/20 10:00	9.56	178.5	6.766	-0.768	29	0
1/13/20 10:15	8.12	178	8.41	-0.67	29	0
1/13/20 10:30	6.231	177.6	12.33	-0.644	29	0
1/13/20 10:45	7.614	216.3	22.61	-0.798	29	0
1/13/20 11:00	5.884	228.9	6.774	-0.894	29.03	0
1/13/20 11:15	2.77	194.9	33.34	-0.735	29.03	0
1/13/20 11:30	3.558	131.4	13.83	-0.493	29.03	0
1/13/20 11:45	3.674	124.2	13.4	-0.358	29.03	0
1/13/20 12:00	3.841	105.6	72.29	-0.181	28.99	0
1/13/20 12:15	2.661	24.6	3.196	0	28.99	0
1/13/20 12:30	4.219	136.3	82	0.185	28.99	0
1/13/20 12:45	5.603	175.6	9.17	0.299	28.99	0
1/13/20 13:00	4.537	173.6	11.6	0.363	28.99	0
1/13/20 13:15	2.353	174.1	23.31	0.464	28.99	0
1/13/20 13:30	2.275	196.8	16.28	0.491	28.99	0
1/13/20 13:45	1.007	95.2	35.74	0.548	28.99	0
1/13/20 14:00	1.75	114.1	41.99	0.664	28.96	0
1/13/20 14:15	2.22	158.7	20.03	0.771	28.96	0
1/13/20 14:30	0.619	124.1	34.96	0.793	28.96	0
1/13/20 14:45	3.442	136.2	20.65	0.745	28.96	0
1/13/20 15:00	3.781	161.4	10.38	0.77	28.96	0
1/13/20 15:15	3.639	168.1	15.28	0.899	28.96	0
1/13/20 15:30	4.507	191.7	11.9	0.933	28.96	0
1/13/20 15:45	7.114	212.4	8.6	0.932	28.96	0
1/13/20 16:00	5.074	267.8	19.93	0.636	28.96	0
1/13/20 16:15	4.938	289	8.88	0.269	28.96	0
1/13/20 16:30	4.83	307.8	10.77	0.086	28.96	0
1/13/20 16:45	5.184	2.568	23.81	-0.187	28.96	0
1/13/20 17:00	6.321	22.35	8.09	-0.623	28.95	0
1/13/20 17:15	6.48	25.16	9.98	-0.762	28.95	0
1/13/20 17:30	7.41	24.34	7.732	-0.846	28.95	0
1/13/20 17:45	8.06	25.27	7.657	-0.896	28.95	0
1/13/20 18:00	6.473	19.1	9.81	-1.015	28.95	0
1/13/20 18:15	5.432	22.37	7.224	-1.033	28.95	0
1/13/20 18:30	6.037	11.36	8.63	-1.073	28.95	0
1/13/20 18:45	7.586	18.01	10.76	-1.109	28.95	0
1/13/20 19:00	6.629	12.32	9.97	-1.197	28.95	0
1/13/20 19:15	2.072	15.82	7.251	-1.265	28.95	0
1/13/20 19:30	1.685	350.6	15.51	-1.182	28.95	0
1/13/20 19:45	0.61	0.338	15.1	-1.017	28.95	0
1/13/20 20:00	4.942	21.09	9.53	-1.192	28.94	0
1/13/20 20:15	7.687	27.74	8.58	-1.49	28.94	0
1/13/20 20:30	7.891	27.31	9.37	-1.634	28.94	0
1/13/20 20:45	9.13	22.67	8.84	-1.733	28.94	0
1/13/20 21:00	7.841	14.73	10.86	-1.821	28.96	0
1/13/20 21:15	9.29	11.47	9.58	-1.998	28.96	0
1/13/20 21:30	10.16	15.83	9.22	-2.101	28.96	0
1/13/20 21:45	10.23	15.73	8.43	-2.222	28.96	0
1/13/20 22:00	9.01	17.78	10.24	-2.295	28.94	0
1/13/20 22:15	8.57	20.14	9.49	-2.486	28.94	0
1/13/20 22:30	7.148	20.29	8.34	-2.6	28.94	0
1/13/20 22:45	5.359	20.49	6.808	-2.602	28.94	0
1/13/20 23:00	4.003	24.69	7.602	-2.582	28.96	0
1/13/20 23:15	7.719	23.42	10.46	-2.72	28.96	0
1/13/20 23:30	4.956	20.17	10.99	-2.728	28.96	0
1/13/20 23:45	5.121	20.61	9.14	-2.74	28.96	0
1/14/20 0:00	7.186	18.9	11.06	-2.93	28.97	0
1/14/20 0:15	7.515	21.38	8.78	-2.999	28.97	0
1/14/20 0:30	8.02	22.96	7.776	-3.068	28.97	0
1/14/20 0:45	9.2	22.82	8.91	-3.135	28.97	0
1/14/20 1:00	9.05	18.47	10.23	-3.126	28.95	0
1/14/20 1:15	11.28	20.7	9.19	-3.207	28.95	0
1/14/20 1:30	9.99	19.24	8.39	-3.353	28.95	0
1/14/20 1:45	10.39	16.38	9.11	-3.421	28.95	0
1/14/20 2:00	9.65	16.27	9.63	-3.492	28.95	0
1/14/20 2:15	8.6	16.88	9.75	-3.575	28.95	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/14/20 2:30	6.775	19.99	8.33	-3.479	28.95	0
1/14/20 2:45	6.557	20.43	9.06	-3.455	28.95	0
1/14/20 3:00	8.75	16.35	10.59	-3.413	28.98	0
1/14/20 3:15	9.16	18.98	9.28	-3.473	28.98	0
1/14/20 3:30	6.137	2.474	10.32	-3.378	28.98	0
1/14/20 3:45	3.677	8.64	13.71	-3.354	28.98	0
1/14/20 4:00	5.464	27.26	11.66	-3.566	28.99	0
1/14/20 4:15	8.38	22.35	9.83	-3.628	28.99	0
1/14/20 4:30	8.17	22.15	8.07	-3.712	28.99	0
1/14/20 4:45	7.477	21.96	7.845	-3.651	28.99	0
1/14/20 5:00	6.519	21.21	10.96	-3.662	28.98	0
1/14/20 5:15	6.386	33.88	9.18	-3.758	28.98	0
1/14/20 5:30	4.499	28.19	10.53	-3.802	28.98	0
1/14/20 5:45	4.326	38.65	8.97	-3.771	28.98	0
1/14/20 6:00	3.921	47	13.64	-3.783	28.98	0
1/14/20 6:15	5.608	30.42	5.941	-3.789	28.98	0
1/14/20 6:30	3.127	43.35	13.56	-3.752	28.98	0
1/14/20 6:45	1.877	29.48	5.399	-3.717	28.98	0
1/14/20 7:00	1.543	52.95	4.307	-3.599	29	0
1/14/20 7:15	0.196	50.43	3.503	-3.469	29	0
1/14/20 7:30	0.161	58.14	0.067	-3.261	29	0
1/14/20 7:45	0.602	62.78	21.76	-3.237	29	0
1/14/20 8:00	2.291	140.3	20.7	-3.026	29.01	0
1/14/20 8:15	1.597	113.9	7.117	-3.11	29.01	0
1/14/20 8:30	2.715	125	20.86	-3.019	29.01	0
1/14/20 8:45	3.528	134.2	12.23	-2.733	29.01	0
1/14/20 9:00	4.944	156.4	10.79	-2.389	29.02	0
1/14/20 9:15	6.505	169.9	10.44	-2.146	29.02	0
1/14/20 9:30	7.166	173.1	7.674	-1.986	29.02	0
1/14/20 9:45	9.31	178.5	7.959	-1.732	29.02	0
1/14/20 10:00	11.86	176.4	7.907	-1.421	29.03	0
1/14/20 10:15	12.99	177.4	8.23	-1.16	29.03	0
1/14/20 10:30	15.17	181.8	8.37	-1.017	29.03	0
1/14/20 10:45	15.15	181.2	9.43	-0.964	29.03	0
1/14/20 11:00	15.11	175.3	8.03	-0.969	29.07	0
1/14/20 11:15	15.82	176.3	8.79	-1.005	29.07	0
1/14/20 11:30	17.13	179.9	8.63	-1.024	29.07	0
1/14/20 11:45	15.36	183.7	9.23	-1.026	29.07	0
1/14/20 12:00	15.66	181.7	9.11	-0.957	29.07	0
1/14/20 12:15	14.9	195.8	16.07	-0.904	29.07	0
1/14/20 12:30	7.087	266.9	26.55	-1.423	29.07	0
1/14/20 12:45	6.172	280	30.22	-1.733	29.07	0
1/14/20 13:00	3.762	342	22.01	-2.554	29.08	0
1/14/20 13:15	4.876	311.2	10.73	-2.263	29.08	0
1/14/20 13:30	3.976	22.51	13.26	-2.966	29.08	0
1/14/20 13:45	6.099	31.97	10.54	-3.436	29.08	0
1/14/20 14:00	5.596	37.31	13.85	-3.506	29.13	0
1/14/20 14:15	4.499	39.21	19.45	-3.246	29.13	0
1/14/20 14:30	5.427	30.63	9.79	-3.301	29.13	0
1/14/20 14:45	5.305	35.85	9.69	-3.235	29.13	0
1/14/20 15:00	4.198	30.58	11.03	-3.222	29.14	0
1/14/20 15:15	4.068	31.53	10.38	-3.169	29.14	0
1/14/20 15:30	2.59	44.99	8.78	-2.976	29.14	0
1/14/20 15:45	1.557	31.23	12.89	-2.817	29.14	0
1/14/20 16:00	2.614	116.3	44.83	-1.846	29.15	0
1/14/20 16:15	3.581	158.6	35.55	-1.496	29.15	0
1/14/20 16:30	9.2	194.2	9.08	-1.086	29.15	0
1/14/20 16:45	9.62	176.7	9.9	-0.923	29.15	0
1/14/20 17:00	9.05	163.6	7.762	-1.108	29.17	0
1/14/20 17:15	8.99	167.1	8.03	-1.103	29.17	0
1/14/20 17:30	10.03	153.7	8.59	-1.275	29.17	0
1/14/20 17:45	10.34	153.2	7.899	-1.278	29.17	0
1/14/20 18:00	9.44	162.9	9.31	-1.105	29.16	0
1/14/20 18:15	8.34	149.7	10.44	-1.277	29.16	0
1/14/20 18:30	7.935	142.6	8.3	-1.322	29.16	0
1/14/20 18:45	7.945	142.5	6.642	-1.365	29.16	0
1/14/20 19:00	6.98	140.7	7.961	-1.453	29.16	0
1/14/20 19:15	7.948	147.5	7.966	-1.397	29.16	0
1/14/20 19:30	7.973	146	10.92	-1.311	29.16	0
1/14/20 19:45	8.5	137.5	7.166	-1.16	29.16	0
1/14/20 20:00	8.19	138.2	7.097	-1.14	29.17	0
1/14/20 20:15	7.799	134.8	7.193	-1.124	29.17	0
1/14/20 20:30	10.28	141.1	7.058	-0.986	29.17	0
1/14/20 20:45	8.91	135.4	7.857	-0.915	29.17	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/14/20 21:00	12.13	143.8	6.725	-0.771	29.14	0
1/14/20 21:15	11.5	145	6.968	-0.716	29.14	0
1/14/20 21:30	12.85	150.3	7.756	-0.544	29.14	0
1/14/20 21:45	12.8	156.8	9.87	-0.295	29.14	0
1/14/20 22:00	15.74	151.3	8.96	-0.102	29.15	0
1/14/20 22:15	19.15	154.7	7.597	0.104	29.15	0
1/14/20 22:30	18.04	158.8	9.03	0.189	29.15	0
1/14/20 22:45	17.08	155.6	8.48	0.191	29.15	0
1/14/20 23:00	17.06	159.5	9.31	0.267	29.15	0
1/14/20 23:15	16.28	158.2	8.47	0.223	29.15	0
1/14/20 23:30	12.31	148.9	7.289	-0.135	29.15	0
1/14/20 23:45	8.52	138.9	7.205	-0.578	29.15	0
1/15/20 0:00	8.04	138	6.134	-0.885	29.14	0
1/15/20 0:15	7.271	134.5	9.38	-0.764	29.14	0
1/15/20 0:30	7.019	140.4	11.02	-0.664	29.14	0
1/15/20 0:45	9.71	151.9	11.59	-0.48	29.14	0
1/15/20 1:00	11.67	163.8	8.41	-0.053	29.17	0
1/15/20 1:15	12.03	166.5	8.71	0.125	29.17	0
1/15/20 1:30	12.81	167.6	8.01	0.254	29.17	0
1/15/20 1:45	10.32	158.2	11.46	0.083	29.17	0
1/15/20 2:00	9.92	140.9	8.58	-0.097	29.15	0
1/15/20 2:15	8.43	132.9	7.576	-0.194	29.15	0
1/15/20 2:30	9.3	135	8.53	-0.2	29.15	0
1/15/20 2:45	10.6	142.3	7.73	0.032	29.15	0
1/15/20 3:00	11.39	135.5	7.907	-0.027	29.13	0
1/15/20 3:15	11.5	137.6	7.407	-0.084	29.13	0
1/15/20 3:30	10.91	138.6	7.745	-0.096	29.13	0
1/15/20 3:45	9.94	126.8	8.35	0.009	29.13	0
1/15/20 4:00	9.42	121.6	6.748	0.008	29.13	0
1/15/20 4:15	9.64	124.2	6.65	0.121	29.13	0
1/15/20 4:30	10.45	132.2	7.527	0.136	29.13	0
1/15/20 4:45	12.63	138.1	7.149	0.338	29.13	0
1/15/20 5:00	13.14	138.2	7.35	0.419	29.08	0
1/15/20 5:15	9.64	127.7	8.89	0.024	29.08	0
1/15/20 5:30	9.58	124	7.371	-0.325	29.08	0
1/15/20 5:45	9.75	125.5	8.62	-0.71	29.08	0
1/15/20 6:00	11.11	128.3	10.02	-0.885	29.09	0
1/15/20 6:15	11.74	122.6	9.1	-0.962	29.09	0
1/15/20 6:30	11.9	119.2	9.11	-1.083	29.09	0
1/15/20 6:45	13.71	124.7	8.85	-0.992	29.09	0
1/15/20 7:00	14.37	129	9.52	-1.07	29.05	0
1/15/20 7:15	14.39	128.3	10.03	-1.075	29.05	0
1/15/20 7:30	14.18	122.1	12.01	-0.841	29.05	0
1/15/20 7:45	12.99	124	13.67	-1.049	29.05	0
1/15/20 8:00	8.46	113.1	20.14	-1.36	29.01	0
1/15/20 8:15	11.84	115.6	13.51	-1.101	29.01	0
1/15/20 8:30	8.33	109.7	14.3	-1.177	29.01	0
1/15/20 8:45	8.53	100.6	13.71	-1.161	29.01	0
1/15/20 9:00	9.99	112.7	14.87	-0.868	28.99	0
1/15/20 9:15	7.718	108.2	17.16	-0.776	28.99	0
1/15/20 9:30	7.698	99.8	19.72	-1.042	28.99	0
1/15/20 9:45	5.233	95.7	29.09	-0.78	28.99	0
1/15/20 10:00	9.42	125.1	15.65	-0.422	28.94	0
1/15/20 10:15	9.07	114.8	14.54	-0.085	28.94	0
1/15/20 10:30	9.29	126	9.8	0.197	28.94	0
1/15/20 10:45	9.55	122.5	13.58	0.461	28.94	0
1/15/20 11:00	5.44	104.1	53.62	0.632	28.92	0
1/15/20 11:15	9.29	152.5	22.66	0.527	28.92	0
1/15/20 11:30	14.7	127.3	13.15	0.591	28.92	0
1/15/20 11:45	13.15	108.4	13.63	1.004	28.92	0
1/15/20 12:00	14.36	107.9	13.5	1.515	28.86	0
1/15/20 12:15	12.13	112.2	15.45	1.6	28.86	0
1/15/20 12:30	13.34	108	13.38	1.65	28.86	0
1/15/20 12:45	16.72	104.6	12.29	1.826	28.86	0
1/15/20 13:00	13.01	101.4	14.98	2.041	28.79	0
1/15/20 13:15	12.08	100.1	16.16	1.974	28.79	0
1/15/20 13:30	13.01	103.8	14.57	1.988	28.79	0
1/15/20 13:45	14.76	105.3	16.63	2.116	28.79	0
1/15/20 14:00	16.75	112.1	13.16	2.23	28.69	0
1/15/20 14:15	20	121.6	11.56	2.144	28.69	0
1/15/20 14:30	20.46	116.8	12.27	1.872	28.69	0
1/15/20 14:45	21.81	108.6	11.84	0.848	28.69	0
1/15/20 15:00	18.25	107.8	12.96	1.053	28.66	0
1/15/20 15:15	22.61	110.3	12.61	1.861	28.66	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/15/20 15:30	22.43	112.8	12.1	1.991	28.66	0
1/15/20 15:45	23.06	113.2	12.18	2.124	28.66	0
1/15/20 16:00	25.97	111.2	12.63	2.164	28.61	0
1/15/20 16:15	25.58	110.1	11.55	2.351	28.61	0
1/15/20 16:30	24.05	112.3	10.58	2.392	28.61	0
1/15/20 16:45	25.43	113.3	10.6	2.213	28.61	0
1/15/20 17:00	27.88	112	11.79	2.262	28.58	0
1/15/20 17:15	27.35	114.2	11.65	2.23	28.58	0
1/15/20 17:30	27.43	110.5	11.51	2.291	28.58	0
1/15/20 17:45	28.83	108	11.55	2.198	28.58	0
1/15/20 18:00	25.15	112.1	11.39	2.258	28.61	0
1/15/20 18:15	23.39	110.4	11.87	2.395	28.61	0
1/15/20 18:30	23.1	108.6	12.79	2.493	28.61	0
1/15/20 18:45	20.06	105.9	13.3	2.482	28.61	0
1/15/20 19:00	18.88	103.9	13.61	2.456	28.59	0
1/15/20 19:15	21.06	106.8	13.23	2.644	28.59	0
1/15/20 19:30	22.9	108.2	12.05	2.775	28.59	0
1/15/20 19:45	23.08	104.3	12.43	2.699	28.59	0
1/15/20 20:00	21.84	108.3	11.11	2.769	28.59	0
1/15/20 20:15	21.57	110.6	12.07	2.774	28.59	0
1/15/20 20:30	20.67	110.9	12.19	2.731	28.59	0
1/15/20 20:45	20.81	111.1	12.2	2.784	28.59	0
1/15/20 21:00	20.49	109.6	11.35	2.752	28.63	0
1/15/20 21:15	20.62	111.5	10.82	2.762	28.63	0
1/15/20 21:30	20.48	110	12.8	2.696	28.63	0
1/15/20 21:45	19.7	111.1	11.33	2.894	28.63	0
1/15/20 22:00	18.01	115.7	11.83	2.984	28.63	0
1/15/20 22:15	21.3	112.3	11.11	2.984	28.63	0
1/15/20 22:30	18.9	114.1	11.6	3.036	28.63	0
1/15/20 22:45	18.68	119.6	10.56	3.257	28.63	0.01
1/15/20 23:00	18.79	119.3	11.09	3.182	28.65	0
1/15/20 23:15	18.79	117.6	11.17	3.128	28.65	0
1/15/20 23:30	17.82	116.7	9.94	3.274	28.65	0
1/15/20 23:45	15.99	115.2	12.03	3.332	28.65	0
1/16/20 0:00	13.73	121.3	11.65	3.285	28.7	0
1/16/20 0:15	13.23	119.2	13.15	3.311	28.7	0
1/16/20 0:30	13.23	126.6	11.64	3.159	28.7	0
1/16/20 0:45	13.94	122.2	11.21	3.164	28.7	0
1/16/20 1:00	14.43	122.6	9.41	3.294	28.72	0
1/16/20 1:15	14.28	122.2	9.2	3.187	28.72	0
1/16/20 1:30	12.92	123	10.6	3.202	28.72	0
1/16/20 1:45	11.66	128.7	10.5	3.107	28.72	0
1/16/20 2:00	11.22	124.8	9.51	3.124	28.74	0
1/16/20 2:15	10.52	124.4	10.53	3.128	28.74	0
1/16/20 2:30	11.48	128.7	10.06	2.855	28.74	0.01
1/16/20 2:45	9.34	130.6	10.55	2.623	28.74	0
1/16/20 3:00	10.3	133.4	9.29	2.486	28.75	0
1/16/20 3:15	9.18	126.7	10.36	2.43	28.75	0
1/16/20 3:30	10.2	113	10.16	2.54	28.75	0
1/16/20 3:45	9.58	120	9.59	2.571	28.75	0
1/16/20 4:00	10.54	123.1	8.97	2.641	28.75	0
1/16/20 4:15	10.96	126.5	10.01	2.393	28.75	0
1/16/20 4:30	9.67	138.8	21.95	2.422	28.75	0
1/16/20 4:45	8.1	133.8	12.83	2.138	28.75	0
1/16/20 5:00	8.35	198.8	22.58	1.71	28.79	0
1/16/20 5:15	8.54	187.3	44.44	0.887	28.79	0
1/16/20 5:30	5.215	151.6	25.35	1.085	28.79	0.01
1/16/20 5:45	6.849	113.5	20.07	0.731	28.79	0.01
1/16/20 6:00	8.26	93.5	10.36	0.232	28.78	0
1/16/20 6:15	8	120.1	13.78	0.527	28.78	0.01
1/16/20 6:30	7.918	131.5	19.71	1.033	28.78	0
1/16/20 6:45	8.09	148	20.02	0.759	28.78	0
1/16/20 7:00	9.36	123.9	9.86	0.767	28.8	0.01
1/16/20 7:15	8.63	124.2	7.895	0.853	28.8	0.01
1/16/20 7:30	7.025	123.2	11.46	0.984	28.8	0
1/16/20 7:45	8.07	114.6	8.04	1.095	28.8	0
1/16/20 8:00	8.18	132.8	15.98	1.297	28.82	0.01
1/16/20 8:15	7.751	135.4	10.48	1.3	28.82	0
1/16/20 8:30	10.07	120.3	8.79	1.563	28.82	0.01
1/16/20 8:45	9.26	121.2	9.61	1.697	28.82	0
1/16/20 9:00	8.91	126	8.62	1.733	28.83	0.01
1/16/20 9:15	10.44	120.2	9.45	1.799	28.83	0
1/16/20 9:30	8.32	126.5	10.17	1.772	28.83	0.01
1/16/20 9:45	7.709	140.2	9.95	1.797	28.83	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/16/20 10:00	7.691	140	8.67	1.791	28.86	0
1/16/20 10:15	7.433	145.2	8.81	1.683	28.86	0
1/16/20 10:30	8.14	133.4	9.51	1.908	28.86	0.01
1/16/20 10:45	6.56	132.7	10.67	2.282	28.86	0
1/16/20 11:00	6.766	140	8.28	2.675	28.86	0.01
1/16/20 11:15	6.96	146.8	9.36	3.17	28.86	0.01
1/16/20 11:30	6.698	139.6	7.642	3.574	28.86	0.01
1/16/20 11:45	5.738	133.7	10.18	3.881	28.86	0
1/16/20 12:00	4.671	138.6	11.91	4.167	28.86	0.01
1/16/20 12:15	6.525	118.5	9.17	4.227	28.86	0
1/16/20 12:30	5.813	118.3	7.939	4.028	28.86	0.01
1/16/20 12:45	4.215	120.4	12.87	3.915	28.86	0
1/16/20 13:00	5.075	121.9	9.61	4.104	28.86	0
1/16/20 13:15	4.868	126.6	10.81	4.345	28.86	0
1/16/20 13:30	3.289	137.5	25.18	4.402	28.86	0.01
1/16/20 13:45	6.86	197.6	21.12	4.45	28.86	0
1/16/20 14:00	7.096	229.1	11.27	4.307	28.87	0
1/16/20 14:15	6.381	236.7	12.03	4.681	28.87	0
1/16/20 14:30	6.826	238.3	8.78	4.678	28.87	0.01
1/16/20 14:45	7.137	242.7	7.656	4.968	28.87	0
1/16/20 15:00	5.898	235	10.04	5.069	28.86	0
1/16/20 15:15	3.527	236	16.92	5.183	28.86	0
1/16/20 15:30	1.722	251.6	26.69	5.371	28.86	0
1/16/20 15:45	2.296	158.1	20.76	5.209	28.86	0
1/16/20 16:00	2.561	175.7	21.04	5.101	28.89	0
1/16/20 16:15	1.781	135.4	17.09	4.677	28.89	0
1/16/20 16:30	2.479	179.7	22.19	4.396	28.89	0
1/16/20 16:45	3.152	161	21.9	4.286	28.89	0
1/16/20 17:00	2.947	149.4	19.08	3.725	28.91	0
1/16/20 17:15	2.064	136.2	23.17	3.671	28.91	0
1/16/20 17:30	2.028	168.6	46.83	3.447	28.91	0
1/16/20 17:45	6.075	228.5	14.6	3.158	28.91	0.01
1/16/20 18:00	8.54	276.5	17.1	1.603	28.94	0
1/16/20 18:15	5.698	301.1	5.897	1.255	28.94	0
1/16/20 18:30	4.526	300.7	11.18	1.309	28.94	0
1/16/20 18:45	3.505	82.4	15.32	1.038	28.94	0
1/16/20 19:00	2.728	137.6	29.54	1.071	28.94	0
1/16/20 19:15	6.958	167.2	13.8	0.987	28.94	0
1/16/20 19:30	6.465	123.5	9.54	0.87	28.94	0
1/16/20 19:45	5.206	113.9	8.18	0.86	28.94	0
1/16/20 20:00	6.435	135.8	5.747	0.837	28.98	0
1/16/20 20:15	5.577	131.3	9.11	0.722	28.98	0
1/16/20 20:30	6.901	116.9	8.87	0.611	28.98	0
1/16/20 20:45	6.586	122.9	10.34	0.577	28.98	0
1/16/20 21:00	5.185	96.1	11.62	0.6	28.98	0
1/16/20 21:15	5.224	105.9	11.16	0.588	28.98	0
1/16/20 21:30	7.037	126.5	7.828	0.701	28.98	0
1/16/20 21:45	5.922	129.2	8.02	0.679	28.98	0
1/16/20 22:00	3.886	114.6	8.78	0.626	29.01	0
1/16/20 22:15	3.75	114.9	7.774	0.604	29.01	0
1/16/20 22:30	4.391	117.6	8.21	0.625	29.01	0
1/16/20 22:45	4.891	157.4	20.35	0.783	29.01	0
1/16/20 23:00	5.895	167.9	18.79	0.861	29.04	0
1/16/20 23:15	6.413	166.5	9.88	0.818	29.04	0
1/16/20 23:30	8.99	184.1	14.46	0.349	29.04	0
1/16/20 23:45	4.874	158.6	16.23	0.265	29.04	0
1/17/20 0:00	2.613	135.6	14.87	0.235	29.07	0
1/17/20 0:15	6.089	160	9.66	0.521	29.07	0
1/17/20 0:30	3.145	130.5	18.04	0.378	29.07	0
1/17/20 0:45	3.302	125.6	7.523	0.27	29.07	0
1/17/20 1:00	4.877	140.3	14.04	0.103	29.1	0
1/17/20 1:15	6.701	148.7	9.85	0.192	29.1	0
1/17/20 1:30	5.796	160.6	10.11	0.333	29.1	0
1/17/20 1:45	4.72	159.4	8.4	0.385	29.1	0
1/17/20 2:00	4.745	153.2	6.77	0.415	29.13	0
1/17/20 2:15	3.769	149	9.96	0.322	29.13	0
1/17/20 2:30	2.281	124.3	11.32	0.134	29.13	0
1/17/20 2:45	2.432	142.1	14.85	0.21	29.13	0
1/17/20 3:00	4.125	135.4	5.914	0.114	29.16	0
1/17/20 3:15	4.611	123.4	7.57	0.236	29.16	0
1/17/20 3:30	4.743	131.8	8.92	0.296	29.16	0
1/17/20 3:45	3.887	130.9	9.92	0.148	29.16	0
1/17/20 4:00	1.665	115.7	8.89	0.082	29.18	0
1/17/20 4:15	2.184	114.4	8.79	0.068	29.18	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/17/20 4:30	3.633	121.5	10.41	0.226	29.18	0
1/17/20 4:45	3.951	133.9	10.39	0.639	29.18	0
1/17/20 5:00	2.667	128.1	10.15	0.773	29.19	0
1/17/20 5:15	3.371	127.5	6.974	0.816	29.19	0
1/17/20 5:30	3.127	131.1	10.8	0.772	29.19	0
1/17/20 5:45	2.834	129.4	10.48	0.849	29.19	0
1/17/20 6:00	3.814	137.5	8.39	1.009	29.23	0
1/17/20 6:15	4.024	133.1	7.364	1.032	29.23	0
1/17/20 6:30	3.429	131.3	15.17	1.359	29.23	0
1/17/20 6:45	3.839	167.9	21.93	0.82	29.23	0
1/17/20 7:00	6.694	195.4	12.4	0.1	29.23	0
1/17/20 7:15	3.669	128	20.04	0.519	29.23	0
1/17/20 7:30	2.813	107.4	15.64	0.797	29.23	0
1/17/20 7:45	2.468	51.88	10.84	0.131	29.23	0
1/17/20 8:00	1.974	24.21	4.321	0.392	29.26	0
1/17/20 8:15	1.281	141	61.44	0.342	29.26	0
1/17/20 8:30	2.628	155.3	15.51	0.458	29.26	0
1/17/20 8:45	1.171	99.4	21.59	0.149	29.26	0
1/17/20 9:00	1.569	62.86	12.53	0.508	29.28	0
1/17/20 9:15	2.333	70.81	12.8	0.731	29.28	0
1/17/20 9:30	4.059	114.4	9.6	1.029	29.28	0
1/17/20 9:45	3.704	118.6	7.928	1.174	29.28	0
1/17/20 10:00	3.305	84.4	11.92	1.09	29.28	0
1/17/20 10:15	3.32	122.1	17.29	1.084	29.28	0
1/17/20 10:30	4.715	138	9.92	1.426	29.28	0
1/17/20 10:45	4.327	128.9	12.33	1.691	29.28	0
1/17/20 11:00	4.53	139.5	13.7	1.842	29.33	0
1/17/20 11:15	7.882	184.6	11.74	1.184	29.33	0
1/17/20 11:30	6.856	186.6	10.45	1.234	29.33	0.01
1/17/20 11:45	3.833	155.9	14.7	1.665	29.33	0.02
1/17/20 12:00	3.832	150.5	19.04	2.154	29.33	0
1/17/20 12:15	4.542	140.8	11.81	2.872	29.33	0
1/17/20 12:30	5.597	133.1	12.62	3.098	29.33	0
1/17/20 12:45	5.797	146.3	23.43	3.119	29.33	0
1/17/20 13:00	6.226	136.8	24.71	3.154	29.31	0
1/17/20 13:15	6.329	147.3	16.03	3.276	29.31	0
1/17/20 13:30	6.411	133	21.84	3.505	29.31	0
1/17/20 13:45	6.76	172.3	23.33	3.498	29.31	0
1/17/20 14:00	7.051	142.2	8.58	3.627	29.31	0
1/17/20 14:15	6.293	140.5	10.14	3.799	29.31	0
1/17/20 14:30	7.215	134.8	8.34	3.769	29.31	0
1/17/20 14:45	7.007	136.2	8.96	3.66	29.31	0
1/17/20 15:00	7.188	131.3	9.06	3.634	29.32	0
1/17/20 15:15	6.354	138.3	10.15	3.542	29.32	0
1/17/20 15:30	7.266	134.7	9.06	3.47	29.32	0
1/17/20 15:45	8.22	138.6	7.574	3.266	29.32	0
1/17/20 16:00	6.997	131.3	9.16	3.143	29.34	0
1/17/20 16:15	8.17	119.5	9.26	3.001	29.34	0
1/17/20 16:30	8.86	116.2	9.07	2.953	29.34	0
1/17/20 16:45	10.2	118.7	8.41	2.935	29.34	0
1/17/20 17:00	9.51	113	8.52	2.911	29.35	0
1/17/20 17:15	9.84	114	10.47	3.044	29.35	0
1/17/20 17:30	9.32	112.8	12.55	3.437	29.35	0
1/17/20 17:45	11.66	114.6	9.99	3.529	29.35	0
1/17/20 18:00	10.7	113.1	10.65	3.565	29.35	0
1/17/20 18:15	12.6	118.5	10.35	3.581	29.35	0
1/17/20 18:30	13.82	116.9	10.04	3.49	29.35	0
1/17/20 18:45	11.65	118.8	9.26	3.386	29.35	0
1/17/20 19:00	12.93	119.8	10.39	3.371	29.33	0
1/17/20 19:15	12.7	119.6	8.71	3.481	29.33	0
1/17/20 19:30	13.22	120.7	10.43	3.403	29.33	0
1/17/20 19:45	16.11	117.8	9.76	3.341	29.33	0
1/17/20 20:00	16.48	116.2	10.29	3.145	29.3	0
1/17/20 20:15	12.29	111	10.34	2.966	29.3	0
1/17/20 20:30	10.28	122	11.31	2.911	29.3	0
1/17/20 20:45	11.5	122.8	9.93	2.833	29.3	0
1/17/20 21:00	14.44	115.3	10.83	3.08	29.27	0
1/17/20 21:15	14.54	108.1	12.8	3.178	29.27	0.01
1/17/20 21:30	16.25	112.1	11.8	3.363	29.27	0
1/17/20 21:45	17.59	116.7	10.59	3.439	29.27	0
1/17/20 22:00	15.54	120.9	9.64	3.354	29.26	0
1/17/20 22:15	16.71	115.6	10.15	3.271	29.26	0
1/17/20 22:30	18.3	115.1	10.45	3.312	29.26	0
1/17/20 22:45	16.84	113.5	11.27	3.225	29.26	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/17/20 23:00	19.89	116.6	10.75	3.348	29.27	0
1/17/20 23:15	14.91	110	11.2	3.272	29.27	0
1/17/20 23:30	14.61	111.5	12.3	3.289	29.27	0
1/17/20 23:45	17.91	117.2	11.2	3.524	29.27	0
1/18/20 0:00	17.73	122.8	10.28	3.575	29.26	0
1/18/20 0:15	16.82	121.2	10.71	3.558	29.26	0
1/18/20 0:30	14.19	119.1	10.8	3.592	29.26	0
1/18/20 0:45	16.62	112.5	10.85	3.534	29.26	0
1/18/20 1:00	16.8	111	11.02	3.11	29.25	0.01
1/18/20 1:15	17.91	116.4	10.29	2.786	29.25	0.01
1/18/20 1:30	18.08	115.5	10.55	2.575	29.25	0.01
1/18/20 1:45	19.41	118.4	9.65	2.533	29.25	0.02
1/18/20 2:00	19.58	115.7	10.25	2.379	29.23	0.02
1/18/20 2:15	19.85	109.5	11.68	2.174	29.23	0.04
1/18/20 2:30	19.32	109.6	10.27	1.983	29.23	0.03
1/18/20 2:45	19.54	109.8	11.9	1.914	29.23	0.01
1/18/20 3:00	19.72	111.2	10.48	2.217	29.23	0
1/18/20 3:15	17.55	114.4	10.63	2.752	29.23	0.01
1/18/20 3:30	17.69	114.4	10.49	3.254	29.23	0.01
1/18/20 3:45	14.1	108.6	11.67	3.514	29.23	0
1/18/20 4:00	11.83	127.1	11.68	3.347	29.22	0.01
1/18/20 4:15	18.4	115.7	11.75	3.476	29.22	0.04
1/18/20 4:30	18.82	113.7	10.73	3.274	29.22	0.02
1/18/20 4:45	22.79	117.2	9.31	2.885	29.22	0.04
1/18/20 5:00	22.12	116.9	10.16	2.391	29.18	0.02
1/18/20 5:15	20.82	116.8	9.9	2.208	29.18	0.01
1/18/20 5:30	20.63	117.9	10.14	2.327	29.18	0.02
1/18/20 5:45	18.57	113.6	12.66	2.55	29.18	0.01
1/18/20 6:00	17.67	115.5	11.11	2.599	29.2	0.01
1/18/20 6:15	15.77	114.2	11.74	2.97	29.2	0.01
1/18/20 6:30	15.82	116.3	11.06	3.496	29.2	0
1/18/20 6:45	12.81	114.9	10.96	3.766	29.2	0
1/18/20 7:00	9.45	107.1	13.56	3.619	29.23	0
1/18/20 7:15	11.93	107.1	14.49	3.739	29.23	0
1/18/20 7:30	13.4	110.5	11.62	4.151	29.23	0
1/18/20 7:45	11.21	111.6	15.29	4.165	29.23	0
1/18/20 8:00	11.37	111	16.17	4.175	29.24	0
1/18/20 8:15	10.61	107	14.23	3.963	29.24	0
1/18/20 8:30	8.77	104.7	16.72	4.27	29.24	0
1/18/20 8:45	6.758	99.7	21.82	4.035	29.24	0
1/18/20 9:00	6.876	97.8	16.52	3.729	29.26	0
1/18/20 9:15	4.889	103	20.36	3.908	29.26	0
1/18/20 9:30	5.713	92.5	18.97	4.347	29.26	0
1/18/20 9:45	6.593	117.2	16.58	4.554	29.26	0
1/18/20 10:00	9.74	139.2	12.14	5.398	29.29	0
1/18/20 10:15	12.27	139.2	10.42	5.931	29.29	0
1/18/20 10:30	14.07	141.5	9.23	6.156	29.29	0
1/18/20 10:45	14.25	147.8	8.45	6.156	29.29	0
1/18/20 11:00	13.26	150.8	9.19	6.041	29.32	0
1/18/20 11:15	12.75	144.6	9.98	6.033	29.32	0
1/18/20 11:30	11.82	143	10.92	6.482	29.32	0
1/18/20 11:45	12.45	145.3	9.24	6.785	29.32	0
1/18/20 12:00	11.11	147.1	10.03	6.88	29.3	0
1/18/20 12:15	11.41	147.2	9.53	6.938	29.3	0
1/18/20 12:30	10.36	151.4	11.9	6.983	29.3	0
1/18/20 12:45	8.35	161.4	10.89	6.916	29.3	0
1/18/20 13:00	8.56	150.8	12.34	7.062	29.34	0
1/18/20 13:15	8.45	145.5	12.37	7.351	29.34	0
1/18/20 13:30	8.9	151.3	11.75	7.672	29.34	0
1/18/20 13:45	9.45	141.3	11.56	7.813	29.34	0
1/18/20 14:00	9.16	142.1	9.61	7.941	29.32	0
1/18/20 14:15	8.28	152.6	10.48	8.08	29.32	0
1/18/20 14:30	7.757	143.6	10.53	8.09	29.32	0
1/18/20 14:45	8.96	156	10.79	8.12	29.32	0
1/18/20 15:00	8.24	157.7	11.42	7.894	29.35	0
1/18/20 15:15	6.755	176.7	12.44	7.737	29.35	0
1/18/20 15:30	5.587	165.8	12.32	7.696	29.35	0
1/18/20 15:45	5.002	157.5	10.75	7.782	29.35	0
1/18/20 16:00	7.165	149.8	10.15	7.827	29.38	0
1/18/20 16:15	6.998	153.8	10.72	7.666	29.38	0
1/18/20 16:30	7.174	154.8	11.61	7.427	29.38	0
1/18/20 16:45	8.99	137.5	8.93	7.551	29.38	0
1/18/20 17:00	8.14	144.3	11.44	7.675	29.37	0
1/18/20 17:15	7.721	156	13.66	7.623	29.37	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/18/20 17:30	8.19	144.2	12.05	7.792	29.37	0
1/18/20 17:45	9.31	147	8.61	7.721	29.37	0
1/18/20 18:00	9.21	146.3	9.55	7.778	29.4	0
1/18/20 18:15	8.69	153.3	8.99	7.699	29.4	0
1/18/20 18:30	9.34	152.2	8.3	7.701	29.4	0
1/18/20 18:45	8.55	152.8	8.44	7.652	29.4	0
1/18/20 19:00	7.881	155.4	9.47	7.385	29.42	0
1/18/20 19:15	8.34	152.3	8.64	7.325	29.42	0
1/18/20 19:30	8.67	149.2	9.65	7.407	29.42	0
1/18/20 19:45	7.847	154.6	10.97	7.544	29.42	0
1/18/20 20:00	8.23	149.5	11.2	7.768	29.43	0
1/18/20 20:15	6.186	166	15.04	7.45	29.43	0
1/18/20 20:30	4.651	166.2	16.14	7.164	29.43	0
1/18/20 20:45	7.415	172.2	19.54	7.26	29.43	0
1/18/20 21:00	7.715	184.3	15.38	6.899	29.44	0
1/18/20 21:15	9.78	151.6	10.51	6.96	29.44	0
1/18/20 21:30	8.95	157.1	15.49	7.12	29.44	0
1/18/20 21:45	9.78	169.1	14.04	7.021	29.44	0
1/18/20 22:00	9.17	163.4	9.32	6.881	29.45	0
1/18/20 22:15	9.64	156.6	13.44	7.09	29.45	0
1/18/20 22:30	9.18	147	11.98	7.362	29.45	0
1/18/20 22:45	8.23	148.8	11.81	7.507	29.45	0
1/18/20 23:00	8.64	160.6	10.98	7.532	29.44	0
1/18/20 23:15	8.79	154.8	9.6	7.696	29.44	0
1/18/20 23:30	8.68	158.8	10.07	7.702	29.44	0
1/18/20 23:45	9.96	149	11.77	7.774	29.44	0
1/19/20 0:00	10.05	147.8	10.74	7.947	29.44	0
1/19/20 0:15	9.71	148.2	13.16	7.876	29.44	0
1/19/20 0:30	5.354	145.1	17.31	7.942	29.44	0
1/19/20 0:45	5.933	162.3	20.72	7.813	29.44	0
1/19/20 1:00	6.958	153.6	20.35	7.759	29.45	0
1/19/20 1:15	5.929	151.1	22.53	7.75	29.45	0
1/19/20 1:30	5.547	140.3	19.96	7.755	29.45	0
1/19/20 1:45	5.641	150.2	29.66	7.728	29.45	0
1/19/20 2:00	5.786	141.4	20.26	7.686	29.42	0
1/19/20 2:15	5.707	153.8	14.85	7.771	29.42	0
1/19/20 2:30	7.129	177.6	13.44	7.876	29.42	0
1/19/20 2:45	6.887	177.9	10.08	7.757	29.42	0
1/19/20 3:00	5.27	158.7	39.22	7.366	29.44	0
1/19/20 3:15	4.778	152.7	35.77	7.281	29.44	0
1/19/20 3:30	6.81	165	14.39	7.538	29.44	0
1/19/20 3:45	7.912	150.4	15.34	7.6	29.44	0
1/19/20 4:00	5.507	168	16.38	7.616	29.42	0
1/19/20 4:15	6.164	164.3	14.79	7.66	29.42	0
1/19/20 4:30	4.332	163.3	21.44	7.712	29.42	0
1/19/20 4:45	4.968	151.5	25.74	7.695	29.42	0
1/19/20 5:00	4.822	126.2	16.42	7.52	29.41	0
1/19/20 5:15	6.671	137.5	12.79	7.435	29.41	0
1/19/20 5:30	5.043	127.3	21.19	7.493	29.41	0
1/19/20 5:45	8.13	138.6	15.32	7.69	29.41	0
1/19/20 6:00	8.84	138.3	17.31	7.674	29.39	0
1/19/20 6:15	9.11	131	16.17	7.767	29.39	0
1/19/20 6:30	10.88	135.9	13.5	7.948	29.39	0
1/19/20 6:45	10.92	136.8	12.78	8.19	29.39	0
1/19/20 7:00	11.35	137	12.4	8.2	29.37	0
1/19/20 7:15	13.07	141	11.35	8.52	29.37	0
1/19/20 7:30	13.74	143	11.6	8.54	29.37	0
1/19/20 7:45	13.18	145.7	10.52	8.77	29.37	0
1/19/20 8:00	11.96	141.2	13.4	8.75	29.38	0
1/19/20 8:15	10.32	148.7	17.78	8.78	29.38	0
1/19/20 8:30	12.68	148.9	13.57	8.64	29.38	0
1/19/20 8:45	8.84	137.9	13.36	8.49	29.38	0
1/19/20 9:00	11.9	139.7	10.7	8.64	29.39	0
1/19/20 9:15	14.51	135.3	11.52	8.8	29.39	0
1/19/20 9:30	14.3	132.8	13.89	9.4	29.39	0
1/19/20 9:45	13.6	136.6	13.18	9.99	29.39	0
1/19/20 10:00	14.5	140.7	12.43	10.25	29.36	0
1/19/20 10:15	12.76	154	12.16	9.6	29.36	0
1/19/20 10:30	9.55	157.9	20.63	9.59	29.36	0
1/19/20 10:45	11.39	160.2	17.13	9.73	29.36	0
1/19/20 11:00	9.26	136.1	18.32	9.86	29.38	0
1/19/20 11:15	3.665	122.6	34.72	9.51	29.38	0.01
1/19/20 11:30	4.874	128.1	17.75	9.64	29.38	0
1/19/20 11:45	6.192	128.3	17.63	9.39	29.38	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/19/20 12:00	6.837	142.6	19.09	9.26	29.37	0
1/19/20 12:15	5.725	96.3	18.78	8.93	29.37	0.01
1/19/20 12:30	4.819	95.5	25.99	9.13	29.37	0
1/19/20 12:45	7.271	144.3	14.69	9.98	29.37	0
1/19/20 13:00	5.566	115.9	18.91	10.35	29.32	0
1/19/20 13:15	5.766	119.4	23.07	10.89	29.32	0
1/19/20 13:30	11.4	135	14	11.39	29.32	0
1/19/20 13:45	12.29	140.7	13.48	11.32	29.32	0
1/19/20 14:00	12.51	140.2	12.39	11.66	29.3	0
1/19/20 14:15	12.36	142.1	13.08	11.82	29.3	0
1/19/20 14:30	7.67	145.1	15.75	11.59	29.3	0
1/19/20 14:45	5.191	137.9	19.28	11.62	29.3	0
1/19/20 15:00	3.867	127.3	19.24	12.14	29.29	0
1/19/20 15:15	4.731	131.5	16.39	12.2	29.29	0
1/19/20 15:30	5.25	130.8	16.76	12.08	29.29	0
1/19/20 15:45	7.376	133.3	11.75	11.7	29.29	0
1/19/20 16:00	6.792	144.2	10.35	11.43	29.27	0
1/19/20 16:15	6.177	141.4	12.76	11.14	29.27	0
1/19/20 16:30	6.281	142.7	8.99	10.94	29.27	0
1/19/20 16:45	7.077	150.2	10.53	10.65	29.27	0
1/19/20 17:00	7.147	149.3	12.41	10.63	29.22	0
1/19/20 17:15	8.96	157.4	11.55	10.18	29.22	0
1/19/20 17:30	9.68	144.2	11.13	10.43	29.22	0
1/19/20 17:45	9.7	133.8	13.29	10.57	29.22	0
1/19/20 18:00	7.687	145.1	16.22	10.41	29.19	0
1/19/20 18:15	6.426	135	24.16	10.44	29.19	0
1/19/20 18:30	13.05	160.2	10.2	10.49	29.19	0
1/19/20 18:45	16.48	143	12.65	10.51	29.19	0
1/19/20 19:00	15.3	137.8	12.52	10.5	29.18	0
1/19/20 19:15	16.48	137.9	11.72	10.63	29.18	0
1/19/20 19:30	16.47	142	10.33	11	29.18	0
1/19/20 19:45	17.53	141.4	10.62	11.19	29.18	0
1/19/20 20:00	17.13	138.4	10.66	11.24	29.16	0
1/19/20 20:15	16.17	140.5	10.84	11.3	29.16	0
1/19/20 20:30	15.4	142	9.81	11.48	29.16	0
1/19/20 20:45	14.22	140.2	11.21	11.57	29.16	0
1/19/20 21:00	13.24	133.5	11.44	11.6	29.15	0
1/19/20 21:15	13.65	131.7	11.64	11.62	29.15	0
1/19/20 21:30	14.54	136.2	11.77	11.76	29.15	0
1/19/20 21:45	15.41	132.8	12.21	11.88	29.15	0
1/19/20 22:00	15.64	134.6	12.26	11.86	29.16	0
1/19/20 22:15	16.48	136.2	12.03	11.75	29.16	0
1/19/20 22:30	15.74	139.7	12.18	11.71	29.16	0
1/19/20 22:45	16.35	138.4	11.46	11.76	29.16	0
1/19/20 23:00	15.89	138.6	10.83	11.73	29.15	0
1/19/20 23:15	13.7	134.3	10.91	11.78	29.15	0
1/19/20 23:30	14.03	137	10.57	11.63	29.15	0
1/19/20 23:45	14.67	134.9	10.66	11.44	29.15	0
1/20/20 0:00	14.69	133.9	11.44	11.3	29.12	0
1/20/20 0:15	16.37	137.1	10.97	11.13	29.12	0
1/20/20 0:30	16.26	140.2	9.92	10.88	29.12	0
1/20/20 0:45	16.36	139.6	10.5	10.84	29.12	0
1/20/20 1:00	16.21	140.7	11.27	10.74	29.12	0
1/20/20 1:15	15.26	145.2	10.34	10.7	29.12	0
1/20/20 1:30	16.24	142.1	10.45	10.66	29.12	0
1/20/20 1:45	16.46	138	11.98	10.67	29.12	0
1/20/20 2:00	16.51	143.7	11.04	10.57	29.12	0
1/20/20 2:15	14.65	145.5	12.02	10.55	29.12	0
1/20/20 2:30	15.76	150.9	12.19	10.52	29.12	0
1/20/20 2:45	13.84	144.7	12.99	10.54	29.12	0
1/20/20 3:00	15.37	137.9	11.81	10.66	29.1	0
1/20/20 3:15	13.3	134	12.96	10.52	29.1	0
1/20/20 3:30	11.98	148.7	14.21	10.57	29.1	0
1/20/20 3:45	11.03	187.9	19.53	10.3	29.1	0
1/20/20 4:00	14.13	168.9	8.98	10.3	29.11	0
1/20/20 4:15	13.14	159.7	9.9	10.37	29.11	0
1/20/20 4:30	13.43	173	11.92	10.2	29.11	0
1/20/20 4:45	9.91	184.6	11.33	9.61	29.11	0
1/20/20 5:00	10.67	174.5	11.19	9.6	29.12	0
1/20/20 5:15	9.69	167.7	8.36	9.48	29.12	0
1/20/20 5:30	8.16	162.5	7.175	9.28	29.12	0
1/20/20 5:45	7.881	163.3	11.64	9.22	29.12	0
1/20/20 6:00	7.578	191.5	14.04	9.18	29.13	0
1/20/20 6:15	9.48	188.8	12.38	9.11	29.13	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/20/20 6:30	9.2	182.2	12.79	8.99	29.13	0
1/20/20 6:45	9.39	172.3	11.87	9.22	29.13	0
1/20/20 7:00	9.21	153.8	12.44	9.5	29.12	0
1/20/20 7:15	7.815	157.7	15.58	9.5	29.12	0
1/20/20 7:30	4.626	174.8	22.21	9.39	29.12	0
1/20/20 7:45	7.846	140.4	15.84	9.31	29.12	0
1/20/20 8:00	7.494	119	14.81	9	29.14	0
1/20/20 8:15	7.577	126.8	16.67	9.26	29.14	0
1/20/20 8:30	10.4	140.1	11.63	9.77	29.14	0
1/20/20 8:45	10.55	131	12.4	9.75	29.14	0
1/20/20 9:00	9.45	136.7	12.83	9.77	29.14	0
1/20/20 9:15	5.42	121	14.43	9.69	29.14	0
1/20/20 9:30	3.289	78.66	30.67	9.6	29.14	0
1/20/20 9:45	4.197	108.9	26.16	9.69	29.14	0
1/20/20 10:00	5.074	110.9	42.43	9.84	29.12	0
1/20/20 10:15	2.419	53.31	15.5	9.36	29.12	0
1/20/20 10:30	2.377	60.13	11.09	8.97	29.12	0
1/20/20 10:45	3.212	69.68	15.7	8.79	29.12	0
1/20/20 11:00	3.543	81.1	21.11	9.19	29.1	0
1/20/20 11:15	3.602	88.2	15.34	9.58	29.1	0
1/20/20 11:30	2.565	53.14	24.29	9.77	29.1	0
1/20/20 11:45	2.329	11.46	16.57	9.44	29.1	0
1/20/20 12:00	3.254	0.978	20.32	9.35	29.08	0
1/20/20 12:15	4.936	303.3	11.33	10.05	29.08	0
1/20/20 12:30	3.633	335	43.89	10.37	29.08	0
1/20/20 12:45	3.335	34.45	21.31	9.63	29.08	0
1/20/20 13:00	2.847	41.48	9.04	9.59	29.08	0
1/20/20 13:15	4.456	63.35	13.04	9.31	29.08	0
1/20/20 13:30	2.617	35.63	14.36	9.32	29.08	0
1/20/20 13:45	3.206	53.36	8.66	9.32	29.08	0
1/20/20 14:00	3.015	72.09	25.38	9.24	29.06	0
1/20/20 14:15	4.196	129	9.78	9.96	29.06	0
1/20/20 14:30	6.408	143.9	26.47	10.32	29.06	0
1/20/20 14:45	8.57	193.6	26.24	10.58	29.06	0
1/20/20 15:00	6.716	122	44.07	10.72	29.03	0
1/20/20 15:15	3.518	79.89	23.88	10.64	29.03	0
1/20/20 15:30	2.464	83	33.39	10.69	29.03	0
1/20/20 15:45	3.404	73.37	13.66	9.9	29.03	0
1/20/20 16:00	4.177	133	30.71	9.92	28.99	0
1/20/20 16:15	5.173	153.3	19.92	10.51	28.99	0
1/20/20 16:30	2.776	122.5	29.29	10.41	28.99	0
1/20/20 16:45	6.965	137.7	28.79	10.38	28.99	0
1/20/20 17:00	10.33	144.7	15.87	10.74	28.98	0
1/20/20 17:15	11.62	137.2	12.84	10.75	28.98	0
1/20/20 17:30	10.83	132.8	11.62	10.94	28.98	0
1/20/20 17:45	8.65	130	15.4	10.78	28.98	0
1/20/20 18:00	7.681	129.3	16.53	10.22	28.98	0
1/20/20 18:15	11.47	141.2	10.69	10.23	28.98	0
1/20/20 18:30	13.67	141.7	10.62	10.79	28.98	0
1/20/20 18:45	16.59	140.2	9.45	10.52	28.98	0
1/20/20 19:00	15.67	139	9.98	10.37	28.97	0
1/20/20 19:15	15.67	136.2	9.86	10.45	28.97	0
1/20/20 19:30	16.5	137	9.87	11.04	28.97	0
1/20/20 19:45	16.23	140.1	10.33	10.91	28.97	0
1/20/20 20:00	18	140.8	9.17	10.99	28.94	0
1/20/20 20:15	17.59	142.5	9.27	10.77	28.94	0
1/20/20 20:30	19.2	141.4	10.5	10.54	28.94	0
1/20/20 20:45	18.48	138.5	10.38	10.69	28.94	0
1/20/20 21:00	19.23	142	10.67	10.54	28.92	0
1/20/20 21:15	18.84	138	10.55	10.49	28.92	0
1/20/20 21:30	17.13	141.5	10.09	10.76	28.92	0
1/20/20 21:45	16.33	137.4	10.14	10.82	28.92	0
1/20/20 22:00	17.22	141.7	9.41	10.57	28.87	0
1/20/20 22:15	14.28	141.7	9.64	10.39	28.87	0
1/20/20 22:30	12.48	136.5	11	10.47	28.87	0
1/20/20 22:45	12.14	141	11.48	10.12	28.87	0
1/20/20 23:00	14.97	139.3	11.64	10.28	28.85	0
1/20/20 23:15	10.62	133.7	14.1	10.24	28.85	0
1/20/20 23:30	9.99	126.1	13.67	10.3	28.85	0
1/20/20 23:45	11.02	133.6	13.85	10.23	28.85	0
1/21/20 0:00	11.84	135.5	11.49	10.34	28.83	0
1/21/20 0:15	12.33	138.4	11.15	10.3	28.83	0
1/21/20 0:30	10.96	148.6	14.22	10.34	28.83	0
1/21/20 0:45	13.29	144.9	12.12	10.45	28.83	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/21/20 1:00	13.65	136.8	11.83	10.58	28.81	0
1/21/20 1:15	14.73	137.5	11.03	10.65	28.81	0
1/21/20 1:30	16.63	138.6	11.51	10.92	28.81	0
1/21/20 1:45	16.68	138.5	9.17	11.03	28.81	0
1/21/20 2:00	16.39	139.9	10.2	11.05	28.81	0
1/21/20 2:15	17.87	142.2	9.62	11.04	28.81	0
1/21/20 2:30	15.2	148.1	15.56	11.07	28.81	0
1/21/20 2:45	15.27	188.1	18.25	10.43	28.81	0
1/21/20 3:00	14.48	160.2	12.66	10.39	28.82	0
1/21/20 3:15	16.7	172.9	8.96	9.92	28.82	0
1/21/20 3:30	12.57	158.1	8.92	9.63	28.82	0.01
1/21/20 3:45	9.32	136.3	10.41	9.23	28.82	0
1/21/20 4:00	9.57	169.9	27.08	8.97	28.83	0
1/21/20 4:15	7.196	188.6	14.81	8.47	28.83	0
1/21/20 4:30	8.88	189.7	11.53	8.26	28.83	0
1/21/20 4:45	10.49	209.3	17.98	7.709	28.83	0.01
1/21/20 5:00	9.36	214.1	12.52	7.624	28.82	0.02
1/21/20 5:15	6.189	178.1	14.37	7.233	28.82	0.01
1/21/20 5:30	4.34	151.8	10.91	6.589	28.82	0.02
1/21/20 5:45	5.579	187.3	24.04	6.302	28.82	0.01
1/21/20 6:00	9.28	202.7	7.571	6.68	28.87	0
1/21/20 6:15	9.65	178.9	17.41	6.667	28.87	0.01
1/21/20 6:30	9.47	152.7	9.84	6.477	28.87	0
1/21/20 6:45	8.42	147	9.55	6.419	28.87	0
1/21/20 7:00	9.01	144.2	9.25	6.396	28.88	0.01
1/21/20 7:15	8.73	151.3	9.3	6.55	28.88	0
1/21/20 7:30	7.252	179.8	13.22	6.417	28.88	0
1/21/20 7:45	8.59	159.1	11.37	6.22	28.88	0
1/21/20 8:00	7.396	173.2	11.64	6.056	28.89	0
1/21/20 8:15	8.41	165.7	8.23	5.882	28.89	0
1/21/20 8:30	9.18	160.1	7.011	6.228	28.89	0
1/21/20 8:45	8.15	152.4	9.54	6.374	28.89	0
1/21/20 9:00	7.388	153.2	8.5	6.232	28.92	0
1/21/20 9:15	7.021	154.1	9.17	6.672	28.92	0
1/21/20 9:30	7.388	157.3	10.67	7.453	28.92	0
1/21/20 9:45	5.352	141.7	13.43	7.929	28.92	0
1/21/20 10:00	5.63	138.8	11.75	8.3	28.9	0
1/21/20 10:15	8.29	147.9	12.51	8.05	28.9	0
1/21/20 10:30	7.893	146.4	10.53	8.04	28.9	0
1/21/20 10:45	7.481	136.6	11.05	7.955	28.9	0
1/21/20 11:00	7.792	146.9	10.71	7.928	28.89	0
1/21/20 11:15	7.569	152.3	9.5	7.757	28.89	0
1/21/20 11:30	8.35	146.7	11.11	7.455	28.89	0
1/21/20 11:45	11.3	150.6	10.71	7.565	28.89	0
1/21/20 12:00	7.486	154.1	12.97	7.458	28.91	0
1/21/20 12:15	5.342	156.5	13.26	7.413	28.91	0
1/21/20 12:30	9.56	186.8	15.93	7.425	28.91	0.01
1/21/20 12:45	8.79	182.2	14.77	7.035	28.91	0
1/21/20 13:00	11.14	207.8	13.78	7.583	28.91	0.01
1/21/20 13:15	20.31	207.7	8.69	7.66	28.91	0.01
1/21/20 13:30	15.53	207.7	7.484	7.55	28.91	0
1/21/20 13:45	14.16	202	8.75	7.403	28.91	0.01
1/21/20 14:00	18.48	198.7	9.73	6.855	28.94	0.01
1/21/20 14:15	15.77	184.9	10.3	6.804	28.94	0
1/21/20 14:30	12.62	178.5	9.86	6.768	28.94	0
1/21/20 14:45	9.89	166.3	7.692	6.73	28.94	0
1/21/20 15:00	11.66	163.8	9.48	6.936	28.94	0
1/21/20 15:15	15.07	179.9	9.42	7.402	28.94	0
1/21/20 15:30	13.15	180.2	11.8	7.48	28.94	0
1/21/20 15:45	11.63	186.7	12.28	7.393	28.94	0
1/21/20 16:00	18.06	198.8	10.18	7.026	28.97	0.03
1/21/20 16:15	17.67	193.8	9.11	6.676	28.97	0.01
1/21/20 16:30	15.42	192	8.03	6.502	28.97	0
1/21/20 16:45	12.93	182.8	10.1	6.414	28.97	0
1/21/20 17:00	13.22	175.7	10.63	6.316	28.99	0
1/21/20 17:15	14.2	183.6	12.26	6.23	28.99	0.01
1/21/20 17:30	15.07	170.9	7.383	5.887	28.99	0
1/21/20 17:45	14.13	175.4	10.37	5.878	28.99	0
1/21/20 18:00	13.84	170.2	8.75	5.718	29	0
1/21/20 18:15	11.72	161.1	7.147	5.559	29	0
1/21/20 18:30	10.31	156.9	6.912	5.612	29	0
1/21/20 18:45	11.57	160.5	10.45	5.804	29	0.01
1/21/20 19:00	11.46	167.3	9.9	5.831	29.01	0.01
1/21/20 19:15	9.29	157.6	7.436	5.754	29.01	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/21/20 19:30	9.43	171.9	13.18	5.931	29.01	0
1/21/20 19:45	8.97	172.9	16.48	5.991	29.01	0.02
1/21/20 20:00	9.06	178	13.6	5.957	29.02	0.01
1/21/20 20:15	13.84	192.6	10.44	6.218	29.02	0.01
1/21/20 20:30	16.57	195.5	10.63	6.507	29.02	0
1/21/20 20:45	14.04	196.3	7.681	6.514	29.02	0.01
1/21/20 21:00	10.62	197.4	8.91	6.261	29.04	0.01
1/21/20 21:15	9.06	196.7	7.842	6.205	29.04	0.01
1/21/20 21:30	15.68	201.2	10.36	6.304	29.04	0
1/21/20 21:45	15.58	201.8	8.53	6.294	29.04	0
1/21/20 22:00	14.46	194	9.71	6.285	29.1	0
1/21/20 22:15	12.11	180.5	10.49	6.251	29.1	0
1/21/20 22:30	13.19	169.6	7.66	6.182	29.1	0
1/21/20 22:45	12.01	187	11.25	6.339	29.1	0
1/21/20 23:00	13.06	181.9	12.86	6.49	29.11	0
1/21/20 23:15	11.03	166.8	8.94	6.231	29.11	0
1/21/20 23:30	10.22	173	11.49	6.213	29.11	0
1/21/20 23:45	10.69	166.8	7.781	6.141	29.11	0
1/22/20 0:00	11.83	186.6	11	6.189	29.12	0
1/22/20 0:15	12.85	192.2	8.26	6.236	29.12	0
1/22/20 0:30	13.06	189	7.817	6.257	29.12	0
1/22/20 0:45	13.89	184.5	8.65	6.06	29.12	0
1/22/20 1:00	13.84	183.3	8.78	6.046	29.16	0
1/22/20 1:15	12.39	182.2	9.15	5.972	29.16	0
1/22/20 1:30	11.85	186.1	9.16	6.055	29.16	0
1/22/20 1:45	12.36	172.8	6.421	5.994	29.16	0
1/22/20 2:00	11.59	175.1	7.39	6.166	29.17	0
1/22/20 2:15	11.32	175.6	8.97	6.282	29.17	0
1/22/20 2:30	12.16	189.3	10.67	6.463	29.17	0
1/22/20 2:45	11.57	200.5	8.98	6.473	29.17	0
1/22/20 3:00	8.59	190.4	11.38	6.195	29.18	0
1/22/20 3:15	10.54	169.9	7.748	6.439	29.18	0
1/22/20 3:30	10.44	171.7	6.331	6.387	29.18	0
1/22/20 3:45	10.79	174.4	7.905	6.366	29.18	0
1/22/20 4:00	10.77	182.9	11.04	6.425	29.18	0
1/22/20 4:15	11.46	191.5	7.551	6.446	29.18	0
1/22/20 4:30	11.07	188.9	9.21	6.324	29.18	0
1/22/20 4:45	9.25	183.4	9.85	6.192	29.18	0
1/22/20 5:00	8.77	177.9	12.84	6.238	29.18	0
1/22/20 5:15	8.8	188.3	10.28	6.272	29.18	0
1/22/20 5:30	6.253	161.7	7.819	6.097	29.18	0
1/22/20 5:45	6.614	166.3	10.13	6.11	29.18	0
1/22/20 6:00	10.98	191.9	18.27	6.398	29.18	0
1/22/20 6:15	11.42	206.2	8.57	6.225	29.18	0
1/22/20 6:30	5.585	184.8	11.38	5.945	29.18	0
1/22/20 6:45	3.116	120.1	19.65	5.546	29.18	0
1/22/20 7:00	4.814	126.1	6.089	5.618	29.2	0
1/22/20 7:15	4.836	131.2	7.108	5.774	29.2	0.01
1/22/20 7:30	4.483	134.1	7.979	5.821	29.2	0
1/22/20 7:45	4.233	156.3	7.026	5.87	29.2	0
1/22/20 8:00	4.831	163.4	7.801	5.715	29.2	0.02
1/22/20 8:15	4.093	150.2	8.75	5.649	29.2	0.01
1/22/20 8:30	2.724	133.3	7.283	5.519	29.2	0.01
1/22/20 8:45	3.651	128.3	13.29	5.547	29.2	0.01
1/22/20 9:00	3.253	124.1	11.43	5.513	29.19	0.01
1/22/20 9:15	4.083	112.1	9.3	5.593	29.19	0.01
1/22/20 9:30	4.072	106.9	5.541	5.388	29.19	0.01
1/22/20 9:45	3.1	106.3	13.81	5.463	29.19	0
1/22/20 10:00	1.281	108.7	22.21	5.486	29.2	0.01
1/22/20 10:15	2.934	112.3	15.95	5.605	29.2	0.01
1/22/20 10:30	3.769	118	7.778	5.498	29.2	0.01
1/22/20 10:45	4.275	122.6	13.38	5.428	29.2	0
1/22/20 11:00	4.798	129.8	12	5.556	29.2	0.01
1/22/20 11:15	7.173	126.8	12.63	5.744	29.2	0.01
1/22/20 11:30	6.547	116.8	9.5	5.712	29.2	0.01
1/22/20 11:45	4.624	88.1	13.95	5.591	29.2	0.01
1/22/20 12:00	3.969	104	16.42	5.604	29.18	0.02
1/22/20 12:15	4.073	137.7	17.38	5.754	29.18	0.01
1/22/20 12:30	7.223	126.8	13.87	5.79	29.18	0.01
1/22/20 12:45	12.99	134.4	10.74	6.04	29.18	0.02
1/22/20 13:00	13.58	133.8	10.25	5.919	29.14	0.02
1/22/20 13:15	12.92	135.5	11.2	5.916	29.14	0.01
1/22/20 13:30	13.35	132.4	11.07	6.001	29.14	0.02
1/22/20 13:45	12.76	133.2	10.53	6.109	29.14	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/22/20 14:00	13.67	133.5	10.3	6.233	29.12	0.01
1/22/20 14:15	13.79	139.3	9.88	6.248	29.12	0.01
1/22/20 14:30	14.41	139.8	9.75	6.324	29.12	0
1/22/20 14:45	13.74	141.2	8.69	6.339	29.12	0.01
1/22/20 15:00	13.2	143.4	10.17	6.253	29.14	0
1/22/20 15:15	11.66	143.7	10.63	6.189	29.14	0.01
1/22/20 15:30	13.02	142.7	9.83	6.277	29.14	0
1/22/20 15:45	13.59	141.1	9.15	6.364	29.14	0
1/22/20 16:00	13.38	139.5	9.43	6.44	29.13	0
1/22/20 16:15	13.43	141.4	10.16	6.553	29.13	0
1/22/20 16:30	13.56	142.4	9.91	6.661	29.13	0
1/22/20 16:45	13.37	143.7	9.25	6.815	29.13	0
1/22/20 17:00	10.83	149.7	11.5	6.766	29.13	0.01
1/22/20 17:15	11.5	143	9.74	6.891	29.13	0
1/22/20 17:30	10.72	152.5	12.16	6.992	29.13	0
1/22/20 17:45	10.2	150.1	10.52	7.037	29.13	0
1/22/20 18:00	10.3	150.5	9.02	7.226	29.16	0
1/22/20 18:15	9.58	146.1	11.16	7.346	29.16	0
1/22/20 18:30	7.225	152.9	11.29	7.5	29.16	0
1/22/20 18:45	6.509	148.4	11.91	7.774	29.16	0
1/22/20 19:00	6.278	170.9	17.18	7.88	29.15	0
1/22/20 19:15	5.009	158.1	16.04	7.964	29.15	0
1/22/20 19:30	4.41	159.1	21.86	8.23	29.15	0
1/22/20 19:45	4.611	158.2	12.2	7.903	29.15	0
1/22/20 20:00	5.518	144.9	10.09	8.4	29.16	0
1/22/20 20:15	5.04	141.8	11.37	8.68	29.16	0
1/22/20 20:30	5.159	163.8	16.91	8.38	29.16	0
1/22/20 20:45	7.175	171.5	22.56	8.42	29.16	0
1/22/20 21:00	6.763	177.6	13.94	8.05	29.17	0
1/22/20 21:15	7.27	165.1	13.82	7.89	29.17	0
1/22/20 21:30	8.1	163.5	10.99	8.38	29.17	0
1/22/20 21:45	9.33	153.5	9.56	8.66	29.17	0
1/22/20 22:00	7.908	161.5	8.62	8.67	29.14	0
1/22/20 22:15	7.965	159.9	9.84	8.82	29.14	0
1/22/20 22:30	8.09	163.4	9.85	8.84	29.14	0
1/22/20 22:45	7.532	158.3	11.76	8.99	29.14	0
1/22/20 23:00	7.804	159.1	10.16	8.94	29.15	0
1/22/20 23:15	8.05	161.5	8.31	9.15	29.15	0
1/22/20 23:30	8.06	158.1	10.12	9.27	29.15	0
1/22/20 23:45	8.36	155.2	9.8	9.26	29.15	0
1/23/20 0:00	8.24	153.6	10.09	9.16	29.15	0.01
1/23/20 0:15	9.25	144.3	7.598	9.08	29.15	0.01
1/23/20 0:30	10.22	145.4	7.599	9.1	29.15	0.01
1/23/20 0:45	10.42	147	8.64	8.96	29.15	0
1/23/20 1:00	10.45	148.3	9.62	8.85	29.16	0.01
1/23/20 1:15	11.83	141.9	9.16	8.96	29.16	0
1/23/20 1:30	10.77	155.2	12.15	9.14	29.16	0
1/23/20 1:45	10.95	164	7.95	9.37	29.16	0
1/23/20 2:00	10.19	159.7	8.86	9.61	29.16	0
1/23/20 2:15	10.22	157	9.26	9.6	29.16	0
1/23/20 2:30	9.58	151.8	11.19	9.67	29.16	0
1/23/20 2:45	10.02	150.6	8.82	9.86	29.16	0
1/23/20 3:00	10.12	143.9	8.26	10.11	29.15	0
1/23/20 3:15	9.5	152.3	13.31	10.4	29.15	0
1/23/20 3:30	10.24	151.3	9.52	10.33	29.15	0
1/23/20 3:45	9.33	149	10.12	10.45	29.15	0
1/23/20 4:00	8.39	143.7	9.45	10.48	29.15	0
1/23/20 4:15	10.16	145.5	8.55	10.72	29.15	0
1/23/20 4:30	8.68	160.9	11.88	10.93	29.15	0
1/23/20 4:45	9.04	159	9.72	11.18	29.15	0
1/23/20 5:00	7.729	148.9	10.48	11.09	29.15	0
1/23/20 5:15	6.953	146	11.19	10.92	29.15	0.01
1/23/20 5:30	7.367	144.8	9.32	10.72	29.15	0
1/23/20 5:45	8.49	145.4	7.899	10.51	29.15	0.01
1/23/20 6:00	9.07	145	8.1	10.54	29.13	0.01
1/23/20 6:15	10.02	141.1	7.513	10.72	29.13	0.01
1/23/20 6:30	11.32	143	7.772	10.9	29.13	0.01
1/23/20 6:45	10.93	141.3	7.975	10.9	29.13	0.01
1/23/20 7:00	10.85	142.8	7.226	10.98	29.12	0.01
1/23/20 7:15	10.9	144.2	8.46	10.78	29.12	0.01
1/23/20 7:30	12.66	139.9	7.636	10.64	29.12	0.02
1/23/20 7:45	11.9	145.5	8.05	10.55	29.12	0.02
1/23/20 8:00	9.43	149.9	11.66	10.17	29.12	0.04
1/23/20 8:15	7.298	152.9	10.68	10.08	29.12	0.04

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/23/20 8:30	7.772	150.9	9.51	10.09	29.12	0.04
1/23/20 8:45	6.28	168.6	11.33	9.85	29.12	0.06
1/23/20 9:00	6.838	151.3	9.84	9.9	29.15	0.04
1/23/20 9:15	5.642	178.2	14.78	9.81	29.15	0.04
1/23/20 9:30	9.45	156.1	14.49	9.93	29.15	0.02
1/23/20 9:45	9.58	143.6	9	9.9	29.15	0
1/23/20 10:00	12.14	142.3	8.03	9.84	29.13	0.01
1/23/20 10:15	12.9	147.7	9.04	10	29.13	0.01
1/23/20 10:30	11.47	141.6	8.71	10.16	29.13	0.01
1/23/20 10:45	11.61	146.1	9.47	10.56	29.13	0.01
1/23/20 11:00	12.62	146.5	8.74	10.64	29.12	0.01
1/23/20 11:15	11.47	145.4	9.66	10.72	29.12	0.01
1/23/20 11:30	11.07	148.6	9.82	10.75	29.12	0.01
1/23/20 11:45	11.09	140.4	9.39	10.71	29.12	0.01
1/23/20 12:00	11.28	144.3	9.65	10.73	29.12	0
1/23/20 12:15	10.26	145.9	8.43	10.83	29.12	0.01
1/23/20 12:30	9.56	146.3	9.34	10.8	29.12	0.01
1/23/20 12:45	11.5	142.4	9.4	10.66	29.12	0.02
1/23/20 13:00	10.8	145.2	9.23	10.51	29.12	0.01
1/23/20 13:15	11.06	141	8.57	10.62	29.12	0.01
1/23/20 13:30	11.61	141.2	8.96	10.72	29.12	0
1/23/20 13:45	11.2	145.4	9.27	10.83	29.12	0
1/23/20 14:00	10.14	144.6	9.15	10.88	29.11	0.01
1/23/20 14:15	10.65	141.6	8.63	10.95	29.11	0.01
1/23/20 14:30	9	140.2	7.801	10.95	29.11	0.01
1/23/20 14:45	9.23	139.1	7.237	11.18	29.11	0
1/23/20 15:00	8.51	157.9	7.594	11.13	29.09	0.01
1/23/20 15:15	7.877	149.4	11.64	11.09	29.09	0
1/23/20 15:30	8.08	149.9	9.33	11.23	29.09	0.01
1/23/20 15:45	7.988	178.3	19.69	10.66	29.09	0.01
1/23/20 16:00	8.88	165	11.31	10.27	29.08	0
1/23/20 16:15	9.92	139.3	8.84	10.13	29.08	0
1/23/20 16:30	10.3	139.9	8.16	10	29.08	0.01
1/23/20 16:45	8.72	145	10.68	9.77	29.08	0.02
1/23/20 17:00	9.69	140.6	7.114	9.96	29.08	0.01
1/23/20 17:15	9.73	146.3	6.899	10.12	29.08	0.01
1/23/20 17:30	10.98	144.6	7.191	10.17	29.08	0.01
1/23/20 17:45	11.22	142.6	8.81	10.11	29.08	0.01
1/23/20 18:00	11.19	140.3	8.44	9.99	29.07	0.02
1/23/20 18:15	11.44	140.9	8.54	10.08	29.07	0.02
1/23/20 18:30	9.96	147.7	9.66	9.89	29.07	0.02
1/23/20 18:45	10.56	146.6	8.5	9.68	29.07	0.02
1/23/20 19:00	12.02	148.1	9.22	9.46	29.06	0.02
1/23/20 19:15	12.16	143.3	8.74	9.4	29.06	0.02
1/23/20 19:30	14.13	134.2	9.02	9.63	29.06	0.01
1/23/20 19:45	16.47	139.3	8.51	9.95	29.06	0
1/23/20 20:00	17.14	143.1	8.31	9.83	29.02	0
1/23/20 20:15	14.28	155.5	11.91	9.76	29.02	0
1/23/20 20:30	14.06	151.6	14.56	9.59	29.02	0
1/23/20 20:45	10.97	150.2	11.96	9.74	29.02	0
1/23/20 21:00	8.72	164.2	17.35	9.76	29.04	0.01
1/23/20 21:15	9.27	158.1	16.28	9.57	29.04	0.01
1/23/20 21:30	9.59	144	10.27	9.69	29.04	0
1/23/20 21:45	9.03	132.2	12.37	9.87	29.04	0
1/23/20 22:00	7.839	143.2	11.56	9.92	29.03	0
1/23/20 22:15	8.54	155.1	12.22	9.94	29.03	0.01
1/23/20 22:30	7.52	152.4	20.95	9.87	29.03	0.01
1/23/20 22:45	7.048	187.3	17.55	9.32	29.03	0.01
1/23/20 23:00	6.784	150.8	18.6	9.29	29.05	0.01
1/23/20 23:15	5.483	137.6	9.78	9.18	29.05	0.01
1/23/20 23:30	4.99	169.9	24.56	9.01	29.05	0.02
1/23/20 23:45	7.144	186.4	32.94	8.5	29.05	0.03
1/24/20 0:00	6.938	117.2	14.25	8.31	29.03	0.02
1/24/20 0:15	6.102	123.8	11.27	8.65	29.03	0
1/24/20 0:30	5.373	138	14.97	9.28	29.03	0
1/24/20 0:45	7.654	172.9	14.86	9.19	29.03	0
1/24/20 1:00	9.7	168.6	11.8	8.97	28.99	0
1/24/20 1:15	9.09	159	18.29	8.85	28.99	0
1/24/20 1:30	6.765	141.4	11.84	9.25	28.99	0
1/24/20 1:45	5.659	153.1	10.44	9.46	28.99	0
1/24/20 2:00	6.924	165.2	10.99	9.29	28.98	0
1/24/20 2:15	7.439	165.8	13.28	8.89	28.98	0.01
1/24/20 2:30	7.693	166.3	10.81	8.93	28.98	0.01
1/24/20 2:45	6.675	173.1	12.39	8.57	28.98	0.03

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
1/24/20 3:00	6.739	194.5	12.95	8.5	29.02	0.02
1/24/20 3:15	5.693	160.1	11.44	8.22	29.02	0.02
1/24/20 3:30	5.503	144.3	9.17	8.33	29.02	0
1/24/20 3:45	7.114	147.1	7.363	8.54	29.02	0
1/24/20 4:00	7.586	147.9	7.678	8.52	29.05	0
1/24/20 4:15	8.49	157.7	12.63	8.51	29.05	0
1/24/20 4:30	9.14	192.1	13.87	8.55	29.05	0.01
1/24/20 4:45	11.4	197.8	9.14	8.44	29.05	0
1/24/20 5:00	9.2	184.3	15.05	8.66	29.07	0
1/24/20 5:15	7.987	160.3	7.676	8.25	29.07	0.01
1/24/20 5:30	7.827	160.4	7.629	8.19	29.07	0
1/24/20 5:45	9.31	166.8	6.655	8.32	29.07	0
1/24/20 6:00	8.32	159.7	9.06	8.3	29.06	0
1/24/20 6:15	5.526	143.3	9.02	8.2	29.06	0
1/24/20 6:30	5.199	137.6	8.95	8.27	29.06	0
1/24/20 6:45	7.057	138.1	8.42	8.59	29.06	0
1/24/20 7:00	6.978	145.3	6.823	8.75	29.08	0
1/24/20 7:15	8.52	164.5	7.133	8.93	29.08	0
1/24/20 7:30	7.79	162.6	5.03	8.82	29.08	0
1/24/20 7:45	8.58	175.4	15.61	9.01	29.08	0
1/24/20 8:00	8.24	193.4	8	8.6	29.09	0.01
1/24/20 8:15	6.777	181.1	7.614	8.44	29.09	0
1/24/20 8:30	5.657	164.1	14.12	8.42	29.09	0
1/24/20 8:45	6.498	150	7.928	8.43	29.09	0
1/24/20 9:00	8.98	162.5	11.77	8.49	29.09	0
1/24/20 9:15	10.16	181	10.24	8.53	29.09	0
1/24/20 9:30	9.45	172.3	10.51	8.38	29.09	0.01
1/24/20 9:45	9.69	161.4	7.745	8.3	29.09	0
1/24/20 10:00	7.152	160.3	7.752	8.17	29.08	0.02
1/24/20 10:15	6.392	153.6	9.14	8.3	29.08	0
1/24/20 10:30	7.957	154.1	8.17	8.76	29.08	0
1/24/20 10:45	8.05	157	9.35	9.08	29.08	0.01
1/24/20 11:00	8.99	199.6	28.93	9.08	29.11	0.02
1/24/20 11:15	8.98	243.1	9.31	8.58	29.11	0.05
1/24/20 11:30	14.04	212	11.62	8.56	29.11	0.05
1/24/20 11:45	13.32	212.6	12	9	29.11	0
1/24/20 12:00	13.9	201.8	8.1	9.04	29.15	0
1/24/20 12:15	12.7	202.2	8.1	9.11	29.15	0
1/24/20 12:30	11.47	207.1	9.23	9.37	29.15	0
1/24/20 12:45	13.58	210.8	7.711	9.76	29.15	0
1/24/20 13:00	12.89	207.2	8.09	9.78	29.14	0
1/24/20 13:15	12.8	200.9	7.916	9.68	29.14	0
1/24/20 13:30	13.31	199.2	7.732	9.81	29.14	0
1/24/20 13:45	10.72	198.7	8.74	9.97	29.14	0
1/24/20 14:00	12.59	221.7	11.26	9.55	29.13	0.02
1/24/20 14:15	10.16	233.2	7.872	9.25	29.13	0
1/24/20 14:30	5.732	256.2	11.43	9.06	29.13	0.01
1/24/20 14:45	4.015	228.6	17.77	8.93	29.13	0
1/24/20 15:00	2.511	164.4	49.04	9.04	29.14	0.01
1/24/20 15:15	2.463	92.2	24.13	8.77	29.14	0.01
1/24/20 15:30	0.807	134.1	12.58	8.62	29.14	0.05
1/24/20 15:45	6.062	273.5	18.12	8.67	29.14	0.04
1/24/20 16:00	10.42	270.5	15.87	8.35	29.16	0.06
1/24/20 16:15	7.451	256.3	12.11	8.25	29.16	0
1/24/20 16:30	4.243	255.6	21.37	8.3	29.16	0.01
1/24/20 16:45	1.484	262	21.56	8.19	29.16	0
1/24/20 17:00	1.861	113.5	24.9	8.16	29.18	0
1/24/20 17:15	4.186	174.4	27.98	8.21	29.18	0
1/24/20 17:30	2.791	154.8	25.03	8.21	29.18	0.01
1/24/20 17:45	2.964	152.3	17.1	8.14	29.18	0
1/24/20 18:00	1.685	147.9	29.22	8.14	29.19	0.01
1/24/20 18:15	1.664	116.5	23.47	8.12	29.19	0.01
1/24/20 18:30	0.793	189	36.31	8.05	29.19	0.07
1/24/20 18:45	1.737	43.37	14.45	7.989	29.19	0.03
1/24/20 19:00	2.116	36.13	13.68	7.919	29.18	0.04
1/24/20 19:15	1.158	47.95	10.66	7.87	29.18	0.04
1/24/20 19:30	4.172	71.63	43.39	7.908	29.18	0.03
1/24/20 19:45	4.82	327.6	48.72	7.859	29.18	0.1
1/24/20 20:00	3.233	231.5	30.72	7.805	29.19	0
1/24/20 20:15	5.903	203.4	24.31	7.907	29.19	0
1/24/20 20:30	6.814	186.9	11.62	8.12	29.19	0
1/24/20 20:45	5.057	192.8	14.44	8.05	29.19	0.03
1/24/20 21:00	3.776	154.1	16.43	7.815	29.2	0.01
1/24/20 21:15	4.045	125.7	9.56	7.75	29.2	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/24/20 21:30	5.136	121.2	5.343	7.773	29.2	0
1/24/20 21:45	5.562	123.3	7.468	7.978	29.2	0.01
1/24/20 22:00	4.657	127	11.96	8.09	29.19	0
1/24/20 22:15	4.267	125.2	7.324	8.06	29.19	0
1/24/20 22:30	4.585	131.8	7.882	8.15	29.19	0
1/24/20 22:45	4.604	124.6	5.212	8.22	29.19	0
1/24/20 23:00	5.889	128.6	5.859	8.3	29.16	0
1/24/20 23:15	6.098	127.3	7.14	8.37	29.16	0
1/24/20 23:30	6.556	134	7.737	8.6	29.16	0
1/24/20 23:45	5.731	145.3	7.696	8.49	29.16	0
1/25/20 0:00	6.032	142.2	7.742	8.4	29.16	0
1/25/20 0:15	6.725	140.3	7.938	8.25	29.16	0
1/25/20 0:30	5.978	144.6	7.788	8.16	29.16	0
1/25/20 0:45	6.187	143.6	7.739	8.24	29.16	0
1/25/20 1:00	5.88	154.1	11.55	8.18	29.15	0
1/25/20 1:15	5.814	131.4	12.41	8.07	29.15	0
1/25/20 1:30	6.854	135.8	10.9	8.14	29.15	0
1/25/20 1:45	5.648	147.5	15.38	8.24	29.15	0
1/25/20 2:00	5.639	141.6	14.3	8.21	29.1	0
1/25/20 2:15	6.514	134.7	14.1	8.09	29.1	0
1/25/20 2:30	6.185	134	17.12	8.22	29.1	0
1/25/20 2:45	7.492	153.9	38.25	8.06	29.1	0
1/25/20 3:00	6.476	130.7	13.55	8.5	29.09	0
1/25/20 3:15	7.74	203.9	21.4	8.12	29.09	0.02
1/25/20 3:30	8.38	168.9	23.46	7.425	29.09	0.01
1/25/20 3:45	6.872	140.8	11.75	7.285	29.09	0.01
1/25/20 4:00	4.374	169.1	28.9	6.999	29.11	0.01
1/25/20 4:15	3.203	210.1	17.64	6.761	29.11	0.01
1/25/20 4:30	1.35	182.7	29.64	6.709	29.11	0
1/25/20 4:45	0.793	65.41	4.114	6.731	29.11	0.01
1/25/20 5:00	0.842	67.16	6.294	6.878	29.07	0
1/25/20 5:15	0.194	65.57	0.126	6.936	29.07	0.01
1/25/20 5:30	0.248	92.2	5.302	6.863	29.07	0.01
1/25/20 5:45	2.352	77.89	26.54	6.68	29.07	0
1/25/20 6:00	6.825	129.2	14.18	6.871	29.06	0.03
1/25/20 6:15	9.35	131.7	14.87	6.81	29.06	0.01
1/25/20 6:30	8.95	127.3	11.46	6.958	29.06	0
1/25/20 6:45	5.551	101.4	19.69	6.702	29.06	0
1/25/20 7:00	3.949	96.6	20.23	6.782	29.09	0.01
1/25/20 7:15	3.902	112.4	17.9	6.817	29.09	0
1/25/20 7:30	3.49	104.4	13.13	6.755	29.09	0
1/25/20 7:45	3.573	125.2	23.09	6.885	29.09	0
1/25/20 8:00	3.305	139.2	20.66	7.036	29.08	0
1/25/20 8:15	4.29	124.8	28.6	7.123	29.08	0
1/25/20 8:30	2.319	49.88	26.49	6.661	29.08	0
1/25/20 8:45	2.926	76.56	14.79	6.573	29.08	0
1/25/20 9:00	1.867	89.2	40.99	6.644	29.12	0
1/25/20 9:15	2.782	141.7	32.06	7.187	29.12	0.01
1/25/20 9:30	2.67	149.2	49.26	7.324	29.12	0
1/25/20 9:45	3.671	182.1	26.98	7.311	29.12	0
1/25/20 10:00	3.652	142.5	13.12	7.371	29.14	0
1/25/20 10:15	2.612	130.7	15.63	7.324	29.14	0
1/25/20 10:30	3.565	156.2	12.21	7.537	29.14	0
1/25/20 10:45	4.014	153	19.7	7.838	29.14	0
1/25/20 11:00	4.923	142.1	10.06	8.28	29.16	0
1/25/20 11:15	2.77	144.6	25.96	8.48	29.16	0
1/25/20 11:30	2.745	220.3	16.87	8.28	29.16	0
1/25/20 11:45	1.4	130.2	42.37	8.75	29.16	0
1/25/20 12:00	1.684	83.9	12.97	8.76	29.19	0
1/25/20 12:15	1.718	109.3	25.97	8.97	29.19	0
1/25/20 12:30	2.038	144.6	18.65	9.37	29.19	0
1/25/20 12:45	4.485	191	13.84	9.51	29.19	0
1/25/20 13:00	3.573	176.7	37.66	9.73	29.2	0
1/25/20 13:15	6.145	217.8	19.35	9.68	29.2	0
1/25/20 13:30	6.363	217	14.15	9.84	29.2	0
1/25/20 13:45	4.808	199.8	17.67	9.91	29.2	0
1/25/20 14:00	5.942	204.5	18.04	10.15	29.17	0
1/25/20 14:15	4.864	218	17.1	10.37	29.17	0
1/25/20 14:30	5.129	228.1	13.16	10.47	29.17	0
1/25/20 14:45	6.64	239.4	18.95	10.66	29.17	0
1/25/20 15:00	5.663	245.2	12.17	10.82	29.17	0
1/25/20 15:15	3.313	218.8	19.43	10.74	29.17	0
1/25/20 15:30	1.952	231.5	16.6	11.39	29.17	0
1/25/20 15:45	2.32	160.3	52.98	10.83	29.17	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/25/20 16:00	1.992	9.78	45.47	10.39	29.19	0
1/25/20 16:15	7.352	294.6	10.05	10.01	29.19	0
1/25/20 16:30	6.198	301.7	8.25	9.5	29.19	0
1/25/20 16:45	5.509	327.4	6.451	9.28	29.19	0
1/25/20 17:00	4.898	342.2	13.6	9.05	29.17	0
1/25/20 17:15	5.002	332.1	7.561	8.77	29.17	0
1/25/20 17:30	3.829	1.595	11.07	8.77	29.17	0
1/25/20 17:45	3.12	25.17	7.858	8.8	29.17	0
1/25/20 18:00	4.383	43.22	6.832	8.43	29.16	0
1/25/20 18:15	4.936	46.17	6.017	8.29	29.16	0
1/25/20 18:30	5.7	55.62	5.978	8.09	29.16	0
1/25/20 18:45	5.761	54.89	7.093	7.92	29.16	0
1/25/20 19:00	5.143	51.46	7.516	7.679	29.13	0
1/25/20 19:15	5.01	47.68	6.958	7.618	29.13	0
1/25/20 19:30	4.954	43.49	10.54	7.398	29.13	0
1/25/20 19:45	5.514	47.52	8.54	7.286	29.13	0
1/25/20 20:00	8.3	44.73	8.26	7.171	29.06	0
1/25/20 20:15	9.2	40.34	8.05	6.982	29.06	0
1/25/20 20:30	6.446	40.16	9.77	6.826	29.06	0
1/25/20 20:45	3.945	65.52	15.52	6.718	29.06	0
1/25/20 21:00	1.973	42.13	26.63	6.614	29.05	0
1/25/20 21:15	3.057	219.5	17.85	7.167	29.05	0
1/25/20 21:30	1.762	147.6	16.09	6.785	29.05	0
1/25/20 21:45	4.374	149.6	25.83	6.866	29.05	0
1/25/20 22:00	3.805	113.3	28.16	7.188	29	0
1/25/20 22:15	5.731	117.1	16.08	7.941	29	0
1/25/20 22:30	8.5	156.1	9.34	8.23	29	0
1/25/20 22:45	7.8	119	18.77	8.06	29	0
1/25/20 23:00	8.49	119.7	19.33	8.09	29.01	0
1/25/20 23:15	12.11	143.8	13	9.29	29.01	0
1/25/20 23:30	9.61	145.8	11.5	9.53	29.01	0
1/25/20 23:45	10.85	151	17.71	9.75	29.01	0
1/26/20 0:00	14.27	130.3	12.16	10.15	28.97	0
1/26/20 0:15	17.76	130.6	11.37	10.84	28.97	0
1/26/20 0:30	16.74	139	10.09	11.65	28.97	0
1/26/20 0:45	14.83	147.2	9.28	11.56	28.97	0
1/26/20 1:00	18.3	139.2	10.58	10.83	28.97	0.01
1/26/20 1:15	19.18	136.7	9.41	10.16	28.97	0
1/26/20 1:30	18.35	129.1	10.21	9.5	28.97	0.02
1/26/20 1:45	15.86	122.5	12.21	9.5	28.97	0
1/26/20 2:00	16.29	132.5	10.51	9.44	28.92	0.01
1/26/20 2:15	18.4	135	11.12	9.46	28.92	0.01
1/26/20 2:30	19.56	138.6	8.93	9.11	28.92	0.01
1/26/20 2:45	21.31	136.8	10.02	8.92	28.92	0.01
1/26/20 3:00	20.77	140.4	9.4	8.81	28.93	0.01
1/26/20 3:15	17.63	142.9	9.66	8.64	28.93	0.01
1/26/20 3:30	13.8	153.3	11.53	8.4	28.93	0.02
1/26/20 3:45	11.7	181.1	22.67	8.07	28.93	0.02
1/26/20 4:00	11.36	177.7	15.25	8.05	29	0.03
1/26/20 4:15	10.82	151.2	11.52	7.898	29	0.01
1/26/20 4:30	12.68	141.4	10.43	7.975	29	0
1/26/20 4:45	8.35	163.1	15.21	7.827	29	0.02
1/26/20 5:00	10.42	154	12.37	7.992	29.03	0.03
1/26/20 5:15	12.35	145.6	7.548	7.609	29.03	0.02
1/26/20 5:30	12.12	142	9.11	7.543	29.03	0.01
1/26/20 5:45	12.25	146.6	9.2	7.548	29.03	0.01
1/26/20 6:00	11.8	143.4	8.65	7.461	29.04	0
1/26/20 6:15	12.03	158.9	7.625	7.799	29.04	0
1/26/20 6:30	12.53	163.3	6.739	7.879	29.04	0
1/26/20 6:45	11.96	163.9	6.594	8.06	29.04	0
1/26/20 7:00	13.88	166	9.02	8.15	29.08	0
1/26/20 7:15	11.91	172.4	9.77	8.11	29.08	0
1/26/20 7:30	11.01	174.2	8.27	8.09	29.08	0
1/26/20 7:45	9.64	172.4	10.84	7.982	29.08	0
1/26/20 8:00	8.94	160.1	8.44	7.854	29.1	0
1/26/20 8:15	11.53	168.6	7.069	8.1	29.1	0
1/26/20 8:30	11.25	179.1	8.52	8.25	29.1	0
1/26/20 8:45	14.21	194.4	8.41	8.4	29.1	0
1/26/20 9:00	14.25	204.4	8.16	8.38	29.12	0
1/26/20 9:15	15.57	209.5	9.79	8.38	29.12	0
1/26/20 9:30	12.58	213.7	8.15	8.32	29.12	0
1/26/20 9:45	13.02	210.9	8.41	8.47	29.12	0
1/26/20 10:00	13.57	215.4	7.299	8.53	29.17	0
1/26/20 10:15	12.6	210.5	9.01	8.89	29.17	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/26/20 10:30	12.07	200.7	8.56	8.81	29.17	0
1/26/20 10:45	11.36	205.4	7.631	8.77	29.17	0
1/26/20 11:00	9.41	205	9.18	8.95	29.2	0
1/26/20 11:15	11.25	209.7	11.17	9.04	29.2	0
1/26/20 11:30	11.3	216.5	9.92	9.16	29.2	0
1/26/20 11:45	10.33	222.5	10.63	9.15	29.2	0
1/26/20 12:00	13.61	229.5	8.88	9	29.2	0
1/26/20 12:15	13.46	245.4	9.94	8.91	29.2	0
1/26/20 12:30	10.01	244.6	8.29	9.11	29.2	0
1/26/20 12:45	8.99	240.3	9.06	9.39	29.2	0
1/26/20 13:00	7.783	213.2	12.67	9.82	29.18	0
1/26/20 13:15	9.13	210.1	10.78	9.79	29.18	0
1/26/20 13:30	8.75	200.5	11.74	10.31	29.18	0
1/26/20 13:45	8.21	197.8	12.32	10.37	29.18	0
1/26/20 14:00	8.05	194.5	13.21	10.44	29.18	0
1/26/20 14:15	10.05	198.8	10.03	10.01	29.18	0
1/26/20 14:30	7.824	206.5	8.43	10.06	29.18	0
1/26/20 14:45	8.38	200.3	5.405	10.13	29.18	0
1/26/20 15:00	9.52	195.6	8.41	10.33	29.15	0
1/26/20 15:15	8.74	193.6	9.01	10.32	29.15	0
1/26/20 15:30	8.83	199.6	9.01	10.26	29.15	0
1/26/20 15:45	9.14	200	7.742	10.26	29.15	0
1/26/20 16:00	8.63	201.8	8.98	10.3	29.19	0
1/26/20 16:15	6.984	203.2	10	10.22	29.19	0
1/26/20 16:30	6.642	202.7	8.84	10.04	29.19	0
1/26/20 16:45	10.98	227.1	13.98	9.7	29.19	0
1/26/20 17:00	10.2	206.5	18.92	8.34	29.2	0.01
1/26/20 17:15	3.511	155.3	19.64	7.878	29.2	0
1/26/20 17:30	3.275	147.2	16.39	7.642	29.2	0
1/26/20 17:45	6.152	170.5	21.39	8.01	29.2	0
1/26/20 18:00	5.3	176.3	6.154	8.29	29.17	0
1/26/20 18:15	4.783	159.6	9.1	8.1	29.17	0
1/26/20 18:30	6.805	153.1	7.834	8.13	29.17	0
1/26/20 18:45	7.706	145.1	9.5	8.35	29.17	0
1/26/20 19:00	9.89	160.2	7.738	8.53	29.18	0
1/26/20 19:15	6.559	147.7	7.359	8.35	29.18	0
1/26/20 19:30	8.59	158.3	7.508	8.23	29.18	0
1/26/20 19:45	9.17	157.5	8.79	7.788	29.18	0.01
1/26/20 20:00	9.87	177	11.54	7.515	29.2	0.02
1/26/20 20:15	5.822	150.5	13.39	6.975	29.2	0.01
1/26/20 20:30	3.385	136.1	10.91	6.969	29.2	0
1/26/20 20:45	4.554	149.1	12.19	7.118	29.2	0
1/26/20 21:00	8.05	186.4	24.69	6.99	29.2	0.02
1/26/20 21:15	8.08	193.9	20.42	6.647	29.2	0.01
1/26/20 21:30	9.43	197.1	11.91	6.635	29.2	0.01
1/26/20 21:45	12.44	191.6	8.16	6.785	29.2	0
1/26/20 22:00	8.79	167.8	9.61	6.421	29.24	0
1/26/20 22:15	9.33	168.7	7.571	6.439	29.24	0
1/26/20 22:30	9.21	170.2	8.46	6.423	29.24	0.01
1/26/20 22:45	8.61	186.4	10.62	6.511	29.24	0
1/26/20 23:00	8.31	166	9.95	6.403	29.26	0
1/26/20 23:15	10.24	190.6	9.69	6.721	29.26	0
1/26/20 23:30	11.34	199.5	8.11	6.523	29.26	0
1/26/20 23:45	11.24	198.3	7.033	6.38	29.26	0
1/27/20 0:00	9.23	188.6	9.31	6.404	29.26	0
1/27/20 0:15	9.35	187	7.689	6.399	29.26	0
1/27/20 0:30	8.37	182.1	11.74	6.34	29.26	0
1/27/20 0:45	6.063	167	11.11	6.11	29.26	0
1/27/20 1:00	8.09	178.8	11.35	6.333	29.29	0.01
1/27/20 1:15	8.49	184.2	12.5	6.462	29.29	0
1/27/20 1:30	8.19	197.2	9.51	6.425	29.29	0
1/27/20 1:45	8.68	201.3	11	6.227	29.29	0
1/27/20 2:00	7.859	178.4	11.08	5.936	29.28	0
1/27/20 2:15	7.58	178.5	8.74	5.792	29.28	0
1/27/20 2:30	9.86	189	6.91	6.184	29.28	0
1/27/20 2:45	10.73	192	7.99	6.402	29.28	0
1/27/20 3:00	11.54	194.9	7.417	6.492	29.32	0
1/27/20 3:15	9.1	198.7	7.968	6.192	29.32	0
1/27/20 3:30	9.64	214.3	10.2	6.051	29.32	0.01
1/27/20 3:45	8.41	205.9	9.97	5.962	29.32	0
1/27/20 4:00	8.45	190.8	8.53	5.911	29.34	0
1/27/20 4:15	8.47	191.6	8.27	5.753	29.34	0
1/27/20 4:30	7.979	177.8	10.07	5.334	29.34	0
1/27/20 4:45	5.784	151.8	12.7	4.94	29.34	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/27/20 5:00	4.428	138.8	10.67	4.982	29.34	0
1/27/20 5:15	5.23	143.9	7.177	5.037	29.34	0
1/27/20 5:30	5.612	146	10.24	4.895	29.34	0
1/27/20 5:45	7.244	158.2	13.51	5.235	29.34	0
1/27/20 6:00	7.138	156.6	9.44	5.458	29.34	0
1/27/20 6:15	6.52	154.9	9.5	5.388	29.34	0
1/27/20 6:30	6.904	158	7.543	5.251	29.34	0
1/27/20 6:45	5.791	157.3	8.67	5.186	29.34	0
1/27/20 7:00	3.597	154.4	10.45	5.094	29.34	0
1/27/20 7:15	3.692	158.7	13.08	4.963	29.34	0
1/27/20 7:30	4.94	147.9	6.346	5.08	29.34	0
1/27/20 7:45	4.863	144.6	7.248	5.323	29.34	0
1/27/20 8:00	4.166	134.9	9.23	5.461	29.34	0
1/27/20 8:15	3.163	122.8	11.75	5.67	29.34	0
1/27/20 8:30	2.838	121	11.79	5.978	29.34	0
1/27/20 8:45	3.859	135.4	7.223	6.283	29.34	0
1/27/20 9:00	5.155	152.2	8.96	6.161	29.35	0
1/27/20 9:15	5.87	152.9	8.6	7.042	29.35	0
1/27/20 9:30	6.747	160.9	8.42	7.485	29.35	0
1/27/20 9:45	5.36	143.8	13.3	7.677	29.35	0
1/27/20 10:00	5.511	139.6	9.19	7.993	29.33	0
1/27/20 10:15	5.648	149.3	10.26	8.17	29.33	0
1/27/20 10:30	6.195	144.3	13.29	8.24	29.33	0
1/27/20 10:45	5.319	135.8	10.95	8.08	29.33	0
1/27/20 11:00	5.455	139	11.61	8.51	29.33	0
1/27/20 11:15	5.844	160.2	12.06	9.02	29.33	0
1/27/20 11:30	5.801	167.2	16.72	9.57	29.33	0
1/27/20 11:45	5.708	162.3	19.81	9.66	29.33	0
1/27/20 12:00	5.178	172.5	28.62	9.86	29.32	0
1/27/20 12:15	5.319	188.7	27.83	9.61	29.32	0
1/27/20 12:30	4.589	160.8	21.9	9.46	29.32	0
1/27/20 12:45	3.751	146	27.12	9.33	29.32	0
1/27/20 13:00	3.678	106.6	13.69	9.31	29.29	0
1/27/20 13:15	3.794	112.9	13.26	9.21	29.29	0
1/27/20 13:30	4.382	128.8	14.04	9.13	29.29	0
1/27/20 13:45	4.8	112.2	8.93	8.99	29.29	0
1/27/20 14:00	4.143	110.2	11.33	8.89	29.24	0
1/27/20 14:15	3.937	96	18.73	8.85	29.24	0
1/27/20 14:30	2.872	98	32.03	8.79	29.24	0
1/27/20 14:45	3.495	129.7	15.38	8.79	29.24	0
1/27/20 15:00	7.096	123.7	13.82	8.82	29.19	0
1/27/20 15:15	12.39	139.3	11.19	8.85	29.19	0
1/27/20 15:30	11.59	142	10.83	8.7	29.19	0
1/27/20 15:45	10.7	148.8	12.28	8.59	29.19	0
1/27/20 16:00	9.1	149.7	9.66	8.55	29.18	0
1/27/20 16:15	8.14	141.3	13.26	8.46	29.18	0
1/27/20 16:30	9.13	147.4	9.35	8.17	29.18	0
1/27/20 16:45	10.47	160.3	9.77	7.839	29.18	0
1/27/20 17:00	13.02	155.8	14.84	7.015	29.16	0.02
1/27/20 17:15	12.7	134.1	12.28	6.453	29.16	0.03
1/27/20 17:30	14.31	131.4	9.81	6.05	29.16	0.03
1/27/20 17:45	16.21	127.1	11.11	5.842	29.16	0.01
1/27/20 18:00	13.18	120.3	11.65	5.728	29.1	0
1/27/20 18:15	13.41	125.2	11.26	6.06	29.1	0.01
1/27/20 18:30	14.81	131.1	11.72	6.436	29.1	0
1/27/20 18:45	17.37	133.1	10.29	6.244	29.1	0.02
1/27/20 19:00	20.54	135.2	10.18	6.324	29.03	0.01
1/27/20 19:15	20.83	135.1	11.18	6.382	29.03	0
1/27/20 19:30	21.44	138.4	10.42	6.568	29.03	0
1/27/20 19:45	21.56	137.4	10.23	6.788	29.03	0
1/27/20 20:00	21.35	136.3	10.27	6.776	29.04	0.01
1/27/20 20:15	19.74	137.6	10.19	6.469	29.04	0.02
1/27/20 20:30	20.64	137.4	10.01	6.234	29.04	0.03
1/27/20 20:45	20.71	134.9	10.39	6.084	29.04	0.03
1/27/20 21:00	21.34	137	9.61	6.196	29.03	0.03
1/27/20 21:15	19.23	138.9	10.12	6.029	29.03	0.05
1/27/20 21:30	19.95	139.9	9.64	6.075	29.03	0.03
1/27/20 21:45	18.99	140.9	9.16	6.139	29.03	0.02
1/27/20 22:00	18.62	138.5	8.88	6.187	29.02	0.01
1/27/20 22:15	18.88	138.6	9.01	6.193	29.02	0.04
1/27/20 22:30	17.56	140.4	9.67	6.133	29.02	0.03
1/27/20 22:45	17.43	140.4	9.33	6.175	29.02	0.03
1/27/20 23:00	14.78	139.7	10.04	6.51	29.07	0.01
1/27/20 23:15	15.81	143	9.8	6.851	29.07	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
1/27/20 23:30	15.87	142.2	9.66	6.991	29.07	0
1/27/20 23:45	13.86	149.5	11	7.196	29.07	0
1/28/20 0:00	14.26	140.3	8.76	7.372	29.06	0.01
1/28/20 0:15	13.11	147.6	11.21	7.125	29.06	0.04
1/28/20 0:30	11.04	152.2	11.83	6.891	29.06	0.04
1/28/20 0:45	7.927	152.8	14.72	6.756	29.06	0.05
1/28/20 1:00	6.58	161.3	11.74	6.914	29.05	0.02
1/28/20 1:15	6.862	153.4	21.46	6.783	29.05	0.01
1/28/20 1:30	8.94	149.7	13.34	6.927	29.05	0
1/28/20 1:45	8.69	156.1	10.52	6.73	29.05	0
1/28/20 2:00	9.88	150.4	9.34	6.83	29.08	0
1/28/20 2:15	8.7	148	9.01	6.739	29.08	0.01
1/28/20 2:30	9.99	141.1	10.23	6.601	29.08	0
1/28/20 2:45	10.64	141.1	10.6	6.979	29.08	0
1/28/20 3:00	9.57	146	9.91	7.107	29.05	0
1/28/20 3:15	11.45	140.3	9.96	7.402	29.05	0
1/28/20 3:30	10.61	140.9	9.19	7.647	29.05	0
1/28/20 3:45	11.02	137.6	9.47	7.818	29.05	0
1/28/20 4:00	12.03	141.6	8.88	7.864	29.05	0
1/28/20 4:15	12.35	140.5	8.19	7.713	29.05	0
1/28/20 4:30	11.64	136.4	9.21	7.855	29.05	0
1/28/20 4:45	7.874	138.2	11.61	8.13	29.05	0
1/28/20 5:00	9.61	151.9	11.22	7.955	29.01	0
1/28/20 5:15	9.29	145.2	10.07	7.929	29.01	0
1/28/20 5:30	8.69	155.9	11.26	7.959	29.01	0
1/28/20 5:45	7.169	162.2	16.21	7.532	29.01	0
1/28/20 6:00	6.946	158.5	24.92	7.492	29.04	0.02
1/28/20 6:15	6.069	160.8	14.72	7.099	29.04	0.01
1/28/20 6:30	7.789	245.9	42.31	6.511	29.04	0.01
1/28/20 6:45	5.284	252.2	19.64	5.831	29.04	0.02
1/28/20 7:00	5.075	248.9	11.59	5.93	29.06	0.02
1/28/20 7:15	3.951	227	16.6	5.987	29.06	0.01
1/28/20 7:30	3.256	148.9	28.23	5.842	29.06	0.01
1/28/20 7:45	5.113	105.4	15.76	5.562	29.06	0.01
1/28/20 8:00	5.672	122.5	9.53	5.527	29.09	0.01
1/28/20 8:15	7.589	127.3	8.76	5.757	29.09	0
1/28/20 8:30	7.056	123.8	10.34	5.938	29.09	0
1/28/20 8:45	6.16	123.7	9.34	6.059	29.09	0.01
1/28/20 9:00	5.712	124.8	12.02	6.315	29.11	0
1/28/20 9:15	4.75	142.9	16.34	6.546	29.11	0
1/28/20 9:30	3.767	115.1	11.85	6.805	29.11	0
1/28/20 9:45	2.315	151.4	37.09	6.984	29.11	0
1/28/20 10:00	2.549	163.7	21.31	6.914	29.11	0
1/28/20 10:15	1.654	143	27.85	6.733	29.11	0
1/28/20 10:30	2.708	120.6	23.06	6.754	29.11	0
1/28/20 10:45	1.187	70.77	25.76	6.839	29.11	0
1/28/20 11:00	2.509	188.6	27.28	7.074	29.17	0
1/28/20 11:15	5.954	195.8	11.48	7.231	29.17	0
1/28/20 11:30	5.371	165.9	20.01	7.752	29.17	0
1/28/20 11:45	4.443	143.6	12.05	7.826	29.17	0
1/28/20 12:00	2.74	142.2	27.41	7.936	29.18	0
1/28/20 12:15	3.065	108.3	14.36	7.787	29.18	0.01
1/28/20 12:30	3.732	89	11.28	7.557	29.18	0
1/28/20 12:45	4.106	104.7	14.85	7.862	29.18	0
1/28/20 13:00	5.141	134.5	14.95	8.19	29.17	0
1/28/20 13:15	5.412	149.7	9.28	8.65	29.17	0
1/28/20 13:30	5.843	155.8	10.29	8.48	29.17	0
1/28/20 13:45	4.119	125.6	12.76	8.64	29.17	0
1/28/20 14:00	4.638	151.8	15.33	8.75	29.2	0
1/28/20 14:15	5.823	142.8	10	8.76	29.2	0
1/28/20 14:30	6.453	134.4	9.69	8.77	29.2	0
1/28/20 14:45	5.548	123.5	10.54	8.76	29.2	0
1/28/20 15:00	5.143	129.7	10.05	8.81	29.22	0
1/28/20 15:15	5.15	132.7	11.35	8.84	29.22	0
1/28/20 15:30	4.802	143.4	9.15	8.8	29.22	0
1/28/20 15:45	3.688	149.3	6.215	8.58	29.22	0
1/28/20 16:00	0.875	182.2	48.48	8.57	29.25	0
1/28/20 16:15	2.39	145.5	20.9	8.6	29.25	0
1/28/20 16:30	4.106	171.5	12.64	8.46	29.25	0
1/28/20 16:45	3.329	126.6	14.22	8.09	29.25	0
1/28/20 17:00	3.029	107.9	12.14	7.894	29.27	0
1/28/20 17:15	1.879	121.6	20.6	7.78	29.27	0
1/28/20 17:30	2.078	112.9	12.43	7.721	29.27	0
1/28/20 17:45	2.351	110.9	8.84	7.683	29.27	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/28/20 18:00	2.628	131.8	7.882	7.73	29.31	0
1/28/20 18:15	2.881	128.3	11.77	7.887	29.31	0
1/28/20 18:30	2.096	184.3	19.91	7.814	29.31	0.02
1/28/20 18:45	2.511	204.3	27.16	7.747	29.31	0.01
1/28/20 19:00	3.851	200.9	21.21	7.626	29.35	0
1/28/20 19:15	2.778	186.6	26.97	7.546	29.35	0.01
1/28/20 19:30	2.559	149.6	17.56	7.492	29.35	0.01
1/28/20 19:45	2.934	119.6	17.18	7.426	29.35	0
1/28/20 20:00	5.613	132	6.634	7.325	29.35	0
1/28/20 20:15	5.68	130.2	9.43	7.347	29.35	0
1/28/20 20:30	5.468	136.9	8.55	7.434	29.35	0
1/28/20 20:45	5.616	140.5	6.909	7.6	29.35	0
1/28/20 21:00	5.244	140.4	7.272	7.725	29.38	0
1/28/20 21:15	5.746	138.9	5.922	7.686	29.38	0
1/28/20 21:30	6.509	145.2	8.34	7.755	29.38	0
1/28/20 21:45	6.553	144.5	8.82	7.854	29.38	0
1/28/20 22:00	5.942	147.4	7.7	7.757	29.38	0
1/28/20 22:15	5.277	157	8.99	7.805	29.38	0
1/28/20 22:30	5.806	172.6	9.16	7.767	29.38	0
1/28/20 22:45	6.126	162.9	8.82	7.599	29.38	0
1/28/20 23:00	5.168	157.7	10.53	7.548	29.37	0
1/28/20 23:15	5.216	153.7	7.317	7.534	29.37	0
1/28/20 23:30	5.395	168.6	8.99	7.619	29.37	0
1/28/20 23:45	5.159	172.8	8.41	7.551	29.37	0
1/29/20 0:00	4.304	188.6	15.03	7.452	29.4	0
1/29/20 0:15	4.49	158.2	12.47	7.48	29.4	0
1/29/20 0:30	4.212	177.7	19.86	7.291	29.4	0
1/29/20 0:45	3.639	179.3	14.67	7.525	29.4	0
1/29/20 1:00	4.653	166.7	7.516	7.427	29.38	0
1/29/20 1:15	4.328	172.4	10.33	7.361	29.38	0
1/29/20 1:30	5.212	171.3	20.39	7.316	29.38	0
1/29/20 1:45	3.829	171	16.22	7.244	29.38	0
1/29/20 2:00	4.08	174.9	13.72	7.236	29.39	0
1/29/20 2:15	3.623	177.4	11.16	7.185	29.39	0
1/29/20 2:30	3.555	179	8.64	7.198	29.39	0
1/29/20 2:45	3.73	185.7	14.15	7.163	29.39	0
1/29/20 3:00	3.996	200.3	17.4	6.856	29.4	0
1/29/20 3:15	4.056	182.7	22.13	6.834	29.4	0
1/29/20 3:30	2.806	168.5	20.73	6.704	29.4	0
1/29/20 3:45	3.988	139.1	8.62	6.701	29.4	0
1/29/20 4:00	4.448	141.1	7.292	6.897	29.37	0
1/29/20 4:15	5.335	149.1	5.468	7.075	29.37	0
1/29/20 4:30	4.657	153.9	7.76	7.051	29.37	0
1/29/20 4:45	4.422	154.5	16.69	6.931	29.37	0
1/29/20 5:00	6.364	152.9	9.73	6.986	29.34	0
1/29/20 5:15	5.732	154.4	10.94	7.152	29.34	0
1/29/20 5:30	5.334	174.5	22.15	7.037	29.34	0
1/29/20 5:45	4.89	206.7	15.87	6.409	29.34	0
1/29/20 6:00	5.402	185.3	24.15	6.404	29.32	0
1/29/20 6:15	5.212	193.6	18.13	6.265	29.32	0
1/29/20 6:30	5.472	202.2	18.1	6.131	29.32	0
1/29/20 6:45	5.434	182.6	17.9	6.326	29.32	0
1/29/20 7:00	4.724	183.9	15.45	6.165	29.31	0
1/29/20 7:15	5.662	155.5	9.44	6.135	29.31	0.01
1/29/20 7:30	6.745	146.2	7.242	6.335	29.31	0.01
1/29/20 7:45	8.14	136.2	10.19	6.68	29.31	0
1/29/20 8:00	7.262	136.2	9.53	6.907	29.29	0
1/29/20 8:15	6.338	174.9	17.36	6.918	29.29	0
1/29/20 8:30	8.09	164.8	9.33	6.708	29.29	0
1/29/20 8:45	6.38	174.3	12.22	6.674	29.29	0
1/29/20 9:00	6.116	173.7	11.17	6.796	29.25	0
1/29/20 9:15	7.227	168.4	8.29	6.884	29.25	0
1/29/20 9:30	6.705	167.3	9.07	6.966	29.25	0.01
1/29/20 9:45	7.149	162.2	9.7	6.896	29.25	0.01
1/29/20 10:00	7.355	154.3	9.24	6.913	29.27	0.01
1/29/20 10:15	7.637	147.7	8.5	7.054	29.27	0.01
1/29/20 10:30	7.156	142.8	10.07	7.073	29.27	0.01
1/29/20 10:45	6.822	137.1	11.23	7.138	29.27	0.01
1/29/20 11:00	6.616	146.2	12.27	7.338	29.27	0.02
1/29/20 11:15	7.283	155	11.1	7.57	29.27	0.01
1/29/20 11:30	6.414	158.6	13.56	7.693	29.27	0.02
1/29/20 11:45	7.263	160.1	11.38	7.824	29.27	0.01
1/29/20 12:00	5.384	158.9	17.42	7.716	29.28	0.01
1/29/20 12:15	5.442	148.7	8.37	7.69	29.28	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/29/20 12:30	5.431	158.3	11.43	7.848	29.28	0.01
1/29/20 12:45	4.961	159.2	9.79	7.893	29.28	0
1/29/20 13:00	5.828	161	8.73	7.87	29.25	0.01
1/29/20 13:15	9.33	164.1	6.463	7.931	29.25	0.01
1/29/20 13:30	9.58	165.7	9.18	7.878	29.25	0
1/29/20 13:45	6.66	173	13.63	7.881	29.25	0
1/29/20 14:00	10.15	165.9	13.03	7.787	29.26	0
1/29/20 14:15	8.76	148.2	14.24	7.731	29.26	0
1/29/20 14:30	5.991	164.2	18.06	7.984	29.26	0
1/29/20 14:45	9.08	166.4	9.78	8.06	29.26	0
1/29/20 15:00	5.423	144.1	16.2	8.11	29.31	0
1/29/20 15:15	5.398	136.4	10.08	8.08	29.31	0
1/29/20 15:30	5.022	146.5	12.68	8.25	29.31	0
1/29/20 15:45	3.694	123	12.9	8.31	29.31	0
1/29/20 16:00	3.158	100.2	7.87	8.18	29.31	0
1/29/20 16:15	2.705	70.61	23.98	8.23	29.31	0
1/29/20 16:30	2.974	60.51	12.57	8.11	29.31	0.01
1/29/20 16:45	1.725	57.32	16.52	7.904	29.31	0.01
1/29/20 17:00	1.499	48.76	9.75	7.793	29.34	0
1/29/20 17:15	1.291	59.45	18.06	7.719	29.34	0
1/29/20 17:30	1.245	43.02	10.95	7.702	29.34	0
1/29/20 17:45	1.032	46.84	16.41	7.753	29.34	0
1/29/20 18:00	1.87	71.49	6.468	7.782	29.36	0
1/29/20 18:15	0.593	124.2	15.32	7.783	29.36	0
1/29/20 18:30	0.741	116.2	20.9	7.953	29.36	0
1/29/20 18:45	1.673	196	13.05	7.783	29.36	0
1/29/20 19:00	2.966	217.8	17.71	7.707	29.36	0
1/29/20 19:15	1.312	248.9	56.81	7.613	29.36	0
1/29/20 19:30	1.578	3.093	12.15	7.601	29.36	0
1/29/20 19:45	1.961	46.09	9.48	7.531	29.36	0
1/29/20 20:00	1.428	28.75	18.41	7.544	29.38	0
1/29/20 20:15	1.337	18.23	17.27	7.481	29.38	0
1/29/20 20:30	2.261	58.76	14.54	7.36	29.38	0
1/29/20 20:45	3.124	50.06	12.23	7.216	29.38	0
1/29/20 21:00	2.834	44.26	11.48	7.216	29.42	0
1/29/20 21:15	4.722	40.6	8.68	6.983	29.42	0
1/29/20 21:30	5.506	40.95	8.62	6.95	29.42	0
1/29/20 21:45	4.104	42.12	8.99	6.839	29.42	0
1/29/20 22:00	3.47	55.31	11.96	6.583	29.4	0.01
1/29/20 22:15	4.818	63.86	10.49	6.291	29.4	0
1/29/20 22:30	4.289	87.5	14.96	6.149	29.4	0
1/29/20 22:45	3.909	63.3	6.896	6.121	29.4	0
1/29/20 23:00	3.914	64.95	8.64	6.425	29.41	0
1/29/20 23:15	3.251	94.4	15.03	6.681	29.41	0
1/29/20 23:30	3.552	105.5	12.09	6.477	29.41	0
1/29/20 23:45	4.779	133.8	10.56	6.588	29.41	0
1/30/20 0:00	5.461	138.8	8.13	6.587	29.41	0
1/30/20 0:15	4.763	146.1	6.934	6.606	29.41	0
1/30/20 0:30	5.706	164	7.73	6.872	29.41	0
1/30/20 0:45	5.805	189.6	16.35	6.644	29.41	0
1/30/20 1:00	5.754	188.5	15.49	6.613	29.42	0
1/30/20 1:15	3.751	202.6	17.45	6.525	29.42	0
1/30/20 1:30	3.363	211.1	12.92	6.655	29.42	0
1/30/20 1:45	3.816	191.3	14.64	6.666	29.42	0
1/30/20 2:00	3.447	183.9	18.82	6.501	29.44	0
1/30/20 2:15	2.985	158.9	12.62	6.185	29.44	0
1/30/20 2:30	3.538	159.1	18.15	6.223	29.44	0
1/30/20 2:45	3.706	138.3	14.43	5.913	29.44	0
1/30/20 3:00	4.348	152.4	13.89	5.94	29.44	0
1/30/20 3:15	4.851	202.3	13.25	5.968	29.44	0
1/30/20 3:30	4.051	191	15.34	5.995	29.44	0
1/30/20 3:45	2.528	163.2	19.29	5.9	29.44	0
1/30/20 4:00	2.053	120.4	8.76	5.594	29.48	0
1/30/20 4:15	2.415	161.5	22.19	5.665	29.48	0
1/30/20 4:30	1.931	166.5	10.06	5.904	29.48	0
1/30/20 4:45	1.068	234.8	37.01	6.137	29.48	0
1/30/20 5:00	0.926	243.8	8.69	5.938	29.46	0
1/30/20 5:15	2.026	133.6	5.372	5.629	29.46	0
1/30/20 5:30	2.796	135.7	12.88	5.583	29.46	0
1/30/20 5:45	2.036	171.8	26.73	5.796	29.46	0
1/30/20 6:00	4.29	227.6	7.619	5.185	29.45	0
1/30/20 6:15	4.316	213.7	9.44	4.712	29.45	0
1/30/20 6:30	4.807	203.7	7.078	4.666	29.45	0
1/30/20 6:45	2.178	193.6	34.08	4.543	29.45	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/30/20 7:00	2.367	356.7	20.01	4.34	29.45	0
1/30/20 7:15	2.805	278.9	51.02	4.456	29.45	0
1/30/20 7:30	3.827	163.4	12.71	4.023	29.45	0
1/30/20 7:45	1.334	46.08	69.68	4.079	29.45	0
1/30/20 8:00	1.874	217.2	52.07	4.571	29.45	0
1/30/20 8:15	3.551	183.4	12.65	3.945	29.45	0
1/30/20 8:30	3.5	202.8	9.5	4.07	29.45	0
1/30/20 8:45	2.765	170.5	40.69	3.91	29.45	0
1/30/20 9:00	1.104	132.3	23.19	4.072	29.46	0
1/30/20 9:15	0.914	156.9	57.84	4.514	29.46	0
1/30/20 9:30	2.768	112.7	6.666	4.42	29.46	0
1/30/20 9:45	4.949	162.8	12.03	4.759	29.46	0
1/30/20 10:00	4.29	169.9	12.59	5.06	29.47	0
1/30/20 10:15	4.343	142.9	13.03	5.183	29.47	0
1/30/20 10:30	5.716	123.7	7.028	5.387	29.47	0
1/30/20 10:45	4.312	138.4	12.57	5.86	29.47	0
1/30/20 11:00	3.083	151.4	14.72	6.601	29.42	0
1/30/20 11:15	3.197	213.7	30.68	7.285	29.42	0
1/30/20 11:30	5.652	225.1	13.1	7.746	29.42	0
1/30/20 11:45	6.953	231.7	8.17	7.492	29.42	0
1/30/20 12:00	6.382	233.9	8.84	7.24	29.42	0
1/30/20 12:15	5.639	256.3	6.916	7.265	29.42	0
1/30/20 12:30	4.677	232.3	14.66	7.269	29.42	0
1/30/20 12:45	4.858	212.3	9.39	7.194	29.42	0
1/30/20 13:00	5.903	228.7	10.43	7.09	29.37	0
1/30/20 13:15	6.876	213.1	7.528	7.125	29.37	0
1/30/20 13:30	5.898	200.6	12.31	7.064	29.37	0
1/30/20 13:45	5.512	177.4	13.11	7.289	29.37	0
1/30/20 14:00	5.942	206.2	7.907	7.173	29.34	0
1/30/20 14:15	8.02	223.1	4.876	7.082	29.34	0
1/30/20 14:30	6.854	218.8	4.392	7.05	29.34	0
1/30/20 14:45	7.05	202.6	7.031	7.068	29.34	0
1/30/20 15:00	6.894	210.6	8.6	7.029	29.35	0
1/30/20 15:15	5.977	214.7	7.052	6.955	29.35	0
1/30/20 15:30	3.301	193.5	11.66	6.823	29.35	0
1/30/20 15:45	4.027	195.1	12	6.795	29.35	0
1/30/20 16:00	6.15	146.1	12.19	6.65	29.3	0
1/30/20 16:15	6.353	162.3	8.39	6.647	29.3	0
1/30/20 16:30	5.307	196.4	23.11	6.769	29.3	0
1/30/20 16:45	4.96	203.7	13.68	6.773	29.3	0
1/30/20 17:00	4.341	148.4	15.28	6.652	29.31	0
1/30/20 17:15	5.798	127.7	10.37	6.574	29.31	0
1/30/20 17:30	4.727	164.4	21.41	6.863	29.31	0
1/30/20 17:45	5.93	241.5	20.01	6.969	29.31	0
1/30/20 18:00	5.414	226	19.3	6.895	29.29	0.01
1/30/20 18:15	4.009	162.7	19.04	6.586	29.29	0.01
1/30/20 18:30	5.477	141.3	10.04	6.325	29.29	0.01
1/30/20 18:45	8.72	144.5	14.58	6.623	29.29	0.02
1/30/20 19:00	8.93	145	8.18	6.675	29.28	0.02
1/30/20 19:15	10.16	132.1	9.9	6.66	29.28	0.02
1/30/20 19:30	9.51	138.3	10.82	6.704	29.28	0.02
1/30/20 19:45	10.52	136.7	10.31	6.869	29.28	0.01
1/30/20 20:00	5.981	139.8	13.06	6.858	29.24	0.01
1/30/20 20:15	6.485	129.9	9.99	6.789	29.24	0.01
1/30/20 20:30	5.902	119.9	13.24	6.608	29.24	0
1/30/20 20:45	7.247	116.5	8.08	7.018	29.24	0.01
1/30/20 21:00	8.11	131.4	11.38	7.689	29.25	0.01
1/30/20 21:15	8.72	145	7.511	8.41	29.25	0.01
1/30/20 21:30	7.909	150.9	9.35	8.76	29.25	0.01
1/30/20 21:45	6.573	167.9	11.75	8.43	29.25	0
1/30/20 22:00	6.935	156.4	7.799	8.36	29.25	0.01
1/30/20 22:15	7.726	152.1	8.7	8.62	29.25	0
1/30/20 22:30	9.67	150.9	8.29	8.85	29.25	0
1/30/20 22:45	9.5	153.9	8.39	8.83	29.25	0.01
1/30/20 23:00	8.93	161	10.38	8.86	29.25	0.02
1/30/20 23:15	10.89	169.5	6.368	9.07	29.25	0.01
1/30/20 23:30	11.24	171.6	6.958	9.2	29.25	0.02
1/30/20 23:45	9.57	175.8	9.58	9.39	29.25	0.01
1/31/20 0:00	6.59	178.3	8.32	9.54	29.29	0.01
1/31/20 0:15	8.38	189.3	8.67	9.73	29.29	0.02
1/31/20 0:30	9.54	188.9	9.08	9.73	29.29	0.01
1/31/20 0:45	9.83	186.4	7.593	9.75	29.29	0
1/31/20 1:00	9.74	184	8.02	9.79	29.28	0.01
1/31/20 1:15	10.43	183.9	8.77	9.8	29.28	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/31/20 1:30	11.25	186	8.66	9.87	29.28	0.01
1/31/20 1:45	10.53	186.7	8.17	9.88	29.28	0.01
1/31/20 2:00	12.36	189.3	7.807	9.9	29.29	0.02
1/31/20 2:15	12.53	186.3	9.69	9.98	29.29	0.02
1/31/20 2:30	12.13	188.5	8.25	10.03	29.29	0
1/31/20 2:45	12.02	188.1	9.05	10.11	29.29	0.01
1/31/20 3:00	11.03	190.5	8.64	10.1	29.29	0.01
1/31/20 3:15	10.78	190.6	7.301	10.1	29.29	0
1/31/20 3:30	9.7	184.1	8.98	10.14	29.29	0.01
1/31/20 3:45	8.34	172.7	7.678	10.18	29.29	0
1/31/20 4:00	9.74	170.8	8.12	10.3	29.28	0.01
1/31/20 4:15	10.35	170.5	9.59	10.34	29.28	0.01
1/31/20 4:30	10.36	177.7	10.67	10.4	29.28	0.01
1/31/20 4:45	9.35	180.4	10.74	10.41	29.28	0.01
1/31/20 5:00	10.01	167	6.44	10.37	29.28	0.01
1/31/20 5:15	10.19	165.5	6.316	10.37	29.28	0.01
1/31/20 5:30	10.5	165.8	7.619	10.38	29.28	0
1/31/20 5:45	9.13	166	8.92	10.42	29.28	0.01
1/31/20 6:00	10.89	169.7	8.41	10.5	29.28	0
1/31/20 6:15	10.68	173	7.866	10.52	29.28	0.01
1/31/20 6:30	10.75	169.1	6.471	10.48	29.28	0.01
1/31/20 6:45	8.25	176.7	9.01	10.51	29.28	0
1/31/20 7:00	8.46	183.8	8.24	10.53	29.26	0.01
1/31/20 7:15	9.1	183.5	9.62	10.57	29.26	0.02
1/31/20 7:30	7.844	171.8	10.11	10.52	29.26	0.03
1/31/20 7:45	8.08	159.7	7.837	10.5	29.26	0.01
1/31/20 8:00	6.124	154.1	8.41	10.51	29.23	0.01
1/31/20 8:15	6.221	143.3	6.617	10.54	29.23	0.01
1/31/20 8:30	6.002	130.2	9.77	10.57	29.23	0.01
1/31/20 8:45	3.675	139.3	12.74	10.65	29.23	0.03
1/31/20 9:00	3.284	140.5	16.14	10.7	29.24	0.03
1/31/20 9:15	3.611	137.8	12.87	10.74	29.24	0.02
1/31/20 9:30	4.866	151.4	9.67	10.84	29.24	0.01
1/31/20 9:45	8.27	166.4	15.83	10.99	29.24	0.01
1/31/20 10:00	8.05	170.1	12.51	11.22	29.24	0.01
1/31/20 10:15	9.71	161.8	7.969	11.24	29.24	0
1/31/20 10:30	9.25	154.4	8.29	11.25	29.24	0.01
1/31/20 10:45	9.73	154.6	8.11	11.31	29.24	0.01
1/31/20 11:00	10.25	161.8	7.849	11.43	29.21	0.01
1/31/20 11:15	13.84	181	11.97	11.7	29.21	0.01
1/31/20 11:30	17.31	190.1	7.492	11.85	29.21	0.01
1/31/20 11:45	17.19	194	8.3	11.97	29.21	0.02
1/31/20 12:00	15.71	188.8	7.387	12.08	29.24	0.03
1/31/20 12:15	15.56	188.5	8.19	12.22	29.24	0.01
1/31/20 12:30	15	189	7.098	12.38	29.24	0.03
1/31/20 12:45	14.02	188.8	8.13	12.42	29.24	0.03
1/31/20 13:00	13.58	186.5	8.08	12.53	29.24	0.04
1/31/20 13:15	14.12	183.1	10.22	12.65	29.24	0.02
1/31/20 13:30	14.6	178.4	8.69	12.7	29.24	0.02
1/31/20 13:45	12.47	182.5	11.6	12.7	29.24	0.02
1/31/20 14:00	15.19	183.2	9.35	12.68	29.24	0.02
1/31/20 14:15	14.46	174.2	8.91	12.66	29.24	0.03
1/31/20 14:30	14.96	170.1	7.549	12.62	29.24	0.01
1/31/20 14:45	15.51	172.6	8.68	12.55	29.24	0.04
1/31/20 15:00	13.96	183.2	8.28	12.51	29.25	0.03
1/31/20 15:15	12.51	180.9	11.7	12.45	29.25	0.04
1/31/20 15:30	12.08	170.6	8.6	12.5	29.25	0
1/31/20 15:45	13.85	170.5	8.21	12.65	29.25	0
1/31/20 16:00	12.41	175.8	11.41	12.7	29.23	0
1/31/20 16:15	12.81	188.1	8.67	12.75	29.23	0.01
1/31/20 16:30	10.94	183.6	9.09	12.58	29.23	0.02
1/31/20 16:45	11.78	181.3	10.45	12.47	29.23	0.01
1/31/20 17:00	14.53	194.2	7.92	12.42	29.23	0.02
1/31/20 17:15	13.66	193.2	9.13	12.22	29.23	0.03
1/31/20 17:30	12.22	190	7.62	12.14	29.23	0.01
1/31/20 17:45	11.89	192.4	8.92	12.19	29.23	0.02
1/31/20 18:00	9.77	190.8	7.385	12.21	29.22	0.02
1/31/20 18:15	8.82	184.8	9.72	12.17	29.22	0.01
1/31/20 18:30	9.87	179.7	12.72	12.39	29.22	0
1/31/20 18:45	15.22	195.4	9.47	12.84	29.22	0
1/31/20 19:00	17.6	198.3	8.68	12.93	29.16	0
1/31/20 19:15	23.28	194.8	9.05	13.19	29.16	0
1/31/20 19:30	17.88	189.5	13.19	13.04	29.16	0
1/31/20 19:45	17.23	193.8	8.21	12.97	29.16	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
1/31/20 20:00	19.94	196.3	8.14	13.19	29.16	0
1/31/20 20:15	17.74	196.6	8.15	13.23	29.16	0
1/31/20 20:30	18.56	199.1	8.56	13.4	29.16	0
1/31/20 20:45	19.63	200.9	7.918	13.57	29.16	0
1/31/20 21:00	21.22	203.1	7.848	13.77	29.13	0
1/31/20 21:15	21.08	205	8.39	13.87	29.13	0
1/31/20 21:30	19.67	201.3	9.08	13.95	29.13	0
1/31/20 21:45	18.38	208.1	8.17	14.02	29.13	0
1/31/20 22:00	18.25	215.5	10.08	14.08	29.13	0
1/31/20 22:15	13.68	238.9	13.16	14.04	29.13	0
1/31/20 22:30	15.67	239.2	10.12	13.51	29.13	0.03
1/31/20 22:45	14.44	242.7	8.91	12.81	29.13	0.01
1/31/20 23:00	13.17	238.4	9.2	12.68	29.12	0.02
1/31/20 23:15	12.18	223.9	10.76	12.56	29.12	0
1/31/20 23:30	11.79	239.6	10.6	12.72	29.12	0.01
1/31/20 23:45	11.75	234.1	10.54	12.56	29.12	0
2/1/20 0:00	12.32	234	12.14	12.82	29.1	0.01
2/1/20 0:15	14.92	236.9	9.45	12.85	29.1	0
2/1/20 0:30	15	233.8	11.02	12.58	29.1	0.01
2/1/20 0:45	18.06	229.8	8.22	12.34	29.1	0
2/1/20 1:00	19.43	230.7	10.07	11.71	29.1	0.02
2/1/20 1:15	17.91	226.2	10.01	11.2	29.1	0.03
2/1/20 1:30	18.81	224.4	10.18	11.04	29.1	0.04
2/1/20 1:45	17.06	228.8	8.56	10.88	29.1	0.03
2/1/20 2:00	13.76	212.3	14.71	10.68	29.1	0.03
2/1/20 2:15	16.22	211.4	9.77	10.61	29.1	0.02
2/1/20 2:30	14.84	223.7	10.49	10.56	29.1	0.03
2/1/20 2:45	15.18	223.5	9.01	10.47	29.1	0.05
2/1/20 3:00	11.75	209.4	11.49	10.39	29.09	0.02
2/1/20 3:15	15.62	212.5	9.54	10.48	29.09	0.04
2/1/20 3:30	14.77	217.5	10.62	10.46	29.09	0.04
2/1/20 3:45	15.32	215.5	8.67	10.44	29.09	0.05
2/1/20 4:00	16.44	213.5	8.99	10.44	29.09	0.04
2/1/20 4:15	18.01	208.5	8.63	10.44	29.09	0.04
2/1/20 4:30	16.62	208	8.31	10.41	29.09	0.03
2/1/20 4:45	20.88	208.3	8.66	10.51	29.09	0.03
2/1/20 5:00	20.11	207.3	8.53	10.43	29.11	0.05
2/1/20 5:15	18.15	208.4	8.85	10.34	29.11	0.03
2/1/20 5:30	21.28	209.3	8.56	10.46	29.11	0.02
2/1/20 5:45	17.47	204.4	8.07	10.33	29.11	0.03
2/1/20 6:00	20.19	205.2	9.33	10.35	29.12	0.02
2/1/20 6:15	19.93	203.6	9.28	10.38	29.12	0.01
2/1/20 6:30	18.2	201.7	8.17	10.27	29.12	0.01
2/1/20 6:45	19.29	202.7	7.514	10.29	29.12	0.02
2/1/20 7:00	17.11	198.7	8.16	10.23	29.13	0.01
2/1/20 7:15	16.92	200.5	9.13	10.2	29.13	0.02
2/1/20 7:30	15.78	207.5	10.54	10.19	29.13	0.01
2/1/20 7:45	14.67	209.5	10.07	10.19	29.13	0.03
2/1/20 8:00	14.17	215.9	11.76	10.16	29.13	0.03
2/1/20 8:15	14.33	212	9.51	10.19	29.13	0
2/1/20 8:30	13.67	217	15.47	10.14	29.13	0.02
2/1/20 8:45	20.39	242.7	12.05	10.28	29.13	0.02
2/1/20 9:00	17.47	235.6	10.93	10.13	29.16	0
2/1/20 9:15	14.92	241.3	12.39	9.58	29.16	0
2/1/20 9:30	17.83	228.5	12.01	9.09	29.16	0
2/1/20 9:45	17.66	224.9	10	8.73	29.16	0
2/1/20 10:00	17.03	216.7	9	8.43	29.21	0
2/1/20 10:15	16.41	209.1	8.09	8.13	29.21	0
2/1/20 10:30	17.51	211.6	7.918	7.959	29.21	0
2/1/20 10:45	15.11	210.3	10	7.876	29.21	0
2/1/20 11:00	10.8	227.9	19.06	7.82	29.29	0
2/1/20 11:15	8.6	242.6	16.81	7.7	29.29	0
2/1/20 11:30	12.69	225.3	12.45	7.638	29.29	0
2/1/20 11:45	10.1	224.6	12.55	7.646	29.29	0
2/1/20 12:00	10.63	230.4	11.55	7.62	29.31	0
2/1/20 12:15	11.23	223.6	14.02	7.685	29.31	0
2/1/20 12:30	12.79	230.1	10.05	7.596	29.31	0
2/1/20 12:45	14.12	226.1	10.49	7.654	29.31	0
2/1/20 13:00	14.43	222.5	12.77	7.585	29.3	0
2/1/20 13:15	14.21	217.2	12.74	7.587	29.3	0
2/1/20 13:30	12	226.9	14.91	7.478	29.3	0
2/1/20 13:45	12.92	239.1	11.24	7.301	29.3	0
2/1/20 14:00	15.95	232.9	11.63	7.436	29.29	0
2/1/20 14:15	15.11	226.9	9.58	7.485	29.29	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/1/20 14:30	11.41	232.6	15.72	7.628	29.29	0
2/1/20 14:45	12.71	245.1	13.34	7.54	29.29	0
2/1/20 15:00	15.31	245	10.15	7.3	29.33	0
2/1/20 15:15	10.46	257.6	12.87	6.885	29.33	0
2/1/20 15:30	11.41	256.7	12.28	6.69	29.33	0
2/1/20 15:45	6.481	274.2	13.29	6.604	29.33	0
2/1/20 16:00	4.871	6.79	38.23	5.853	29.37	0
2/1/20 16:15	2.644	43.72	33.86	4.901	29.37	0
2/1/20 16:30	5.788	50.23	15.81	3.99	29.37	0
2/1/20 16:45	4.666	44.62	14.67	3.887	29.37	0
2/1/20 17:00	3.671	70.89	29.71	3.807	29.36	0
2/1/20 17:15	4.722	51.65	18.59	3.882	29.36	0
2/1/20 17:30	4.996	70.29	20.84	3.52	29.36	0
2/1/20 17:45	5.77	76.18	15.31	3.426	29.36	0
2/1/20 18:00	7.324	49.76	14.32	3.342	29.37	0
2/1/20 18:15	5.192	44.69	15.65	3.273	29.37	0
2/1/20 18:30	4.688	54.13	11.88	3.222	29.37	0
2/1/20 18:45	4.295	38.83	17.46	3.197	29.37	0
2/1/20 19:00	5.747	346.6	46.05	2.518	29.39	0
2/1/20 19:15	6.302	6.529	42.13	2.133	29.39	0
2/1/20 19:30	11.14	49.65	18.44	1.565	29.39	0
2/1/20 19:45	8.85	58.68	14.21	1.415	29.39	0
2/1/20 20:00	6.129	43.86	14.12	1.485	29.41	0
2/1/20 20:15	7.552	51.35	7.741	1.815	29.41	0
2/1/20 20:30	7.378	36.15	10.02	2.094	29.41	0
2/1/20 20:45	8.52	35.78	10.39	1.742	29.41	0
2/1/20 21:00	7.954	51.01	14.6	1.779	29.41	0
2/1/20 21:15	6.774	53.58	7.876	1.923	29.41	0
2/1/20 21:30	6.017	52.38	10.37	1.93	29.41	0
2/1/20 21:45	4.85	45.89	10.08	1.809	29.41	0
2/1/20 22:00	4.385	80.1	11.53	1.51	29.41	0
2/1/20 22:15	6.911	129.8	19.75	1.554	29.41	0
2/1/20 22:30	3.63	62.97	27.12	1.421	29.41	0
2/1/20 22:45	4.767	60.13	11.63	1.424	29.41	0
2/1/20 23:00	4.943	89.6	13.86	1.831	29.42	0
2/1/20 23:15	3.546	92.8	9.44	1.813	29.42	0
2/1/20 23:30	3.446	104.7	7.373	1.844	29.42	0
2/1/20 23:45	5.672	125.8	12.38	1.872	29.42	0
2/2/20 0:00	6.772	132.1	7.778	1.822	29.43	0
2/2/20 0:15	6.422	136.1	8.15	1.953	29.43	0
2/2/20 0:30	5.122	134.4	8.53	1.913	29.43	0
2/2/20 0:45	4.809	142.1	7.359	1.767	29.43	0
2/2/20 1:00	4.953	130.8	13.31	1.664	29.41	0
2/2/20 1:15	4.005	111	10.67	1.451	29.41	0
2/2/20 1:30	3.391	129.2	6.766	1.795	29.41	0
2/2/20 1:45	3.594	132.2	6.173	1.907	29.41	0
2/2/20 2:00	4.109	135	6.179	1.785	29.42	0
2/2/20 2:15	2.709	138.8	19.7	1.677	29.42	0
2/2/20 2:30	3.892	137.9	7.419	1.568	29.42	0
2/2/20 2:45	4.544	150.8	9.16	1.703	29.42	0
2/2/20 3:00	7.119	163.4	4.17	1.465	29.42	0
2/2/20 3:15	8.4	163.6	3.35	1.261	29.42	0
2/2/20 3:30	8.44	167	6.339	1.024	29.42	0
2/2/20 3:45	7.036	187.4	8.76	1.252	29.42	0
2/2/20 4:00	5.849	171.2	25.64	1.281	29.41	0
2/2/20 4:15	4.316	133.1	15.14	1.184	29.41	0
2/2/20 4:30	5.402	143.7	6.474	1.253	29.41	0
2/2/20 4:45	5.891	159.8	13.94	1.329	29.41	0
2/2/20 5:00	3.982	160.9	23.79	1.254	29.43	0
2/2/20 5:15	4.909	147.6	15.5	1.382	29.43	0
2/2/20 5:30	4.661	148.1	6.844	1.412	29.43	0
2/2/20 5:45	5.106	145.6	6.796	1.212	29.43	0
2/2/20 6:00	4.748	134.8	7.39	1.286	29.39	0
2/2/20 6:15	4.738	140	8.49	1.237	29.39	0
2/2/20 6:30	5.926	161.3	12.43	1.154	29.39	0
2/2/20 6:45	4.416	186.1	10.59	1.027	29.39	0
2/2/20 7:00	3.238	180.3	13.17	0.797	29.41	0
2/2/20 7:15	3.809	183.6	9.81	0.945	29.41	0
2/2/20 7:30	2.467	134.5	14.03	0.604	29.41	0
2/2/20 7:45	5.224	139.2	7.654	0.641	29.41	0
2/2/20 8:00	5.663	145.7	7.795	0.777	29.39	0
2/2/20 8:15	4.275	167.6	16.79	0.912	29.39	0
2/2/20 8:30	2.723	183.6	16.29	1.343	29.39	0
2/2/20 8:45	3.036	186.2	9.84	1.768	29.39	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/2/20 9:00	2.487	180.5	19.97	1.976	29.41	0
2/2/20 9:15	2.335	128.1	15.34	1.43	29.41	0
2/2/20 9:30	1.591	129.9	10.63	2.503	29.41	0
2/2/20 9:45	2.994	175.2	24.18	2.309	29.41	0
2/2/20 10:00	2.039	180.6	14.05	2.205	29.4	0
2/2/20 10:15	3.769	159.4	18.16	2.853	29.4	0
2/2/20 10:30	3.719	135.8	14.4	3.111	29.4	0
2/2/20 10:45	4.251	89.3	16.55	3.105	29.4	0
2/2/20 11:00	3.789	165.3	34.85	3.803	29.4	0
2/2/20 11:15	5.077	206.6	11.99	3.836	29.4	0
2/2/20 11:30	6.753	207.8	11.37	3.886	29.4	0.01
2/2/20 11:45	6.334	198.6	15.55	4.295	29.4	0
2/2/20 12:00	6.946	204.6	11.28	4.561	29.36	0
2/2/20 12:15	6.505	206.1	16.1	4.552	29.36	0
2/2/20 12:30	6.196	204.3	22.4	4.609	29.36	0
2/2/20 12:45	4.772	205.8	45.03	5.096	29.36	0
2/2/20 13:00	6.42	272.5	9.99	4.505	29.37	0
2/2/20 13:15	3.404	252.3	35.57	4.593	29.37	0
2/2/20 13:30	4.314	196	21.16	4.763	29.37	0
2/2/20 13:45	4.749	205.9	23.48	5.142	29.37	0
2/2/20 14:00	6.381	267.6	11.95	4.584	29.35	0
2/2/20 14:15	4.231	258	11.35	4.806	29.35	0
2/2/20 14:30	3.222	191.7	53.27	5.537	29.35	0
2/2/20 14:45	6.376	237	18.25	5.344	29.35	0
2/2/20 15:00	5.533	229	14.86	5.284	29.32	0
2/2/20 15:15	4.948	221.5	28.23	5.363	29.32	0
2/2/20 15:30	5.726	243.8	11.04	5.079	29.32	0
2/2/20 15:45	3.337	200.5	33.28	5.371	29.32	0
2/2/20 16:00	2.922	243.7	41.03	5.476	29.34	0
2/2/20 16:15	4.066	211.1	15.9	5.288	29.34	0
2/2/20 16:30	4.917	246.2	19.08	4.851	29.34	0
2/2/20 16:45	5.601	264.8	12.1	4.86	29.34	0
2/2/20 17:00	5.895	284.3	9.56	4.396	29.32	0
2/2/20 17:15	4.879	292	4.682	3.919	29.32	0
2/2/20 17:30	4.1	291.4	3.671	3.718	29.32	0
2/2/20 17:45	4.137	295	5.398	3.553	29.32	0
2/2/20 18:00	3.141	305.8	8.94	3.447	29.33	0
2/2/20 18:15	1.846	47.25	13.35	2.914	29.33	0
2/2/20 18:30	0.857	59.95	4.137	2.878	29.33	0
2/2/20 18:45	1.375	86.2	23.47	2.667	29.33	0
2/2/20 19:00	2.949	108.8	5.063	2.359	29.37	0
2/2/20 19:15	3.082	111.3	5.888	1.83	29.37	0
2/2/20 19:30	2.105	137.7	17.01	2.023	29.37	0
2/2/20 19:45	2.363	163.9	15.52	2.304	29.37	0
2/2/20 20:00	2.712	156.6	8.85	2.464	29.36	0
2/2/20 20:15	3.191	161.2	8.25	2.092	29.36	0
2/2/20 20:30	4.145	172.6	6.543	1.761	29.36	0
2/2/20 20:45	5.188	161.6	5.776	1.585	29.36	0
2/2/20 21:00	4.387	177.5	17.98	1.309	29.37	0
2/2/20 21:15	5.454	176.4	16.15	1.118	29.37	0
2/2/20 21:30	6.109	158.8	6.611	1.105	29.37	0
2/2/20 21:45	5.654	158.4	7.044	1.315	29.37	0
2/2/20 22:00	5.335	172	7.148	1.394	29.37	0
2/2/20 22:15	5.545	174	8.06	1.554	29.37	0
2/2/20 22:30	5.424	160.7	7.021	1.378	29.37	0
2/2/20 22:45	4.617	157.3	7.824	1.534	29.37	0
2/2/20 23:00	4.636	159.1	6.1	1.653	29.35	0
2/2/20 23:15	5.141	166.6	5.903	1.81	29.35	0
2/2/20 23:30	4.659	176	10.09	1.883	29.35	0
2/2/20 23:45	4.863	178.5	17.59	1.856	29.35	0
2/3/20 0:00	4.853	179.1	11.96	1.822	29.39	0
2/3/20 0:15	4.841	206.3	9.02	1.743	29.39	0
2/3/20 0:30	4.96	196	6.986	1.589	29.39	0
2/3/20 0:45	3.807	194.7	7.032	1.52	29.39	0
2/3/20 1:00	4.687	186.6	6.982	1.357	29.37	0
2/3/20 1:15	2.9	190.7	13.37	0.799	29.37	0
2/3/20 1:30	1.472	147.4	19.69	0.561	29.37	0
2/3/20 1:45	2.434	132.5	11.31	0.382	29.37	0
2/3/20 2:00	3.046	123.9	7.888	0.245	29.38	0
2/3/20 2:15	1.395	128.3	12.73	0.194	29.38	0
2/3/20 2:30	2.097	116	9.65	0.12	29.38	0
2/3/20 2:45	2.042	123.3	8.56	0.087	29.38	0
2/3/20 3:00	2.434	124.8	8.1	0.072	29.38	0
2/3/20 3:15	2.129	116.8	9.1	0.113	29.38	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/3/20 3:30	1.871	113.4	10.31	0.09	29.38	0
2/3/20 3:45	2.09	71.81	17.62	0.019	29.38	0
2/3/20 4:00	3.076	95.3	19.34	-0.007	29.37	0
2/3/20 4:15	2.645	103.1	19.63	0.053	29.37	0
2/3/20 4:30	1.831	107.2	5.296	0.017	29.37	0
2/3/20 4:45	2.537	180.4	34.77	0.101	29.37	0
2/3/20 5:00	0.927	212.1	0.797	0.146	29.41	0
2/3/20 5:15	1.723	239.9	22.38	0.242	29.41	0
2/3/20 5:30	1.509	316.9	39.76	0.115	29.41	0
2/3/20 5:45	2.191	214.6	6.098	0.206	29.41	0
2/3/20 6:00	2.45	229.2	5.838	0.162	29.4	0
2/3/20 6:15	2.496	220.6	7.888	0.095	29.4	0
2/3/20 6:30	2.914	208.7	11.03	0.089	29.4	0
2/3/20 6:45	3.12	201.8	5.006	0.1	29.4	0
2/3/20 7:00	2.272	195.7	10.24	0.109	29.43	0
2/3/20 7:15	1.135	142.6	55.28	0.062	29.43	0
2/3/20 7:30	0	0	0	-0.05	29.43	0
2/3/20 7:45	2.374	217.7	3.766	0.087	29.43	0
2/3/20 8:00	3.901	220.6	10.48	0.121	29.42	0
2/3/20 8:15	2.098	190.2	15.42	0.09	29.42	0
2/3/20 8:30	0.847	172.3	3.195	0.094	29.42	0
2/3/20 8:45	1.56	167.6	16.43	0.109	29.42	0
2/3/20 9:00	1.121	181	20.08	0.257	29.46	0
2/3/20 9:15	0	0	0	0.328	29.46	0
2/3/20 9:30	0	0	0	0.322	29.46	0
2/3/20 9:45	0.058	186.3	0.121	0.377	29.46	0
2/3/20 10:00	2.575	186.2	12.11	0.296	29.45	0
2/3/20 10:15	2.68	186.5	20.27	0.464	29.45	0
2/3/20 10:30	4.304	205.8	4.129	0.586	29.45	0
2/3/20 10:45	2.534	221.4	12.95	0.727	29.45	0
2/3/20 11:00	2.143	185.5	14.37	0.795	29.5	0
2/3/20 11:15	1.997	227.8	23.09	1.087	29.5	0
2/3/20 11:30	1.463	64.5	95	1.603	29.5	0.01
2/3/20 11:45	1.151	165.1	24.46	1.655	29.5	0
2/3/20 12:00	0.686	136.6	28.99	1.461	29.51	0
2/3/20 12:15	1.291	176.1	17.78	1.518	29.51	0
2/3/20 12:30	1.7	315.9	56.82	1.978	29.51	0
2/3/20 12:45	3.28	76.54	8.63	1.742	29.51	0
2/3/20 13:00	1.266	72.54	10.95	1.67	29.51	0
2/3/20 13:15	0.798	54.23	8.48	2.12	29.51	0
2/3/20 13:30	1.778	18.64	17.57	2.536	29.51	0.04
2/3/20 13:45	3.757	3.028	44.59	2.791	29.51	0.05
2/3/20 14:00	4.667	43.13	7.324	2.373	29.5	0.02
2/3/20 14:15	4.791	26.93	15.27	2.386	29.5	0.01
2/3/20 14:30	4.955	4.043	15.74	2.657	29.5	0.02
2/3/20 14:45	4.719	16.04	12.08	2.765	29.5	0.01
2/3/20 15:00	5.975	34.67	14.45	2.764	29.5	0.01
2/3/20 15:15	6.615	40.02	9.24	2.707	29.5	0
2/3/20 15:30	5.322	27.86	11.12	2.338	29.5	0
2/3/20 15:45	5.853	16.32	12.81	2.062	29.5	0
2/3/20 16:00	4.249	17.79	11.8	2.16	29.53	0
2/3/20 16:15	5.482	26.96	7.542	1.907	29.53	0
2/3/20 16:30	4.549	37.37	7.109	1.786	29.53	0
2/3/20 16:45	3.522	49.93	8.68	1.459	29.53	0
2/3/20 17:00	1.513	62.8	1.638	1.492	29.54	0
2/3/20 17:15	0.102	65.27	0.017	1.538	29.54	0
2/3/20 17:30	0.281	61.87	5.614	1.417	29.54	0
2/3/20 17:45	1.501	31.29	7.423	0.925	29.54	0
2/3/20 18:00	1.67	36.08	11.08	1.064	29.57	0
2/3/20 18:15	0.567	44.42	5.781	0.839	29.57	0
2/3/20 18:30	0.7	0.783	14.95	0.955	29.57	0
2/3/20 18:45	1.044	102.9	33.6	0.97	29.57	0
2/3/20 19:00	2.07	147	11.53	0.681	29.56	0
2/3/20 19:15	1.29	122.6	11.09	0.109	29.56	0
2/3/20 19:30	1.482	303.8	10.12	0.098	29.56	0
2/3/20 19:45	1.292	294.3	17.15	0.519	29.56	0
2/3/20 20:00	2.956	36.08	15.4	-0.04	29.57	0
2/3/20 20:15	3.071	55.46	10.37	-0.304	29.57	0
2/3/20 20:30	2.926	50.66	7.551	0.169	29.57	0
2/3/20 20:45	2.711	79.75	22.25	0.463	29.57	0
2/3/20 21:00	2.273	8.33	28.48	0.27	29.61	0
2/3/20 21:15	0.84	345.3	4.249	0.321	29.61	0
2/3/20 21:30	0.629	172.2	43.91	0.339	29.61	0
2/3/20 21:45	0.526	121.5	24.43	-0.149	29.61	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
2/3/20 22:00	2.8	158.7	19.58	-0.318	29.59	0
2/3/20 22:15	2.556	157.7	9.58	0.045	29.59	0
2/3/20 22:30	2.079	119.5	26.01	-0.435	29.59	0
2/3/20 22:45	3.032	127.1	14.2	-0.787	29.59	0
2/3/20 23:00	3.157	149.2	7.308	-0.334	29.61	0
2/3/20 23:15	1.501	98.7	73.05	-0.413	29.61	0
2/3/20 23:30	0	0	0	-0.331	29.61	0
2/3/20 23:45	1.297	50.36	6.225	-0.292	29.61	0
2/4/20 0:00	1.534	71.95	8.07	-0.398	29.62	0
2/4/20 0:15	2.692	105.3	6.306	-0.565	29.62	0
2/4/20 0:30	2.069	106.9	1.629	-0.217	29.62	0
2/4/20 0:45	1.531	120	31.14	-0.173	29.62	0
2/4/20 1:00	1.4	184.5	3.212	-0.417	29.6	0
2/4/20 1:15	0.803	184	8.93	-0.45	29.6	0
2/4/20 1:30	0.583	141.9	9.14	-0.441	29.6	0
2/4/20 1:45	1.313	156.3	12.61	-0.254	29.6	0
2/4/20 2:00	2.252	169	5.469	-0.44	29.62	0
2/4/20 2:15	1.761	144.4	6.521	-0.555	29.62	0
2/4/20 2:30	2.353	129.5	6.602	-0.697	29.62	0
2/4/20 2:45	3.995	147.8	5.587	-0.534	29.62	0
2/4/20 3:00	3.946	173.5	8.7	-0.441	29.62	0
2/4/20 3:15	3.671	171.3	11.97	-0.526	29.62	0
2/4/20 3:30	4.137	171.6	10.46	-0.736	29.62	0
2/4/20 3:45	3.949	186.2	8.99	-0.967	29.62	0
2/4/20 4:00	4.439	183.6	11.94	-1.23	29.6	0
2/4/20 4:15	3.238	178.9	8.25	-1.133	29.6	0
2/4/20 4:30	3.158	178.1	7.674	-0.998	29.6	0
2/4/20 4:45	2.639	146.4	10.37	-1.074	29.6	0
2/4/20 5:00	2.657	122.4	15.26	-1.192	29.62	0
2/4/20 5:15	3.151	137.7	12.6	-1.13	29.62	0
2/4/20 5:30	3.972	160.6	5.005	-0.723	29.62	0
2/4/20 5:45	3.9	162.7	5.146	-0.656	29.62	0
2/4/20 6:00	3.847	167.6	5.691	-0.605	29.62	0
2/4/20 6:15	4.432	166.8	8.64	-0.562	29.62	0
2/4/20 6:30	3.938	168.1	8.94	-0.423	29.62	0
2/4/20 6:45	3.556	156.5	7.138	-0.271	29.62	0
2/4/20 7:00	3.556	167.9	13.67	-0.273	29.62	0
2/4/20 7:15	3.734	174.4	9.77	-0.296	29.62	0
2/4/20 7:30	3.668	184.6	9.84	-0.529	29.62	0
2/4/20 7:45	4.001	165.2	13.92	-0.617	29.62	0
2/4/20 8:00	3.83	159.3	7.753	-0.705	29.61	0
2/4/20 8:15	4.973	151.3	7.549	-0.362	29.61	0
2/4/20 8:30	5.234	135.5	5.838	-0.08	29.61	0
2/4/20 8:45	5.536	145.8	6.988	0.185	29.61	0
2/4/20 9:00	5.565	161.2	10.44	0.288	29.58	0
2/4/20 9:15	5.521	165.6	12.45	0.239	29.58	0
2/4/20 9:30	6.134	147.2	7.85	0.457	29.58	0
2/4/20 9:45	5.542	154.6	10.55	0.562	29.58	0
2/4/20 10:00	4.705	162.1	9.68	0.689	29.61	0
2/4/20 10:15	5.377	197.2	20.75	0.597	29.61	0
2/4/20 10:30	8.73	208.4	15.38	0.784	29.61	0
2/4/20 10:45	10.25	211.6	7.491	0.342	29.61	0
2/4/20 11:00	8.99	194.5	9.65	-0.01	29.58	0
2/4/20 11:15	7.752	183.5	10.57	-0.106	29.58	0
2/4/20 11:30	8.41	168.2	10.99	-0.277	29.58	0
2/4/20 11:45	8.63	157.5	7.925	-0.419	29.58	0
2/4/20 12:00	7.973	156.7	7.65	-0.422	29.57	0
2/4/20 12:15	8.12	150.3	10.56	-0.432	29.57	0
2/4/20 12:30	7.016	143.3	8.31	-0.449	29.57	0
2/4/20 12:45	4.989	140.8	12.19	-0.431	29.57	0
2/4/20 13:00	7.399	132.3	11.3	-0.415	29.54	0
2/4/20 13:15	7.502	133.8	10.39	-0.241	29.54	0
2/4/20 13:30	7.7	123.1	7.898	0.02	29.54	0
2/4/20 13:45	8.04	128.2	8.19	0.172	29.54	0
2/4/20 14:00	9.08	127.5	6.891	0.328	29.52	0
2/4/20 14:15	8.89	125.8	7.953	0.542	29.52	0
2/4/20 14:30	9.07	128.6	8.13	0.803	29.52	0
2/4/20 14:45	8.22	133.8	7.807	0.963	29.52	0
2/4/20 15:00	7.835	130.1	7.553	1.059	29.5	0
2/4/20 15:15	8.37	131.1	7.273	1.21	29.5	0.01
2/4/20 15:30	8.47	133.7	7.376	1.382	29.5	0
2/4/20 15:45	8.31	133.6	7.813	1.527	29.5	0
2/4/20 16:00	7.931	133.1	8.55	1.678	29.48	0
2/4/20 16:15	7.974	139.8	7.631	1.889	29.48	0.04

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/4/20 16:30	6.923	141.4	7.486	2.091	29.48	0.02
2/4/20 16:45	6.579	152.7	9.67	2.279	29.48	0.02
2/4/20 17:00	7.877	147.1	9.14	2.549	29.43	0.02
2/4/20 17:15	7.08	147	7.85	2.621	29.43	0.02
2/4/20 17:30	5.13	145	8.92	2.546	29.43	0.02
2/4/20 17:45	5.78	138.2	7.43	2.596	29.43	0.02
2/4/20 18:00	6.282	136.4	6.419	2.694	29.45	0.02
2/4/20 18:15	6.153	134.3	7.24	2.697	29.45	0.02
2/4/20 18:30	8.05	137.5	8.45	2.711	29.45	0.04
2/4/20 18:45	7.25	139.3	8.02	2.705	29.45	0.01
2/4/20 19:00	8.29	139.3	6.352	2.575	29.42	0.02
2/4/20 19:15	8.02	139.9	6.942	2.675	29.42	0.01
2/4/20 19:30	8.8	140.6	6.86	2.747	29.42	0.01
2/4/20 19:45	9.56	133.5	7.556	2.822	29.42	0.01
2/4/20 20:00	8.17	127.3	7.757	2.874	29.35	0.01
2/4/20 20:15	8.43	123.6	7.932	3.203	29.35	0
2/4/20 20:30	6.723	140.3	11.65	3.506	29.35	0.01
2/4/20 20:45	6.36	151.1	10.47	3.659	29.35	0.01
2/4/20 21:00	6.85	148.2	9.92	3.966	29.34	0.01
2/4/20 21:15	6.262	153.5	8.71	3.954	29.34	0.01
2/4/20 21:30	6.68	149	7.581	3.967	29.34	0.02
2/4/20 21:45	7.779	145.6	7.132	3.945	29.34	0.02
2/4/20 22:00	8.05	144.8	7.136	3.945	29.33	0.01
2/4/20 22:15	7.1	148.9	8.96	3.965	29.33	0.02
2/4/20 22:30	7.312	146.7	7.425	4.035	29.33	0.02
2/4/20 22:45	7.697	141.4	6.543	4.041	29.33	0.01
2/4/20 23:00	8.12	139.4	6.568	4.054	29.32	0.02
2/4/20 23:15	8.65	144.6	6.878	4.113	29.32	0.02
2/4/20 23:30	8.25	145.1	7.976	4.259	29.32	0.02
2/4/20 23:45	8.18	139.6	6.907	4.341	29.32	0.01
2/5/20 0:00	8.63	137.7	6.852	4.435	29.3	0.02
2/5/20 0:15	8.19	137.5	7.647	4.486	29.3	0.02
2/5/20 0:30	7.884	140.6	7.984	4.538	29.3	0.01
2/5/20 0:45	8.43	135.9	7.809	4.618	29.3	0.02
2/5/20 1:00	7.713	134.1	8.32	4.679	29.29	0.03
2/5/20 1:15	7.043	135.8	7.371	4.72	29.29	0.02
2/5/20 1:30	7.651	138.8	7.635	4.793	29.29	0.02
2/5/20 1:45	7.214	137	7.82	4.879	29.29	0.02
2/5/20 2:00	7.869	138.2	8.61	4.987	29.27	0.02
2/5/20 2:15	7.161	140.8	7.922	5.058	29.27	0.02
2/5/20 2:30	7.723	144.3	8.37	5.126	29.27	0.02
2/5/20 2:45	6.966	141.1	8.39	5.224	29.27	0.01
2/5/20 3:00	7.947	141.8	8.96	5.318	29.24	0.02
2/5/20 3:15	7.098	150.6	11.27	5.412	29.24	0.03
2/5/20 3:30	7.875	148.9	10.57	5.503	29.24	0.01
2/5/20 3:45	8.46	154.8	9.81	5.535	29.24	0.02
2/5/20 4:00	7.463	155.9	11.1	5.601	29.22	0.02
2/5/20 4:15	10.17	162.6	12.4	5.784	29.22	0.02
2/5/20 4:30	8.19	159.2	12.2	5.82	29.22	0.02
2/5/20 4:45	7.849	158	12.56	5.888	29.22	0.02
2/5/20 5:00	7.635	165.8	15.04	5.988	29.23	0.03
2/5/20 5:15	9.05	173.9	9.03	6.055	29.23	0.03
2/5/20 5:30	9.36	166.3	10.36	6.064	29.23	0.02
2/5/20 5:45	10.15	171	12.72	6.145	29.23	0.02
2/5/20 6:00	10.54	173.2	11.3	6.265	29.23	0.03
2/5/20 6:15	9.48	180.2	9.62	6.376	29.23	0.03
2/5/20 6:30	8.78	180.5	13.78	6.404	29.23	0.02
2/5/20 6:45	8.08	182.1	12.56	6.45	29.23	0.02
2/5/20 7:00	8.31	172.4	11.85	6.445	29.23	0.02
2/5/20 7:15	8.61	187.6	11.05	6.507	29.23	0.01
2/5/20 7:30	8.37	184.2	10.65	6.542	29.23	0.02
2/5/20 7:45	8.3	185.1	8.98	6.595	29.23	0.02
2/5/20 8:00	10.69	185.8	8.09	6.65	29.23	0.04
2/5/20 8:15	9.31	183.5	10.43	6.662	29.23	0.04
2/5/20 8:30	7.892	179.4	9.41	6.705	29.23	0.04
2/5/20 8:45	8.75	175.1	9.28	6.697	29.23	0.04
2/5/20 9:00	9.24	174.5	10.26	6.699	29.25	0.03
2/5/20 9:15	9.58	174.7	10.9	6.745	29.25	0.04
2/5/20 9:30	9.96	176.8	10.08	6.831	29.25	0.03
2/5/20 9:45	10.2	172	9.24	6.923	29.25	0.03
2/5/20 10:00	10.47	168	8.49	6.941	29.23	0.02
2/5/20 10:15	9.3	167.1	9.41	6.982	29.23	0.03
2/5/20 10:30	9.19	171.1	11.76	7.09	29.23	0.02
2/5/20 10:45	9.54	179.1	9.27	7.21	29.23	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/5/20 11:00	10.92	185.5	8.55	7.278	29.25	0.01
2/5/20 11:15	10.25	183.6	9.78	7.366	29.25	0.01
2/5/20 11:30	10.23	188.3	9.13	7.355	29.25	0.01
2/5/20 11:45	10.2	189.3	10.04	7.417	29.25	0.03
2/5/20 12:00	10.58	190.5	9.98	7.476	29.23	0.02
2/5/20 12:15	11.48	191.9	8.11	7.529	29.23	0.04
2/5/20 12:30	11.38	191.2	8.56	7.554	29.23	0.02
2/5/20 12:45	11.21	187.1	10.62	7.616	29.23	0.03
2/5/20 13:00	10.11	189.8	9.07	7.624	29.23	0.03
2/5/20 13:15	10.77	192.5	10.1	7.608	29.23	0
2/5/20 13:30	10.78	192.5	10.73	7.592	29.23	0.01
2/5/20 13:45	10.11	185.2	11.47	7.693	29.23	0.02
2/5/20 14:00	8.42	180.2	13.46	7.725	29.24	0.03
2/5/20 14:15	8.18	182.7	13.01	7.744	29.24	0.05
2/5/20 14:30	9.46	180.5	10.46	7.79	29.24	0.06
2/5/20 14:45	8.82	183.5	11.76	7.813	29.24	0.04
2/5/20 15:00	8.71	172.2	7.731	7.866	29.21	0.05
2/5/20 15:15	9.67	170.8	8.23	7.913	29.21	0.03
2/5/20 15:30	7.876	167.7	9.74	7.939	29.21	0.04
2/5/20 15:45	7.139	169.8	9.31	7.975	29.21	0.05
2/5/20 16:00	8.61	173.7	10.7	8.06	29.23	0.05
2/5/20 16:15	8.39	188.7	14.48	8.12	29.23	0.04
2/5/20 16:30	8.58	176.4	14.74	8.09	29.23	0.05
2/5/20 16:45	9.76	174.9	10.04	8.16	29.23	0.03
2/5/20 17:00	10.67	183.3	9.26	8.21	29.23	0.03
2/5/20 17:15	9.93	181.2	10.84	8.28	29.23	0.01
2/5/20 17:30	9.73	180.3	11.03	8.32	29.23	0.04
2/5/20 17:45	9.41	183.9	9.56	8.33	29.23	0.02
2/5/20 18:00	9.6	186	10.18	8.35	29.21	0.03
2/5/20 18:15	10.37	179.5	12.31	8.38	29.21	0.03
2/5/20 18:30	10.21	185.2	9.22	8.45	29.21	0.02
2/5/20 18:45	9.06	189.6	11.16	8.46	29.21	0.01
2/5/20 19:00	8.68	189.2	10.68	8.42	29.19	0
2/5/20 19:15	10.89	194.6	9.59	8.45	29.19	0.03
2/5/20 19:30	10.42	208.8	9.64	8.53	29.19	0.03
2/5/20 19:45	8.39	208.6	8.7	8.55	29.19	0.04
2/5/20 20:00	10.19	207	9.91	8.57	29.23	0.03
2/5/20 20:15	10.4	205.4	9.15	8.51	29.23	0.05
2/5/20 20:30	8.38	209.8	8.16	8.46	29.23	0.03
2/5/20 20:45	9.72	207.5	8.22	8.54	29.23	0.03
2/5/20 21:00	9.61	210.1	7.925	8.56	29.23	0.01
2/5/20 21:15	10.55	217	11.03	8.6	29.23	0.01
2/5/20 21:30	10.24	216.1	8.96	8.64	29.23	0
2/5/20 21:45	10.8	215.9	9.74	8.66	29.23	0
2/5/20 22:00	11.07	224.8	13.1	8.7	29.22	0.01
2/5/20 22:15	10.35	224	9.52	8.7	29.22	0.01
2/5/20 22:30	9.38	223.6	10.88	8.6	29.22	0.02
2/5/20 22:45	7.619	224	12.12	8.49	29.22	0.02
2/5/20 23:00	6.675	214.6	10.78	8.4	29.22	0.03
2/5/20 23:15	7.258	209.6	9.4	8.34	29.22	0.01
2/5/20 23:30	7.732	213.7	9.08	8.29	29.22	0.02
2/5/20 23:45	7.938	217.3	6.939	8.28	29.22	0.03
2/6/20 0:00	7.672	215.2	9.04	8.26	29.23	0.02
2/6/20 0:15	7.807	214.8	7.618	8.22	29.23	0.02
2/6/20 0:30	9.7	218.6	8.74	8.22	29.23	0.01
2/6/20 0:45	8.96	227.7	9.61	8.24	29.23	0.02
2/6/20 1:00	6.675	232.9	9.45	8.24	29.25	0.02
2/6/20 1:15	7.058	240	9.53	8.26	29.25	0.02
2/6/20 1:30	5.033	249.6	10.63	8.24	29.25	0.02
2/6/20 1:45	6.311	242.1	12.34	8.23	29.25	0.04
2/6/20 2:00	5.844	221	8.59	8.17	29.25	0.04
2/6/20 2:15	5.624	224.3	8.96	8.16	29.25	0.03
2/6/20 2:30	5.118	227.1	10.1	8.16	29.25	0.03
2/6/20 2:45	4.371	225	11.43	8.15	29.25	0.02
2/6/20 3:00	4.685	239	12.67	8.15	29.24	0.03
2/6/20 3:15	4.716	238.1	11.14	8.15	29.24	0.02
2/6/20 3:30	4.079	249.8	16.63	8.13	29.24	0.02
2/6/20 3:45	1.993	221.3	17	8.11	29.24	0.02
2/6/20 4:00	3.425	232.1	12.51	8.11	29.25	0.03
2/6/20 4:15	1.681	210.7	31.54	8.1	29.25	0.02
2/6/20 4:30	3.891	222.1	17.51	8.1	29.25	0.03
2/6/20 4:45	5.116	203.1	8.04	8.06	29.25	0.01
2/6/20 5:00	4.464	208.1	6.732	8.04	29.26	0.01
2/6/20 5:15	4.274	213.6	5.783	8.02	29.26	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/6/20 5:30	2.493	226.5	5.893	7.971	29.26	0.02
2/6/20 5:45	1.403	264.4	15.06	8	29.26	0.04
2/6/20 6:00	1.94	303.2	12.58	7.921	29.26	0.03
2/6/20 6:15	1.65	290.7	14.15	7.863	29.26	0.02
2/6/20 6:30	1.663	253.3	2.999	7.839	29.26	0.02
2/6/20 6:45	1.247	241.8	9.58	7.848	29.26	0.02
2/6/20 7:00	0.134	230.5	0.015	7.85	29.24	0.02
2/6/20 7:15	1.358	226.5	7.646	7.845	29.24	0.02
2/6/20 7:30	1.271	232	6.026	7.866	29.24	0.02
2/6/20 7:45	3.875	220.6	3.787	7.773	29.24	0.02
2/6/20 8:00	5.267	222.3	7.865	7.763	29.26	0.03
2/6/20 8:15	4.318	216.3	4.994	7.742	29.26	0.03
2/6/20 8:30	2.91	229.4	12.28	7.752	29.26	0.01
2/6/20 8:45	2.437	20.3	16.45	7.642	29.26	0.01
2/6/20 9:00	2.063	353.1	14.11	7.503	29.25	0.02
2/6/20 9:15	1.946	354.7	17.73	6.874	29.25	0.03
2/6/20 9:30	2.691	358.7	14.61	6.967	29.25	0.04
2/6/20 9:45	2.094	37.39	11.13	6.87	29.25	0.05
2/6/20 10:00	2.827	41.4	13.35	6.884	29.24	0.03
2/6/20 10:15	1.816	46.41	6.163	6.841	29.24	0.02
2/6/20 10:30	2.534	75.2	12.75	6.783	29.24	0.02
2/6/20 10:45	2.667	123.4	22.44	6.913	29.24	0.01
2/6/20 11:00	3.701	163.3	27.88	7.096	29.24	0.01
2/6/20 11:15	3.214	176.5	25.56	7.239	29.24	0.03
2/6/20 11:30	5.75	203.5	8.16	7.666	29.24	0.02
2/6/20 11:45	10.2	209.9	7.549	8.13	29.24	0.02
2/6/20 12:00	9.2	213.3	8.92	8.25	29.2	0.03
2/6/20 12:15	8.58	208.1	7.512	8.26	29.2	0.03
2/6/20 12:30	7.49	204.4	7.375	8.26	29.2	0.02
2/6/20 12:45	11.13	202	7.968	8.31	29.2	0.01
2/6/20 13:00	12.59	204.3	7.849	8.37	29.19	0.02
2/6/20 13:15	11.43	200.5	8.34	8.41	29.19	0.01
2/6/20 13:30	12.44	202.8	8.85	8.46	29.19	0.01
2/6/20 13:45	13.87	193.5	7.809	8.57	29.19	0.01
2/6/20 14:00	15.74	193.6	8.05	8.71	29.17	0
2/6/20 14:15	13.53	190.3	9.59	8.73	29.17	0
2/6/20 14:30	14.58	191.1	9.44	8.72	29.17	0
2/6/20 14:45	14.18	198.7	9.07	8.75	29.17	0
2/6/20 15:00	13.56	204.9	7.377	8.82	29.15	0
2/6/20 15:15	13.66	209.5	10.36	8.92	29.15	0
2/6/20 15:30	11.98	226.7	10.39	9.11	29.15	0
2/6/20 15:45	14.65	220.8	12.45	9.23	29.15	0
2/6/20 16:00	15.75	219.7	8.23	9.32	29.14	0.01
2/6/20 16:15	15.54	220.1	10.87	9.39	29.14	0
2/6/20 16:30	15.39	220.9	9.29	9.41	29.14	0
2/6/20 16:45	15.06	228.8	10.56	9.46	29.14	0
2/6/20 17:00	16.68	224.5	8.95	9.5	29.14	0
2/6/20 17:15	14.69	228.4	10.9	9.53	29.14	0
2/6/20 17:30	15	226.4	8.78	9.56	29.14	0
2/6/20 17:45	15.06	226	10.38	9.56	29.14	0
2/6/20 18:00	14.85	225.9	9.66	9.51	29.13	0
2/6/20 18:15	13.54	225.1	9.82	9.44	29.13	0
2/6/20 18:30	12.33	229.8	11.62	9.41	29.13	0
2/6/20 18:45	14.9	230.8	11.45	9.46	29.13	0
2/6/20 19:00	12.85	230.6	9.49	9.39	29.13	0
2/6/20 19:15	12.3	232.1	9.56	9.39	29.13	0
2/6/20 19:30	13.23	232.9	8.79	9.38	29.13	0
2/6/20 19:45	13.04	237.8	8.92	9.28	29.13	0
2/6/20 20:00	11.62	235.8	10.87	9.32	29.13	0
2/6/20 20:15	11.04	240.9	10.56	9.21	29.13	0.01
2/6/20 20:30	10.12	245.6	9.86	9.04	29.13	0.01
2/6/20 20:45	8.27	240	7.059	8.85	29.13	0.01
2/6/20 21:00	6.652	246.8	10.49	8.77	29.14	0.01
2/6/20 21:15	8.04	255.1	8.44	8.67	29.14	0
2/6/20 21:30	7.93	247.9	8.12	8.51	29.14	0
2/6/20 21:45	8.51	246.9	7.757	8.36	29.14	0.01
2/6/20 22:00	7.1	232.3	9.17	8.24	29.14	0
2/6/20 22:15	8.19	233.5	7.854	8.18	29.14	0.01
2/6/20 22:30	5.965	261.1	15.66	8.14	29.14	0
2/6/20 22:45	4.034	252.6	19.78	8.05	29.14	0.01
2/6/20 23:00	3.645	222.9	15.24	7.995	29.18	0
2/6/20 23:15	4.306	217.5	8.18	7.963	29.18	0.01
2/6/20 23:30	4.139	208.3	9.71	7.925	29.18	0
2/6/20 23:45	4.809	209.2	8.42	7.891	29.18	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/7/20 0:00	5.598	212.3	10.57	7.871	29.19	0
2/7/20 0:15	7.178	220.6	8.77	7.857	29.19	0.01
2/7/20 0:30	6.826	228.7	9.71	7.856	29.19	0
2/7/20 0:45	7.153	218.2	10.83	7.861	29.19	0.01
2/7/20 1:00	6.294	224.8	11.21	7.875	29.18	0.01
2/7/20 1:15	6.224	226.5	13.74	7.874	29.18	0.01
2/7/20 1:30	6.119	222.9	12.91	7.888	29.18	0.01
2/7/20 1:45	5.98	229.5	9.66	7.89	29.18	0.01
2/7/20 2:00	5.659	228.9	10.34	7.917	29.19	0.01
2/7/20 2:15	5.073	240.9	12.97	7.928	29.19	0.01
2/7/20 2:30	6.399	258.4	14.18	7.935	29.19	0.01
2/7/20 2:45	7.2	258.3	10.57	7.872	29.19	0
2/7/20 3:00	6.55	257.6	9.54	7.79	29.22	0.01
2/7/20 3:15	5.026	268.2	10.37	7.722	29.22	0.03
2/7/20 3:30	4.263	274.7	9.06	7.682	29.22	0.02
2/7/20 3:45	1.758	298.5	21.29	7.676	29.22	0.01
2/7/20 4:00	2.061	238.5	29.55	7.701	29.22	0.02
2/7/20 4:15	2.096	189.7	16.06	7.65	29.22	0.01
2/7/20 4:30	2.019	195.9	35.09	7.61	29.22	0.01
2/7/20 4:45	1.803	121.6	1.276	7.622	29.22	0
2/7/20 5:00	1.95	130	12.27	7.621	29.22	0.01
2/7/20 5:15	3.738	161	17.15	7.561	29.22	0
2/7/20 5:30	4.063	182.7	10.22	7.547	29.22	0.01
2/7/20 5:45	3.494	175.2	9.6	7.6	29.22	0.01
2/7/20 6:00	4.651	177.6	10.37	7.731	29.24	0
2/7/20 6:15	6.526	188.9	12.16	8.01	29.24	0.01
2/7/20 6:30	5.79	208.6	10.75	8.1	29.24	0.01
2/7/20 6:45	6.42	212.9	9.3	8.25	29.24	0.02
2/7/20 7:00	6.049	191.8	10.19	8.34	29.23	0.02
2/7/20 7:15	10.14	201.8	10.51	8.41	29.23	0.02
2/7/20 7:30	10.11	208.1	8.45	8.47	29.23	0.01
2/7/20 7:45	7.329	195.6	10.11	8.5	29.23	0
2/7/20 8:00	8.83	189.9	9.93	8.52	29.21	0.01
2/7/20 8:15	11.24	193.7	11.75	8.6	29.21	0.02
2/7/20 8:30	11.37	193.2	9.53	8.64	29.21	0
2/7/20 8:45	13.11	192.8	8.94	8.63	29.21	0
2/7/20 9:00	16.35	199.1	9.24	8.77	29.2	0
2/7/20 9:15	13.08	205.8	9.57	8.73	29.2	0
2/7/20 9:30	10.86	200.2	9.31	8.74	29.2	0
2/7/20 9:45	13.13	206.2	9.01	8.84	29.2	0
2/7/20 10:00	13.87	200.2	9.95	8.88	29.23	0
2/7/20 10:15	12.6	196.9	8.97	8.88	29.23	0
2/7/20 10:30	13.66	196	9.64	8.95	29.23	0
2/7/20 10:45	15.1	193	8.51	9.02	29.23	0
2/7/20 11:00	16.37	188.6	9.39	8.95	29.21	0
2/7/20 11:15	16.63	197.9	8.74	9.04	29.21	0
2/7/20 11:30	16.26	196.3	7.68	9.09	29.21	0
2/7/20 11:45	13.1	195.1	8.76	9.06	29.21	0
2/7/20 12:00	14.06	196.2	7.161	9.15	29.2	0
2/7/20 12:15	11.96	207.2	10.21	9.34	29.2	0.01
2/7/20 12:30	13.84	219.1	9.05	9.59	29.2	0
2/7/20 12:45	12.21	212.2	8.31	9.46	29.2	0
2/7/20 13:00	11.87	205.8	9.85	9.3	29.17	0
2/7/20 13:15	11.48	204.9	10.03	9.3	29.17	0.02
2/7/20 13:30	20.88	231.6	10.41	9.14	29.17	0.01
2/7/20 13:45	14.84	229	9.93	9.04	29.17	0
2/7/20 14:00	14.8	224	9.86	8.92	29.14	0
2/7/20 14:15	14.29	230.4	8.8	8.77	29.14	0.01
2/7/20 14:30	16.33	236.6	8	8.64	29.14	0.01
2/7/20 14:45	11.77	221.6	13.42	8.69	29.14	0
2/7/20 15:00	13.29	199.8	9.58	8.72	29.1	0
2/7/20 15:15	13.75	208.6	9.67	8.77	29.1	0
2/7/20 15:30	13.28	211.6	9.36	8.84	29.1	0
2/7/20 15:45	15.59	210	8.65	8.78	29.1	0
2/7/20 16:00	14.81	206.4	11.26	8.5	29.05	0.01
2/7/20 16:15	16.82	200.5	8.2	8.62	29.05	0
2/7/20 16:30	17.37	195.8	12.93	8.7	29.05	0
2/7/20 16:45	17.98	199.6	9.97	8.72	29.05	0
2/7/20 17:00	18.89	208.9	8.44	8.77	29.01	0
2/7/20 17:15	18.17	211.3	9.61	8.7	29.01	0
2/7/20 17:30	12.55	202.1	9.16	8.35	29.01	0.02
2/7/20 17:45	13.42	212.3	9.29	8.1	29.01	0.02
2/7/20 18:00	16.97	211.2	8.58	7.944	29	0.02
2/7/20 18:15	15.21	213	10.52	7.77	29	0.02

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/7/20 18:30	14.86	203.5	9.5	7.569	29	0.03
2/7/20 18:45	17.87	203.8	8.82	7.52	29	0.02
2/7/20 19:00	21.42	227.2	25.58	6.933	28.99	0.1
2/7/20 19:15	23.79	241.7	11.4	4.834	28.99	0.06
2/7/20 19:30	18.28	227.1	10.41	5.288	28.99	0.01
2/7/20 19:45	16.57	213.5	11.92	5.36	28.99	0
2/7/20 20:00	13.28	211.9	14.09	5.293	29	0
2/7/20 20:15	12.22	190.4	10.61	5.03	29	0
2/7/20 20:30	10.49	169.7	18.35	5.067	29	0
2/7/20 20:45	9.84	196	20.4	5.562	29	0
2/7/20 21:00	12.24	203.7	11.32	5.607	28.99	0
2/7/20 21:15	15.88	190	10.06	5.281	28.99	0
2/7/20 21:30	16.89	185.8	8.64	5.291	28.99	0
2/7/20 21:45	18.44	193.5	8.08	5.471	28.99	0
2/7/20 22:00	17.7	193.3	7.753	5.52	28.97	0
2/7/20 22:15	17.4	189.3	9.37	5.515	28.97	0
2/7/20 22:30	19.2	197.5	7.565	5.491	28.97	0
2/7/20 22:45	18.36	191.7	9.49	5.283	28.97	0
2/7/20 23:00	19.79	192.5	8.98	5.149	28.95	0.01
2/7/20 23:15	20.31	197.6	10.28	5.085	28.95	0
2/7/20 23:30	19.34	200.6	7.914	5.043	28.95	0
2/7/20 23:45	21.02	199.8	9.02	5.102	28.95	0.01
2/8/20 0:00	19.6	207.1	7.012	5.062	28.96	0
2/8/20 0:15	18.11	204.2	8.73	4.995	28.96	0
2/8/20 0:30	20.4	198.8	8.65	5.032	28.96	0
2/8/20 0:45	18.96	202.8	10.56	5.035	28.96	0
2/8/20 1:00	18.32	199.3	9.35	4.918	28.95	0
2/8/20 1:15	18.78	200.4	7.921	4.852	28.95	0.01
2/8/20 1:30	20.91	194.2	9.65	4.923	28.95	0
2/8/20 1:45	18.75	193.7	9.43	4.983	28.95	0
2/8/20 2:00	19.93	202.6	9.23	5.031	28.95	0
2/8/20 2:15	16.9	202.6	8.47	5.075	28.95	0
2/8/20 2:30	16.08	200.2	10.15	5.057	28.95	0
2/8/20 2:45	19.53	199.9	10.46	5.271	28.95	0
2/8/20 3:00	18.23	202.8	8.88	5.419	28.93	0
2/8/20 3:15	19.3	202.9	11.54	5.554	28.93	0
2/8/20 3:30	18.15	214.6	10.37	5.721	28.93	0
2/8/20 3:45	13	216.4	9.65	5.78	28.93	0
2/8/20 4:00	16.63	227.4	10.49	5.923	28.97	0
2/8/20 4:15	16.29	231.7	10.35	5.958	28.97	0
2/8/20 4:30	13.73	239	9.83	5.966	28.97	0
2/8/20 4:45	15.85	242.6	9.31	5.939	28.97	0
2/8/20 5:00	16.27	251.5	9.24	5.835	29.03	0.01
2/8/20 5:15	12.25	271.9	22.21	5.598	29.03	0.01
2/8/20 5:30	9.91	308.3	16.21	5.175	29.03	0.04
2/8/20 5:45	8.94	340.3	20.1	4.938	29.03	0.02
2/8/20 6:00	6.095	323.2	12.24	4.61	29.08	0.01
2/8/20 6:15	3.97	270.4	31.06	4.533	29.08	0.01
2/8/20 6:30	5.047	223.6	6.649	4.513	29.08	0
2/8/20 6:45	5.355	210.8	3.399	4.487	29.08	0
2/8/20 7:00	4.654	192.4	10.18	4.456	29.1	0
2/8/20 7:15	3.869	171.2	16.87	4.385	29.1	0
2/8/20 7:30	3.22	129.2	53.4	4.392	29.1	0
2/8/20 7:45	4.626	51.73	12.4	4.189	29.1	0
2/8/20 8:00	4.247	54.29	15.58	4.228	29.14	0.01
2/8/20 8:15	3.302	89.2	30.65	4.331	29.14	0.01
2/8/20 8:30	2.239	355.2	69.59	4.685	29.14	0.03
2/8/20 8:45	4.484	258.7	90.1	4.585	29.14	0.02
2/8/20 9:00	3.098	147.3	39.13	4.899	29.17	0
2/8/20 9:15	0.976	199.8	47.89	4.706	29.17	0.01
2/8/20 9:30	1.473	174.3	70.65	4.875	29.17	0
2/8/20 9:45	1.921	131.9	21.63	4.915	29.17	0.01
2/8/20 10:00	4.121	196.1	31.67	4.946	29.21	0
2/8/20 10:15	4.518	218.2	23.91	5.13	29.21	0
2/8/20 10:30	7.591	222.9	11.38	5.121	29.21	0
2/8/20 10:45	6.587	223	14.08	5.133	29.21	0
2/8/20 11:00	6.587	214.9	9.83	5.256	29.25	0
2/8/20 11:15	5.66	227.5	18.54	5.504	29.25	0
2/8/20 11:30	7.081	234.2	7.269	5.597	29.25	0
2/8/20 11:45	8.49	225.6	8.86	5.809	29.25	0
2/8/20 12:00	8.99	224.8	8.29	5.972	29.28	0
2/8/20 12:15	8.74	232.3	9.39	5.929	29.28	0
2/8/20 12:30	9.91	21.4	36.03	4.343	29.28	0.04
2/8/20 12:45	9.55	38.32	8.94	3.748	29.28	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/8/20 13:00	10.22	33.6	11.01	3.997	29.28	0
2/8/20 13:15	10.06	34.24	12.36	4.014	29.28	0
2/8/20 13:30	9.69	29.53	11.44	3.879	29.28	0.02
2/8/20 13:45	8.19	31.49	11.16	3.995	29.28	0.02
2/8/20 14:00	9.72	33.67	10.28	4.299	29.31	0
2/8/20 14:15	10.39	29.17	11.92	4.629	29.31	0.01
2/8/20 14:30	6.776	24.86	22.52	4.53	29.31	0
2/8/20 14:45	5.667	22.12	18	4.861	29.31	0
2/8/20 15:00	5.897	26.71	16.63	5.158	29.36	0
2/8/20 15:15	6.733	29.22	10.22	5.108	29.36	0
2/8/20 15:30	4.456	13.83	14.28	5.178	29.36	0
2/8/20 15:45	4.567	31.4	10.14	5.457	29.36	0
2/8/20 16:00	4.946	18.12	9.51	5.543	29.39	0
2/8/20 16:15	4.805	13.68	12.77	5.756	29.39	0
2/8/20 16:30	3.545	28.89	16.86	5.801	29.39	0
2/8/20 16:45	3.343	19.97	25.39	5.672	29.39	0
2/8/20 17:00	2.468	308.5	32.87	5.663	29.4	0
2/8/20 17:15	2.495	305.2	16.18	5.615	29.4	0
2/8/20 17:30	3.856	307.6	9.52	5.45	29.4	0
2/8/20 17:45	3.878	293.6	7.282	5.399	29.4	0
2/8/20 18:00	4.138	294.6	11.02	5.446	29.46	0
2/8/20 18:15	6.235	323.5	9.69	5.589	29.46	0
2/8/20 18:30	4.477	309.1	8.93	5.228	29.46	0
2/8/20 18:45	4.695	312.8	11	5.179	29.46	0
2/8/20 19:00	7.015	322.6	8.12	5.155	29.49	0
2/8/20 19:15	6.419	340.6	16.84	5.08	29.49	0
2/8/20 19:30	5.126	351.5	18.38	5.146	29.49	0
2/8/20 19:45	5.182	336.5	20.49	5.079	29.49	0
2/8/20 20:00	2.975	27.98	20.29	4.699	29.51	0
2/8/20 20:15	4.866	14.23	11.16	4.723	29.51	0
2/8/20 20:30	3.485	39.33	20.21	4.601	29.51	0
2/8/20 20:45	3.74	8.38	16.61	4.731	29.51	0
2/8/20 21:00	2.147	19.57	37.62	4.886	29.53	0
2/8/20 21:15	1.595	100.3	42.59	4.737	29.53	0
2/8/20 21:30	0.563	38.73	19.27	4.766	29.53	0
2/8/20 21:45	0.914	281.5	37.93	4.861	29.53	0
2/8/20 22:00	1.476	273.8	21.56	4.952	29.54	0
2/8/20 22:15	3.007	243.4	14.48	4.959	29.54	0
2/8/20 22:30	3.082	273.2	13.8	4.878	29.54	0
2/8/20 22:45	3.495	284.8	5.125	4.858	29.54	0
2/8/20 23:00	2.962	315.4	26.1	4.816	29.57	0
2/8/20 23:15	4.48	337.3	18.75	4.828	29.57	0
2/8/20 23:30	6.254	344.8	14.11	4.792	29.57	0
2/8/20 23:45	7.419	347.6	14.35	4.971	29.57	0
2/9/20 0:00	6.036	350.1	11.27	4.783	29.61	0
2/9/20 0:15	5.06	359.2	12.62	4.683	29.61	0
2/9/20 0:30	5.344	13.3	6.317	4.268	29.61	0
2/9/20 0:45	5.403	1.091	15.34	3.929	29.61	0
2/9/20 1:00	5.333	4.587	16.69	3.745	29.62	0
2/9/20 1:15	0.142	337	10.35	3.476	29.62	0
2/9/20 1:30	3.654	317.8	11.43	3.786	29.62	0
2/9/20 1:45	4.196	311.5	5.915	3.669	29.62	0
2/9/20 2:00	0.794	335.9	24.43	3.73	29.63	0
2/9/20 2:15	0.164	310.4	3.567	3.506	29.63	0
2/9/20 2:30	0.642	43.41	14.14	2.841	29.63	0
2/9/20 2:45	0.632	16.04	5.421	3.019	29.63	0
2/9/20 3:00	3.061	30.81	23.38	2.928	29.64	0
2/9/20 3:15	0.907	20.47	21.93	2.456	29.64	0
2/9/20 3:30	1.774	2.96	18.52	2.475	29.64	0
2/9/20 3:45	0.09	23.51	2.945	2.55	29.64	0
2/9/20 4:00	1.182	318.2	17.4	2.763	29.65	0
2/9/20 4:15	1.861	1.668	62.91	2.973	29.65	0
2/9/20 4:30	2.076	126	26.95	2.057	29.65	0
2/9/20 4:45	2.269	144.5	39.06	2.36	29.65	0
2/9/20 5:00	1.733	28.57	30.13	1.861	29.65	0
2/9/20 5:15	1.246	3.56	4.685	2.393	29.65	0
2/9/20 5:30	0.57	151.5	35.45	2.528	29.65	0
2/9/20 5:45	2.737	140.1	10.34	2.302	29.65	0
2/9/20 6:00	0.596	146.9	5.529	2.435	29.65	0
2/9/20 6:15	2.785	358.7	17.34	2.071	29.65	0
2/9/20 6:30	2.605	19.43	10.29	2.063	29.65	0
2/9/20 6:45	2.724	42.99	5.524	2.13	29.65	0
2/9/20 7:00	1.756	18.32	8.48	2.145	29.68	0
2/9/20 7:15	1.532	51.79	8.86	2.277	29.68	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/9/20 7:30	0.902	133.4	65.8	2.26	29.68	0
2/9/20 7:45	1.631	204.9	8.4	2.372	29.68	0
2/9/20 8:00	2.224	174	50.92	1.901	29.68	0
2/9/20 8:15	3.385	128.5	6.862	1.388	29.68	0
2/9/20 8:30	2.888	132.1	6.416	1.87	29.68	0
2/9/20 8:45	3.142	152.7	6.328	2.213	29.68	0
2/9/20 9:00	1.9	136.5	15.54	2.569	29.65	0.01
2/9/20 9:15	1.224	88.1	12.51	2.972	29.65	0
2/9/20 9:30	1.185	85.6	29.22	3.598	29.65	0
2/9/20 9:45	0.731	87.9	20.09	4.372	29.65	0
2/9/20 10:00	2.055	177.1	35.91	4.133	29.66	0
2/9/20 10:15	2.911	190.7	19.11	3.819	29.66	0
2/9/20 10:30	2.541	164.6	10.12	4.141	29.66	0
2/9/20 10:45	2.916	214.4	20.22	4.556	29.66	0
2/9/20 11:00	3.8	230.4	14.86	4.588	29.67	0
2/9/20 11:15	3.064	234.3	37.57	5.079	29.67	0
2/9/20 11:30	2.579	195.4	33.34	5.557	29.67	0
2/9/20 11:45	2.608	153.3	25.45	5.529	29.67	0
2/9/20 12:00	3.571	162.7	26.58	5.718	29.65	0
2/9/20 12:15	3.181	238.7	46.1	5.864	29.65	0
2/9/20 12:30	1.472	230.5	73.8	6.42	29.65	0
2/9/20 12:45	2.403	333.9	23.64	6.543	29.65	0
2/9/20 13:00	2.192	72.95	82.6	6.605	29.66	0
2/9/20 13:15	1.521	245.9	60.44	7.276	29.66	0
2/9/20 13:30	2.494	188.6	76.62	7.469	29.66	0
2/9/20 13:45	3.176	163.9	30.1	7.035	29.66	0
2/9/20 14:00	2.915	122.4	46.1	7.321	29.63	0
2/9/20 14:15	3.396	342.7	19.54	6.775	29.63	0
2/9/20 14:30	2.288	16.54	19.41	6.806	29.63	0
2/9/20 14:45	2.829	0.817	12.97	6.511	29.63	0
2/9/20 15:00	2.482	12.8	9.81	6.207	29.62	0
2/9/20 15:15	2.739	29.04	13.05	6.302	29.62	0
2/9/20 15:30	4.611	329.7	28.9	6.922	29.62	0
2/9/20 15:45	4.725	356.4	18.44	7.103	29.62	0
2/9/20 16:00	5.091	333.1	7.614	6.909	29.63	0
2/9/20 16:15	4.669	336.9	9.98	6.766	29.63	0
2/9/20 16:30	3.372	332.9	10.54	6.839	29.63	0
2/9/20 16:45	4.303	335.4	5.532	6.455	29.63	0
2/9/20 17:00	2.849	8.3	16.57	6.156	29.62	0
2/9/20 17:15	1.5	359.7	11.8	5.731	29.62	0
2/9/20 17:30	1.368	321.5	23.88	5.539	29.62	0
2/9/20 17:45	2.399	304.1	13.02	5.532	29.62	0
2/9/20 18:00	3.868	318	6.039	5.036	29.6	0
2/9/20 18:15	2.951	349.2	9.9	4.9	29.6	0
2/9/20 18:30	2.991	19.24	7.58	4.312	29.6	0
2/9/20 18:45	2.579	33.36	14.45	4.337	29.6	0
2/9/20 19:00	2.576	45.06	6.086	3.888	29.59	0
2/9/20 19:15	3.285	42.71	3.295	3.729	29.59	0
2/9/20 19:30	2.721	44.7	4.765	3.658	29.59	0
2/9/20 19:45	2.227	41.41	4.477	3.476	29.59	0
2/9/20 20:00	1.718	42.31	8.56	3.541	29.6	0
2/9/20 20:15	0.985	24.15	18.48	3.797	29.6	0
2/9/20 20:30	2.098	171.7	31.42	2.74	29.6	0
2/9/20 20:45	2.7	132.3	11.19	2.679	29.6	0
2/9/20 21:00	2.674	134.2	6.947	2.772	29.61	0
2/9/20 21:15	2.766	112.8	5.465	3.043	29.61	0
2/9/20 21:30	3.151	123.2	5.822	2.614	29.61	0
2/9/20 21:45	2.776	123.8	6.991	3.133	29.61	0
2/9/20 22:00	2.778	100.6	6.217	3.251	29.59	0
2/9/20 22:15	2.168	85	7.562	3.231	29.59	0
2/9/20 22:30	2.077	55.88	12.72	3.114	29.59	0
2/9/20 22:45	2.979	69.75	4.72	2.94	29.59	0
2/9/20 23:00	3.103	61.82	9.14	2.8	29.61	0
2/9/20 23:15	2.645	59.22	5.666	2.605	29.61	0
2/9/20 23:30	2.559	69	5.313	3.324	29.61	0
2/9/20 23:45	2.311	62.77	4.169	3.239	29.61	0
2/10/20 0:00	2.436	99.7	19.84	2.635	29.61	0
2/10/20 0:15	1.809	103.6	3.925	3.094	29.61	0
2/10/20 0:30	1.491	335.2	4.19	2.915	29.61	0
2/10/20 0:45	2.851	20.78	12.45	2.305	29.61	0
2/10/20 1:00	1.584	1.704	40.19	3.044	29.58	0
2/10/20 1:15	2.757	313.6	22.78	3.323	29.58	0
2/10/20 1:30	1.564	307.1	5.337	3.274	29.58	0
2/10/20 1:45	0.246	312.5	5.357	3.184	29.58	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/10/20 2:00	0	0	0	3.665	29.58	0
2/10/20 2:15	0.014	349.2	0.005	3.726	29.58	0
2/10/20 2:30	0.645	13.26	33.13	3.09	29.58	0
2/10/20 2:45	0.405	7.583	8.48	3.178	29.58	0
2/10/20 3:00	0.383	3.386	10.53	2.922	29.6	0
2/10/20 3:15	0.028	340	0.017	3.233	29.6	0
2/10/20 3:30	1.277	321	21.68	3.233	29.6	0
2/10/20 3:45	0.489	316.1	9.69	3.238	29.6	0
2/10/20 4:00	0.081	29.19	0.047	3.041	29.6	0
2/10/20 4:15	0.676	53.65	3.149	3.259	29.6	0
2/10/20 4:30	2.337	33.87	7.778	2.71	29.6	0
2/10/20 4:45	3.084	34.25	14.28	3.02	29.6	0
2/10/20 5:00	3.098	45.4	8.32	2.968	29.61	0
2/10/20 5:15	3.563	31.94	5.961	2.674	29.61	0
2/10/20 5:30	3.573	28.7	5.969	2.754	29.61	0
2/10/20 5:45	4.111	12.52	11.96	3.404	29.61	0
2/10/20 6:00	3.548	27.59	21.19	3.54	29.61	0
2/10/20 6:15	5.118	37.53	10.21	2.689	29.61	0
2/10/20 6:30	5.631	35.29	4.947	2.587	29.61	0
2/10/20 6:45	6.822	38.19	6.061	2.537	29.61	0
2/10/20 7:00	7.39	20.7	7.591	2.894	29.59	0
2/10/20 7:15	5.678	16.55	5.743	2.697	29.59	0
2/10/20 7:30	5.393	24.51	11.14	2.674	29.59	0
2/10/20 7:45	3.156	36.48	13.47	2.114	29.59	0
2/10/20 8:00	4.219	47.28	7.335	2.21	29.63	0
2/10/20 8:15	5.621	31.89	6.293	2.126	29.63	0
2/10/20 8:30	5.465	33.44	7.025	2.245	29.63	0
2/10/20 8:45	3.826	28.29	21.42	2.291	29.63	0
2/10/20 9:00	3.298	60.08	12.27	3	29.64	0
2/10/20 9:15	2.885	50.17	7.991	3.886	29.64	0
2/10/20 9:30	2.504	354.7	29.76	4.285	29.64	0
2/10/20 9:45	2.37	274.6	39.09	4.22	29.64	0
2/10/20 10:00	4.432	268.2	14.72	4.587	29.65	0
2/10/20 10:15	3.806	326.9	27.01	5.472	29.65	0
2/10/20 10:30	1.949	41.05	22.86	5.111	29.65	0
2/10/20 10:45	2.575	62.62	5.162	4.444	29.65	0
2/10/20 11:00	3.424	44.25	14.25	4.637	29.64	0
2/10/20 11:15	5.081	26.8	9.58	4.946	29.64	0
2/10/20 11:30	6.501	33.55	11.92	5.76	29.64	0
2/10/20 11:45	7	27.96	10.68	6.532	29.64	0
2/10/20 12:00	7.153	34.42	10.46	6.792	29.63	0
2/10/20 12:15	3.44	26.26	21.88	7.022	29.63	0
2/10/20 12:30	2.955	21.38	25.02	7.251	29.63	0
2/10/20 12:45	1.755	288.7	50.84	7.879	29.63	0
2/10/20 13:00	1.433	294.2	70.13	8.13	29.64	0
2/10/20 13:15	2.838	343.6	18.13	7.721	29.64	0
2/10/20 13:30	2.389	292	33.72	7.988	29.64	0
2/10/20 13:45	4.907	284.2	16.99	7.664	29.64	0
2/10/20 14:00	7.576	283.2	9.67	7.876	29.61	0
2/10/20 14:15	6.928	291.7	12.02	7.931	29.61	0
2/10/20 14:30	4.954	269.3	17.09	8.15	29.61	0
2/10/20 14:45	6.601	264.7	22.32	8.13	29.61	0
2/10/20 15:00	7.795	273.8	9.47	7.899	29.62	0
2/10/20 15:15	6.948	263.6	17.09	8.04	29.62	0
2/10/20 15:30	4.301	283.9	15.85	8.04	29.62	0
2/10/20 15:45	3.866	273.5	20.84	8.07	29.62	0
2/10/20 16:00	4.023	309.3	18.76	7.966	29.61	0
2/10/20 16:15	4.945	296	21.45	7.803	29.61	0
2/10/20 16:30	6.516	271.3	8.22	7.521	29.61	0
2/10/20 16:45	6.457	288	9.07	7.284	29.61	0
2/10/20 17:00	5.429	281.2	10.08	6.944	29.61	0
2/10/20 17:15	7.266	279	6.592	6.526	29.61	0
2/10/20 17:30	7.932	278.8	6.04	5.93	29.61	0
2/10/20 17:45	8.37	295.7	6.252	5.463	29.61	0
2/10/20 18:00	8.42	308.2	3.827	4.914	29.59	0
2/10/20 18:15	8.23	316.1	4.864	4.671	29.59	0
2/10/20 18:30	7.238	320.6	5.257	4.405	29.59	0
2/10/20 18:45	5.152	328.1	7.281	4.514	29.59	0
2/10/20 19:00	3.623	303.5	12.82	4.6	29.6	0
2/10/20 19:15	3.567	294	4.864	4.477	29.6	0
2/10/20 19:30	1.754	344.4	40.92	4.524	29.6	0
2/10/20 19:45	2.755	59.36	30.51	4.136	29.6	0
2/10/20 20:00	2.42	83.8	15.53	3.301	29.59	0
2/10/20 20:15	1.541	55.86	27.65	2.965	29.59	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/10/20 20:30	2.921	43.19	12.24	2.89	29.59	0
2/10/20 20:45	3.879	58.14	6.241	3.224	29.59	0
2/10/20 21:00	3.978	56.02	10.4	3.533	29.6	0
2/10/20 21:15	3.392	46.6	14.52	3.147	29.6	0
2/10/20 21:30	2.73	115.5	11.2	2.916	29.6	0
2/10/20 21:45	2.814	98.9	8.91	2.556	29.6	0
2/10/20 22:00	2.204	109.6	21.64	2.654	29.61	0
2/10/20 22:15	2.125	155.1	29.67	3.177	29.61	0
2/10/20 22:30	1.095	56.92	5.823	2.621	29.61	0
2/10/20 22:45	0.959	116.7	40.73	2.579	29.61	0
2/10/20 23:00	0.296	88.7	28.34	3.068	29.59	0
2/10/20 23:15	2.002	40.96	10.95	2.342	29.59	0
2/10/20 23:30	0.571	343.7	34.75	2.243	29.59	0
2/10/20 23:45	0.385	6.825	21.71	2.365	29.59	0
2/11/20 0:00	2.552	81.9	8.66	2.538	29.58	0
2/11/20 0:15	2.458	82	5.137	1.915	29.58	0
2/11/20 0:30	3.039	100.1	9.23	1.754	29.58	0
2/11/20 0:45	2.965	103.1	7.364	1.802	29.58	0
2/11/20 1:00	2.351	105.2	16.52	2.109	29.58	0
2/11/20 1:15	2.246	142.8	11.42	2.893	29.58	0
2/11/20 1:30	3.132	164.2	4.618	3.177	29.58	0
2/11/20 1:45	3.883	178.4	7.826	2.449	29.58	0
2/11/20 2:00	5.126	183.2	11.41	2.203	29.55	0
2/11/20 2:15	2.935	191.2	13.66	1.743	29.55	0
2/11/20 2:30	2.57	186.3	6.972	2.15	29.55	0
2/11/20 2:45	5.399	211	6.723	1.665	29.55	0
2/11/20 3:00	6.134	191.1	5.673	1.6	29.55	0
2/11/20 3:15	4.904	168.2	19.23	1.77	29.55	0
2/11/20 3:30	3.625	122.6	17.44	1.455	29.55	0
2/11/20 3:45	3.259	127.5	9.71	1.337	29.55	0
2/11/20 4:00	5.563	158.5	7.404	1.656	29.52	0
2/11/20 4:15	5.875	162.1	6.653	1.804	29.52	0
2/11/20 4:30	5.845	164.2	12.49	1.739	29.52	0
2/11/20 4:45	6.627	151	6.241	1.849	29.52	0
2/11/20 5:00	6.696	155.9	4.936	1.973	29.49	0
2/11/20 5:15	6.495	156.8	5.069	1.841	29.49	0
2/11/20 5:30	5.678	148.6	6.085	1.81	29.49	0
2/11/20 5:45	6.673	151.8	6.966	1.978	29.49	0
2/11/20 6:00	6.444	145.2	7.431	2.027	29.49	0
2/11/20 6:15	7.573	144.9	6.984	2.058	29.49	0
2/11/20 6:30	6.753	131.7	11.08	2.177	29.49	0
2/11/20 6:45	7.437	149.4	8.66	2.385	29.49	0
2/11/20 7:00	5.816	142.1	12.97	2.583	29.47	0
2/11/20 7:15	6.552	139.5	8.16	3.09	29.47	0
2/11/20 7:30	6.088	145.5	11.38	3.268	29.47	0
2/11/20 7:45	7.385	146.4	10.82	3.373	29.47	0
2/11/20 8:00	4.905	143.2	15.04	3.664	29.46	0
2/11/20 8:15	7.555	182.9	12.82	4.149	29.46	0
2/11/20 8:30	5.559	205.8	15.2	4.036	29.46	0
2/11/20 8:45	7.83	222.6	11.23	3.969	29.46	0
2/11/20 9:00	8.85	203.1	9.61	3.64	29.48	0
2/11/20 9:15	8.74	183.2	8.18	3.556	29.48	0
2/11/20 9:30	9.82	184.1	7.394	3.601	29.48	0
2/11/20 9:45	10.41	182.7	8.21	3.564	29.48	0
2/11/20 10:00	9.56	182	8.77	3.683	29.48	0
2/11/20 10:15	8.73	161.3	10.12	3.742	29.48	0
2/11/20 10:30	8.46	161.5	11.17	3.842	29.48	0
2/11/20 10:45	9.35	160.4	8.48	3.978	29.48	0
2/11/20 11:00	8.19	159.5	8.22	4.1	29.49	0
2/11/20 11:15	6.563	154.8	6.491	4.176	29.49	0
2/11/20 11:30	5.802	138.4	13.66	4.24	29.49	0
2/11/20 11:45	4.938	137.4	10.6	4.281	29.49	0
2/11/20 12:00	4.208	124.1	8.02	4.286	29.47	0
2/11/20 12:15	5.395	125.6	7.636	4.44	29.47	0
2/11/20 12:30	5.733	126	8.55	4.64	29.47	0
2/11/20 12:45	6.066	132	7.932	4.687	29.47	0
2/11/20 13:00	5.324	127.6	9.13	4.617	29.45	0
2/11/20 13:15	4.006	121.5	12	4.729	29.45	0
2/11/20 13:30	3.082	99.1	15.93	4.66	29.45	0
2/11/20 13:45	4.646	107.6	12.1	4.705	29.45	0
2/11/20 14:00	5.377	115.5	9.13	4.897	29.43	0
2/11/20 14:15	5.727	116.2	8.36	4.87	29.43	0
2/11/20 14:30	5.851	120.5	9.5	4.887	29.43	0
2/11/20 14:45	6.346	113.5	9.9	4.902	29.43	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/11/20 15:00	5.887	116.6	8.65	4.983	29.44	0
2/11/20 15:15	5.13	122.8	8.63	5.077	29.44	0.01
2/11/20 15:30	5.053	112	7.33	5.142	29.44	0
2/11/20 15:45	4.644	115.8	8.72	5.186	29.44	0
2/11/20 16:00	5.272	115.7	9.33	5.286	29.44	0
2/11/20 16:15	5.23	117.8	9.82	5.338	29.44	0
2/11/20 16:30	4.202	125.4	9.82	5.427	29.44	0
2/11/20 16:45	4.085	113.3	7.444	5.439	29.44	0
2/11/20 17:00	5.39	118.6	8.08	5.48	29.42	0
2/11/20 17:15	4.855	127	7.821	5.56	29.42	0
2/11/20 17:30	4.439	125.8	5.866	5.542	29.42	0
2/11/20 17:45	5.027	135.1	6.198	5.54	29.42	0.01
2/11/20 18:00	5.342	128.5	6.312	5.57	29.4	0
2/11/20 18:15	5.837	133.6	6.852	5.624	29.4	0
2/11/20 18:30	5.797	142.9	9.48	5.693	29.4	0
2/11/20 18:45	3.735	133.9	8.53	5.651	29.4	0
2/11/20 19:00	3.028	120.4	5.908	5.583	29.4	0
2/11/20 19:15	3.945	121.3	10.45	5.564	29.4	0
2/11/20 19:30	4.248	122.8	10.21	5.597	29.4	0.01
2/11/20 19:45	3.854	140.6	16.85	5.629	29.4	0
2/11/20 20:00	3.56	152	21.7	5.667	29.42	0
2/11/20 20:15	3.555	132	8.22	5.675	29.42	0
2/11/20 20:30	3.252	128.1	8.97	5.686	29.42	0
2/11/20 20:45	3.535	142.6	9.28	5.685	29.42	0
2/11/20 21:00	3.62	143.4	7.768	5.696	29.43	0
2/11/20 21:15	2.989	142.3	9.75	5.724	29.43	0
2/11/20 21:30	3.083	136.9	12.07	5.708	29.43	0
2/11/20 21:45	3.399	149.1	10.21	5.736	29.43	0
2/11/20 22:00	3.048	144.1	10.88	5.784	29.42	0
2/11/20 22:15	2.434	126.7	12.65	5.785	29.42	0
2/11/20 22:30	1.569	113.2	11.62	5.772	29.42	0
2/11/20 22:45	0.861	123.3	15.65	5.799	29.42	0
2/11/20 23:00	2.895	180.6	17.72	5.844	29.44	0
2/11/20 23:15	1.879	153.9	15.19	5.844	29.44	0
2/11/20 23:30	1.87	140.2	12.89	5.856	29.44	0
2/11/20 23:45	1.998	147.4	15.84	5.896	29.44	0
2/12/20 0:00	1.641	158.6	21.29	5.915	29.46	0
2/12/20 0:15	2.966	181.9	12.17	5.959	29.46	0.01
2/12/20 0:30	2.539	178.5	10.81	5.948	29.46	0
2/12/20 0:45	2.351	172.7	10.34	5.925	29.46	0
2/12/20 1:00	1.522	201.5	8.47	5.948	29.45	0
2/12/20 1:15	1.288	239.4	54.93	5.939	29.45	0
2/12/20 1:30	1.282	13.97	18.28	5.764	29.45	0.01
2/12/20 1:45	0.386	43.34	3.553	5.671	29.45	0.04
2/12/20 2:00	1.121	5.727	24.26	5.501	29.47	0.01
2/12/20 2:15	2.773	339	9.59	5.599	29.47	0
2/12/20 2:30	1.881	9.07	12.99	5.658	29.47	0.01
2/12/20 2:45	2.255	23.25	2.651	5.508	29.47	0.01
2/12/20 3:00	2.355	26.15	2.117	5.33	29.47	0
2/12/20 3:15	2.013	26.16	3.607	5.203	29.47	0
2/12/20 3:30	2.246	14.67	4.89	5.078	29.47	0
2/12/20 3:45	2.276	1.968	7.942	5.007	29.47	0
2/12/20 4:00	3.892	9.93	15.18	4.947	29.48	0
2/12/20 4:15	1.995	70.59	17.05	4.681	29.48	0
2/12/20 4:30	3.176	47.22	15.48	4.87	29.48	0
2/12/20 4:45	2.849	60.09	20.83	4.856	29.48	0
2/12/20 5:00	2.766	96.2	15.07	4.818	29.48	0
2/12/20 5:15	2.791	116.6	3.892	4.864	29.48	0
2/12/20 5:30	2.121	118.6	9.76	4.968	29.48	0
2/12/20 5:45	3.052	104.3	7.18	5.015	29.48	0.01
2/12/20 6:00	3.447	153.5	19.78	4.849	29.47	0
2/12/20 6:15	3.662	155	13.17	4.868	29.47	0
2/12/20 6:30	2.598	129.4	6.095	4.872	29.47	0
2/12/20 6:45	2.266	123.9	8.69	4.854	29.47	0
2/12/20 7:00	2.526	114.7	9.29	4.762	29.47	0
2/12/20 7:15	2.299	131.4	14.94	4.696	29.47	0
2/12/20 7:30	2.735	163.1	10.84	4.719	29.47	0
2/12/20 7:45	1.686	100.8	15	4.574	29.47	0
2/12/20 8:00	2.504	98	6.421	4.407	29.47	0
2/12/20 8:15	3.433	131	8.21	4.483	29.47	0
2/12/20 8:30	3.985	131.5	6.137	4.671	29.47	0
2/12/20 8:45	3.338	119.9	7.472	4.775	29.47	0
2/12/20 9:00	3.857	122	7.471	4.95	29.47	0
2/12/20 9:15	3.297	121.9	8.97	5.454	29.47	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/12/20 9:30	3.354	137.6	14.31	6.132	29.47	0
2/12/20 9:45	3.452	156.5	15.99	6.657	29.47	0
2/12/20 10:00	3.534	164.8	27.04	6.571	29.48	0
2/12/20 10:15	3.075	156.9	27.39	6.289	29.48	0
2/12/20 10:30	2.495	127	14.45	6.364	29.48	0
2/12/20 10:45	0.852	73.15	20.67	6.617	29.48	0
2/12/20 11:00	0.928	21.76	14.97	7.019	29.51	0
2/12/20 11:15	1.621	16.26	9.23	7.031	29.51	0
2/12/20 11:30	1.218	8.96	31.63	7.271	29.51	0
2/12/20 11:45	2.014	23.97	39.01	7.76	29.51	0
2/12/20 12:00	2.845	29.5	13.35	7.111	29.48	0
2/12/20 12:15	2.444	10.15	11.13	6.98	29.48	0
2/12/20 12:30	3.972	45.73	8.2	6.794	29.48	0
2/12/20 12:45	3.816	15.85	10.77	6.713	29.48	0
2/12/20 13:00	3.198	23.07	8.64	6.855	29.46	0
2/12/20 13:15	2.987	27.13	10.2	6.919	29.46	0
2/12/20 13:30	2.902	28.01	9.33	6.97	29.46	0
2/12/20 13:45	2.045	26.11	8.81	6.998	29.46	0
2/12/20 14:00	0.98	18.34	15.68	7.217	29.44	0
2/12/20 14:15	0.776	67.87	6.741	7.234	29.44	0
2/12/20 14:30	0.86	52.65	7.517	7.32	29.44	0
2/12/20 14:45	1.169	49.2	7.143	7.309	29.44	0
2/12/20 15:00	1.884	4.691	18.11	7.314	29.42	0
2/12/20 15:15	2.932	1.456	9.68	7.33	29.42	0
2/12/20 15:30	3.195	3.436	7.066	7.429	29.42	0
2/12/20 15:45	3.135	355.2	13.42	7.377	29.42	0
2/12/20 16:00	2.865	343.5	9.1	7.444	29.41	0
2/12/20 16:15	2.741	329.5	6.814	7.409	29.41	0
2/12/20 16:30	3.055	308.4	12	7.373	29.41	0
2/12/20 16:45	3.367	307.4	14.68	7.305	29.41	0
2/12/20 17:00	3.788	313.8	8.2	7.172	29.41	0
2/12/20 17:15	2.018	282	12.64	7.111	29.41	0
2/12/20 17:30	2.456	282.7	5.814	6.953	29.41	0
2/12/20 17:45	2.065	294.3	12.48	6.78	29.41	0
2/12/20 18:00	2.028	299.8	12.96	6.721	29.39	0
2/12/20 18:15	1.592	325	11.03	6.671	29.39	0
2/12/20 18:30	0.409	34.09	10.99	6.537	29.39	0
2/12/20 18:45	1.468	49.84	3.067	6.276	29.39	0
2/12/20 19:00	1.758	53.57	1.785	6.113	29.38	0
2/12/20 19:15	1.459	37.63	8.77	5.81	29.38	0
2/12/20 19:30	1.82	38.67	9	5.754	29.38	0
2/12/20 19:45	0.842	49.65	0.104	5.75	29.38	0
2/12/20 20:00	0.393	62.84	8.82	5.847	29.34	0
2/12/20 20:15	2.079	107.7	18.42	5.786	29.34	0
2/12/20 20:30	1.742	95.6	14.96	5.682	29.34	0
2/12/20 20:45	1.151	65.83	2.181	5.666	29.34	0
2/12/20 21:00	2.011	74.37	19.79	5.344	29.32	0
2/12/20 21:15	2.223	100.7	20.95	5.103	29.32	0
2/12/20 21:30	2.083	51.26	12.93	5.116	29.32	0
2/12/20 21:45	3.101	26.78	5.52	5.525	29.32	0
2/12/20 22:00	3.071	40.37	6.184	5.057	29.31	0
2/12/20 22:15	2.46	43.32	7.294	4.586	29.31	0
2/12/20 22:30	3.6	58.97	8.5	4.585	29.31	0
2/12/20 22:45	3.488	58.37	6.838	4.562	29.31	0
2/12/20 23:00	2.893	63.94	3.538	4.487	29.3	0
2/12/20 23:15	2.465	61.62	7.429	4.522	29.3	0
2/12/20 23:30	2.998	76.92	11.68	4.24	29.3	0
2/12/20 23:45	2.259	103.1	22.51	3.983	29.3	0
2/13/20 0:00	1.045	131.5	10.96	3.926	29.27	0
2/13/20 0:15	1.468	105.1	1.713	3.98	29.27	0
2/13/20 0:30	3.456	182.5	54.21	3.836	29.27	0
2/13/20 0:45	6.484	206.4	6.739	3.39	29.27	0
2/13/20 1:00	5.321	192	20.61	3.558	29.26	0
2/13/20 1:15	3.451	139.4	24.09	3.404	29.26	0
2/13/20 1:30	2.717	91.4	11.13	2.771	29.26	0
2/13/20 1:45	2.9	98.4	9.08	3.107	29.26	0
2/13/20 2:00	3.473	118.8	9.71	3.148	29.25	0
2/13/20 2:15	5.252	136.5	8.03	3.212	29.25	0
2/13/20 2:30	6.477	161.7	8.85	3.477	29.25	0
2/13/20 2:45	6.955	160.5	6.129	3.774	29.25	0
2/13/20 3:00	5.778	160.5	6.047	3.877	29.24	0
2/13/20 3:15	5.392	145.9	7.13	3.765	29.24	0
2/13/20 3:30	4.96	141	8.46	3.264	29.24	0
2/13/20 3:45	6.729	162.7	10.49	3.321	29.24	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/13/20 4:00	7.528	149.6	8.54	3.315	29.18	0
2/13/20 4:15	7.976	164.3	9.24	3.352	29.18	0
2/13/20 4:30	8.53	165.2	8.83	3.448	29.18	0
2/13/20 4:45	6.747	196.5	14.58	3.024	29.18	0
2/13/20 5:00	6.954	187.6	12.63	2.868	29.17	0
2/13/20 5:15	5.552	174.2	8.71	3.494	29.17	0
2/13/20 5:30	4.346	202.9	17.56	3.057	29.17	0
2/13/20 5:45	6.058	215.8	7.711	2.469	29.17	0
2/13/20 6:00	6.413	205.7	7.226	2.42	29.18	0
2/13/20 6:15	7.142	161.8	13.61	2.015	29.18	0
2/13/20 6:30	6.94	170.7	9.1	2.431	29.18	0
2/13/20 6:45	5.795	171.7	7.755	2.823	29.18	0
2/13/20 7:00	4.341	156	9.62	2.938	29.17	0
2/13/20 7:15	4.136	151.1	14.68	3.081	29.17	0
2/13/20 7:30	5.17	193.1	16.49	3.015	29.17	0
2/13/20 7:45	6.657	179.2	9.85	3.187	29.17	0
2/13/20 8:00	8.55	183.1	12.02	3.672	29.18	0
2/13/20 8:15	6.735	149.5	9.39	3.637	29.18	0
2/13/20 8:30	7.348	142.5	10.03	3.942	29.18	0
2/13/20 8:45	6.932	143.3	8.94	4.057	29.18	0
2/13/20 9:00	7.367	146.7	9.57	4.144	29.17	0
2/13/20 9:15	8.1	146.2	9.97	4.376	29.17	0
2/13/20 9:30	6.653	141.6	11.77	4.488	29.17	0
2/13/20 9:45	7.564	153.9	9.72	4.455	29.17	0
2/13/20 10:00	8.63	164	7.631	4.368	29.13	0.01
2/13/20 10:15	7.865	155.6	11.06	4.513	29.13	0
2/13/20 10:30	6.891	157.9	8.49	4.675	29.13	0
2/13/20 10:45	6.785	159.5	8.44	4.722	29.13	0
2/13/20 11:00	6.94	159.6	8.99	4.775	29.13	0
2/13/20 11:15	6.146	158.8	8.07	4.803	29.13	0
2/13/20 11:30	6.76	185	20.98	4.963	29.13	0
2/13/20 11:45	7.137	191.7	12.03	5.021	29.13	0
2/13/20 12:00	7.087	165.3	15.87	5.035	29.14	0
2/13/20 12:15	8.97	164.7	9.66	4.882	29.14	0
2/13/20 12:30	7.191	168.4	12.06	4.982	29.14	0
2/13/20 12:45	7.146	147.3	9.51	4.962	29.14	0
2/13/20 13:00	7.855	155.5	13.01	5.094	29.14	0
2/13/20 13:15	7.385	149.1	9.43	5.083	29.14	0
2/13/20 13:30	7.608	141.1	8.15	5.002	29.14	0
2/13/20 13:45	7.859	146.2	11.39	4.968	29.14	0
2/13/20 14:00	7.838	152.8	10.79	4.918	29.12	0.01
2/13/20 14:15	7.489	161.7	8.83	4.887	29.12	0
2/13/20 14:30	8.19	166.8	9.07	4.937	29.12	0
2/13/20 14:45	7.383	177.6	13.87	5.047	29.12	0
2/13/20 15:00	9.56	185	11.01	5.105	29.1	0
2/13/20 15:15	8.98	185.2	9.89	5.255	29.1	0.01
2/13/20 15:30	8.6	192.4	7.926	5.331	29.1	0
2/13/20 15:45	11.06	194.7	8.97	5.427	29.1	0
2/13/20 16:00	10.73	195	8.66	5.509	29.09	0
2/13/20 16:15	12.01	194	7.909	5.61	29.09	0
2/13/20 16:30	11.3	198.7	8.64	5.671	29.09	0
2/13/20 16:45	8.73	206.8	9.75	5.682	29.09	0
2/13/20 17:00	9.31	223.1	10.09	5.752	29.1	0
2/13/20 17:15	10.52	206	13.88	5.722	29.1	0
2/13/20 17:30	9.86	199	9.24	5.626	29.1	0
2/13/20 17:45	7.364	206.8	8.56	5.623	29.1	0
2/13/20 18:00	6.342	208.1	11.11	5.606	29.12	0
2/13/20 18:15	6.371	188.2	16.82	5.547	29.12	0
2/13/20 18:30	9.55	204.3	15.78	5.388	29.12	0
2/13/20 18:45	11.56	208.7	7.72	5.442	29.12	0
2/13/20 19:00	10.54	212.5	8.29	5.344	29.12	0
2/13/20 19:15	11.03	210.5	7.896	5.254	29.12	0
2/13/20 19:30	12.39	205.8	6.341	5.137	29.12	0
2/13/20 19:45	11.05	206.9	7.27	5.033	29.12	0
2/13/20 20:00	11.07	193.4	9.22	4.923	29.11	0
2/13/20 20:15	10.52	196.3	8.89	4.825	29.11	0
2/13/20 20:30	11.91	198.5	8.83	4.757	29.11	0
2/13/20 20:45	11.83	206.3	10.11	4.714	29.11	0
2/13/20 21:00	10.62	212.4	8.97	4.694	29.12	0
2/13/20 21:15	11.24	214	7.481	4.653	29.12	0
2/13/20 21:30	10.5	211	9.76	4.599	29.12	0
2/13/20 21:45	11.91	209.4	7.664	4.557	29.12	0
2/13/20 22:00	10.81	203.1	6.618	4.49	29.14	0
2/13/20 22:15	10.55	194.2	8.5	4.442	29.14	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/13/20 22:30	13.36	204.8	7.814	4.436	29.14	0
2/13/20 22:45	14.51	204.5	9.9	4.499	29.14	0
2/13/20 23:00	14.67	204.7	9.48	4.504	29.15	0
2/13/20 23:15	12.86	201.4	8.38	4.45	29.15	0
2/13/20 23:30	13.93	197.9	8.45	4.394	29.15	0
2/13/20 23:45	12.24	204.8	8.59	4.359	29.15	0
2/14/20 0:00	15.87	201.5	7.966	4.342	29.15	0
2/14/20 0:15	13.97	203.3	8.11	4.298	29.15	0
2/14/20 0:30	13.64	200.8	8.85	4.319	29.15	0
2/14/20 0:45	12.71	202.4	11.26	4.296	29.15	0
2/14/20 1:00	11.33	192.3	15.84	4.323	29.16	0
2/14/20 1:15	9.79	201	14.31	4.279	29.16	0
2/14/20 1:30	12.07	217.3	13.95	4.285	29.16	0
2/14/20 1:45	11.17	220.4	12.45	4.286	29.16	0
2/14/20 2:00	12.04	219	14.97	4.243	29.18	0
2/14/20 2:15	9.98	220	11.09	4.297	29.18	0
2/14/20 2:30	10.88	214.5	11.31	4.298	29.18	0
2/14/20 2:45	9.69	217.3	12.49	4.323	29.18	0
2/14/20 3:00	10.6	216.6	10.24	4.365	29.19	0
2/14/20 3:15	11.82	220.4	9.13	4.33	29.19	0
2/14/20 3:30	12.89	217.4	10.03	4.301	29.19	0
2/14/20 3:45	12.74	215.4	9.36	4.25	29.19	0
2/14/20 4:00	12.26	212	11.62	4.273	29.2	0
2/14/20 4:15	12.02	210	8.78	4.272	29.2	0
2/14/20 4:30	11.92	209.7	9.77	4.281	29.2	0
2/14/20 4:45	11.48	208.1	7.628	4.259	29.2	0
2/14/20 5:00	11.9	204.2	9.26	4.242	29.21	0
2/14/20 5:15	11.42	205.4	10.59	4.277	29.21	0
2/14/20 5:30	9.56	206.3	9.74	4.283	29.21	0
2/14/20 5:45	10.61	201.3	9.84	4.294	29.21	0
2/14/20 6:00	8.98	191.3	8.53	4.255	29.23	0
2/14/20 6:15	11.1	189	9.57	4.263	29.23	0
2/14/20 6:30	11.56	196.7	10.28	4.248	29.23	0
2/14/20 6:45	12.23	196.3	7.8	4.174	29.23	0
2/14/20 7:00	11.45	191.6	10.12	4.146	29.24	0
2/14/20 7:15	12.11	185.6	9.93	4.1	29.24	0
2/14/20 7:30	12.31	187.4	10.42	4.055	29.24	0
2/14/20 7:45	11.29	180.6	8.14	4.007	29.24	0
2/14/20 8:00	9.84	178.2	9.64	3.993	29.26	0
2/14/20 8:15	9.49	175.8	8.26	4.022	29.26	0
2/14/20 8:30	8.99	179.5	9.26	4.031	29.26	0
2/14/20 8:45	9.4	179.1	9.35	4.059	29.26	0
2/14/20 9:00	8.84	191.1	10.32	4.139	29.29	0
2/14/20 9:15	10.81	194.5	9.78	4.25	29.29	0
2/14/20 9:30	10.22	193.1	11.05	4.233	29.29	0
2/14/20 9:45	8.48	196.4	11.87	4.327	29.29	0
2/14/20 10:00	7.778	186.1	9.92	4.416	29.3	0
2/14/20 10:15	9.07	179.1	10.07	4.585	29.3	0
2/14/20 10:30	8.34	180.3	9.47	4.659	29.3	0
2/14/20 10:45	7.514	178.5	9.82	4.728	29.3	0
2/14/20 11:00	7.269	171.3	13.26	5.037	29.33	0
2/14/20 11:15	7.234	168.7	13.29	5.251	29.33	0
2/14/20 11:30	5.969	170.5	19.68	5.638	29.33	0
2/14/20 11:45	6.502	173.9	20.04	5.752	29.33	0
2/14/20 12:00	10.43	184.9	12.75	6.03	29.33	0
2/14/20 12:15	11.45	204.3	11.43	6.235	29.33	0
2/14/20 12:30	12.87	198.8	13.38	6.645	29.33	0
2/14/20 12:45	13.69	208.5	12.35	6.662	29.33	0
2/14/20 13:00	11.61	213	12.43	7.138	29.32	0
2/14/20 13:15	12.34	227.3	10.32	6.833	29.32	0
2/14/20 13:30	13.97	213.9	11.27	7.208	29.32	0
2/14/20 13:45	14.29	225.4	13.29	7.056	29.32	0
2/14/20 14:00	13.89	224.3	11.28	7.277	29.31	0
2/14/20 14:15	14.61	217.3	8.43	7.446	29.31	0
2/14/20 14:30	12.1	217.4	10.72	7.383	29.31	0
2/14/20 14:45	11.28	215.4	10.89	7.591	29.31	0
2/14/20 15:00	10.52	226.2	9.57	7.326	29.32	0
2/14/20 15:15	7.55	234.6	9.41	7.329	29.32	0
2/14/20 15:30	10.69	226	10.75	7.652	29.32	0
2/14/20 15:45	14.28	223.2	10.42	7.328	29.32	0
2/14/20 16:00	9.35	219.2	11.12	7.172	29.34	0
2/14/20 16:15	10.6	219.2	8.86	7.031	29.34	0
2/14/20 16:30	10.29	216.9	7.779	6.879	29.34	0
2/14/20 16:45	12.83	216.4	8.49	6.78	29.34	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/14/20 17:00	10.78	224.8	8.39	6.687	29.32	0
2/14/20 17:15	8.24	229.7	9.93	6.587	29.32	0
2/14/20 17:30	7.746	223.2	8.06	6.529	29.32	0
2/14/20 17:45	9.01	216	7.877	6.449	29.32	0
2/14/20 18:00	9.76	223	9.18	6.323	29.36	0
2/14/20 18:15	12.42	220.3	8.9	6.2	29.36	0
2/14/20 18:30	11.19	219.2	8.08	6.046	29.36	0
2/14/20 18:45	11.13	223.5	9.67	5.925	29.36	0
2/14/20 19:00	12.15	212.6	10.34	5.796	29.34	0
2/14/20 19:15	8.57	188.2	20.21	5.682	29.34	0
2/14/20 19:30	8.9	181.6	8.9	5.484	29.34	0
2/14/20 19:45	8.77	180.8	7.204	5.375	29.34	0
2/14/20 20:00	9.82	182.8	9.56	5.3	29.37	0
2/14/20 20:15	10.11	192.3	8.72	5.215	29.37	0
2/14/20 20:30	11.19	205.8	9.98	5.05	29.37	0
2/14/20 20:45	11.94	214.1	11.11	4.847	29.37	0.01
2/14/20 21:00	11.89	234.5	8.45	4.263	29.39	0.02
2/14/20 21:15	9.87	223.7	9.97	4.182	29.39	0.01
2/14/20 21:30	7.913	200.5	12.99	4.156	29.39	0.01
2/14/20 21:45	8.14	189	6.288	4.009	29.39	0
2/14/20 22:00	9.29	188	10.11	3.876	29.37	0.01
2/14/20 22:15	7.253	196.5	9.2	3.794	29.37	0
2/14/20 22:30	7.715	187.2	6.871	3.699	29.37	0
2/14/20 22:45	6.274	164.3	11.95	3.534	29.37	0.01
2/14/20 23:00	4.965	141.2	9.66	3.33	29.36	0
2/14/20 23:15	5.826	141.4	9.11	3.349	29.36	0.01
2/14/20 23:30	7.672	149.6	5.884	3.352	29.36	0.02
2/14/20 23:45	8.64	163.5	12.23	3.464	29.36	0.01
2/15/20 0:00	8.03	175.8	13.06	3.508	29.36	0.03
2/15/20 0:15	6.872	167.2	16.2	3.406	29.36	0
2/15/20 0:30	6.399	144.4	8.83	3.298	29.36	0.01
2/15/20 0:45	7.558	149.5	6.202	3.348	29.36	0
2/15/20 1:00	6.09	140.2	7.836	3.314	29.35	0.01
2/15/20 1:15	7.844	150.8	7.822	3.494	29.35	0
2/15/20 1:30	7.493	148.8	6.933	3.535	29.35	0
2/15/20 1:45	8.53	144.9	7.72	3.617	29.35	0
2/15/20 2:00	8.78	140.4	7.913	3.665	29.34	0
2/15/20 2:15	8.76	139.1	8.31	3.722	29.34	0
2/15/20 2:30	8.49	135.6	9.86	3.73	29.34	0
2/15/20 2:45	8.95	146.1	7.022	3.778	29.34	0
2/15/20 3:00	7.438	136.3	10.19	3.732	29.33	0
2/15/20 3:15	7.133	138	8.29	3.744	29.33	0
2/15/20 3:30	7.979	137.9	8.22	3.813	29.33	0.01
2/15/20 3:45	7.229	145.6	9.74	3.794	29.33	0
2/15/20 4:00	5.528	129.7	11.95	3.834	29.31	0
2/15/20 4:15	5.528	127.2	9.42	3.847	29.31	0
2/15/20 4:30	6.593	133.9	12.91	4.001	29.31	0
2/15/20 4:45	4.928	135.4	9.07	3.934	29.31	0
2/15/20 5:00	5.125	134.4	9.74	3.965	29.31	0
2/15/20 5:15	7.112	157.9	16.58	4.221	29.31	0
2/15/20 5:30	8.17	150	10.56	4.312	29.31	0
2/15/20 5:45	8.7	147.3	8.39	4.296	29.31	0
2/15/20 6:00	9.02	148.1	6.53	4.074	29.29	0.01
2/15/20 6:15	8.69	143.7	5.576	4.011	29.29	0
2/15/20 6:30	9.67	146.7	6.129	3.983	29.29	0
2/15/20 6:45	10.18	149.8	5.307	4.008	29.29	0
2/15/20 7:00	9.38	144.8	6.611	4.038	29.27	0
2/15/20 7:15	7.209	139.1	9.14	4.1	29.27	0
2/15/20 7:30	6.233	139.3	9.05	4.174	29.27	0
2/15/20 7:45	8.19	146.1	8.34	4.409	29.27	0
2/15/20 8:00	8.67	154.3	9.35	4.772	29.28	0
2/15/20 8:15	7.284	149.3	7.09	4.779	29.28	0
2/15/20 8:30	7.28	156.2	11.44	4.91	29.28	0
2/15/20 8:45	8.97	167.1	10.14	4.975	29.28	0
2/15/20 9:00	8.77	148.3	9.68	4.893	29.28	0
2/15/20 9:15	7.544	138.2	7.994	4.91	29.28	0
2/15/20 9:30	7.714	134.5	8.11	4.907	29.28	0.01
2/15/20 9:45	6.691	135.9	7.646	4.978	29.28	0
2/15/20 10:00	8.64	146.3	9.33	5.077	29.27	0
2/15/20 10:15	9.56	154.7	7.941	5.275	29.27	0
2/15/20 10:30	8.71	142.8	8.18	5.372	29.27	0.01
2/15/20 10:45	7.587	137.9	8.2	5.521	29.27	0
2/15/20 11:00	8.22	137.7	8.96	5.66	29.24	0
2/15/20 11:15	8.27	139.1	10.12	5.817	29.24	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/15/20 11:30	7.256	149.5	7.939	5.954	29.24	0
2/15/20 11:45	5.806	143.6	9.72	5.979	29.24	0.01
2/15/20 12:00	4.956	141.4	9.28	6.15	29.22	0
2/15/20 12:15	4.632	146.2	9.91	6.21	29.22	0
2/15/20 12:30	4.878	163.9	12.42	6.301	29.22	0.01
2/15/20 12:45	6.359	187.7	13.76	6.261	29.22	0.01
2/15/20 13:00	4.993	189.6	14.82	6.148	29.22	0.01
2/15/20 13:15	2.75	166.3	30.1	6.086	29.22	0.01
2/15/20 13:30	2.499	107.4	22.3	6.118	29.22	0
2/15/20 13:45	3.552	114.7	14.14	5.996	29.22	0.01
2/15/20 14:00	4.198	142.2	17.43	5.967	29.21	0
2/15/20 14:15	6.26	190.5	16.12	6.012	29.21	0.01
2/15/20 14:30	5.379	167.1	17.02	5.936	29.21	0.01
2/15/20 14:45	3.206	175	20.59	5.939	29.21	0
2/15/20 15:00	3.143	144.3	20.25	5.945	29.18	0
2/15/20 15:15	4.359	133.9	10.35	5.705	29.18	0.01
2/15/20 15:30	4.872	132.2	8.28	5.703	29.18	0
2/15/20 15:45	6.13	145.6	13.62	5.668	29.18	0.01
2/15/20 16:00	7.525	180.2	10.99	5.827	29.19	0
2/15/20 16:15	8.48	168.2	11.67	5.676	29.19	0
2/15/20 16:30	10.89	168.1	15.31	5.553	29.19	0
2/15/20 16:45	9.59	159.7	12.26	5.418	29.19	0
2/15/20 17:00	7.326	146.7	14.56	5.373	29.18	0
2/15/20 17:15	8.07	154.2	15.26	5.387	29.18	0
2/15/20 17:30	10.16	169	8.52	5.433	29.18	0.01
2/15/20 17:45	9.62	177.3	11.66	5.501	29.18	0
2/15/20 18:00	8.45	176.3	11.63	5.461	29.17	0
2/15/20 18:15	8.11	179	9.67	5.408	29.17	0
2/15/20 18:30	7.127	177.9	11.5	5.472	29.17	0
2/15/20 18:45	5.229	159.6	19.83	5.466	29.17	0
2/15/20 19:00	5.719	144	12.24	5.287	29.17	0
2/15/20 19:15	7.191	154.9	7.261	5.294	29.17	0
2/15/20 19:30	5.407	147.1	11.39	5.264	29.17	0
2/15/20 19:45	6.398	154	8.45	5.193	29.17	0
2/15/20 20:00	6.3	153.7	6.562	5.134	29.19	0
2/15/20 20:15	6.038	164	10.82	5.15	29.19	0
2/15/20 20:30	5.772	199.4	14.71	5.246	29.19	0
2/15/20 20:45	5.017	205.5	11.48	5.253	29.19	0
2/15/20 21:00	5.902	191.1	6.809	5.292	29.2	0
2/15/20 21:15	7.921	194.5	9.55	5.465	29.2	0
2/15/20 21:30	8.74	202.1	8.28	5.574	29.2	0
2/15/20 21:45	10.56	201.8	9.81	5.699	29.2	0
2/15/20 22:00	9.55	207.8	8.62	5.657	29.19	0
2/15/20 22:15	6.963	215.8	14.6	5.655	29.19	0
2/15/20 22:30	7.474	205.1	13.75	5.611	29.19	0
2/15/20 22:45	5.478	210.9	11.51	5.553	29.19	0
2/15/20 23:00	5.158	167.5	51.89	5.468	29.21	0
2/15/20 23:15	5.498	62.47	11.54	4.389	29.21	0
2/15/20 23:30	3.549	73.27	40.46	4.172	29.21	0
2/15/20 23:45	3.683	57.35	8.08	3.96	29.21	0
2/16/20 0:00	2.291	42.49	7.822	3.931	29.23	0
2/16/20 0:15	4.586	60.33	10.88	3.769	29.23	0
2/16/20 0:30	3.967	45.94	11.38	3.688	29.23	0
2/16/20 0:45	1.498	52.28	18.81	3.791	29.23	0
2/16/20 1:00	3.018	48.97	6.077	3.567	29.24	0
2/16/20 1:15	2.258	52.34	10.41	3.362	29.24	0
2/16/20 1:30	2.741	37.54	12.62	3.321	29.24	0
2/16/20 1:45	3.181	44.65	12.17	3.279	29.24	0
2/16/20 2:00	2.367	59.01	19.76	3.292	29.26	0
2/16/20 2:15	4.567	47.84	10.44	3.216	29.26	0
2/16/20 2:30	3.479	47.21	12.86	3.052	29.26	0.01
2/16/20 2:45	3.404	40.58	7.781	2.964	29.26	0
2/16/20 3:00	2.62	38.39	9.15	2.872	29.26	0
2/16/20 3:15	2.007	36.95	7.206	2.807	29.26	0
2/16/20 3:30	0.727	99.1	55.49	3.134	29.26	0
2/16/20 3:45	3.304	179.7	21.01	3.661	29.26	0
2/16/20 4:00	1.985	143.5	28.29	3.275	29.26	0
2/16/20 4:15	3.526	172.2	13.25	3.269	29.26	0
2/16/20 4:30	5.207	160.3	8.2	3.212	29.26	0
2/16/20 4:45	4.157	155.6	11.56	3.552	29.26	0
2/16/20 5:00	7.354	199.6	13.39	3.633	29.27	0
2/16/20 5:15	8.24	189	11.87	3.35	29.27	0
2/16/20 5:30	6.735	175.4	13.23	3.091	29.27	0
2/16/20 5:45	5.708	180.7	11.62	2.982	29.27	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/16/20 6:00	6.382	188.8	11.65	2.856	29.29	0
2/16/20 6:15	5.181	149.3	18.87	2.668	29.29	0.01
2/16/20 6:30	4.119	134.9	8.46	2.549	29.29	0
2/16/20 6:45	3.87	135.4	11.49	2.518	29.29	0
2/16/20 7:00	5.278	178.2	19.6	2.644	29.31	0
2/16/20 7:15	6.595	200.5	11.03	2.763	29.31	0
2/16/20 7:30	9.38	204.7	8.13	2.888	29.31	0
2/16/20 7:45	9.43	213.6	7.588	2.995	29.31	0.01
2/16/20 8:00	5.293	207.2	14.23	2.998	29.34	0
2/16/20 8:15	3.338	153.4	22.11	2.898	29.34	0
2/16/20 8:30	2.412	155.9	19.08	2.904	29.34	0
2/16/20 8:45	4.15	157.5	11.41	3.014	29.34	0
2/16/20 9:00	4.969	145	8.86	3.188	29.37	0
2/16/20 9:15	6.181	158.3	7.945	3.402	29.37	0
2/16/20 9:30	6.479	153.3	9.1	3.543	29.37	0
2/16/20 9:45	6.614	149.8	12.57	3.666	29.37	0
2/16/20 10:00	5.55	144.6	10.4	3.85	29.39	0
2/16/20 10:15	5.336	158.3	18.24	3.995	29.39	0
2/16/20 10:30	5.614	187.9	16.8	4.354	29.39	0
2/16/20 10:45	7.908	195.5	10.24	4.459	29.39	0
2/16/20 11:00	7.772	192.3	9.89	4.754	29.39	0
2/16/20 11:15	9.25	199.2	12.78	4.814	29.39	0
2/16/20 11:30	7.763	192.5	16.06	5.096	29.39	0
2/16/20 11:45	7.81	188.7	17.98	5.657	29.39	0
2/16/20 12:00	7.832	197.2	9	5.559	29.36	0
2/16/20 12:15	8.38	198.8	15.04	5.832	29.36	0
2/16/20 12:30	8.16	189.7	9.84	5.807	29.36	0
2/16/20 12:45	6.912	208.4	9.24	5.745	29.36	0
2/16/20 13:00	4.491	218.1	10.23	5.773	29.37	0
2/16/20 13:15	9.18	220.5	10.14	6.016	29.37	0
2/16/20 13:30	10.34	229.7	10.88	6.129	29.37	0
2/16/20 13:45	8.68	226.9	11.08	6.343	29.37	0
2/16/20 14:00	9.07	222.8	12.16	6.513	29.35	0
2/16/20 14:15	15.99	232.6	9.36	6.541	29.35	0
2/16/20 14:30	17.53	232.8	9.86	6.41	29.35	0
2/16/20 14:45	13.28	234.9	11.48	6.546	29.35	0
2/16/20 15:00	13.68	219.1	9.79	6.478	29.36	0
2/16/20 15:15	14.64	226.3	12.66	6.225	29.36	0
2/16/20 15:30	15	222.7	9.98	6.248	29.36	0
2/16/20 15:45	15.78	231.5	8.58	5.772	29.36	0
2/16/20 16:00	12.93	236.7	9.05	5.551	29.36	0
2/16/20 16:15	12.82	230.5	9.24	5.47	29.36	0
2/16/20 16:30	12.26	230.4	9.93	5.498	29.36	0
2/16/20 16:45	10.12	220.4	8.63	5.623	29.36	0
2/16/20 17:00	9.09	229.5	10.8	5.72	29.35	0
2/16/20 17:15	12.11	236.6	7.629	5.803	29.35	0
2/16/20 17:30	14.43	235.6	7.113	5.796	29.35	0
2/16/20 17:45	14.38	236.1	7.303	5.699	29.35	0
2/16/20 18:00	12.72	236.7	7.571	5.554	29.37	0
2/16/20 18:15	12.37	233.2	6.91	5.422	29.37	0
2/16/20 18:30	10.25	237.1	11.25	5.261	29.37	0
2/16/20 18:45	10.1	238.7	11.01	5.159	29.37	0
2/16/20 19:00	9.97	236.7	9.31	5.015	29.38	0
2/16/20 19:15	10.36	228.9	8.67	4.887	29.38	0
2/16/20 19:30	7.551	213.1	8.66	4.698	29.38	0
2/16/20 19:45	6.797	228.8	9.67	4.61	29.38	0
2/16/20 20:00	8.88	226.1	7.553	4.48	29.38	0
2/16/20 20:15	7.84	223.6	6.315	4.31	29.38	0
2/16/20 20:30	4.394	209.9	13.93	4.256	29.38	0
2/16/20 20:45	4.308	196.5	8.86	4.173	29.38	0
2/16/20 21:00	4.656	193.6	8.62	4.035	29.38	0
2/16/20 21:15	4.658	197.5	10.28	4.01	29.38	0
2/16/20 21:30	5.627	197.6	10.47	3.988	29.38	0
2/16/20 21:45	6.857	190.3	10.42	3.941	29.38	0
2/16/20 22:00	6.592	194.6	7.746	3.916	29.39	0
2/16/20 22:15	7.721	192.7	6.877	3.906	29.39	0
2/16/20 22:30	7.018	189.6	11.51	3.852	29.39	0
2/16/20 22:45	7.693	193.9	8.65	3.851	29.39	0
2/16/20 23:00	8.17	203.3	6.042	3.76	29.41	0
2/16/20 23:15	5.875	200.8	8.8	3.729	29.41	0
2/16/20 23:30	6.175	196	9.27	3.665	29.41	0
2/16/20 23:45	5.605	190.3	10.22	3.588	29.41	0
2/17/20 0:00	3.146	171.1	25.48	3.555	29.43	0
2/17/20 0:15	7.127	196	13.19	3.519	29.43	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/17/20 0:30	7.227	190.6	9.72	2.994	29.43	0.03
2/17/20 0:45	4.797	191	15.99	2.836	29.43	0
2/17/20 1:00	3.132	88.4	16.15	2.516	29.45	0
2/17/20 1:15	2.518	100.4	17.82	2.485	29.45	0
2/17/20 1:30	4.619	118.8	7.301	2.567	29.45	0
2/17/20 1:45	4.883	115.5	7.197	2.571	29.45	0
2/17/20 2:00	3.958	120.7	7.256	2.491	29.47	0
2/17/20 2:15	3.7	126.6	7.385	2.519	29.47	0
2/17/20 2:30	3.842	126.6	6.539	2.626	29.47	0
2/17/20 2:45	5.119	129.8	6.693	2.673	29.47	0
2/17/20 3:00	4.185	123.3	12.43	2.528	29.49	0
2/17/20 3:15	2.252	69.02	42.08	2.254	29.49	0
2/17/20 3:30	5.321	151.7	26.03	2.182	29.49	0
2/17/20 3:45	2.512	16.7	53.47	2.054	29.49	0
2/17/20 4:00	3.609	124.9	12.47	2.214	29.49	0
2/17/20 4:15	3.629	136.5	13.07	2.187	29.49	0
2/17/20 4:30	1.464	64.36	14.07	2.117	29.49	0
2/17/20 4:45	2.773	116.7	16.3	2.27	29.49	0
2/17/20 5:00	2.22	71.5	33.39	2.097	29.49	0
2/17/20 5:15	2.816	46.87	42.54	2.017	29.49	0
2/17/20 5:30	2.338	85.4	49.61	2.199	29.49	0
2/17/20 5:45	2.611	124.5	29.2	2.487	29.49	0
2/17/20 6:00	3.984	97.2	41.76	2.195	29.51	0
2/17/20 6:15	3.941	65.22	72.54	1.921	29.51	0
2/17/20 6:30	3.554	128.4	11.43	2.337	29.51	0
2/17/20 6:45	2.174	119.8	13.74	1.899	29.51	0
2/17/20 7:00	2.762	85.6	66.83	2.095	29.53	0
2/17/20 7:15	2.822	118.9	39.89	2.346	29.53	0
2/17/20 7:30	2.365	47.44	38.81	2.227	29.53	0
2/17/20 7:45	0.324	88.6	23.81	2.445	29.53	0
2/17/20 8:00	1.259	105.9	18.93	2.305	29.52	0
2/17/20 8:15	2.009	117.3	8.07	2.272	29.52	0
2/17/20 8:30	1.625	116.3	17.97	2.49	29.52	0
2/17/20 8:45	2.633	203.1	31.03	2.655	29.52	0
2/17/20 9:00	2.574	184.3	21.75	2.776	29.56	0
2/17/20 9:15	2.304	154.3	14.52	2.943	29.56	0
2/17/20 9:30	5.089	163.7	9.17	3.032	29.56	0
2/17/20 9:45	4.721	160.5	9.57	2.988	29.56	0
2/17/20 10:00	4.851	167.4	10.02	3.086	29.58	0
2/17/20 10:15	4.994	178	22.66	3.525	29.58	0
2/17/20 10:30	3.457	187.2	20.33	3.537	29.58	0
2/17/20 10:45	2.834	147	34.84	3.654	29.58	0
2/17/20 11:00	3.352	163.9	18.07	4.647	29.58	0
2/17/20 11:15	3.141	168.4	13.51	4.576	29.58	0
2/17/20 11:30	3.09	196.3	25.27	5.055	29.58	0
2/17/20 11:45	4.236	207.7	23.58	5.247	29.58	0
2/17/20 12:00	3.812	239.2	37.9	5.584	29.58	0
2/17/20 12:15	1.765	324.9	22.92	5.401	29.58	0
2/17/20 12:30	5.132	32.37	18.94	6.282	29.58	0
2/17/20 12:45	7.004	36	15.16	5.254	29.58	0
2/17/20 13:00	5.666	23.38	9.21	4.91	29.57	0
2/17/20 13:15	3.875	13.35	17.64	5.127	29.57	0
2/17/20 13:30	7.615	33.85	10.95	5.16	29.57	0
2/17/20 13:45	10.1	29.58	12.05	5.335	29.57	0
2/17/20 14:00	8.68	33.4	8.85	5.615	29.55	0
2/17/20 14:15	6.355	32.4	16.78	5.944	29.55	0
2/17/20 14:30	4.817	33.08	16.46	6.178	29.55	0
2/17/20 14:45	2.334	48.38	34.39	6.688	29.55	0
2/17/20 15:00	2.815	2.494	24.03	6.757	29.54	0
2/17/20 15:15	4.023	7.505	44.46	6.778	29.54	0
2/17/20 15:30	3.925	24.52	16.63	6.714	29.54	0
2/17/20 15:45	5.416	35.14	13.44	6.642	29.54	0
2/17/20 16:00	5.817	38.33	11.73	6.232	29.55	0
2/17/20 16:15	5.969	28.81	9.31	6.1	29.55	0
2/17/20 16:30	6.031	28.27	7.79	5.846	29.55	0
2/17/20 16:45	7.295	27.15	7.406	5.578	29.55	0
2/17/20 17:00	7.841	21.01	8.64	5.404	29.54	0
2/17/20 17:15	6.795	27.1	6.407	5.138	29.54	0
2/17/20 17:30	6.383	28.54	5.749	4.92	29.54	0
2/17/20 17:45	5.778	43.58	6.908	4.514	29.54	0
2/17/20 18:00	5.726	48.01	8.62	4.068	29.56	0
2/17/20 18:15	4.858	48.34	8.91	3.772	29.56	0
2/17/20 18:30	4.257	58.59	9.91	3.733	29.56	0
2/17/20 18:45	4.914	44	7.434	3.449	29.56	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/17/20 19:00	5.382	43.74	5.783	2.954	29.56	0
2/17/20 19:15	4.873	48.22	5.18	2.937	29.56	0
2/17/20 19:30	5.446	48.04	6.762	2.765	29.56	0
2/17/20 19:45	4.88	47.32	5.349	2.665	29.56	0
2/17/20 20:00	4.079	47.45	6.17	2.53	29.53	0
2/17/20 20:15	4.386	41.37	4.923	2.429	29.53	0
2/17/20 20:30	4.465	45.21	6.382	2.261	29.53	0
2/17/20 20:45	2.559	42.49	6.711	1.994	29.53	0
2/17/20 21:00	2.084	90.1	25.5	2.198	29.56	0
2/17/20 21:15	1.96	103.3	10.47	2.502	29.56	0
2/17/20 21:30	2.135	103	16.67	1.992	29.56	0
2/17/20 21:45	2.037	70.2	15.42	1.875	29.56	0
2/17/20 22:00	2.013	71.37	30.45	1.8	29.57	0
2/17/20 22:15	1.797	119.2	26.54	2.211	29.57	0
2/17/20 22:30	1.489	141.7	9.73	2.586	29.57	0
2/17/20 22:45	1.209	78.1	39.92	2.012	29.57	0
2/17/20 23:00	1.504	146	58.46	2.011	29.55	0
2/17/20 23:15	2.369	165.9	5.306	2.39	29.55	0
2/17/20 23:30	1.76	148.8	4.07	2.003	29.55	0
2/17/20 23:45	0.294	35.14	2.35	1.721	29.55	0
2/18/20 0:00	0.356	32.79	0.422	1.522	29.57	0
2/18/20 0:15	0.105	31.44	0.036	1.409	29.57	0
2/18/20 0:30	0.988	31.37	0.262	1.422	29.57	0
2/18/20 0:45	2.808	41.93	4.752	0.993	29.57	0
2/18/20 1:00	3.638	36.43	5.764	0.428	29.56	0
2/18/20 1:15	3.641	21.44	5.865	0.419	29.56	0
2/18/20 1:30	3.919	19.48	1.133	0.423	29.56	0
2/18/20 1:45	2.993	46.84	21.74	0.006	29.56	0
2/18/20 2:00	2.449	77.22	4.488	0.418	29.57	0
2/18/20 2:15	2.017	73.39	5.32	0.771	29.57	0
2/18/20 2:30	0.516	77.12	0.094	0.787	29.57	0
2/18/20 2:45	0.217	72.89	1.922	0.383	29.57	0
2/18/20 3:00	0.145	79.71	0.471	0.228	29.55	0
2/18/20 3:15	1.454	119.5	7.797	0.269	29.55	0
2/18/20 3:30	0.66	59.29	12.77	0.253	29.55	0
2/18/20 3:45	1.809	23.57	14.74	-0.486	29.55	0
2/18/20 4:00	1.75	45.66	6.198	-0.37	29.56	0
2/18/20 4:15	2.3	46.41	1.926	-0.42	29.56	0
2/18/20 4:30	2.445	26.99	6.713	-0.453	29.56	0
2/18/20 4:45	3.62	39.1	5.504	-0.489	29.56	0
2/18/20 5:00	3.826	37.21	4.377	-0.423	29.56	0
2/18/20 5:15	3.41	50.03	9.26	-0.722	29.56	0
2/18/20 5:30	3.409	48.81	4.852	-0.901	29.56	0
2/18/20 5:45	4.194	29.02	6.133	-1.194	29.56	0
2/18/20 6:00	4.691	41.97	10.4	-1.49	29.54	0
2/18/20 6:15	4.286	35.87	6.328	-2.06	29.54	0
2/18/20 6:30	3.859	44.54	7.018	-2.066	29.54	0
2/18/20 6:45	4.517	53.01	10.21	-2.065	29.54	0
2/18/20 7:00	4.172	30.53	12.52	-1.682	29.55	0
2/18/20 7:15	2.728	72.89	22.99	-1.735	29.55	0
2/18/20 7:30	2.646	131.2	11.04	-1.839	29.55	0
2/18/20 7:45	1.898	56.69	9.88	-1.746	29.55	0
2/18/20 8:00	2.865	53.69	6.129	-1.531	29.56	0
2/18/20 8:15	2.948	34.51	10.04	-1.211	29.56	0
2/18/20 8:30	1.605	47.81	16.91	-0.351	29.56	0
2/18/20 8:45	1.985	48.05	46.78	0.153	29.56	0
2/18/20 9:00	2.886	11.16	10.44	0.222	29.54	0
2/18/20 9:15	0.567	21.19	36.68	1.16	29.54	0
2/18/20 9:30	1.45	132.8	73.98	1.785	29.54	0
2/18/20 9:45	1.342	54.3	14.56	1.244	29.54	0
2/18/20 10:00	2.16	43.6	13.58	1.566	29.56	0
2/18/20 10:15	2.662	45.18	15.67	1.932	29.56	0.01
2/18/20 10:30	2.729	42.29	17.91	2.075	29.56	0
2/18/20 10:45	1.981	40.17	44.16	2.777	29.56	0
2/18/20 11:00	1.609	300.1	56.79	4.163	29.53	0
2/18/20 11:15	2.445	48.12	31.69	4.639	29.53	0
2/18/20 11:30	6.629	23.7	16.39	4.41	29.53	0
2/18/20 11:45	7.888	22.68	16.01	4.791	29.53	0
2/18/20 12:00	9.01	20.82	11	5.095	29.53	0
2/18/20 12:15	9.83	27.91	12.23	5.392	29.53	0
2/18/20 12:30	10.43	25.56	10.2	5.571	29.53	0
2/18/20 12:45	8.76	27.03	11.37	5.891	29.53	0
2/18/20 13:00	9.02	27.71	11.94	6.139	29.5	0
2/18/20 13:15	10.06	24.5	11.16	6.446	29.5	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/18/20 13:30	10.01	24.43	10.88	6.644	29.5	0
2/18/20 13:45	10.27	24.72	11.95	6.871	29.5	0
2/18/20 14:00	10.62	19.39	13.64	7.088	29.48	0
2/18/20 14:15	12.26	31.1	13.72	7.022	29.48	0
2/18/20 14:30	9.21	28.56	13.98	7.238	29.48	0
2/18/20 14:45	11.44	20.45	14	7.402	29.48	0
2/18/20 15:00	12.22	14.99	12.04	7.338	29.48	0
2/18/20 15:15	12.64	16.89	11.78	7.331	29.48	0
2/18/20 15:30	12.73	17.1	14.15	7.348	29.48	0
2/18/20 15:45	11.67	29.36	9.78	7.156	29.48	0
2/18/20 16:00	11.5	22.41	14.8	7.199	29.48	0
2/18/20 16:15	10.87	33.93	12.53	7.104	29.48	0
2/18/20 16:30	11.2	31.11	10.71	6.906	29.48	0
2/18/20 16:45	14.02	24.96	9.75	6.668	29.48	0
2/18/20 17:00	11.79	28.09	10.56	6.346	29.47	0
2/18/20 17:15	11.72	24.81	9.84	6.015	29.47	0
2/18/20 17:30	14.31	24.34	10.93	5.739	29.47	0
2/18/20 17:45	15.67	27.01	8.92	5.386	29.47	0
2/18/20 18:00	15.73	27.15	9.34	5.215	29.49	0
2/18/20 18:15	8.57	56.5	15.32	4.552	29.49	0
2/18/20 18:30	11.41	45.25	17.87	4.631	29.49	0
2/18/20 18:45	13.46	21.25	9.62	4.624	29.49	0
2/18/20 19:00	12.35	25.04	11.12	4.56	29.49	0
2/18/20 19:15	11	24.08	11.91	4.474	29.49	0
2/18/20 19:30	11.84	26.45	9.88	4.129	29.49	0
2/18/20 19:45	11.16	23.84	10	3.921	29.49	0
2/18/20 20:00	9.21	31.26	9.33	3.574	29.5	0
2/18/20 20:15	8.61	35.27	9.91	3.099	29.5	0
2/18/20 20:30	10.31	29.49	9.96	3.018	29.5	0
2/18/20 20:45	9.97	26.47	9.45	3.032	29.5	0
2/18/20 21:00	9.82	21.13	9.98	2.931	29.51	0
2/18/20 21:15	8.61	25.78	11.55	2.576	29.51	0
2/18/20 21:30	8.68	29.4	9.13	2.442	29.51	0
2/18/20 21:45	7.429	35.85	10.59	2.381	29.51	0
2/18/20 22:00	7.076	28.96	10.79	2.213	29.5	0
2/18/20 22:15	5.794	32.88	11.49	1.986	29.5	0
2/18/20 22:30	6.106	33.85	9.36	1.685	29.5	0
2/18/20 22:45	5.486	30.84	8.17	1.596	29.5	0
2/18/20 23:00	5.853	27.63	8.32	1.485	29.5	0
2/18/20 23:15	5.182	37.88	8.35	1.297	29.5	0
2/18/20 23:30	4.937	36.12	10.12	0.751	29.5	0
2/18/20 23:45	5.24	25.82	8.38	0.548	29.5	0
2/19/20 0:00	4.47	29.61	11.16	0.836	29.49	0
2/19/20 0:15	4.843	27.82	7.342	0.847	29.49	0
2/19/20 0:30	4.624	28.11	8.89	0.49	29.49	0
2/19/20 0:45	5.097	23.34	8.19	0.426	29.49	0
2/19/20 1:00	5.238	23.8	7.954	0.2	29.51	0
2/19/20 1:15	5.263	21.62	8.94	-0.327	29.51	0
2/19/20 1:30	5.199	20.27	7.985	-0.175	29.51	0
2/19/20 1:45	5.76	17.15	7.382	-0.286	29.51	0
2/19/20 2:00	5.675	17.64	10.74	-0.523	29.48	0
2/19/20 2:15	5.74	22.54	6.991	0.174	29.48	0
2/19/20 2:30	5.209	30.71	11.01	-0.092	29.48	0
2/19/20 2:45	5.546	44.51	13.55	0.137	29.48	0
2/19/20 3:00	5.523	37.89	12.83	0.292	29.5	0
2/19/20 3:15	6.427	49.51	6.918	0.181	29.5	0
2/19/20 3:30	5.381	56.3	17.87	0.454	29.5	0
2/19/20 3:45	5.046	47.18	11.04	0.709	29.5	0
2/19/20 4:00	3.847	60.61	17.63	1.188	29.48	0
2/19/20 4:15	5.412	51.2	16.14	0.681	29.48	0
2/19/20 4:30	4.892	47.29	12.95	0.695	29.48	0
2/19/20 4:45	4.875	39.04	11.17	0.891	29.48	0
2/19/20 5:00	3.425	33.61	8.05	1.557	29.47	0
2/19/20 5:15	2.832	34.27	5.782	1.744	29.47	0
2/19/20 5:30	3.062	47.89	11.06	1.579	29.47	0
2/19/20 5:45	4.353	55.98	12.96	0.948	29.47	0
2/19/20 6:00	3.905	81.9	24.44	1.493	29.48	0
2/19/20 6:15	3.776	77.66	23.6	1.367	29.48	0
2/19/20 6:30	4.466	92.4	21	1.989	29.48	0
2/19/20 6:45	5.874	104.8	9.15	2.591	29.48	0
2/19/20 7:00	6.456	108.8	15.12	2.626	29.45	0
2/19/20 7:15	7.231	115.2	8.89	2.434	29.45	0
2/19/20 7:30	7.503	114.7	9.02	2.675	29.45	0
2/19/20 7:45	7.59	119.8	8.21	3.272	29.45	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/19/20 8:00	7.293	119.5	8.65	3.58	29.48	0
2/19/20 8:15	7.437	121.7	8.64	3.724	29.48	0
2/19/20 8:30	7.613	111.4	11.68	3.875	29.48	0
2/19/20 8:45	6.994	111.2	12.35	4.116	29.48	0
2/19/20 9:00	6.708	108.4	13.75	4.104	29.49	0
2/19/20 9:15	6.007	115.7	12.55	5.035	29.49	0
2/19/20 9:30	6.852	116.8	12.93	5.335	29.49	0
2/19/20 9:45	8.24	116.6	13.14	5.813	29.49	0
2/19/20 10:00	5.966	102.4	20.95	5.946	29.49	0
2/19/20 10:15	4.929	86.3	25.79	6.346	29.49	0
2/19/20 10:30	3.194	72.91	29.33	6.905	29.49	0
2/19/20 10:45	2.474	42.43	39.64	7.242	29.49	0
2/19/20 11:00	4.968	114.2	28.59	8.39	29.48	0
2/19/20 11:15	6.473	127.9	21.58	9.14	29.48	0
2/19/20 11:30	12.6	139.6	18.21	9.53	29.48	0
2/19/20 11:45	13.47	136.9	12.8	9.8	29.48	0
2/19/20 12:00	14.82	138.1	13.96	10.13	29.44	0
2/19/20 12:15	15.92	141.8	11.75	10.27	29.44	0
2/19/20 12:30	17.07	143.8	11.53	10.38	29.44	0
2/19/20 12:45	17.14	144	11.34	10.42	29.44	0
2/19/20 13:00	14.96	148.6	10.68	10.68	29.44	0
2/19/20 13:15	15.4	150	12.41	10.93	29.44	0
2/19/20 13:30	12.98	142.2	11.87	11.07	29.44	0
2/19/20 13:45	12.78	138.9	12.05	11.1	29.44	0
2/19/20 14:00	13.08	147.1	11.11	11.32	29.41	0
2/19/20 14:15	12.06	144.6	13.24	11.56	29.41	0
2/19/20 14:30	13.04	144.1	8.85	11.42	29.41	0
2/19/20 14:45	10.14	140.7	13.59	11.6	29.41	0
2/19/20 15:00	11.28	144.5	16.04	11.62	29.38	0
2/19/20 15:15	11.28	142.6	10.12	11.5	29.38	0
2/19/20 15:30	11.33	146.8	11.64	11.31	29.38	0
2/19/20 15:45	11.06	148.9	10.92	11.22	29.38	0
2/19/20 16:00	9.93	146.4	10.95	11.03	29.4	0
2/19/20 16:15	10.33	143.9	9.79	10.84	29.4	0
2/19/20 16:30	10.36	139.4	10.06	10.61	29.4	0
2/19/20 16:45	10.1	145.3	10.09	10.31	29.4	0
2/19/20 17:00	8.84	138.8	12.19	9.85	29.39	0
2/19/20 17:15	9.08	136.8	9.78	9.46	29.39	0
2/19/20 17:30	8.51	133.9	9.35	9.18	29.39	0
2/19/20 17:45	8.79	136.7	9.44	8.79	29.39	0
2/19/20 18:00	9.38	126.1	12.24	8.43	29.39	0
2/19/20 18:15	8.66	123.1	11.19	8.02	29.39	0
2/19/20 18:30	11	125.7	10.93	7.899	29.39	0
2/19/20 18:45	11.06	121.8	11.32	7.828	29.39	0
2/19/20 19:00	11.07	125.6	11.64	7.662	29.39	0
2/19/20 19:15	12.05	127.1	10.81	7.668	29.39	0
2/19/20 19:30	11.86	128.9	11.31	7.494	29.39	0
2/19/20 19:45	13.48	128.9	12.12	7.456	29.39	0
2/19/20 20:00	13.59	128.7	11.79	7.371	29.4	0
2/19/20 20:15	13.93	124.5	11.55	7.159	29.4	0
2/19/20 20:30	15.19	126.6	9.84	7.076	29.4	0
2/19/20 20:45	15.44	125.1	11.43	7.059	29.4	0
2/19/20 21:00	14.63	132.5	10.93	7.011	29.4	0
2/19/20 21:15	15.53	132.6	10.16	7.16	29.4	0
2/19/20 21:30	14	134.4	10.18	7.156	29.4	0
2/19/20 21:45	13.14	137.2	11.65	7.189	29.4	0
2/19/20 22:00	13.91	135.6	10.54	7.138	29.39	0
2/19/20 22:15	15.01	137.1	10.53	7.269	29.39	0
2/19/20 22:30	13.55	138.8	10.78	7.01	29.39	0
2/19/20 22:45	14.41	138	9.62	6.863	29.39	0
2/19/20 23:00	15.22	135.2	9.66	6.854	29.41	0
2/19/20 23:15	12.95	137.3	11.82	6.871	29.41	0
2/19/20 23:30	11.55	139.6	11.53	6.793	29.41	0
2/19/20 23:45	9.71	140.8	11.4	6.502	29.41	0
2/20/20 0:00	9.41	135.9	10.89	6.55	29.41	0
2/20/20 0:15	9.53	132.1	12.88	6.561	29.41	0
2/20/20 0:30	9.17	132.2	11.69	6.491	29.41	0
2/20/20 0:45	11.44	127.6	13.09	6.486	29.41	0
2/20/20 1:00	13.28	126.1	12.68	6.397	29.4	0
2/20/20 1:15	13.7	124.8	11.08	6.326	29.4	0
2/20/20 1:30	13.63	133.3	11.85	6.207	29.4	0
2/20/20 1:45	13.85	133.7	12.5	6.204	29.4	0
2/20/20 2:00	8.3	125.5	13.08	5.907	29.41	0
2/20/20 2:15	6.869	123.8	16.06	5.659	29.41	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/20/20 2:30	7.196	127.9	17.26	5.705	29.41	0
2/20/20 2:45	9.07	131.4	11.77	5.716	29.41	0
2/20/20 3:00	9.12	132.1	12.48	5.668	29.4	0
2/20/20 3:15	7.2	132.3	13.32	5.509	29.4	0
2/20/20 3:30	7.585	137.5	12.22	5.649	29.4	0
2/20/20 3:45	7.59	141.8	15.2	5.546	29.4	0
2/20/20 4:00	8.09	140	12.25	5.455	29.4	0
2/20/20 4:15	8.56	133.1	10.85	5.373	29.4	0
2/20/20 4:30	9.53	136.9	11.76	5.402	29.4	0
2/20/20 4:45	8.66	142.6	12.05	5.436	29.4	0
2/20/20 5:00	7.232	144.6	13.22	5.243	29.39	0
2/20/20 5:15	7.643	143.5	10.42	5.334	29.39	0
2/20/20 5:30	6.705	151.4	12.49	5.31	29.39	0
2/20/20 5:45	6.421	155.2	9.81	5.117	29.39	0
2/20/20 6:00	7.172	157.2	10.79	4.97	29.39	0
2/20/20 6:15	7.999	163.5	9.43	4.737	29.39	0
2/20/20 6:30	7.55	148.3	12.07	4.584	29.39	0
2/20/20 6:45	7.859	143.8	13.52	4.785	29.39	0
2/20/20 7:00	6.661	152.1	15.33	4.862	29.38	0
2/20/20 7:15	6.533	137.5	10.36	4.91	29.38	0
2/20/20 7:30	7.55	135.8	12.73	5.271	29.38	0
2/20/20 7:45	7.976	151.1	12.87	5.364	29.38	0
2/20/20 8:00	7.784	146.2	12.67	5.554	29.39	0
2/20/20 8:15	9.63	131.5	11.7	5.844	29.39	0
2/20/20 8:30	6.935	133.9	14.7	6.128	29.39	0
2/20/20 8:45	6.658	138.9	19.14	6.387	29.39	0
2/20/20 9:00	9.1	123.9	13.67	6.65	29.42	0
2/20/20 9:15	7.818	118.4	15.97	7.101	29.42	0
2/20/20 9:30	6.516	118.1	18.12	7.883	29.42	0
2/20/20 9:45	5.167	102.8	19.75	7.916	29.42	0
2/20/20 10:00	5.938	115.2	16.53	8.48	29.4	0
2/20/20 10:15	6.356	110.2	17.36	8.87	29.4	0
2/20/20 10:30	6.396	121.3	17.31	9.44	29.4	0
2/20/20 10:45	7.35	125.9	16.79	10.03	29.4	0
2/20/20 11:00	10.16	139.8	16.54	10.32	29.42	0
2/20/20 11:15	10.2	136	13.4	10.52	29.42	0
2/20/20 11:30	8.64	130.3	16.11	11.07	29.42	0
2/20/20 11:45	8.42	130.2	22.17	11.22	29.42	0
2/20/20 12:00	5.83	122.4	26.86	11.83	29.41	0
2/20/20 12:15	6.899	123.1	33.46	12.14	29.41	0
2/20/20 12:30	10.62	146.3	15.37	12.24	29.41	0
2/20/20 12:45	11.21	152.4	12.13	12.46	29.41	0
2/20/20 13:00	10.49	153	10.64	12.54	29.4	0
2/20/20 13:15	9.11	140.2	17.83	12.85	29.4	0
2/20/20 13:30	10.28	139.9	17.11	13	29.4	0
2/20/20 13:45	11.89	154	15.36	13.08	29.4	0
2/20/20 14:00	12.5	158.4	8.54	13.11	29.38	0
2/20/20 14:15	12.07	148.6	12.59	13.27	29.38	0
2/20/20 14:30	8.75	144.9	16.77	13.47	29.38	0
2/20/20 14:45	9	137.2	11.24	13.49	29.38	0
2/20/20 15:00	7.177	145.9	18.04	13.61	29.37	0
2/20/20 15:15	6.249	150.9	11.48	13.67	29.37	0
2/20/20 15:30	5.838	130.1	23.4	13.48	29.37	0
2/20/20 15:45	5.108	135.4	13.78	13.44	29.37	0
2/20/20 16:00	6.706	128.5	10.3	13.22	29.39	0
2/20/20 16:15	5.693	107.8	12.02	13.05	29.39	0
2/20/20 16:30	6.184	124.6	11.48	12.84	29.39	0
2/20/20 16:45	5.474	140.3	10.86	12.66	29.39	0
2/20/20 17:00	4.68	126.7	11.16	12.36	29.37	0
2/20/20 17:15	6.608	141.5	12.35	11.75	29.37	0
2/20/20 17:30	7.968	150.8	9.15	11.23	29.37	0
2/20/20 17:45	5.945	135.5	19.96	10.73	29.37	0
2/20/20 18:00	6.246	125.9	12.68	10.48	29.39	0
2/20/20 18:15	5.171	121.1	11.14	10.06	29.39	0
2/20/20 18:30	5.863	126	8.98	9.76	29.39	0
2/20/20 18:45	6.674	131.6	7.58	9.35	29.39	0
2/20/20 19:00	7.317	128.5	7.799	9.14	29.39	0
2/20/20 19:15	6.316	118.4	9.53	8.68	29.39	0
2/20/20 19:30	6.781	127.6	8.73	8.58	29.39	0
2/20/20 19:45	4.833	120.5	11.04	8.19	29.39	0
2/20/20 20:00	3.049	119.9	12.9	7.889	29.38	0
2/20/20 20:15	5.027	153	7.894	7.563	29.38	0
2/20/20 20:30	4.959	152.2	9.13	7.498	29.38	0
2/20/20 20:45	5.375	145.5	7.592	7.399	29.38	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/20/20 21:00	4.033	139.2	11.71	7.407	29.4	0
2/20/20 21:15	2.917	143.1	10.11	7.077	29.4	0
2/20/20 21:30	4.527	152.4	6.517	7.078	29.4	0
2/20/20 21:45	5.66	141.6	7.979	7.038	29.4	0
2/20/20 22:00	5.72	136.2	7.804	6.925	29.43	0
2/20/20 22:15	6.01	143.8	9.13	6.599	29.43	0
2/20/20 22:30	6.802	141.7	6.811	6.491	29.43	0
2/20/20 22:45	6.786	146.7	8.55	6.474	29.43	0
2/20/20 23:00	6.687	139.3	8.2	6.402	29.41	0
2/20/20 23:15	7.827	148.9	9.31	6.367	29.41	0
2/20/20 23:30	7.287	139.6	9.96	6.158	29.41	0
2/20/20 23:45	7.819	131.3	8.78	6.144	29.41	0
2/21/20 0:00	9.17	135.4	8.75	6.245	29.38	0
2/21/20 0:15	9.28	132	7.476	6.335	29.38	0
2/21/20 0:30	9.54	135.9	7.197	6.49	29.38	0
2/21/20 0:45	8.78	143	8.48	6.512	29.38	0
2/21/20 1:00	8.42	147.6	9.24	6.582	29.38	0
2/21/20 1:15	7.91	150.9	8.23	6.377	29.38	0
2/21/20 1:30	6.277	154.7	7.313	6.213	29.38	0
2/21/20 1:45	5.744	153.6	7.553	6.112	29.38	0
2/21/20 2:00	5.222	150.4	7.274	6.104	29.39	0
2/21/20 2:15	6.007	159.6	7.298	5.962	29.39	0
2/21/20 2:30	6.089	169.1	10.5	5.679	29.39	0
2/21/20 2:45	7.269	144.9	9.2	6.186	29.39	0
2/21/20 3:00	5.195	162.8	13.07	5.698	29.39	0
2/21/20 3:15	4.621	175.2	10.87	5.796	29.39	0
2/21/20 3:30	2.679	352.2	80.8	5.057	29.39	0
2/21/20 3:45	3.728	343.7	9.39	4.035	29.39	0
2/21/20 4:00	1.959	33.86	17.38	3.418	29.39	0
2/21/20 4:15	3.162	14.85	10.96	3.597	29.39	0
2/21/20 4:30	2.967	71.2	27.69	3.62	29.39	0
2/21/20 4:45	2.979	147	21.56	4.454	29.39	0
2/21/20 5:00	3.871	177.5	11.8	4.364	29.36	0
2/21/20 5:15	3.622	201.8	24.26	3.835	29.36	0
2/21/20 5:30	6.04	205.9	8.18	3.358	29.36	0
2/21/20 5:45	6.192	209.5	7.314	3.211	29.36	0
2/21/20 6:00	5.965	190.1	12.12	3.252	29.38	0
2/21/20 6:15	6.39	182.3	6.572	2.943	29.38	0
2/21/20 6:30	5.347	176.4	6.545	3	29.38	0
2/21/20 6:45	4.971	181	11.99	3.133	29.38	0
2/21/20 7:00	6.258	178.3	9.46	3.237	29.38	0
2/21/20 7:15	4.777	174.5	13.69	3.16	29.38	0
2/21/20 7:30	2.94	173.2	8.85	3.138	29.38	0
2/21/20 7:45	3.463	181.2	10.14	3.623	29.38	0
2/21/20 8:00	4.699	174	9.95	4.536	29.37	0
2/21/20 8:15	3.65	188.1	19.71	4.694	29.37	0
2/21/20 8:30	4.301	199.8	11.94	4.289	29.37	0
2/21/20 8:45	3.7	260.4	13.44	4.029	29.37	0
2/21/20 9:00	1.571	331.6	28.16	4.396	29.4	0
2/21/20 9:15	1.029	53.76	32.73	5.085	29.4	0
2/21/20 9:30	1.221	97.6	21.54	6.063	29.4	0
2/21/20 9:45	2.045	126.5	22.26	7.172	29.4	0
2/21/20 10:00	2.979	140.3	19.98	7.918	29.38	0
2/21/20 10:15	3.616	197	26.71	8.21	29.38	0
2/21/20 10:30	2.78	198.4	17.26	8.67	29.38	0
2/21/20 10:45	3.117	204.6	13.18	9.06	29.38	0
2/21/20 11:00	2.878	190.7	19.91	9.72	29.36	0
2/21/20 11:15	2.402	181.8	28.05	10.53	29.36	0
2/21/20 11:30	3.718	215.7	17.81	10.78	29.36	0
2/21/20 11:45	4.152	210.6	12.62	11.1	29.36	0
2/21/20 12:00	4.996	221.7	22.35	11.56	29.37	0
2/21/20 12:15	5.683	222.6	15.44	11.67	29.37	0
2/21/20 12:30	5.879	209.7	12.3	11.77	29.37	0
2/21/20 12:45	5.245	238.5	32.62	11.58	29.37	0
2/21/20 13:00	5.781	235.1	21.2	11.97	29.33	0
2/21/20 13:15	5.812	242.4	22.91	11.84	29.33	0
2/21/20 13:30	6.263	241.6	18.14	11.68	29.33	0
2/21/20 13:45	5.014	223.7	16.95	12.05	29.33	0
2/21/20 14:00	5.982	199.5	21.85	11.98	29.32	0
2/21/20 14:15	6.268	214.5	18.06	12.02	29.32	0
2/21/20 14:30	6.698	219.6	10.33	12.06	29.32	0
2/21/20 14:45	6.016	204.4	18.07	12.19	29.32	0
2/21/20 15:00	6.479	209.7	12.57	12.21	29.31	0
2/21/20 15:15	5.743	204.4	21.41	12.2	29.31	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/21/20 15:30	6.144	242.6	17.17	12.3	29.31	0
2/21/20 15:45	6.329	244.1	12.46	12.16	29.31	0
2/21/20 16:00	4.186	237.1	20.17	12.37	29.32	0
2/21/20 16:15	5.872	237.3	10.62	12.16	29.32	0
2/21/20 16:30	5.787	233.7	14.31	12.01	29.32	0
2/21/20 16:45	6.585	230.6	10.9	11.55	29.32	0
2/21/20 17:00	5.279	213.3	7.776	11.26	29.3	0
2/21/20 17:15	5.143	233.5	11.52	11.2	29.3	0
2/21/20 17:30	3.949	241.3	4.98	11.05	29.3	0
2/21/20 17:45	3.689	220.9	8.05	10.86	29.3	0
2/21/20 18:00	4.487	210.6	3.267	10.63	29.29	0
2/21/20 18:15	5.068	217.1	4.468	10.41	29.29	0
2/21/20 18:30	4.367	222.5	7.629	10.15	29.29	0
2/21/20 18:45	3.951	212.5	13.8	10.1	29.29	0
2/21/20 19:00	3.805	224.3	7.198	9.7	29.31	0
2/21/20 19:15	4.38	247.6	25.58	8.89	29.31	0
2/21/20 19:30	4.698	217.7	9.48	8.68	29.31	0
2/21/20 19:45	3.931	219.4	15	8.12	29.31	0
2/21/20 20:00	4.023	181.9	8.36	7.793	29.31	0
2/21/20 20:15	3.591	180.5	11.7	7.516	29.31	0
2/21/20 20:30	2.817	153.4	15.17	7.149	29.31	0
2/21/20 20:45	3.111	156.5	19.23	6.468	29.31	0
2/21/20 21:00	3.018	159.4	9.44	6.616	29.32	0
2/21/20 21:15	3.209	171.5	11.96	6.589	29.32	0
2/21/20 21:30	3.501	165.3	11.9	6.255	29.32	0
2/21/20 21:45	3.94	169.7	13.35	6.184	29.32	0
2/21/20 22:00	4.827	170.1	10.63	5.701	29.31	0
2/21/20 22:15	5.045	176.5	8.69	5.464	29.31	0
2/21/20 22:30	6.076	191.5	10.94	4.93	29.31	0
2/21/20 22:45	5.785	175.8	15.23	4.253	29.31	0
2/21/20 23:00	4.443	175.6	10.41	4.643	29.31	0
2/21/20 23:15	4.382	187.3	15.3	4.745	29.31	0
2/21/20 23:30	5.826	209.3	8.26	3.751	29.31	0
2/21/20 23:45	5.777	181.9	13.76	3.793	29.31	0
2/22/20 0:00	4.48	156.7	9.53	3.249	29.31	0
2/22/20 0:15	7.003	159.4	6.499	3.767	29.31	0
2/22/20 0:30	7.33	173.6	12.65	4.031	29.31	0
2/22/20 0:45	6.784	159.5	7.377	3.694	29.31	0
2/22/20 1:00	7.108	157.9	6.773	3.669	29.32	0
2/22/20 1:15	7.39	159	7.818	3.767	29.32	0
2/22/20 1:30	6.896	172.7	8.89	3.598	29.32	0
2/22/20 1:45	7.869	171.9	10.69	3.53	29.32	0
2/22/20 2:00	7.485	156.6	7.62	3.63	29.33	0
2/22/20 2:15	7.676	151	6.615	3.429	29.33	0
2/22/20 2:30	8.45	154.1	6.756	3.323	29.33	0
2/22/20 2:45	8.87	156.1	7.25	3.237	29.33	0
2/22/20 3:00	6.63	147.7	8.73	3.209	29.33	0
2/22/20 3:15	8.86	155.6	6.759	3.101	29.33	0
2/22/20 3:30	10.73	159.9	7.401	3.401	29.33	0
2/22/20 3:45	10.96	162.9	6.949	3.518	29.33	0
2/22/20 4:00	8.23	165.2	12.66	3.545	29.31	0
2/22/20 4:15	7.565	166	10.58	3.654	29.31	0
2/22/20 4:30	9.41	161.3	7.985	3.686	29.31	0
2/22/20 4:45	11.04	158.2	6.759	3.808	29.31	0
2/22/20 5:00	9.91	161.9	7.768	4.007	29.3	0
2/22/20 5:15	8.89	156.5	7.752	3.994	29.3	0
2/22/20 5:30	8.72	153.5	9.81	4.134	29.3	0
2/22/20 5:45	7.379	153.6	8.92	4.347	29.3	0
2/22/20 6:00	7.859	151.8	9.57	4.43	29.29	0
2/22/20 6:15	7.939	157.1	11.55	4.548	29.29	0
2/22/20 6:30	7.454	161.2	12.01	4.585	29.29	0
2/22/20 6:45	7.357	165.4	19.58	4.895	29.29	0
2/22/20 7:00	6.765	145.5	16.38	4.836	29.29	0
2/22/20 7:15	6.846	154.2	13.43	4.975	29.29	0
2/22/20 7:30	5.484	151.3	13.07	5.022	29.29	0
2/22/20 7:45	7.407	146.2	12.42	5.276	29.29	0
2/22/20 8:00	8.54	165.2	18.43	5.486	29.32	0
2/22/20 8:15	8.96	175.5	11.84	5.293	29.32	0
2/22/20 8:30	7.388	156.9	11.32	5.023	29.32	0
2/22/20 8:45	4.979	131.5	16.51	4.96	29.32	0
2/22/20 9:00	4.674	130.3	12.79	5.014	29.34	0
2/22/20 9:15	5.499	154.1	12.46	5.088	29.34	0
2/22/20 9:30	4.352	156.1	8.45	5.133	29.34	0
2/22/20 9:45	2.23	92	43.03	5.174	29.34	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
2/22/20 10:00	1.365	13.67	8.49	5.218	29.35	0
2/22/20 10:15	2.987	9.82	14.28	5.301	29.35	0
2/22/20 10:30	2.405	21.35	12.19	5.402	29.35	0
2/22/20 10:45	1.575	278.1	32.99	5.411	29.35	0
2/22/20 11:00	3.246	279.8	30.18	5.337	29.35	0
2/22/20 11:15	2.116	308.1	16.99	5.243	29.35	0
2/22/20 11:30	1.342	310.1	22.26	5.222	29.35	0
2/22/20 11:45	0.477	328.3	36.27	5.532	29.35	0
2/22/20 12:00	2.899	271.2	8.65	5.452	29.37	0
2/22/20 12:15	2.807	289.9	21.17	5.54	29.37	0
2/22/20 12:30	5.213	326	11.22	5.72	29.37	0
2/22/20 12:45	4.597	334.2	11.98	5.889	29.37	0
2/22/20 13:00	2.407	322.3	16.44	6.019	29.34	0
2/22/20 13:15	1.585	359	13.48	6.154	29.34	0
2/22/20 13:30	1.644	20.43	14.24	6.307	29.34	0
2/22/20 13:45	0.992	18.85	31.85	6.641	29.34	0
2/22/20 14:00	1.272	9.7	8.96	6.739	29.34	0
2/22/20 14:15	1.143	16.68	15	6.988	29.34	0
2/22/20 14:30	1.317	47.06	11.35	7.06	29.34	0
2/22/20 14:45	1.918	23.59	34.44	7.212	29.34	0
2/22/20 15:00	3.354	11.18	15.18	7.105	29.32	0
2/22/20 15:15	4.139	33.25	12.87	7.021	29.32	0
2/22/20 15:30	4.909	34.75	10.09	6.892	29.32	0
2/22/20 15:45	4.085	32.77	7.74	6.918	29.32	0
2/22/20 16:00	3.192	43.98	9.51	6.848	29.29	0
2/22/20 16:15	3.034	33.03	9.34	6.821	29.29	0
2/22/20 16:30	2.458	59.84	12.83	6.962	29.29	0
2/22/20 16:45	2.802	42.31	8.41	6.856	29.29	0
2/22/20 17:00	2.122	22.96	5.546	6.688	29.31	0
2/22/20 17:15	2.316	355.2	16.14	6.584	29.31	0
2/22/20 17:30	2.53	40.86	7.036	6.269	29.31	0
2/22/20 17:45	2.745	40.32	5.686	5.925	29.31	0
2/22/20 18:00	3.269	39.95	11.1	5.819	29.28	0
2/22/20 18:15	3.239	36.47	6.087	5.518	29.28	0
2/22/20 18:30	2.621	37.44	10.66	5.55	29.28	0
2/22/20 18:45	2.865	22.18	5.286	5.489	29.28	0
2/22/20 19:00	2.375	31.38	2.905	5.371	29.3	0
2/22/20 19:15	2.337	45.28	9.27	5.278	29.3	0
2/22/20 19:30	2.968	39.59	7.01	5.162	29.3	0
2/22/20 19:45	2.6	62.18	7.599	5.025	29.3	0
2/22/20 20:00	2.804	93.3	6.635	4.991	29.29	0
2/22/20 20:15	2.243	97.3	8.03	5.027	29.29	0
2/22/20 20:30	2.208	107.9	6.953	4.812	29.29	0
2/22/20 20:45	1.154	106.9	5.458	5.232	29.29	0
2/22/20 21:00	1.011	107.8	18.89	5.448	29.28	0
2/22/20 21:15	1.531	89.5	8.35	4.909	29.28	0
2/22/20 21:30	1.758	103.7	4.941	4.492	29.28	0
2/22/20 21:45	2.277	107.1	6.981	4.967	29.28	0
2/22/20 22:00	1.662	87.9	6.973	4.979	29.27	0
2/22/20 22:15	1.955	111.4	12.38	5.027	29.27	0
2/22/20 22:30	2.345	123.4	21.35	5.374	29.27	0
2/22/20 22:45	2.869	139.9	19.74	5.215	29.27	0
2/22/20 23:00	2.299	111.3	26.04	4.795	29.26	0
2/22/20 23:15	4.856	156.7	23.66	5.056	29.26	0
2/22/20 23:30	5.765	119.3	12.51	5.08	29.26	0
2/22/20 23:45	3.916	124.3	18.8	4.677	29.26	0
2/23/20 0:00	6.845	148.7	21.43	4.841	29.22	0
2/23/20 0:15	6.809	130	32.48	4.589	29.22	0
2/23/20 0:30	5.603	223	28.68	5.276	29.22	0
2/23/20 0:45	6.548	133.7	20.47	4.865	29.22	0
2/23/20 1:00	3.429	68.03	62.55	4.435	29.2	0
2/23/20 1:15	4.271	274.5	9.95	4.208	29.2	0
2/23/20 1:30	3.145	190.8	30.75	4.838	29.2	0
2/23/20 1:45	3.888	217.5	14.33	4.671	29.2	0
2/23/20 2:00	2.713	166.4	13.92	4.444	29.18	0
2/23/20 2:15	3.326	140	5.792	3.94	29.18	0
2/23/20 2:30	3.385	117.2	12.61	4.07	29.18	0
2/23/20 2:45	4.109	139.8	14.11	4.33	29.18	0
2/23/20 3:00	4.149	131.2	9.37	5.015	29.16	0
2/23/20 3:15	6.374	148.9	16.09	5.027	29.16	0
2/23/20 3:30	8.14	141.3	10.46	5.524	29.16	0
2/23/20 3:45	9.13	142	9.57	5.826	29.16	0
2/23/20 4:00	7.393	136.1	12.64	6.03	29.08	0
2/23/20 4:15	9.89	141.8	7.726	6.344	29.08	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/23/20 4:30	9.59	153.5	11.69	6.817	29.08	0
2/23/20 4:45	8.94	153.6	9.38	7.171	29.08	0
2/23/20 5:00	11.39	158.3	8.07	7.3	29.03	0
2/23/20 5:15	11.29	154.8	7.943	7.138	29.03	0
2/23/20 5:30	9.8	154.2	8.07	6.913	29.03	0
2/23/20 5:45	11.03	146.9	8.88	6.868	29.03	0
2/23/20 6:00	11.53	149.6	8.56	6.921	29	0
2/23/20 6:15	11.53	155.1	7.496	7.131	29	0
2/23/20 6:30	12.33	155.4	8.3	7.457	29	0
2/23/20 6:45	12.09	164.2	9.13	7.562	29	0
2/23/20 7:00	15.91	190.4	12.37	8.32	28.93	0
2/23/20 7:15	20.18	206.3	10.05	9.01	28.93	0.03
2/23/20 7:30	28.51	249.4	22.04	6.548	28.93	0.05
2/23/20 7:45	22.27	259.2	9.66	4.632	28.93	0.03
2/23/20 8:00	17.76	242.8	11.94	4.36	29.05	0.03
2/23/20 8:15	14.61	226.5	10.53	4.257	29.05	0.01
2/23/20 8:30	13.5	216.9	9.8	4.179	29.05	0
2/23/20 8:45	13.83	214.4	10.49	4.218	29.05	0.01
2/23/20 9:00	13.58	181.4	10.82	3.955	29.11	0
2/23/20 9:15	14.2	183.8	11.33	3.766	29.11	0
2/23/20 9:30	15.08	177.4	9.46	3.983	29.11	0
2/23/20 9:45	17.1	193.6	10.9	4.318	29.11	0
2/23/20 10:00	18.37	199.9	10.27	4.78	29.13	0
2/23/20 10:15	16.7	209	7.604	5.077	29.13	0
2/23/20 10:30	17.72	203	10.35	5.442	29.13	0
2/23/20 10:45	15.78	209.1	11.05	5.78	29.13	0
2/23/20 11:00	15.63	216.7	9.6	5.684	29.15	0
2/23/20 11:15	14.33	203	12.03	5.804	29.15	0
2/23/20 11:30	14.61	192	10.35	5.653	29.15	0
2/23/20 11:45	14.06	215.4	9.1	5.459	29.15	0
2/23/20 12:00	20.07	231.3	9.23	5.068	29.15	0.02
2/23/20 12:15	16.09	225.3	11.26	4.692	29.15	0
2/23/20 12:30	12.66	194.7	11.31	4.487	29.15	0.01
2/23/20 12:45	12.49	195.2	8.95	5.009	29.15	0
2/23/20 13:00	11.45	182.2	12.88	4.936	29.17	0.01
2/23/20 13:15	11.53	203.6	14.5	5.226	29.17	0
2/23/20 13:30	14.79	215.8	14.05	5.86	29.17	0
2/23/20 13:45	16.68	211.8	12.05	6.045	29.17	0
2/23/20 14:00	18.87	217.6	16.63	6.23	29.2	0
2/23/20 14:15	18.55	229.5	11.99	6.56	29.2	0.01
2/23/20 14:30	21.79	225.9	8.98	6.571	29.2	0
2/23/20 14:45	18.73	229.5	9.51	6.489	29.2	0
2/23/20 15:00	19.51	227.3	12.01	6.581	29.22	0
2/23/20 15:15	22.33	222.8	10.59	6.447	29.22	0
2/23/20 15:30	23.14	227.7	10.17	6.389	29.22	0
2/23/20 15:45	21.25	233.1	14.21	6.533	29.22	0
2/23/20 16:00	24.94	227.8	10.99	6.503	29.27	0
2/23/20 16:15	23.83	229.5	8.89	6.317	29.27	0
2/23/20 16:30	25.68	234.4	11.15	6.17	29.27	0
2/23/20 16:45	23.56	234	9.29	6.127	29.27	0
2/23/20 17:00	22.47	226.5	11.54	6.033	29.3	0
2/23/20 17:15	26.73	229.3	10.98	5.746	29.3	0
2/23/20 17:30	24.91	227.6	10.33	5.463	29.3	0
2/23/20 17:45	21.08	225.8	10.8	5.35	29.3	0
2/23/20 18:00	22.24	227.8	10.31	5.261	29.33	0
2/23/20 18:15	24.69	228.5	9.27	5.176	29.33	0
2/23/20 18:30	25.49	225.7	8.37	5.15	29.33	0
2/23/20 18:45	23.59	221.5	9.09	5.034	29.33	0
2/23/20 19:00	16.33	219.2	12.15	4.944	29.37	0
2/23/20 19:15	18.63	216.3	9.12	4.895	29.37	0
2/23/20 19:30	20.66	217.7	11.37	4.849	29.37	0
2/23/20 19:45	17.14	213.3	10.17	4.797	29.37	0
2/23/20 20:00	19.14	212	11.37	4.736	29.4	0
2/23/20 20:15	18.97	210.5	9.62	4.651	29.4	0
2/23/20 20:30	17.38	213.7	9.8	4.615	29.4	0
2/23/20 20:45	17.52	212.8	11.16	4.572	29.4	0
2/23/20 21:00	17.08	212.2	11.01	4.545	29.42	0
2/23/20 21:15	15.05	211.5	11.27	4.474	29.42	0
2/23/20 21:30	17.91	206.5	10.64	4.452	29.42	0
2/23/20 21:45	16.5	203	9.81	4.417	29.42	0
2/23/20 22:00	14.54	205	8.84	4.367	29.46	0
2/23/20 22:15	14.16	203.1	10.97	4.342	29.46	0
2/23/20 22:30	15.34	202.8	11.91	4.283	29.46	0
2/23/20 22:45	17.17	206.5	9.53	4.202	29.46	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/23/20 23:00	16.45	207.8	11.21	4.176	29.49	0
2/23/20 23:15	16.21	207.2	9.6	4.173	29.49	0
2/23/20 23:30	19.21	214.1	10.77	4.154	29.49	0
2/23/20 23:45	20.06	212	10.26	4.138	29.49	0
2/24/20 0:00	19.23	208.6	10.73	4.087	29.53	0
2/24/20 0:15	17.01	212.5	8.99	3.999	29.53	0
2/24/20 0:30	16.94	210.4	9.93	3.995	29.53	0
2/24/20 0:45	20.52	212	10.77	3.995	29.53	0
2/24/20 1:00	18.66	213	8.39	3.983	29.57	0
2/24/20 1:15	19.84	211.6	9.51	3.959	29.57	0
2/24/20 1:30	17.11	218.5	8.55	3.873	29.57	0
2/24/20 1:45	14.45	213.1	10.49	3.86	29.57	0
2/24/20 2:00	16.66	209.7	8.99	3.811	29.61	0
2/24/20 2:15	15.28	210	8.47	3.713	29.61	0
2/24/20 2:30	13.02	200.1	9.82	3.599	29.61	0
2/24/20 2:45	14.37	200.3	9.24	3.531	29.61	0
2/24/20 3:00	14.15	199.1	8.92	3.524	29.62	0
2/24/20 3:15	14.61	198.8	7.715	3.541	29.62	0
2/24/20 3:30	13.73	204.4	6.823	3.451	29.62	0
2/24/20 3:45	13.09	202	7.62	3.421	29.62	0
2/24/20 4:00	13.51	195.8	8.33	3.607	29.64	0
2/24/20 4:15	13.06	196	8.41	3.659	29.64	0
2/24/20 4:30	14.31	191.3	8.79	3.69	29.64	0
2/24/20 4:45	13.82	194.5	7.381	3.669	29.64	0
2/24/20 5:00	13.52	195	8.88	3.646	29.65	0
2/24/20 5:15	13.51	191.9	8.79	3.58	29.65	0
2/24/20 5:30	14.1	194.5	7.97	3.538	29.65	0
2/24/20 5:45	11.64	195.4	7.645	3.442	29.65	0
2/24/20 6:00	11.69	197.3	7.285	3.476	29.67	0
2/24/20 6:15	10.41	195.1	7.901	3.384	29.67	0
2/24/20 6:30	9.71	192.8	7.135	3.401	29.67	0
2/24/20 6:45	8.96	189.1	8.66	3.235	29.67	0
2/24/20 7:00	8.82	188.6	7.771	3.21	29.7	0
2/24/20 7:15	8.17	190.2	9.25	3.009	29.7	0
2/24/20 7:30	7.952	183.7	10.4	3	29.7	0
2/24/20 7:45	4.122	152.9	14.75	2.531	29.7	0
2/24/20 8:00	5.243	157	10.63	2.801	29.72	0
2/24/20 8:15	4.491	164.9	14.03	3.015	29.72	0
2/24/20 8:30	3.99	171.5	15.88	3.283	29.72	0
2/24/20 8:45	3.373	161.8	18.7	3.749	29.72	0
2/24/20 9:00	3.912	165.4	29.19	4.121	29.74	0
2/24/20 9:15	5.827	191.1	13.81	4.266	29.74	0
2/24/20 9:30	9.55	207.2	16.93	4.278	29.74	0
2/24/20 9:45	10.8	221.1	9.35	4.391	29.74	0
2/24/20 10:00	7.919	219.7	10.97	4.582	29.74	0
2/24/20 10:15	8.78	213.2	13.57	4.619	29.74	0
2/24/20 10:30	5.844	225.7	21.84	4.785	29.74	0
2/24/20 10:45	6.567	226.5	13.52	4.852	29.74	0
2/24/20 11:00	5.002	232.6	19.46	5.045	29.75	0
2/24/20 11:15	6.116	210.2	10.56	5.337	29.75	0
2/24/20 11:30	4.339	204.7	25.59	5.692	29.75	0
2/24/20 11:45	4.451	212.5	26.75	5.35	29.75	0
2/24/20 12:00	3.263	248.7	27.1	5.803	29.74	0
2/24/20 12:15	5.54	207.8	22.86	6.488	29.74	0
2/24/20 12:30	6.645	223	16.26	6.319	29.74	0
2/24/20 12:45	3.813	202.9	33.01	6.996	29.74	0
2/24/20 13:00	5.01	226.7	24.39	6.491	29.74	0
2/24/20 13:15	4.754	238.2	27.48	6.299	29.74	0
2/24/20 13:30	4.355	218.4	20.64	6.223	29.74	0
2/24/20 13:45	2.941	174.1	43.2	6.325	29.74	0
2/24/20 14:00	1.774	50.63	20.06	6.201	29.72	0
2/24/20 14:15	1.968	217.3	74.14	6.541	29.72	0
2/24/20 14:30	1.569	327.7	48.65	6.52	29.72	0
2/24/20 14:45	2.68	358.7	21.77	6.813	29.72	0
2/24/20 15:00	3.178	37.61	16.18	6.803	29.72	0
2/24/20 15:15	3.847	48.62	18.18	6.638	29.72	0
2/24/20 15:30	4.436	42.41	9.37	6.584	29.72	0
2/24/20 15:45	3.614	29.74	18.51	6.638	29.72	0
2/24/20 16:00	5.494	35.16	11.02	6.657	29.75	0
2/24/20 16:15	7.361	30.7	10.26	6.507	29.75	0
2/24/20 16:30	7.106	18.09	10.77	6.388	29.75	0
2/24/20 16:45	8.49	23.85	9.91	6.182	29.75	0
2/24/20 17:00	7.32	34.34	10.95	5.908	29.75	0
2/24/20 17:15	6.332	32.66	14.92	5.684	29.75	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/24/20 17:30	6.992	38.9	10.71	5.416	29.75	0
2/24/20 17:45	6.877	42.01	12.45	5.138	29.75	0
2/24/20 18:00	7.405	49.99	11.93	4.971	29.76	0
2/24/20 18:15	6.756	44.42	8.12	4.666	29.76	0
2/24/20 18:30	7.842	39.07	10.45	4.619	29.76	0
2/24/20 18:45	6.825	51.3	9.84	4.521	29.76	0
2/24/20 19:00	5.089	46.71	7.429	4.335	29.76	0
2/24/20 19:15	4.702	47.21	4.968	4.322	29.76	0
2/24/20 19:30	4.869	54.72	8.12	4.196	29.76	0
2/24/20 19:45	5.992	52.1	8.44	4.284	29.76	0
2/24/20 20:00	5.69	47.81	7.646	4.33	29.77	0
2/24/20 20:15	6.046	47.16	7.299	4.158	29.77	0
2/24/20 20:30	5.983	45.67	6.12	3.998	29.77	0
2/24/20 20:45	4.62	47.94	7.999	4.104	29.77	0
2/24/20 21:00	3.96	56.08	4.573	4.038	29.78	0
2/24/20 21:15	3.597	68.49	12.24	4.206	29.78	0
2/24/20 21:30	3.654	84.5	7.173	4.473	29.78	0
2/24/20 21:45	3.303	90.6	7.298	4.515	29.78	0
2/24/20 22:00	3.415	95	5.458	4.574	29.79	0
2/24/20 22:15	3.462	100.7	7.728	4.065	29.79	0
2/24/20 22:30	2.245	137.7	12.46	3.425	29.79	0
2/24/20 22:45	2.73	171.1	16.58	3.9	29.79	0
2/24/20 23:00	1.947	177.4	15.99	4.284	29.79	0
2/24/20 23:15	1.602	152.4	6.496	3.716	29.79	0
2/24/20 23:30	2.197	125	19.79	3.353	29.79	0
2/24/20 23:45	3.532	143	11.15	3.461	29.79	0
2/25/20 0:00	3.753	161.5	10.91	3.708	29.79	0
2/25/20 0:15	2.588	132.4	12.05	3.576	29.79	0
2/25/20 0:30	2.72	114.2	3.201	2.773	29.79	0
2/25/20 0:45	4.24	127.8	4.671	2.892	29.79	0
2/25/20 1:00	4.167	160.1	15.93	3.518	29.78	0
2/25/20 1:15	5.246	159.3	8.85	3.32	29.78	0
2/25/20 1:30	5.656	145.1	5.916	3.156	29.78	0
2/25/20 1:45	5.288	149.1	6.812	3.345	29.78	0
2/25/20 2:00	4.255	140.8	4.915	3.469	29.75	0
2/25/20 2:15	3.566	142	3.544	3.47	29.75	0
2/25/20 2:30	3.622	146.3	6.024	3.429	29.75	0
2/25/20 2:45	2.486	142.4	13.58	3.257	29.75	0
2/25/20 3:00	1.511	114.3	10.79	2.563	29.73	0
2/25/20 3:15	3.082	172.6	13.63	2.705	29.73	0
2/25/20 3:30	2.562	177.3	10.95	2.579	29.73	0
2/25/20 3:45	0.322	133.1	37.38	1.993	29.73	0
2/25/20 4:00	1.682	126.2	21.06	2.302	29.74	0
2/25/20 4:15	1.79	116.5	2.558	2.029	29.74	0
2/25/20 4:30	1.223	118.4	3.183	2.089	29.74	0
2/25/20 4:45	1.901	61.7	22.06	2.116	29.74	0
2/25/20 5:00	2.608	62.92	6.359	2.029	29.73	0
2/25/20 5:15	1.946	76.68	6.381	1.83	29.73	0
2/25/20 5:30	2.033	44.77	6.203	1.69	29.73	0
2/25/20 5:45	2.371	61.13	22.75	1.407	29.73	0
2/25/20 6:00	0.982	96	20.87	1.534	29.73	0
2/25/20 6:15	2.741	180	5.665	1.573	29.73	0
2/25/20 6:30	3.302	170.5	15.06	1.607	29.73	0
2/25/20 6:45	4.14	199.3	9	1.425	29.73	0
2/25/20 7:00	5.294	196	11.7	0.861	29.71	0
2/25/20 7:15	4.49	171.2	9.64	1.349	29.71	0
2/25/20 7:30	3.753	168.1	10.33	1.658	29.71	0
2/25/20 7:45	3.944	217.1	26.27	1.77	29.71	0
2/25/20 8:00	2.305	183	64.55	1.697	29.7	0
2/25/20 8:15	1.272	346.6	43.55	2.315	29.7	0
2/25/20 8:30	1.455	280.9	16.75	2.524	29.7	0
2/25/20 8:45	1.48	174.4	39.2	2.863	29.7	0
2/25/20 9:00	2.149	67.22	19.2	2.837	29.72	0
2/25/20 9:15	2.403	20.65	13.44	2.697	29.72	0
2/25/20 9:30	2.134	12.18	10.51	3.14	29.72	0
2/25/20 9:45	2.781	72.98	29.3	3.43	29.72	0
2/25/20 10:00	3.505	84.4	10.68	3.761	29.69	0
2/25/20 10:15	3.731	126.3	34.72	4.766	29.69	0
2/25/20 10:30	4.638	199.8	27.97	5.651	29.69	0
2/25/20 10:45	6.644	254.5	10.64	6.009	29.69	0
2/25/20 11:00	2.797	250.1	27.81	6.067	29.69	0
2/25/20 11:15	1.874	269.4	41.45	7.175	29.69	0
2/25/20 11:30	1.218	314.6	40.83	6.984	29.69	0
2/25/20 11:45	2.255	199.6	42.55	7.306	29.69	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/25/20 12:00	4.052	232.1	17.08	7.611	29.67	0
2/25/20 12:15	2.958	223.9	26.73	7.605	29.67	0
2/25/20 12:30	3.372	249.7	22.53	7.858	29.67	0
2/25/20 12:45	3.503	231.5	20.02	8.09	29.67	0
2/25/20 13:00	4.479	265.4	16	8.33	29.67	0
2/25/20 13:15	4.658	286.8	15.37	8.22	29.67	0
2/25/20 13:30	3.28	288.3	17.1	8.69	29.67	0
2/25/20 13:45	1.842	253.8	45.48	8.59	29.67	0
2/25/20 14:00	1.713	193	69.88	9.04	29.65	0
2/25/20 14:15	3.928	154.8	27.32	9.37	29.65	0
2/25/20 14:30	3.251	181.2	42.27	9.88	29.65	0
2/25/20 14:45	4.229	219.7	20.74	10.02	29.65	0
2/25/20 15:00	4.129	227.2	15.01	10.31	29.63	0
2/25/20 15:15	3.473	240.7	11.8	10.22	29.63	0
2/25/20 15:30	2.963	223.9	13.5	10.22	29.63	0
2/25/20 15:45	3.515	233.4	24.14	10.32	29.63	0
2/25/20 16:00	4.031	230.3	13.73	10.27	29.64	0
2/25/20 16:15	2.677	252	18.85	10.17	29.64	0
2/25/20 16:30	2.259	249.2	34.51	10.2	29.64	0
2/25/20 16:45	2.09	163.3	13.47	10.01	29.64	0
2/25/20 17:00	1.47	214.3	46.81	9.97	29.61	0
2/25/20 17:15	2.157	281.4	26.95	9.85	29.61	0
2/25/20 17:30	3.014	304.3	7.429	9.51	29.61	0
2/25/20 17:45	5.001	320.1	3.472	9.16	29.61	0
2/25/20 18:00	4.417	342.9	18.48	8.94	29.61	0
2/25/20 18:15	3.798	24.63	6.989	8.37	29.61	0
2/25/20 18:30	2.628	36.89	7.784	8.22	29.61	0
2/25/20 18:45	2.766	43.27	9.71	8.2	29.61	0
2/25/20 19:00	2.456	23.39	7.069	8.15	29.62	0
2/25/20 19:15	3.012	35.09	9.52	8.15	29.62	0
2/25/20 19:30	2.876	35.44	26.97	7.949	29.62	0
2/25/20 19:45	3.247	12.56	15.51	8.04	29.62	0
2/25/20 20:00	2.651	2.151	19.84	8.16	29.63	0
2/25/20 20:15	2.35	43.56	33.58	7.876	29.63	0
2/25/20 20:30	2.241	64.77	9.85	7.225	29.63	0
2/25/20 20:45	1.782	50.73	17.88	7.353	29.63	0
2/25/20 21:00	2.448	2.675	25.01	7.587	29.6	0
2/25/20 21:15	1.696	26.55	5.472	7.433	29.6	0
2/25/20 21:30	1.508	42.53	10.09	7.36	29.6	0
2/25/20 21:45	1.382	71.19	4.809	7.448	29.6	0
2/25/20 22:00	1.1	182.9	60.19	7.563	29.62	0
2/25/20 22:15	2.859	173.9	20.3	7.609	29.62	0
2/25/20 22:30	2.151	158.8	15.46	7.237	29.62	0
2/25/20 22:45	2.137	165.4	14.53	7.345	29.62	0
2/25/20 23:00	2.681	196.3	21.53	7.392	29.62	0
2/25/20 23:15	1.935	272.2	43.36	6.982	29.62	0
2/25/20 23:30	2.092	356.6	24.4	6.676	29.62	0
2/25/20 23:45	1.609	325.2	25.38	6.745	29.62	0
2/26/20 0:00	0.824	287.6	10.33	6.96	29.59	0
2/26/20 0:15	1.083	204.9	31.44	6.899	29.59	0
2/26/20 0:30	1.534	180.7	37.82	6.692	29.59	0
2/26/20 0:45	2.339	153.1	36.29	6.576	29.59	0
2/26/20 1:00	3.589	176.7	9.24	6.597	29.6	0
2/26/20 1:15	3.931	206.5	19.79	6.672	29.6	0
2/26/20 1:30	3.701	207.8	30.1	6.601	29.6	0
2/26/20 1:45	3.845	244.6	6.45	6.32	29.6	0
2/26/20 2:00	3.921	250.3	6.423	6.305	29.61	0
2/26/20 2:15	3.584	261.2	11.16	6.132	29.61	0
2/26/20 2:30	4.927	265.8	9.87	5.774	29.61	0.01
2/26/20 2:45	2.771	287.5	11.58	5.485	29.61	0
2/26/20 3:00	0.829	292.3	5.335	5.388	29.61	0.01
2/26/20 3:15	0.14	58.35	15.07	5.31	29.61	0
2/26/20 3:30	0.276	58.89	4.988	5.223	29.61	0
2/26/20 3:45	0.118	51.57	0.061	5.2	29.61	0
2/26/20 4:00	0.01	54.4	0.011	5.204	29.63	0.01
2/26/20 4:15	0.816	56.13	1.824	5.163	29.63	0
2/26/20 4:30	0	0	0	5.165	29.63	0
2/26/20 4:45	0.751	107.6	9.41	5.178	29.63	0.01
2/26/20 5:00	3.03	126.3	8.4	5.153	29.62	0
2/26/20 5:15	3.608	134.4	8.83	5.142	29.62	0
2/26/20 5:30	3.136	176.3	19.16	5.193	29.62	0.01
2/26/20 5:45	3.793	197.3	7.299	5.277	29.62	0
2/26/20 6:00	3.814	200.6	11.59	5.28	29.62	0
2/26/20 6:15	2.207	211.1	10.8	5.277	29.62	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/26/20 6:30	2.511	224	14.17	5.302	29.62	0
2/26/20 6:45	1.653	212.6	9.12	5.315	29.62	0
2/26/20 7:00	1.388	220.4	13.44	5.343	29.65	0
2/26/20 7:15	1.476	263.3	14.4	5.344	29.65	0.01
2/26/20 7:30	2.67	246	7.713	5.27	29.65	0
2/26/20 7:45	1.792	281.6	10.61	5.274	29.65	0
2/26/20 8:00	1.552	290.8	2.099	5.298	29.68	0
2/26/20 8:15	0.295	284.9	4.658	5.368	29.68	0
2/26/20 8:30	1.37	222.3	16.66	5.416	29.68	0
2/26/20 8:45	1.351	145.6	11.65	5.487	29.68	0
2/26/20 9:00	2.08	175.7	41.4	5.467	29.66	0
2/26/20 9:15	2.441	203.6	8.54	5.508	29.66	0
2/26/20 9:30	2.47	184.6	12.99	5.728	29.66	0
2/26/20 9:45	3.764	185.6	20.31	6.004	29.66	0
2/26/20 10:00	3.889	211.3	9.95	5.886	29.69	0
2/26/20 10:15	3.808	207.1	12.83	6.203	29.69	0
2/26/20 10:30	3.575	202.8	8.79	6.332	29.69	0
2/26/20 10:45	5.715	200.9	7.13	6.39	29.69	0
2/26/20 11:00	5.126	212	7.09	6.454	29.69	0
2/26/20 11:15	5.842	222.7	14.29	6.659	29.69	0
2/26/20 11:30	5.984	211.2	10.77	6.742	29.69	0
2/26/20 11:45	4.581	225.4	14.11	7.03	29.69	0
2/26/20 12:00	4.805	228.6	25.96	7.364	29.72	0
2/26/20 12:15	5.627	223	17.4	7.511	29.72	0
2/26/20 12:30	5.732	216.9	21.37	7.795	29.72	0
2/26/20 12:45	5.305	220.1	10.77	7.924	29.72	0
2/26/20 13:00	2.255	248.5	47.91	7.871	29.7	0
2/26/20 13:15	2.81	222.6	30.09	8.03	29.7	0
2/26/20 13:30	3.794	216	11.99	8.07	29.7	0
2/26/20 13:45	4.402	215.6	18.75	8.49	29.7	0
2/26/20 14:00	3.717	235.4	24.93	9.27	29.69	0
2/26/20 14:15	4.469	238.7	14.19	8.89	29.69	0
2/26/20 14:30	4.15	219.5	21.42	8.72	29.69	0
2/26/20 14:45	2.01	258.2	23.1	8.96	29.69	0
2/26/20 15:00	4.665	317.5	16.11	8.6	29.67	0
2/26/20 15:15	4.274	324.5	3.172	8.26	29.67	0
2/26/20 15:30	4.851	323.5	4.521	8.14	29.67	0
2/26/20 15:45	5.29	323.2	3.019	8.03	29.67	0
2/26/20 16:00	5.138	328	3.163	8.01	29.68	0
2/26/20 16:15	3.67	324.7	2.557	8.19	29.68	0
2/26/20 16:30	3.022	336.6	14.68	8.31	29.68	0
2/26/20 16:45	1.123	359.8	12.84	8.56	29.68	0
2/26/20 17:00	0.03	352.5	0.007	8.62	29.69	0
2/26/20 17:15	0	0	0	8.96	29.69	0
2/26/20 17:30	0	0	0	8.79	29.69	0
2/26/20 17:45	0	0	0	8.75	29.69	0
2/26/20 18:00	0.579	60.08	4.66	8.22	29.67	0
2/26/20 18:15	2.398	49.58	5.635	7.551	29.67	0
2/26/20 18:30	2.907	47.09	12	7.484	29.67	0
2/26/20 18:45	2.17	50.45	3.468	7.145	29.67	0
2/26/20 19:00	1.363	52.17	3.886	7.203	29.69	0
2/26/20 19:15	2.294	115.8	12.29	7.159	29.69	0
2/26/20 19:30	3.16	111.5	4.222	6.762	29.69	0
2/26/20 19:45	2.515	102.6	7.446	6.415	29.69	0
2/26/20 20:00	2.586	141.3	13.34	6.408	29.66	0
2/26/20 20:15	3.422	145.8	5.916	6.496	29.66	0
2/26/20 20:30	2.661	141.3	13.87	6.503	29.66	0
2/26/20 20:45	3.522	198.1	14.4	6.028	29.66	0
2/26/20 21:00	3.988	172	10.95	5.681	29.65	0
2/26/20 21:15	3.904	156.6	8.41	5.57	29.65	0
2/26/20 21:30	4.511	149.7	6.974	5.553	29.65	0
2/26/20 21:45	5.499	158	8.57	5.579	29.65	0
2/26/20 22:00	5.563	151.9	7.707	5.405	29.66	0
2/26/20 22:15	5.439	142.3	7.36	5.569	29.66	0
2/26/20 22:30	4.539	139.8	6.646	5.596	29.66	0
2/26/20 22:45	3.87	138.4	3.769	5.796	29.66	0
2/26/20 23:00	4.588	125.1	7.302	5.729	29.66	0
2/26/20 23:15	4.001	133.7	3.695	5.956	29.66	0
2/26/20 23:30	3.536	153	12.31	5.935	29.66	0
2/26/20 23:45	3.512	144.3	3.445	5.805	29.66	0
2/27/20 0:00	3.293	154.5	6.179	5.892	29.66	0
2/27/20 0:15	2.988	149	5.071	5.99	29.66	0
2/27/20 0:30	2.458	145.6	5.921	5.762	29.66	0
2/27/20 0:45	3.497	135.5	5.145	5.878	29.66	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/27/20 1:00	3.141	157.9	5.906	5.735	29.66	0
2/27/20 1:15	3.183	147.2	11.2	5.754	29.66	0
2/27/20 1:30	3.916	165.7	8.61	5.651	29.66	0
2/27/20 1:45	3.307	171.3	10.75	5.663	29.66	0
2/27/20 2:00	3.473	152.8	5.703	5.709	29.64	0
2/27/20 2:15	3.198	168.1	8.39	5.386	29.64	0
2/27/20 2:30	3.861	174.1	6.129	5.05	29.64	0
2/27/20 2:45	4.241	157	10.32	5.247	29.64	0
2/27/20 3:00	3.156	156.2	6.451	5.353	29.62	0
2/27/20 3:15	3.614	161.5	5.436	5.253	29.62	0
2/27/20 3:30	3.746	178.2	6.161	5.209	29.62	0
2/27/20 3:45	4.051	167.7	9.09	5.286	29.62	0
2/27/20 4:00	3.474	154.5	8.59	5.226	29.62	0
2/27/20 4:15	2.77	131.4	4.167	4.786	29.62	0
2/27/20 4:30	4.705	150.8	20.64	5.149	29.62	0
2/27/20 4:45	6.29	203.5	11.69	4.289	29.62	0
2/27/20 5:00	5.269	199	10.26	4.039	29.62	0
2/27/20 5:15	6.474	208.6	5.187	3.669	29.62	0
2/27/20 5:30	6.585	208.7	3.946	3.532	29.62	0
2/27/20 5:45	7.842	210.5	2.61	3.492	29.62	0
2/27/20 6:00	7.48	206.9	4.119	3.424	29.61	0
2/27/20 6:15	6.095	187.5	11.72	3.811	29.61	0
2/27/20 6:30	3.397	159.7	20.36	4.35	29.61	0
2/27/20 6:45	0.9	107.3	11.14	4.215	29.61	0
2/27/20 7:00	0.143	12.23	0.736	4.128	29.61	0
2/27/20 7:15	1.027	15.34	41.12	4.058	29.61	0
2/27/20 7:30	4.515	187.8	8.88	4.313	29.61	0
2/27/20 7:45	3.309	178.3	12.8	4.509	29.61	0
2/27/20 8:00	4.554	170	12.3	4.925	29.61	0
2/27/20 8:15	4.133	165.7	9.26	5.485	29.61	0
2/27/20 8:30	2.619	159.9	7.76	5.49	29.61	0
2/27/20 8:45	1.513	116.1	28.45	6.29	29.61	0
2/27/20 9:00	1.886	148.4	20.96	6.907	29.64	0
2/27/20 9:15	3.465	160.3	10.57	7.485	29.64	0
2/27/20 9:30	3.191	140.8	14	7.976	29.64	0
2/27/20 9:45	2.29	138.4	21.61	8.83	29.64	0
2/27/20 10:00	2.085	216.9	30.25	8.93	29.63	0
2/27/20 10:15	2.896	235.6	18.23	8.96	29.63	0
2/27/20 10:30	3.389	196.1	20.5	9.35	29.63	0
2/27/20 10:45	3.068	218.3	24.83	9.74	29.63	0
2/27/20 11:00	4.697	222.3	20.06	10.05	29.62	0
2/27/20 11:15	5.459	223.6	23.07	10.26	29.62	0
2/27/20 11:30	4.228	208.7	15.41	10.42	29.62	0
2/27/20 11:45	3.421	239.8	18.1	10.75	29.62	0
2/27/20 12:00	3.867	244.3	14.61	10.86	29.62	0
2/27/20 12:15	3.859	241.5	17.85	11.32	29.62	0
2/27/20 12:30	2.848	218.2	28.94	11.75	29.62	0
2/27/20 12:45	3.504	243.8	31.91	11.97	29.62	0
2/27/20 13:00	3.78	236.4	36.36	12.34	29.57	0
2/27/20 13:15	3.541	226.6	24.77	12.52	29.57	0
2/27/20 13:30	3.678	224.2	41.67	12.71	29.57	0
2/27/20 13:45	5.645	279.1	18.41	12.7	29.57	0
2/27/20 14:00	4.766	285.2	21.62	12.88	29.57	0
2/27/20 14:15	5.356	294	22.47	13.1	29.57	0
2/27/20 14:30	4.068	301	14.75	13.04	29.57	0
2/27/20 14:45	5.153	272.2	22.5	13.01	29.57	0
2/27/20 15:00	4.658	300	13.14	12.9	29.53	0
2/27/20 15:15	4.18	315.6	23.8	13.06	29.53	0
2/27/20 15:30	1.872	272.5	39.44	13.31	29.53	0
2/27/20 15:45	4.376	279.6	18.76	13.39	29.53	0
2/27/20 16:00	4.359	278.3	17.58	12.95	29.54	0
2/27/20 16:15	4.063	301.4	17.71	12.65	29.54	0
2/27/20 16:30	2.794	269.8	22.87	12.99	29.54	0
2/27/20 16:45	2.736	237	31.7	13.05	29.54	0
2/27/20 17:00	4.429	229.1	8.9	12.64	29.5	0
2/27/20 17:15	4.639	225.1	13.26	12.3	29.5	0
2/27/20 17:30	3.523	254.2	8.31	12.29	29.5	0
2/27/20 17:45	2.891	262.2	11.17	11.9	29.5	0
2/27/20 18:00	1.433	297.4	7.848	11.56	29.49	0
2/27/20 18:15	1.155	290	10.63	11.61	29.49	0
2/27/20 18:30	0.498	296	0.515	11.46	29.49	0
2/27/20 18:45	1.546	352.1	25.84	10.78	29.49	0
2/27/20 19:00	1.5	35.55	13.38	10.64	29.47	0
2/27/20 19:15	1.511	39.32	5.103	10.38	29.47	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/27/20 19:30	2.425	58.78	10.76	9.76	29.47	0
2/27/20 19:45	2.24	99.8	11.83	9.06	29.47	0
2/27/20 20:00	2.962	111.4	5.746	8.85	29.49	0
2/27/20 20:15	1.289	136.5	17.62	9	29.49	0
2/27/20 20:30	1.774	136.7	27.5	8.66	29.49	0
2/27/20 20:45	2.419	85.9	21.29	7.962	29.49	0
2/27/20 21:00	3.217	53.14	5.634	7.439	29.47	0
2/27/20 21:15	4.093	58.27	12.22	7.739	29.47	0
2/27/20 21:30	4.632	47.24	6.266	6.831	29.47	0
2/27/20 21:45	4.894	42.83	10.34	6.312	29.47	0
2/27/20 22:00	4.989	49.01	7.822	5.919	29.47	0
2/27/20 22:15	4.636	37.98	8.12	5.528	29.47	0
2/27/20 22:30	5.206	35.82	6.79	5.521	29.47	0
2/27/20 22:45	4.589	38.89	3.987	5.358	29.47	0
2/27/20 23:00	4.49	24.5	5.326	5.394	29.45	0
2/27/20 23:15	3.734	27.63	4.704	5.513	29.45	0
2/27/20 23:30	2.78	33.27	6.681	5.502	29.45	0
2/27/20 23:45	3.153	38.28	3.522	5.243	29.45	0
2/28/20 0:00	3.336	30.29	3.416	5.158	29.42	0
2/28/20 0:15	3.423	45.4	5.034	5.129	29.42	0
2/28/20 0:30	2.746	56.79	7.222	5.172	29.42	0
2/28/20 0:45	2.576	62.91	19.81	5.36	29.42	0
2/28/20 1:00	1.252	43.47	2.627	5.426	29.39	0
2/28/20 1:15	1.136	124	10.09	5.491	29.39	0
2/28/20 1:30	2.981	143.7	7.717	5.452	29.39	0
2/28/20 1:45	3.049	160.9	12.72	5.218	29.39	0
2/28/20 2:00	3.342	174.5	12.44	5.495	29.39	0
2/28/20 2:15	3.042	151.2	8.02	5.608	29.39	0
2/28/20 2:30	4.129	144.7	6.274	5.408	29.39	0
2/28/20 2:45	4.941	152.9	5.178	5.272	29.39	0
2/28/20 3:00	3.633	157.6	4.838	5.166	29.36	0
2/28/20 3:15	3.737	139.1	5.818	5.335	29.36	0
2/28/20 3:30	3.891	150.7	8.82	5.611	29.36	0
2/28/20 3:45	4.484	169.5	7.747	5.327	29.36	0
2/28/20 4:00	3.184	174	11.15	4.892	29.34	0
2/28/20 4:15	2.504	172.3	18.84	4.656	29.34	0
2/28/20 4:30	1.582	115.8	12.28	4.332	29.34	0
2/28/20 4:45	4.082	142.4	6.243	3.912	29.34	0
2/28/20 5:00	4.579	157.2	5.549	4.58	29.31	0
2/28/20 5:15	4.1	159.7	11.86	5.09	29.31	0
2/28/20 5:30	3.93	180.4	15.09	5.583	29.31	0
2/28/20 5:45	3.941	191.5	5.352	6.093	29.31	0
2/28/20 6:00	3.54	195	5.847	5.09	29.3	0
2/28/20 6:15	2.819	178.7	10.38	4.485	29.3	0
2/28/20 6:30	3.196	241.6	38.81	4.156	29.3	0
2/28/20 6:45	1.787	256.9	10.81	4.079	29.3	0
2/28/20 7:00	2.39	211.9	21.83	4.12	29.27	0
2/28/20 7:15	3.821	210.5	6.125	3.835	29.27	0
2/28/20 7:30	2.933	178.9	26.43	3.717	29.27	0
2/28/20 7:45	3.446	168.4	10.48	3.11	29.27	0
2/28/20 8:00	3.241	149.1	9.99	3.388	29.25	0
2/28/20 8:15	2.819	149.4	15.12	4.772	29.25	0
2/28/20 8:30	3.043	175.7	17.82	5.306	29.25	0
2/28/20 8:45	4.043	193.9	11.81	5.161	29.25	0
2/28/20 9:00	5.439	176.3	9.11	4.968	29.25	0
2/28/20 9:15	6.436	164.9	8.29	5.65	29.25	0
2/28/20 9:30	6.288	163.8	11.09	6.188	29.25	0
2/28/20 9:45	5.998	198.1	14.98	6.543	29.25	0
2/28/20 10:00	8.14	203	8.22	6.725	29.21	0
2/28/20 10:15	7.036	206.5	10.37	7.043	29.21	0
2/28/20 10:30	4.841	243	15.16	7.511	29.21	0
2/28/20 10:45	7.52	257.9	13.83	7.594	29.21	0
2/28/20 11:00	9	274.5	12.84	6.915	29.19	0
2/28/20 11:15	8.56	270.3	11	6.906	29.19	0
2/28/20 11:30	6.687	271.6	25.32	6.065	29.19	0
2/28/20 11:45	4.514	236.2	14.9	6.43	29.19	0
2/28/20 12:00	6.392	211	10.37	6.433	29.19	0
2/28/20 12:15	6.786	210.4	14.69	6.551	29.19	0
2/28/20 12:30	10.37	200.2	11.3	6.711	29.19	0
2/28/20 12:45	10.44	208.9	14.66	6.822	29.19	0
2/28/20 13:00	8.65	186.3	19.7	7.252	29.14	0
2/28/20 13:15	10.7	198	8.42	7.195	29.14	0
2/28/20 13:30	10.01	201.4	10.77	8.22	29.14	0
2/28/20 13:45	12.85	185.1	16.86	8.28	29.14	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/28/20 14:00	10.84	185.3	16.03	8.52	29.11	0
2/28/20 14:15	10.88	208.2	13.54	8.56	29.11	0
2/28/20 14:30	10.82	226.8	16.09	8.87	29.11	0
2/28/20 14:45	8.23	208	11.64	8.9	29.11	0
2/28/20 15:00	13.24	241.5	12.49	9.7	29.11	0
2/28/20 15:15	17.69	248	16.18	9.64	29.11	0
2/28/20 15:30	18.4	237.4	10.47	9.14	29.11	0
2/28/20 15:45	19.82	223.7	11.73	9.12	29.11	0
2/28/20 16:00	15.93	216.7	9.79	9.15	29.12	0
2/28/20 16:15	12.25	219.4	9.18	9.15	29.12	0
2/28/20 16:30	12.28	221.5	9.67	9.11	29.12	0
2/28/20 16:45	13.59	222.2	9.33	9.17	29.12	0
2/28/20 17:00	14.4	220.1	9.5	8.97	29.12	0.01
2/28/20 17:15	17.57	227.2	9.11	8.07	29.12	0.01
2/28/20 17:30	13.3	221.7	9.2	7.497	29.12	0.01
2/28/20 17:45	11.63	212.4	8.44	7.207	29.12	0.01
2/28/20 18:00	11.39	212.4	8.49	7.016	29.1	0.02
2/28/20 18:15	13.97	219.6	11.28	6.865	29.1	0.03
2/28/20 18:30	18.43	243.7	9.46	6.212	29.1	0.01
2/28/20 18:45	14.04	226.9	15.11	5.856	29.1	0
2/28/20 19:00	13.27	209.8	9.16	5.527	29.14	0
2/28/20 19:15	10.63	195.9	11.21	5.166	29.14	0
2/28/20 19:30	9.89	187.1	8.82	4.86	29.14	0
2/28/20 19:45	12.69	179.2	9.97	4.791	29.14	0
2/28/20 20:00	12.55	189.2	8.1	4.829	29.15	0
2/28/20 20:15	12.1	180.3	9.77	4.868	29.15	0
2/28/20 20:30	13.18	191.2	7.456	4.842	29.15	0
2/28/20 20:45	14	187.6	8.09	4.804	29.15	0
2/28/20 21:00	14.28	189.7	8.12	4.791	29.12	0
2/28/20 21:15	13.96	182.6	9.56	4.727	29.12	0
2/28/20 21:30	14.01	167.3	7.257	4.489	29.12	0
2/28/20 21:45	14.41	166.7	7.753	4.664	29.12	0
2/28/20 22:00	14.7	166.6	7.73	4.914	29.1	0
2/28/20 22:15	14.5	169.6	7.156	5.076	29.1	0
2/28/20 22:30	14.91	171.7	8.53	5.223	29.1	0
2/28/20 22:45	17.33	192.8	12.48	5.413	29.1	0
2/28/20 23:00	16.36	200.5	7.198	5.229	29.09	0.01
2/28/20 23:15	16.11	197	7.217	5.206	29.09	0
2/28/20 23:30	19.75	197.8	9.47	5.356	29.09	0
2/28/20 23:45	18.94	197.6	8.52	5.105	29.09	0
2/29/20 0:00	18.97	201.1	8.89	4.865	29.08	0.01
2/29/20 0:15	18.96	202.8	7.68	4.721	29.08	0.01
2/29/20 0:30	19.52	199	8.85	4.706	29.08	0.01
2/29/20 0:45	19.48	203.8	9.22	4.667	29.08	0.01
2/29/20 1:00	18.6	205.7	9.14	4.521	29.09	0.01
2/29/20 1:15	16.51	202	8.29	4.349	29.09	0
2/29/20 1:30	16.58	204.5	9.96	4.293	29.09	0.02
2/29/20 1:45	12.26	204.3	10.59	4.218	29.09	0.01
2/29/20 2:00	12.65	203.8	9.91	4.16	29.1	0.01
2/29/20 2:15	15.99	201.3	8.68	4.204	29.1	0
2/29/20 2:30	13.65	198	10.64	4.178	29.1	0
2/29/20 2:45	13.96	195.8	9.47	4.186	29.1	0
2/29/20 3:00	13.2	198.5	9.02	4.217	29.1	0
2/29/20 3:15	15.66	200.8	8.55	4.253	29.1	0
2/29/20 3:30	14.65	197.9	7.846	4.277	29.1	0
2/29/20 3:45	15.5	197.6	9.65	4.322	29.1	0
2/29/20 4:00	15.28	200.8	8.15	4.396	29.1	0
2/29/20 4:15	13.67	196.2	10.05	4.465	29.1	0
2/29/20 4:30	16	200.7	9.51	4.509	29.1	0
2/29/20 4:45	12.97	207.6	9.58	4.488	29.1	0
2/29/20 5:00	11.96	209.8	11.86	4.465	29.13	0
2/29/20 5:15	10.79	228.9	15.53	4.504	29.13	0
2/29/20 5:30	14.21	216.1	12.85	4.395	29.13	0
2/29/20 5:45	11.38	218.2	9.62	4.307	29.13	0
2/29/20 6:00	12.33	218.2	10.44	4.281	29.14	0
2/29/20 6:15	13.18	217	9.55	4.243	29.14	0
2/29/20 6:30	10.92	226.6	10.76	4.213	29.14	0
2/29/20 6:45	10.27	230.4	9.33	4.164	29.14	0
2/29/20 7:00	7.68	239.8	10.23	4.104	29.16	0
2/29/20 7:15	8.08	227.2	12.84	3.928	29.16	0
2/29/20 7:30	5.378	198.5	17.77	3.685	29.16	0
2/29/20 7:45	3.826	182.7	29.02	3.66	29.16	0
2/29/20 8:00	3.02	173.5	25.55	3.657	29.19	0
2/29/20 8:15	3.312	117.5	44.37	3.724	29.19	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
2/29/20 8:30	4.398	161.6	14.99	3.744	29.19	0
2/29/20 8:45	4.924	187.9	12.25	3.817	29.19	0
2/29/20 9:00	4.961	192.7	14.13	3.865	29.21	0
2/29/20 9:15	5.881	210.9	11.14	3.85	29.21	0
2/29/20 9:30	6.042	216.6	11.59	3.905	29.21	0
2/29/20 9:45	6.113	208.4	16.6	4.013	29.21	0
2/29/20 10:00	3.44	177.2	22.6	4.159	29.23	0
2/29/20 10:15	3.654	138.3	41.21	4.187	29.23	0.01
2/29/20 10:30	4.519	115.3	13.55	4.037	29.23	0
2/29/20 10:45	4.072	141.4	12.76	4.101	29.23	0
2/29/20 11:00	2.438	118.5	21.55	4.151	29.24	0
2/29/20 11:15	3.994	123.6	13.87	4.019	29.24	0
2/29/20 11:30	3.955	130.6	10.84	4.214	29.24	0
2/29/20 11:45	5.829	161	23.23	4.682	29.24	0
2/29/20 12:00	6.414	202.4	10.57	4.785	29.25	0
2/29/20 12:15	7.215	215.6	10.78	4.923	29.25	0
2/29/20 12:30	6.823	213.7	8.8	5.208	29.25	0
2/29/20 12:45	7.723	203.4	6.706	5.106	29.25	0
2/29/20 13:00	6.029	201	13.07	5.06	29.25	0
2/29/20 13:15	5.916	167	17.84	5.098	29.25	0
2/29/20 13:30	5.058	148.9	15.71	5.287	29.25	0
2/29/20 13:45	5.968	145	17	5.467	29.25	0
2/29/20 14:00	3.881	139.2	15.68	5.655	29.26	0
2/29/20 14:15	3.34	106.1	30.12	6.068	29.26	0
2/29/20 14:30	2.568	121.2	30.5	5.851	29.26	0
2/29/20 14:45	3.531	93.8	20.65	5.971	29.26	0
2/29/20 15:00	4.249	99.6	11.14	5.873	29.25	0
2/29/20 15:15	4.011	95.7	14.16	6.14	29.25	0
2/29/20 15:30	4.598	100	10.41	5.956	29.25	0
2/29/20 15:45	4.318	117	12.84	6.121	29.25	0
2/29/20 16:00	3.925	127.2	14.11	6.573	29.27	0
2/29/20 16:15	2.976	87.7	17.52	6.421	29.27	0
2/29/20 16:30	3.565	95.9	11.65	6.352	29.27	0
2/29/20 16:45	3.569	62.64	14.49	6.174	29.27	0
2/29/20 17:00	5.298	54.29	9.96	5.963	29.27	0
2/29/20 17:15	4.538	90.3	34.53	5.761	29.27	0
2/29/20 17:30	3.329	68.38	92.8	5.158	29.27	0
2/29/20 17:45	5.814	63.95	31.39	3.81	29.27	0
2/29/20 18:00	6.198	71.84	41.06	2.372	29.33	0
2/29/20 18:15	5.678	83.8	18.24	1.769	29.33	0
2/29/20 18:30	4.636	60.27	9.36	1.805	29.33	0
2/29/20 18:45	2.6	65.42	14.59	2.044	29.33	0
2/29/20 19:00	3.228	123.7	21.95	1.77	29.34	0.01
2/29/20 19:15	6.312	115.8	7.142	1.899	29.34	0.03
2/29/20 19:30	7.176	122.8	8.22	1.954	29.34	0.02
2/29/20 19:45	5.811	135.7	8.17	2.146	29.34	0.02
2/29/20 20:00	5.31	162.6	11.53	1.914	29.33	0.01
2/29/20 20:15	5.28	166.7	11.58	1.692	29.33	0.01
2/29/20 20:30	3.725	153.1	13.9	1.496	29.33	0
2/29/20 20:45	5.18	141.2	13.27	1.495	29.33	0
2/29/20 21:00	6.589	136.2	6.736	1.438	29.36	0.01
2/29/20 21:15	5.214	130.6	7.067	1.322	29.36	0
2/29/20 21:30	5.05	127.1	6.928	1.134	29.36	0
2/29/20 21:45	5.36	131.4	6.215	0.953	29.36	0
2/29/20 22:00	4.461	132.1	6.579	0.985	29.37	0
2/29/20 22:15	3.707	149.4	11.33	0.881	29.37	0
2/29/20 22:30	2.615	117.7	16.85	0.704	29.37	0
2/29/20 22:45	3.001	94	21.2	0.77	29.37	0
2/29/20 23:00	2.514	69.22	15.07	0.927	29.39	0
2/29/20 23:15	1.701	78.88	21.93	1.517	29.39	0
2/29/20 23:30	2.521	59.23	34.13	1.693	29.39	0
2/29/20 23:45	2.491	44.85	18.55	1.117	29.39	0
3/1/20 0:00	1.827	149.1	56.21	1.797	29.41	0
3/1/20 0:15	2.25	117.7	31.77	1.15	29.41	0
3/1/20 0:30	2.043	165.8	30.86	1.314	29.41	0
3/1/20 0:45	3.345	90.9	30.27	0.898	29.41	0
3/1/20 1:00	2.895	161.9	23.18	0.868	29.4	0
3/1/20 1:15	2.035	260.1	46.36	1.399	29.4	0
3/1/20 1:30	2.037	314	20.21	1.34	29.4	0
3/1/20 1:45	0.413	81	14.02	1.589	29.4	0
3/1/20 2:00	0.403	284.6	26.96	1.77	29.45	0.01
3/1/20 2:15	0.423	41.16	18.02	1.612	29.45	0
3/1/20 2:30	0.331	69.48	0.211	1.152	29.45	0
3/1/20 2:45	2.68	82	8.56	0.877	29.45	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/1/20 3:00	2.116	60.66	8.38	1.323	29.44	0
3/1/20 3:15	2.188	61.22	4.016	1.094	29.44	0
3/1/20 3:30	2.193	50.43	10.75	1.382	29.44	0
3/1/20 3:45	2.759	45.83	6.547	1.221	29.44	0
3/1/20 4:00	3.242	25.29	11.19	1.288	29.47	0
3/1/20 4:15	3.378	19.47	4.108	1.401	29.47	0
3/1/20 4:30	3.249	27.33	3.046	1.406	29.47	0
3/1/20 4:45	2.465	41.42	13.2	1.348	29.47	0
3/1/20 5:00	1.681	52.82	41.65	1.418	29.46	0
3/1/20 5:15	0.637	100.2	25.07	1.181	29.46	0
3/1/20 5:30	0.334	40.39	27.1	1.164	29.46	0
3/1/20 5:45	1.6	22.14	7.643	1.192	29.46	0
3/1/20 6:00	1.698	14.44	6.735	1.225	29.49	0
3/1/20 6:15	1.683	45.76	17.27	0.916	29.49	0
3/1/20 6:30	0.713	26.39	11.69	1.062	29.49	0
3/1/20 6:45	0	0	0	1.273	29.49	0
3/1/20 7:00	0	0	0	1.125	29.51	0
3/1/20 7:15	0.54	164.6	2.015	1.397	29.51	0
3/1/20 7:30	2.996	184	14.11	1.409	29.51	0
3/1/20 7:45	3.127	217	23.59	1.272	29.51	0
3/1/20 8:00	1.549	181.8	33.07	1.474	29.51	0
3/1/20 8:15	0.519	101.5	64.75	1.709	29.51	0
3/1/20 8:30	2.368	293.8	12.35	1.96	29.51	0.02
3/1/20 8:45	1.715	284.6	6.137	2.083	29.51	0.01
3/1/20 9:00	0.616	257	19.92	3.189	29.54	0.01
3/1/20 9:15	1.637	223.8	41.97	3.845	29.54	0.03
3/1/20 9:30	2.414	260	21.08	3.712	29.54	0.02
3/1/20 9:45	2.483	265.2	20.25	3.446	29.54	0.02
3/1/20 10:00	4.578	294.6	8.81	3.331	29.56	0.01
3/1/20 10:15	4.582	293.2	11.59	3.307	29.56	0.01
3/1/20 10:30	3.248	272	9.88	3.382	29.56	0.02
3/1/20 10:45	1.939	182.7	46.54	3.713	29.56	0.01
3/1/20 11:00	3.053	175.2	19.91	3.816	29.55	0.02
3/1/20 11:15	2.668	173.6	19.54	4.188	29.55	0.01
3/1/20 11:30	4.061	205.2	25.72	4.347	29.55	0.01
3/1/20 11:45	2.734	194.1	39.35	4.327	29.55	0.01
3/1/20 12:00	2.483	151.5	25.89	4.475	29.58	0.01
3/1/20 12:15	4.055	199.9	21.21	4.97	29.58	0.01
3/1/20 12:30	3.121	222.1	20.28	5.038	29.58	0.01
3/1/20 12:45	2.107	208.4	29.07	5.321	29.58	0
3/1/20 13:00	3.761	169.1	22.08	5.948	29.54	0.01
3/1/20 13:15	4.299	155.9	41.1	5.781	29.54	0.01
3/1/20 13:30	4.217	198	22.41	6.039	29.54	0
3/1/20 13:45	2.615	220.2	13.82	5.78	29.54	0
3/1/20 14:00	2.387	163.7	34.55	5.985	29.55	0
3/1/20 14:15	4.435	154.4	19.1	5.829	29.55	0
3/1/20 14:30	2.936	167.4	24.52	5.936	29.55	0
3/1/20 14:45	3.435	193.9	16.22	5.985	29.55	0
3/1/20 15:00	3.9	216.1	22.35	6.074	29.54	0
3/1/20 15:15	3.841	220	18.56	6.205	29.54	0
3/1/20 15:30	4.319	204.6	7.412	6.102	29.54	0
3/1/20 15:45	3.927	198.6	10.85	6.163	29.54	0
3/1/20 16:00	3.824	188.7	17.3	6.211	29.55	0
3/1/20 16:15	4.468	205.5	20.79	6.326	29.55	0
3/1/20 16:30	2.984	209.7	19.94	6.392	29.55	0
3/1/20 16:45	4.027	195.1	18.75	6.352	29.55	0
3/1/20 17:00	4.209	218.2	24.28	6.322	29.54	0
3/1/20 17:15	4.95	230.6	6.318	6.299	29.54	0
3/1/20 17:30	3.852	238.6	9.11	6.266	29.54	0
3/1/20 17:45	2.392	247.7	9.48	6.18	29.54	0
3/1/20 18:00	1.941	264.6	9.65	6.089	29.55	0
3/1/20 18:15	2.276	266.6	22.78	6.029	29.55	0
3/1/20 18:30	6.869	271.5	24.34	5.734	29.55	0
3/1/20 18:45	6.455	240.1	13.85	5.418	29.55	0
3/1/20 19:00	6.01	252.9	17.69	5.051	29.54	0
3/1/20 19:15	3.899	229.7	12.63	4.996	29.54	0.01
3/1/20 19:30	2.154	137.7	46.44	4.537	29.54	0
3/1/20 19:45	2.499	110.1	13.28	3.957	29.54	0
3/1/20 20:00	2.126	117.1	16.92	3.912	29.53	0
3/1/20 20:15	2.473	158.5	41.19	4.236	29.53	0
3/1/20 20:30	1.066	324	64.62	4.018	29.53	0
3/1/20 20:45	1.545	109.8	16.73	3.591	29.53	0
3/1/20 21:00	2.534	119.9	13.67	3.352	29.51	0
3/1/20 21:15	0.883	95.5	7.325	3.41	29.51	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/1/20 21:30	2.429	133.3	15.3	3.468	29.51	0
3/1/20 21:45	3.028	137.8	12.21	3.433	29.51	0
3/1/20 22:00	2.664	145.1	13.79	3.423	29.51	0
3/1/20 22:15	2.671	136.4	9.15	3.403	29.51	0
3/1/20 22:30	3.468	147.4	6.975	3.491	29.51	0
3/1/20 22:45	4.219	149.8	7.055	3.534	29.51	0
3/1/20 23:00	3.344	138.8	12.22	3.517	29.53	0
3/1/20 23:15	3.302	141.5	10.29	3.457	29.53	0
3/1/20 23:30	4.252	132.5	8.52	3.497	29.53	0
3/1/20 23:45	4.866	141.7	12.79	3.602	29.53	0
3/2/20 0:00	5.213	160.4	12.7	3.616	29.53	0
3/2/20 0:15	6.044	169.9	10.5	3.623	29.53	0
3/2/20 0:30	6.72	168.4	9.26	3.554	29.53	0
3/2/20 0:45	7.082	164	10.98	3.667	29.53	0
3/2/20 1:00	8.01	158.9	11.9	3.627	29.52	0
3/2/20 1:15	8.17	165.7	12.26	3.654	29.52	0
3/2/20 1:30	8.16	155.8	8.95	3.507	29.52	0
3/2/20 1:45	8.37	170.5	8.23	3.663	29.52	0
3/2/20 2:00	6.161	146.3	13.53	3.546	29.51	0
3/2/20 2:15	4.888	130.6	10.67	3.477	29.51	0
3/2/20 2:30	5.966	146.6	10.14	3.528	29.51	0
3/2/20 2:45	6.176	160.3	11.48	3.597	29.51	0
3/2/20 3:00	5.714	156.2	10.21	3.495	29.5	0
3/2/20 3:15	5.904	151.1	12	3.406	29.5	0
3/2/20 3:30	5.268	137.1	11.22	3.234	29.5	0
3/2/20 3:45	5.673	132.3	7.458	3.161	29.5	0
3/2/20 4:00	6.132	133.5	7.385	3.219	29.48	0
3/2/20 4:15	6.754	140.8	7.136	3.341	29.48	0
3/2/20 4:30	5.771	133.9	9.43	3.218	29.48	0.01
3/2/20 4:45	5.799	130	6.906	3.08	29.48	0
3/2/20 5:00	5.65	130	8.4	2.949	29.48	0
3/2/20 5:15	6.333	133.5	8.93	2.842	29.48	0.01
3/2/20 5:30	6.741	128.9	7.941	2.794	29.48	0.01
3/2/20 5:45	6.934	133.1	8.63	2.795	29.48	0.01
3/2/20 6:00	6.603	130.4	7.892	2.811	29.47	0
3/2/20 6:15	7.624	139.3	7.439	2.83	29.47	0
3/2/20 6:30	7.114	135.8	8.69	2.848	29.47	0.01
3/2/20 6:45	6.835	131.3	7.604	2.83	29.47	0.01
3/2/20 7:00	7.058	132.6	7.88	2.819	29.45	0
3/2/20 7:15	6.953	126.7	8.05	2.869	29.45	0.01
3/2/20 7:30	6.332	117.8	11.12	2.907	29.45	0
3/2/20 7:45	6.962	106.3	9.34	2.922	29.45	0
3/2/20 8:00	6.579	109.4	9.82	3.129	29.44	0
3/2/20 8:15	6.008	112.3	10.59	3.486	29.44	0.01
3/2/20 8:30	6.412	127.8	9.78	3.863	29.44	0
3/2/20 8:45	6.643	133.3	10.17	4.083	29.44	0
3/2/20 9:00	5.766	133.3	7.959	4.21	29.44	0.01
3/2/20 9:15	5.198	131.8	8.35	4.308	29.44	0
3/2/20 9:30	5.331	130.2	9.18	4.363	29.44	0.01
3/2/20 9:45	7.432	143.2	7.763	4.641	29.44	0
3/2/20 10:00	7.904	141.9	7.2	4.71	29.43	0
3/2/20 10:15	7.179	137.3	9.34	4.972	29.43	0
3/2/20 10:30	7.841	143.7	10.41	5.189	29.43	0
3/2/20 10:45	6.268	137.7	10.38	5.331	29.43	0
3/2/20 11:00	5.031	136.1	9.65	5.464	29.43	0
3/2/20 11:15	5.425	134.7	9.6	5.64	29.43	0
3/2/20 11:30	6.051	142.6	10.48	5.718	29.43	0
3/2/20 11:45	5.988	132.9	13.05	5.818	29.43	0
3/2/20 12:00	7.16	141	8.64	5.871	29.45	0
3/2/20 12:15	8.56	141.7	8.71	5.922	29.45	0.01
3/2/20 12:30	10.11	147.1	6.761	5.851	29.45	0.01
3/2/20 12:45	11.01	146.5	7.178	5.781	29.45	0.02
3/2/20 13:00	10.72	144.2	5.99	5.756	29.42	0.02
3/2/20 13:15	11.32	148.2	8.27	5.804	29.42	0.02
3/2/20 13:30	11.77	152.7	7.463	5.87	29.42	0.01
3/2/20 13:45	11.39	154.8	7.887	5.953	29.42	0.01
3/2/20 14:00	11.5	152.6	8.79	5.948	29.38	0.01
3/2/20 14:15	11.42	152.3	7.905	5.972	29.38	0.02
3/2/20 14:30	11.74	151.8	7.522	6.053	29.38	0
3/2/20 14:45	13.26	152.2	7.685	6.098	29.38	0
3/2/20 15:00	12.67	156.1	9.11	6.166	29.39	0.01
3/2/20 15:15	11.04	157	11.09	6.27	29.39	0
3/2/20 15:30	10.02	149.8	8.36	6.22	29.39	0.01
3/2/20 15:45	9.12	143.8	8.97	6.206	29.39	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/2/20 16:00	10.51	145.7	8.6	6.302	29.37	0
3/2/20 16:15	11.14	149	8.1	6.304	29.37	0
3/2/20 16:30	12.93	154.5	7.465	6.369	29.37	0
3/2/20 16:45	10.62	145.8	7.512	6.279	29.37	0
3/2/20 17:00	9.73	144.6	8.56	6.366	29.36	0
3/2/20 17:15	8.43	137.7	8.07	6.465	29.36	0
3/2/20 17:30	7.643	138.5	7.743	6.629	29.36	0
3/2/20 17:45	8.05	138	7.962	6.682	29.36	0
3/2/20 18:00	10.44	145.2	6.898	6.858	29.36	0
3/2/20 18:15	9.25	156.8	11.29	6.977	29.36	0
3/2/20 18:30	10.64	168.3	9.3	7.348	29.36	0
3/2/20 18:45	9.15	160	11.37	7.262	29.36	0
3/2/20 19:00	9.5	157.9	12.55	7.299	29.33	0
3/2/20 19:15	11.7	175.6	13.1	7.597	29.33	0
3/2/20 19:30	11.18	175.6	11.35	7.795	29.33	0
3/2/20 19:45	10.87	171.3	12.84	7.763	29.33	0
3/2/20 20:00	9.91	171.8	14.19	7.757	29.37	0
3/2/20 20:15	10.9	171.2	12.9	7.827	29.37	0
3/2/20 20:30	9.1	176.4	11.8	7.748	29.37	0
3/2/20 20:45	11.03	185.2	20.06	7.78	29.37	0
3/2/20 21:00	11.84	177.2	12.31	7.828	29.35	0
3/2/20 21:15	12.19	189.1	11.98	7.84	29.35	0
3/2/20 21:30	12.68	188.5	9.94	7.844	29.35	0
3/2/20 21:45	12.38	186.8	13.82	7.902	29.35	0
3/2/20 22:00	11.57	182.1	11.74	7.909	29.34	0
3/2/20 22:15	14.11	184.8	11.92	8.01	29.34	0
3/2/20 22:30	9.84	197.6	16.33	7.954	29.34	0
3/2/20 22:45	9.08	188.1	11.27	7.883	29.34	0
3/2/20 23:00	10.54	188.5	11.52	7.852	29.37	0
3/2/20 23:15	10.45	184.9	12.11	7.896	29.37	0
3/2/20 23:30	9.15	193.7	13.4	7.868	29.37	0
3/2/20 23:45	10.13	185.4	16.14	7.904	29.37	0
3/3/20 0:00	9.52	181.1	11.24	7.87	29.34	0
3/3/20 0:15	10.39	180.4	10.11	7.835	29.34	0
3/3/20 0:30	10.01	181.7	11.22	7.837	29.34	0
3/3/20 0:45	10.7	175.4	12.8	7.876	29.34	0
3/3/20 1:00	9.48	180.5	12.21	7.845	29.34	0
3/3/20 1:15	8.72	176.6	11.29	7.877	29.34	0
3/3/20 1:30	10.36	186.1	10.1	7.857	29.34	0
3/3/20 1:45	10.57	185.8	8.21	7.843	29.34	0
3/3/20 2:00	10.06	189.5	9.41	7.842	29.36	0
3/3/20 2:15	10.9	188.5	11	7.837	29.36	0
3/3/20 2:30	9.2	185.8	9.6	7.722	29.36	0
3/3/20 2:45	8.63	193.1	8.31	7.56	29.36	0.01
3/3/20 3:00	9.01	194.7	9.32	7.345	29.34	0
3/3/20 3:15	7.725	186.8	9.04	7.173	29.34	0.01
3/3/20 3:30	8.4	183.7	11.93	7.22	29.34	0
3/3/20 3:45	8.81	185.6	10.25	7.302	29.34	0
3/3/20 4:00	7.539	192.3	10.02	7.294	29.36	0.01
3/3/20 4:15	8.39	184.2	9.88	7.276	29.36	0
3/3/20 4:30	7.485	178.4	10.12	7.225	29.36	0.01
3/3/20 4:45	6.454	177.6	8.29	7.177	29.36	0.01
3/3/20 5:00	6.19	175.3	13.42	7.187	29.37	0.01
3/3/20 5:15	5.006	194.1	16.16	7.196	29.37	0.01
3/3/20 5:30	3.892	200.9	19.67	7.222	29.37	0.03
3/3/20 5:45	5.127	181	13.66	7.163	29.37	0.01
3/3/20 6:00	6.989	181.4	7.312	7.129	29.37	0.02
3/3/20 6:15	6.551	196.9	14.63	7.109	29.37	0.02
3/3/20 6:30	9.36	199.5	14.15	7.094	29.37	0.01
3/3/20 6:45	9.32	184.3	7.342	7.05	29.37	0
3/3/20 7:00	9.61	189	11	7.076	29.39	0
3/3/20 7:15	8.9	190.2	10.47	7.054	29.39	0.01
3/3/20 7:30	7.632	175.9	9.08	7.002	29.39	0
3/3/20 7:45	8.21	190.1	8.46	6.959	29.39	0
3/3/20 8:00	7.889	191.5	7.652	6.887	29.37	0
3/3/20 8:15	9.94	208.1	11.58	6.798	29.37	0
3/3/20 8:30	8.42	201.1	9.68	6.879	29.37	0
3/3/20 8:45	6.034	183	13.8	6.949	29.37	0
3/3/20 9:00	7.652	176	9.3	7.342	29.39	0
3/3/20 9:15	8.19	176.1	9.17	7.498	29.39	0
3/3/20 9:30	9.52	179.2	11.12	7.441	29.39	0
3/3/20 9:45	11.15	185.4	11.45	7.557	29.39	0
3/3/20 10:00	9.74	182.3	10.47	7.892	29.38	0
3/3/20 10:15	10.4	192	10.37	7.94	29.38	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/3/20 10:30	10.61	193.9	12.84	7.996	29.38	0
3/3/20 10:45	11.51	186.8	13.04	8.3	29.38	0
3/3/20 11:00	11.46	182.8	11.33	8.58	29.35	0
3/3/20 11:15	9.84	188.1	13.91	8.74	29.35	0
3/3/20 11:30	8.66	200.9	11.17	9.12	29.35	0
3/3/20 11:45	9.81	190.8	16.01	9.27	29.35	0
3/3/20 12:00	11.3	211.1	17.92	9.6	29.33	0
3/3/20 12:15	13.42	212.5	11.04	9.54	29.33	0
3/3/20 12:30	14.64	197.6	11.47	10.46	29.33	0
3/3/20 12:45	13.84	192.5	11.16	10.55	29.33	0
3/3/20 13:00	13.2	179.8	10.84	10.65	29.31	0
3/3/20 13:15	15.43	215.9	13.76	10.83	29.31	0
3/3/20 13:30	12.06	226.3	10.2	10.4	29.31	0
3/3/20 13:45	13.71	216	8.14	10.36	29.31	0
3/3/20 14:00	13.08	202.6	7.996	10.44	29.3	0
3/3/20 14:15	11.29	232.4	20.83	10.32	29.3	0
3/3/20 14:30	12.57	250.2	11.3	9.38	29.3	0
3/3/20 14:45	13.63	238.4	11.08	9.12	29.3	0
3/3/20 15:00	13.76	223.7	9.61	9.09	29.28	0
3/3/20 15:15	12.64	226.5	9.35	9.08	29.28	0
3/3/20 15:30	10.72	216.8	9.4	9.07	29.28	0
3/3/20 15:45	10.52	217.8	14.6	9.11	29.28	0
3/3/20 16:00	10.39	226.3	9.12	9.19	29.27	0
3/3/20 16:15	12.53	241.5	11.89	8.91	29.27	0.01
3/3/20 16:30	15.05	238.2	8.55	8.02	29.27	0.01
3/3/20 16:45	14.18	229.7	9.31	7.662	29.27	0
3/3/20 17:00	12.44	226.4	10.19	7.558	29.27	0.01
3/3/20 17:15	12.08	227.8	9.11	7.538	29.27	0
3/3/20 17:30	15.37	215.8	9.12	7.609	29.27	0
3/3/20 17:45	13.03	231.4	9.8	7.403	29.27	0
3/3/20 18:00	14.34	224.9	12.33	7.215	29.25	0
3/3/20 18:15	12.05	218.2	8.14	6.881	29.25	0
3/3/20 18:30	11.87	223.8	9.64	6.65	29.25	0.01
3/3/20 18:45	15.66	225.9	8.1	6.441	29.25	0
3/3/20 19:00	15.53	214.5	9.19	6.492	29.26	0
3/3/20 19:15	12.32	197.2	10.45	6.657	29.26	0
3/3/20 19:30	10.78	189.7	9.82	6.644	29.26	0
3/3/20 19:45	13.34	195.6	8.36	6.695	29.26	0
3/3/20 20:00	12.5	178.5	10.14	6.59	29.25	0
3/3/20 20:15	10.75	160.9	7.941	6.467	29.25	0
3/3/20 20:30	11.27	150.2	8.7	6.394	29.25	0.01
3/3/20 20:45	12.48	159.3	10.31	6.515	29.25	0.01
3/3/20 21:00	12.5	154.5	7.54	6.498	29.25	0
3/3/20 21:15	11.44	158.1	11.15	6.509	29.25	0
3/3/20 21:30	15.08	171.1	8.14	6.529	29.25	0.01
3/3/20 21:45	13.88	175.2	9.66	6.58	29.25	0.01
3/3/20 22:00	14.33	177.9	8.21	6.593	29.24	0
3/3/20 22:15	14.8	175.4	8.45	6.628	29.24	0
3/3/20 22:30	13.79	173.3	9.83	6.676	29.24	0
3/3/20 22:45	13.7	170.7	10.17	6.756	29.24	0.01
3/3/20 23:00	14.61	173.9	7.933	6.81	29.24	0
3/3/20 23:15	16.4	180.1	11.32	6.814	29.24	0
3/3/20 23:30	18.27	190.9	13.7	6.985	29.24	0
3/3/20 23:45	16.54	214.2	11.83	7.039	29.24	0
3/4/20 0:00	15.53	204.4	9.81	6.926	29.24	0
3/4/20 0:15	15.81	190.3	11.46	6.835	29.24	0
3/4/20 0:30	12.87	191.9	13.1	6.63	29.24	0
3/4/20 0:45	11.49	196.3	8.99	6.43	29.24	0
3/4/20 1:00	10.17	183.3	8.37	6.181	29.29	0
3/4/20 1:15	7.659	192.2	11.28	6.075	29.29	0
3/4/20 1:30	8.24	187.8	10.7	6.007	29.29	0
3/4/20 1:45	9.56	196.3	9.1	5.94	29.29	0
3/4/20 2:00	10.39	199.1	10.14	5.885	29.29	0
3/4/20 2:15	11.99	198.5	9.64	5.907	29.29	0
3/4/20 2:30	8.7	188	11.22	5.631	29.29	0
3/4/20 2:45	7.974	188.4	13.7	5.546	29.29	0
3/4/20 3:00	5.85	177.7	13.63	5.35	29.32	0
3/4/20 3:15	7.521	185.6	10.76	5.372	29.32	0
3/4/20 3:30	8.85	190.8	8.69	5.354	29.32	0
3/4/20 3:45	9.34	190.8	9.06	5.256	29.32	0
3/4/20 4:00	7.288	186.3	10.3	5.291	29.35	0
3/4/20 4:15	6.616	182.4	14.9	5.176	29.35	0
3/4/20 4:30	6.71	172.2	8.07	5.01	29.35	0
3/4/20 4:45	6.716	174.3	7.678	4.768	29.35	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/4/20 5:00	5.04	173.1	10.62	4.551	29.37	0
3/4/20 5:15	7.101	172.4	8.86	4.381	29.37	0
3/4/20 5:30	8.89	176.1	6.015	4.438	29.37	0
3/4/20 5:45	8.62	173.4	8.18	4.482	29.37	0
3/4/20 6:00	6.557	183.3	9.52	4.435	29.39	0
3/4/20 6:15	7.558	180.5	7.88	4.47	29.39	0
3/4/20 6:30	6.318	171.5	11.72	4.337	29.39	0
3/4/20 6:45	3.828	139.5	37.96	4.348	29.39	0
3/4/20 7:00	2.728	137.7	21.89	4.281	29.42	0
3/4/20 7:15	4.706	143.7	23.25	4.372	29.42	0
3/4/20 7:30	6.153	152.2	17.58	4.594	29.42	0
3/4/20 7:45	6.475	139.6	8.59	4.581	29.42	0
3/4/20 8:00	6.356	134.1	8.98	4.609	29.44	0
3/4/20 8:15	6.413	133	8.77	4.604	29.44	0
3/4/20 8:30	6.773	135.6	7.719	4.651	29.44	0
3/4/20 8:45	7.684	140.8	10.96	4.825	29.44	0
3/4/20 9:00	8.47	145.8	9.76	5	29.45	0
3/4/20 9:15	7.786	153	12	5.284	29.45	0
3/4/20 9:30	7.396	149	10.05	5.423	29.45	0
3/4/20 9:45	8.99	154	12.5	5.522	29.45	0
3/4/20 10:00	8.61	168.7	21.38	5.632	29.49	0
3/4/20 10:15	8.77	187.2	9.94	5.628	29.49	0
3/4/20 10:30	7.758	187.2	11.58	6.069	29.49	0
3/4/20 10:45	7.723	167.9	15.87	6.39	29.49	0
3/4/20 11:00	6.428	158.4	28.78	6.925	29.49	0
3/4/20 11:15	4.877	186	21.34	6.864	29.49	0
3/4/20 11:30	5.919	197.6	13.78	6.827	29.49	0
3/4/20 11:45	5.838	205.6	16.95	7.284	29.49	0
3/4/20 12:00	6.676	180	28.76	7.825	29.48	0
3/4/20 12:15	7.678	184.2	25.45	7.826	29.48	0
3/4/20 12:30	6.655	187.6	16.57	8.17	29.48	0
3/4/20 12:45	3.976	204.7	22.53	8.29	29.48	0
3/4/20 13:00	4.717	227.7	23.73	8.52	29.44	0
3/4/20 13:15	6.523	133.3	31.75	8.57	29.44	0
3/4/20 13:30	4.526	224.1	15.23	8.26	29.44	0
3/4/20 13:45	1.488	34.04	68.01	8.29	29.44	0
3/4/20 14:00	2.809	357.3	46.31	9.29	29.44	0
3/4/20 14:15	2.15	297.8	33.14	9.35	29.44	0
3/4/20 14:30	3.216	231.2	31.3	9.75	29.44	0
3/4/20 14:45	2.036	284.3	74.23	9.55	29.44	0
3/4/20 15:00	3.441	201	42.37	9.95	29.42	0
3/4/20 15:15	5.516	167.9	35.36	9.68	29.42	0
3/4/20 15:30	7.394	194.8	16.26	9.5	29.42	0
3/4/20 15:45	6.576	194.3	12.61	9.67	29.42	0
3/4/20 16:00	4.739	216.1	17.01	9.83	29.4	0
3/4/20 16:15	5.35	218.2	18.97	9.83	29.4	0
3/4/20 16:30	2.943	240	43.49	9.87	29.4	0
3/4/20 16:45	3.477	246.3	46.54	9.95	29.4	0
3/4/20 17:00	4.575	223.5	16.18	9.65	29.38	0
3/4/20 17:15	5.098	228.5	10.21	9.48	29.38	0
3/4/20 17:30	4.847	241.9	12.14	9.09	29.38	0
3/4/20 17:45	3.786	267.2	6.544	8.64	29.38	0
3/4/20 18:00	2.256	286	8.09	8.5	29.34	0
3/4/20 18:15	1.933	14.53	26.18	7.769	29.34	0
3/4/20 18:30	2.136	32.57	10.14	7.619	29.34	0
3/4/20 18:45	1.64	12.7	13.07	7.577	29.34	0
3/4/20 19:00	2.235	354.2	16.53	7.311	29.37	0
3/4/20 19:15	2.694	36.22	11.66	6.635	29.37	0
3/4/20 19:30	3.35	67.42	9.21	6.363	29.37	0
3/4/20 19:45	3.206	85.8	10.29	5.86	29.37	0
3/4/20 20:00	3.318	113.5	6.027	5.767	29.33	0
3/4/20 20:15	2.333	145.8	21.32	5.69	29.33	0
3/4/20 20:30	4.101	179.7	11.1	5.965	29.33	0
3/4/20 20:45	2.782	167.3	44.69	5.51	29.33	0
3/4/20 21:00	1.571	98	18.37	4.906	29.29	0
3/4/20 21:15	2.102	100	7.019	5.488	29.29	0
3/4/20 21:30	2.137	104.3	13.74	5.244	29.29	0
3/4/20 21:45	3.204	125.8	5.587	4.644	29.29	0
3/4/20 22:00	3.232	132.4	10.88	5.591	29.28	0
3/4/20 22:15	2.807	118	9.65	5.797	29.28	0
3/4/20 22:30	4.24	110.1	6.483	4.752	29.28	0
3/4/20 22:45	5.589	111	5.084	5.221	29.28	0
3/4/20 23:00	3.895	115.1	10.29	5.881	29.27	0
3/4/20 23:15	0.7	106	2.68	5.65	29.27	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/4/20 23:30	0.309	62.21	35.51	5.608	29.27	0
3/4/20 23:45	2.525	45.83	21.21	4.584	29.27	0
3/5/20 0:00	1.795	21.05	12.24	4.225	29.25	0
3/5/20 0:15	0.992	310.8	52.19	5.809	29.25	0
3/5/20 0:30	2.04	161.5	48.83	6.624	29.25	0
3/5/20 0:45	2.477	24.17	12.89	5.107	29.25	0
3/5/20 1:00	2.761	42.99	11.85	4.667	29.25	0
3/5/20 1:15	3.91	89.8	23.25	5.556	29.25	0
3/5/20 1:30	5.782	130	9.68	6.379	29.25	0
3/5/20 1:45	6.384	157.3	6.872	6.529	29.25	0
3/5/20 2:00	6.563	169.5	7.689	6.906	29.25	0
3/5/20 2:15	5.224	179.2	7.245	6.032	29.25	0
3/5/20 2:30	4.809	184.7	11.62	5.519	29.25	0
3/5/20 2:45	4.101	156.4	12.87	5.869	29.25	0
3/5/20 3:00	3.848	144.7	8.16	6.309	29.21	0
3/5/20 3:15	6.085	147.3	7.182	6.542	29.21	0
3/5/20 3:30	6.233	135.5	7.911	6.509	29.21	0
3/5/20 3:45	5.998	131.2	7.988	6.757	29.21	0
3/5/20 4:00	6.499	136.8	9.97	7.049	29.18	0
3/5/20 4:15	7.149	136.3	7.167	6.835	29.18	0
3/5/20 4:30	8.42	151.2	12.54	7.039	29.18	0
3/5/20 4:45	9.51	153.5	10.59	6.967	29.18	0
3/5/20 5:00	8.97	142.3	6.374	7.142	29.18	0
3/5/20 5:15	9.22	143.8	6.473	7.171	29.18	0
3/5/20 5:30	8.32	141.9	6.314	7.077	29.18	0
3/5/20 5:45	7.125	137.4	7.708	6.897	29.18	0
3/5/20 6:00	8.42	142.9	6.447	6.943	29.18	0
3/5/20 6:15	7.855	143.4	8.38	7.108	29.18	0
3/5/20 6:30	7.839	154.6	7.011	6.922	29.18	0
3/5/20 6:45	7.36	158.6	7.758	6.34	29.18	0
3/5/20 7:00	6.166	165.9	8.41	6.388	29.16	0
3/5/20 7:15	6.002	151.8	9.44	6.607	29.16	0
3/5/20 7:30	6.354	168.6	16.04	6.752	29.16	0
3/5/20 7:45	6.807	164	15.69	6.561	29.16	0
3/5/20 8:00	6.176	168.7	14.15	6.994	29.17	0
3/5/20 8:15	6.859	193.7	6.17	6.457	29.17	0
3/5/20 8:30	7.704	193.8	7.839	6.663	29.17	0
3/5/20 8:45	6.928	204	15.99	7.181	29.17	0
3/5/20 9:00	7.325	239.1	8.11	7.134	29.18	0
3/5/20 9:15	8.24	240.2	5.744	7.21	29.18	0
3/5/20 9:30	7.311	249.3	7.483	7.337	29.18	0
3/5/20 9:45	5.138	262.4	11.8	7.82	29.18	0
3/5/20 10:00	4.971	273.2	23	8.4	29.2	0
3/5/20 10:15	8.62	231.7	17.62	8.53	29.2	0
3/5/20 10:30	10.66	226.8	13.67	8.31	29.2	0
3/5/20 10:45	9.99	217.5	9.41	8.46	29.2	0
3/5/20 11:00	6.595	204.9	12.15	8.79	29.2	0
3/5/20 11:15	5.81	178.9	17.58	9.26	29.2	0
3/5/20 11:30	4.172	205	31.59	9.81	29.2	0
3/5/20 11:45	3.721	188.6	49.66	10.23	29.2	0
3/5/20 12:00	6.079	200.9	46.85	10.63	29.19	0
3/5/20 12:15	6.672	215	27.22	10.85	29.19	0
3/5/20 12:30	6.598	218.2	38.55	11.04	29.19	0
3/5/20 12:45	11.17	212.8	21.45	11.31	29.19	0
3/5/20 13:00	12.11	207.3	15.41	11.62	29.18	0
3/5/20 13:15	16.01	215.7	13.56	11.98	29.18	0
3/5/20 13:30	21.36	217.2	10.16	11.91	29.18	0
3/5/20 13:45	15.18	213.9	12.67	12.18	29.18	0
3/5/20 14:00	13.61	220.5	12.5	12.23	29.16	0
3/5/20 14:15	16.37	210.1	12.62	12.32	29.16	0
3/5/20 14:30	17.99	214.4	13.17	11.98	29.16	0
3/5/20 14:45	14.58	218.4	10.55	11.81	29.16	0
3/5/20 15:00	13.27	219.7	11.1	11.62	29.16	0
3/5/20 15:15	12.77	216.5	11.44	11.66	29.16	0
3/5/20 15:30	12.67	213.5	10.31	11.69	29.16	0
3/5/20 15:45	10.47	213.8	10.3	11.65	29.16	0
3/5/20 16:00	15.34	216.4	9.44	11.63	29.13	0
3/5/20 16:15	11.22	214.2	13.09	11.65	29.13	0
3/5/20 16:30	13.7	211.5	9.07	11.63	29.13	0
3/5/20 16:45	15.59	209.5	12.05	11.53	29.13	0
3/5/20 17:00	15.73	221.3	11.77	11.38	29.15	0
3/5/20 17:15	13.86	226.9	8.31	11.22	29.15	0
3/5/20 17:30	12.67	226.2	8.45	11.18	29.15	0
3/5/20 17:45	15.3	212.1	9.17	11.2	29.15	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
3/5/20 18:00	12.65	217.7	7.884	11.08	29.13	0
3/5/20 18:15	14.15	217.3	8.01	11.02	29.13	0
3/5/20 18:30	15.18	213.5	8.74	10.94	29.13	0
3/5/20 18:45	16.05	217	8.29	10.86	29.13	0
3/5/20 19:00	12.74	212.7	7.66	10.7	29.14	0
3/5/20 19:15	9.85	211.8	7.509	10.57	29.14	0
3/5/20 19:30	10.26	213.9	8.52	10.49	29.14	0
3/5/20 19:45	13.51	230	19.31	10.26	29.14	0
3/5/20 20:00	13.89	259.3	7.97	8.38	29.15	0
3/5/20 20:15	12.02	260.3	9.93	7.617	29.15	0.01
3/5/20 20:30	11.47	261.5	8.93	6.931	29.15	0
3/5/20 20:45	6.904	261.7	10.48	6.611	29.15	0
3/5/20 21:00	6.029	251.9	11.32	6.496	29.16	0
3/5/20 21:15	5.805	243.6	15.02	6.277	29.16	0
3/5/20 21:30	4.218	217.5	17.41	6.085	29.16	0
3/5/20 21:45	4.869	188.6	17.14	5.899	29.16	0.01
3/5/20 22:00	5.85	191.8	16.96	5.732	29.18	0
3/5/20 22:15	5.694	180	15.04	5.623	29.18	0.01
3/5/20 22:30	5.568	176.2	10.49	5.525	29.18	0.02
3/5/20 22:45	5.834	174.7	9.11	5.454	29.18	0.02
3/5/20 23:00	6.244	180.5	10.66	5.446	29.16	0.01
3/5/20 23:15	6.939	180.1	7.984	5.353	29.16	0.02
3/5/20 23:30	6.421	186.8	9.98	5.301	29.16	0.03
3/5/20 23:45	6.612	200.7	13.5	5.277	29.16	0.02
3/6/20 0:00	5.745	226.8	7.353	5.073	29.19	0.02
3/6/20 0:15	5.179	217.9	8.97	4.911	29.19	0.02
3/6/20 0:30	4.872	206.9	8.47	4.888	29.19	0.02
3/6/20 0:45	2.788	209.3	5.748	4.842	29.19	0.02
3/6/20 1:00	2.236	178	46.89	4.86	29.18	0.01
3/6/20 1:15	5.284	163.2	16.24	4.867	29.18	0.02
3/6/20 1:30	8.34	179.6	6.301	4.81	29.18	0.01
3/6/20 1:45	8.65	179.5	5.87	4.698	29.18	0.02
3/6/20 2:00	8.27	181.7	6.22	4.617	29.18	0.01
3/6/20 2:15	8.26	178.6	8.68	4.576	29.18	0.01
3/6/20 2:30	7.719	153.6	9.36	4.492	29.18	0.01
3/6/20 2:45	5.938	145.7	8.3	4.355	29.18	0.02
3/6/20 3:00	4.937	125.1	7.853	4.316	29.16	0.01
3/6/20 3:15	5.514	159.8	51.77	4.118	29.16	0.03
3/6/20 3:30	6.254	239.8	10.34	3.838	29.16	0.03
3/6/20 3:45	5.951	259.5	7.816	3.778	29.16	0.03
3/6/20 4:00	4.588	275.2	8.21	3.666	29.16	0.02
3/6/20 4:15	3.324	289.2	12.17	3.538	29.16	0.02
3/6/20 4:30	1.227	40.22	52.34	3.44	29.16	0.02
3/6/20 4:45	1.669	82.3	28.98	3.354	29.16	0.03
3/6/20 5:00	3.854	130	10.99	3.17	29.16	0.03
3/6/20 5:15	3.283	187.2	49.45	3.21	29.16	0.01
3/6/20 5:30	5.057	198.9	14.35	3.123	29.16	0.02
3/6/20 5:45	4.479	196.5	8.54	2.995	29.16	0.02
3/6/20 6:00	2.837	167.2	17.5	2.763	29.16	0.01
3/6/20 6:15	3.432	135.9	9.86	2.708	29.16	0.01
3/6/20 6:30	4.816	138.2	8.77	2.636	29.16	0.01
3/6/20 6:45	3.917	121	15.18	2.494	29.16	0
3/6/20 7:00	5.477	109.6	7.316	2.248	29.16	0.01
3/6/20 7:15	6.705	110.2	9.62	2.191	29.16	0.01
3/6/20 7:30	4.554	118.8	15.25	2.24	29.16	0
3/6/20 7:45	3.194	128.7	11.32	2.329	29.16	0
3/6/20 8:00	2.306	131.3	16.78	2.431	29.18	0.01
3/6/20 8:15	2.182	128.1	12.72	2.489	29.18	0
3/6/20 8:30	2.306	175	22.9	2.613	29.18	0.01
3/6/20 8:45	0.99	197.3	26.18	2.674	29.18	0.01
3/6/20 9:00	1.539	159.6	30.68	2.765	29.2	0.02
3/6/20 9:15	1.712	290.3	23.62	2.838	29.2	0.01
3/6/20 9:30	2.307	289	14.55	2.724	29.2	0
3/6/20 9:45	2.636	311	13.1	2.664	29.2	0.02
3/6/20 10:00	1.091	314.3	17.91	2.693	29.2	0
3/6/20 10:15	0.239	297.7	21.9	2.75	29.2	0.01
3/6/20 10:30	1.392	12.7	13.54	2.912	29.2	0
3/6/20 10:45	1.307	38.57	19.28	2.898	29.2	0.01
3/6/20 11:00	0.721	62.33	22.22	2.98	29.2	0
3/6/20 11:15	1.218	68.41	14.11	3.045	29.2	0.01
3/6/20 11:30	1.092	99.2	44.97	3.205	29.2	0
3/6/20 11:45	0.711	45.82	39.82	3.267	29.2	0.01
3/6/20 12:00	0.831	249.1	51.87	3.336	29.19	0.01
3/6/20 12:15	0.967	105.6	20.44	3.53	29.19	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/6/20 12:30	2.83	82.6	15.03	3.273	29.19	0.01
3/6/20 12:45	3.649	101.9	20.26	3.458	29.19	0
3/6/20 13:00	5.153	107.8	10.03	3.535	29.16	0
3/6/20 13:15	4.363	114.1	14.07	3.706	29.16	0
3/6/20 13:30	3.461	150.6	15.32	4.036	29.16	0
3/6/20 13:45	2.77	189.7	22.88	4.334	29.16	0
3/6/20 14:00	3.059	212.9	20.8	4.297	29.14	0
3/6/20 14:15	3.753	196	13.92	4.419	29.14	0
3/6/20 14:30	2.821	212.2	22.81	4.481	29.14	0
3/6/20 14:45	2.904	204.6	17.82	4.647	29.14	0
3/6/20 15:00	1.608	209.4	15.21	4.698	29.11	0
3/6/20 15:15	1.879	233.1	14.15	4.738	29.11	0
3/6/20 15:30	1.402	208.7	43.15	4.915	29.11	0
3/6/20 15:45	2.603	62.76	22.08	4.96	29.11	0
3/6/20 16:00	3.667	50.65	9.98	4.771	29.1	0
3/6/20 16:15	1.889	22.13	22.74	4.901	29.1	0
3/6/20 16:30	3.443	311.2	15.11	5.046	29.1	0
3/6/20 16:45	6.339	306.8	12.52	4.992	29.1	0
3/6/20 17:00	4.252	332.4	28.57	4.87	29.11	0
3/6/20 17:15	4.3	348.3	36.01	4.488	29.11	0
3/6/20 17:30	7.17	306.8	6.661	4.172	29.11	0
3/6/20 17:45	7.172	318.8	7.754	4.032	29.11	0
3/6/20 18:00	6.802	326.3	10.19	3.97	29.08	0
3/6/20 18:15	3.946	2.666	16.27	3.909	29.08	0
3/6/20 18:30	3.938	24.9	8.16	3.806	29.08	0
3/6/20 18:45	5.202	27.84	9.29	3.634	29.08	0
3/6/20 19:00	5.166	26.9	9.99	3.65	29.07	0
3/6/20 19:15	5.122	27.7	9.5	3.686	29.07	0
3/6/20 19:30	4.915	24.06	5.944	3.691	29.07	0
3/6/20 19:45	3.806	21.72	6.902	3.739	29.07	0
3/6/20 20:00	5.018	26.61	7.349	3.779	29.05	0
3/6/20 20:15	4.916	32.14	7.892	3.743	29.05	0
3/6/20 20:30	5.567	22.42	8.18	3.733	29.05	0
3/6/20 20:45	4.613	26.45	7.83	3.753	29.05	0
3/6/20 21:00	3.38	29.99	7.575	3.738	29.04	0.01
3/6/20 21:15	0.576	26.31	4.773	3.608	29.04	0
3/6/20 21:30	1.567	276	20.05	3.705	29.04	0
3/6/20 21:45	2.602	247.2	10.35	3.745	29.04	0
3/6/20 22:00	1.378	213.7	17.78	3.71	29.03	0
3/6/20 22:15	2.244	132.2	8.29	3.51	29.03	0
3/6/20 22:30	1.583	119.4	2.752	3.307	29.03	0
3/6/20 22:45	1.075	127.8	7.606	3.304	29.03	0
3/6/20 23:00	2.458	133.8	9.79	3.3	29.02	0
3/6/20 23:15	1.986	201.9	14.23	3.359	29.02	0
3/6/20 23:30	2.713	204.5	10.43	3.363	29.02	0
3/6/20 23:45	3.675	171.9	10.96	3.252	29.02	0
3/7/20 0:00	2.257	190.5	10.36	3.228	29.01	0
3/7/20 0:15	2.381	152.5	22.22	3.168	29.01	0
3/7/20 0:30	2.653	122	11.24	3.078	29.01	0
3/7/20 0:45	3.669	170.7	21.21	3.083	29.01	0
3/7/20 1:00	3.206	223.2	9.55	3.261	29.01	0.01
3/7/20 1:15	3.363	214.5	7.999	3.288	29.01	0
3/7/20 1:30	2.682	184.7	15.04	3.228	29.01	0
3/7/20 1:45	1.964	169	14.83	3.223	29.01	0
3/7/20 2:00	3.188	186.2	10.63	3.265	29.02	0
3/7/20 2:15	4.068	185	7.792	3.303	29.02	0
3/7/20 2:30	4.153	187.2	5.241	3.292	29.02	0
3/7/20 2:45	4.443	187.9	10.67	3.274	29.02	0
3/7/20 3:00	3.459	184.6	9.64	3.201	29	0
3/7/20 3:15	2.153	124.6	20.85	3.197	29	0
3/7/20 3:30	4.17	139.8	13.18	3.126	29	0
3/7/20 3:45	3.665	166	24.33	3.135	29	0
3/7/20 4:00	3.979	203.6	6.788	3.192	29	0
3/7/20 4:15	4.523	199.7	6.51	3.207	29	0
3/7/20 4:30	5.523	191.7	4.606	3.132	29	0
3/7/20 4:45	5.546	193.2	4.93	3.116	29	0
3/7/20 5:00	5.263	172.3	10.44	3.052	28.99	0
3/7/20 5:15	5.071	157.2	8.85	2.853	28.99	0.01
3/7/20 5:30	4.777	152.3	8.24	2.811	28.99	0
3/7/20 5:45	4.509	148.2	8.05	2.771	28.99	0
3/7/20 6:00	4.484	149	8.13	2.764	28.99	0
3/7/20 6:15	5.131	155.4	7.163	2.753	28.99	0
3/7/20 6:30	5.369	150.4	6.793	2.738	28.99	0
3/7/20 6:45	5.141	161	9.08	2.725	28.99	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/7/20 7:00	4.508	155.9	7.485	2.611	28.99	0
3/7/20 7:15	4.031	148.5	7.404	2.624	28.99	0
3/7/20 7:30	4.612	145.3	8.13	2.705	28.99	0
3/7/20 7:45	2.71	146.7	10.66	2.804	28.99	0
3/7/20 8:00	3.297	135.6	18.34	2.846	28.99	0
3/7/20 8:15	3.635	121	6.393	2.841	28.99	0
3/7/20 8:30	4.536	115.5	8.74	2.871	28.99	0
3/7/20 8:45	4.506	116.6	8.52	2.998	28.99	0
3/7/20 9:00	4.045	125.9	9.97	3.363	29	0
3/7/20 9:15	4.788	133.9	10.81	3.648	29	0
3/7/20 9:30	4.784	131.5	12.96	3.803	29	0
3/7/20 9:45	4.208	141.6	21.92	4.084	29	0
3/7/20 10:00	3.973	136.1	20.05	4.425	29.01	0
3/7/20 10:15	5.439	146.6	15.61	4.631	29.01	0
3/7/20 10:30	4.466	152.3	15.31	4.714	29.01	0
3/7/20 10:45	4.506	184.3	12.39	4.88	29.01	0
3/7/20 11:00	5.648	163.8	25.45	5.288	29.04	0
3/7/20 11:15	6.381	189.7	20.38	5.129	29.04	0
3/7/20 11:30	6.229	173.2	11.17	5.165	29.04	0
3/7/20 11:45	6.083	178.9	11.09	4.996	29.04	0
3/7/20 12:00	6.482	170.4	20.36	4.887	29.03	0
3/7/20 12:15	6.937	146.7	14.79	4.046	29.03	0.01
3/7/20 12:30	5.227	173.3	16.1	3.506	29.03	0.03
3/7/20 12:45	4.885	158.5	36.77	4.07	29.03	0
3/7/20 13:00	10.75	224.8	12.62	3.732	29.03	0.01
3/7/20 13:15	9.65	203.4	8.83	3.041	29.03	0.02
3/7/20 13:30	6.869	181.7	15.54	2.93	29.03	0.01
3/7/20 13:45	7.62	175.8	13.13	3.143	29.03	0
3/7/20 14:00	7.606	181.5	11.28	3.199	29.04	0
3/7/20 14:15	5.693	171.2	13.65	3.479	29.04	0.01
3/7/20 14:30	4.865	154.5	18.55	3.913	29.04	0
3/7/20 14:45	4.737	149.7	17.85	4.149	29.04	0
3/7/20 15:00	4.78	134.7	13.32	3.969	29.04	0
3/7/20 15:15	5.088	134.5	8.59	3.891	29.04	0.01
3/7/20 15:30	2.282	115.7	45.15	3.905	29.04	0.01
3/7/20 15:45	4.985	265.4	17.34	4.051	29.04	0
3/7/20 16:00	2.156	197.8	72.84	4.434	29.05	0
3/7/20 16:15	4.293	84.3	7.785	3.74	29.05	0
3/7/20 16:30	3.57	97.4	8.96	3.409	29.05	0
3/7/20 16:45	4.527	99.6	10.07	3.373	29.05	0
3/7/20 17:00	6.009	105.7	9.7	3.719	29.06	0
3/7/20 17:15	5.171	114.7	9.82	3.591	29.06	0
3/7/20 17:30	4.651	138.8	10.14	3.563	29.06	0
3/7/20 17:45	5.035	147.3	4.746	3.525	29.06	0
3/7/20 18:00	4.863	132.9	7.954	3.431	29.08	0
3/7/20 18:15	3.943	139.5	10.3	3.231	29.08	0
3/7/20 18:30	5.726	178.1	10.13	3.715	29.08	0
3/7/20 18:45	7.349	173.8	5.117	3.692	29.08	0
3/7/20 19:00	6.358	171.5	7.084	3.596	29.09	0
3/7/20 19:15	3.665	122.3	12.19	3.187	29.09	0
3/7/20 19:30	4.658	138.8	13.12	2.947	29.09	0
3/7/20 19:45	5.755	152.2	11.07	2.949	29.09	0
3/7/20 20:00	5.587	190.5	9.7	3.155	29.11	0
3/7/20 20:15	5.168	180.6	11.34	3.021	29.11	0
3/7/20 20:30	2.018	148.5	13.6	2.58	29.11	0
3/7/20 20:45	2.057	151.9	26.34	2.489	29.11	0
3/7/20 21:00	2.025	158.5	39.89	2.579	29.13	0
3/7/20 21:15	2.697	133.9	10.7	2.533	29.13	0
3/7/20 21:30	3.019	134.7	8.5	2.478	29.13	0
3/7/20 21:45	3.173	129.3	7.4	2.591	29.13	0
3/7/20 22:00	2.831	122.7	7.767	2.617	29.15	0
3/7/20 22:15	2.093	117.2	11.35	2.615	29.15	0
3/7/20 22:30	2.192	122.4	11.47	2.692	29.15	0
3/7/20 22:45	2.23	140.2	22.65	2.56	29.15	0
3/7/20 23:00	2.284	184.3	18.06	2.601	29.16	0
3/7/20 23:15	3.073	173.2	13.84	2.716	29.16	0
3/7/20 23:30	4.067	187.2	12.74	2.664	29.16	0
3/7/20 23:45	3.314	184.7	23.34	2.7	29.16	0
3/8/20 0:00	1.772	139.1	21.28	2.56	29.17	0.01
3/8/20 0:15	2.906	195	13.09	2.655	29.17	0
3/8/20 0:30	2.345	194	14.06	2.51	29.17	0
3/8/20 0:45	3.196	182.2	17.95	2.299	29.17	0
3/8/20 1:00	3.056	178.7	10.84	2.093	29.17	0
3/8/20 1:15	3.366	169.7	18.95	2.004	29.17	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/8/20 1:30	3.874	192.4	6.37	1.973	29.17	0
3/8/20 1:45	4.155	187.5	9.27	2.094	29.17	0
3/8/20 2:00	3.763	171.1	12.39	2.109	29.2	0
3/8/20 2:15	4.384	188.4	7.11	2.164	29.2	0
3/8/20 2:30	3.755	199.8	5.706	2.134	29.2	0
3/8/20 2:45	3.47	207.5	7.073	2.174	29.2	0
3/8/20 3:00	3.087	201.4	6.826	2.139	29.22	0
3/8/20 3:15	2.976	209.3	39.55	2.121	29.22	0
3/8/20 3:30	3.56	206	6.742	2.037	29.22	0
3/8/20 3:45	4.368	188.3	10.42	2.024	29.22	0
3/8/20 4:00	3.978	201.5	8.37	2.118	29.21	0
3/8/20 4:15	3.931	182.6	12.53	2.109	29.21	0
3/8/20 4:30	2.771	172.2	16.41	1.859	29.21	0
3/8/20 4:45	2.691	148.6	9.4	1.715	29.21	0
3/8/20 5:00	3.468	158.6	11.97	1.665	29.2	0
3/8/20 5:15	4.462	170.8	13.81	1.682	29.2	0
3/8/20 5:30	2.688	181.3	10.1	1.741	29.2	0
3/8/20 5:45	3.344	159.9	9.65	1.744	29.2	0
3/8/20 6:00	3.854	195.8	9.88	1.789	29.23	0
3/8/20 6:15	4.137	224.4	7.679	1.67	29.23	0
3/8/20 6:30	2.815	250.2	7.993	1.865	29.23	0
3/8/20 6:45	3.031	248	6.302	1.863	29.23	0
3/8/20 7:00	0.772	221.5	16.33	1.878	29.25	0
3/8/20 7:15	0.155	283.8	1.913	1.81	29.25	0
3/8/20 7:30	0.504	226.7	14.53	1.889	29.25	0
3/8/20 7:45	3.39	215.2	7.372	2.042	29.25	0
3/8/20 8:00	5.331	212.9	10.32	2.143	29.25	0
3/8/20 8:15	4.138	216.2	10.55	2.391	29.25	0
3/8/20 8:30	2.546	182.7	36.11	2.746	29.25	0
3/8/20 8:45	3.708	182.8	14.17	3.28	29.25	0
3/8/20 9:00	3.565	196.2	22.56	3.037	29.27	0
3/8/20 9:15	4.444	196.2	13.32	2.942	29.27	0
3/8/20 9:30	3.786	211.3	14.18	3.015	29.27	0
3/8/20 9:45	4.801	198.2	13.54	3.307	29.27	0
3/8/20 10:00	4.835	195.6	16.2	3.941	29.29	0
3/8/20 10:15	5.769	191.4	18.82	4.085	29.29	0
3/8/20 10:30	5.908	220.4	15.05	4.056	29.29	0
3/8/20 10:45	4.545	219.5	26.83	4.393	29.29	0
3/8/20 11:00	3.257	180.4	24.52	4.837	29.28	0
3/8/20 11:15	2.885	213.1	21.27	4.899	29.28	0
3/8/20 11:30	1.409	46.03	70.22	4.992	29.28	0
3/8/20 11:45	2.137	65.76	14.04	4.947	29.28	0
3/8/20 12:00	2.088	165	49.79	5.65	29.29	0
3/8/20 12:15	2.275	237.1	41.32	6.026	29.29	0
3/8/20 12:30	3.406	333.8	24.78	6.188	29.29	0
3/8/20 12:45	7.49	350.8	13.71	5.396	29.29	0
3/8/20 13:00	4.919	352.8	15.42	5.317	29.28	0
3/8/20 13:15	5.05	353.7	25.95	5.192	29.28	0
3/8/20 13:30	4.068	308	13.93	5.451	29.28	0
3/8/20 13:45	6.027	330.9	45.82	6.602	29.28	0
3/8/20 14:00	7.97	17.28	11.67	5.571	29.26	0
3/8/20 14:15	6.919	346.9	18.09	5.396	29.26	0
3/8/20 14:30	5.035	317.1	17.83	5.772	29.26	0
3/8/20 14:45	5.419	297.7	15.01	6.555	29.26	0
3/8/20 15:00	6.845	346.2	28.54	7.184	29.24	0
3/8/20 15:15	7.963	336.3	12.52	6.828	29.24	0
3/8/20 15:30	6.664	353.6	29.09	6.296	29.24	0
3/8/20 15:45	7.041	23.36	8.32	6.273	29.24	0
3/8/20 16:00	6.187	4.388	22.67	6.552	29.25	0
3/8/20 16:15	7.162	348.5	15.67	6.498	29.25	0
3/8/20 16:30	8.66	359.7	16.8	6.278	29.25	0
3/8/20 16:45	7.958	343.9	12.43	6.213	29.25	0
3/8/20 17:00	7.781	340.2	13.02	5.999	29.26	0
3/8/20 17:15	5.83	334	10.75	5.845	29.26	0
3/8/20 17:30	5.903	321.4	15.4	5.713	29.26	0
3/8/20 17:45	7.155	351.1	16.73	5.588	29.26	0
3/8/20 18:00	5.512	9.43	22.85	5.43	29.24	0
3/8/20 18:15	2.058	43.07	43.58	5.17	29.24	0
3/8/20 18:30	2.799	4.421	21.12	4.991	29.24	0
3/8/20 18:45	4.535	15.24	14.51	4.592	29.24	0
3/8/20 19:00	6.017	22.8	15.31	4.385	29.25	0
3/8/20 19:15	7.867	28.42	12.63	4.134	29.25	0
3/8/20 19:30	6.493	21.54	13.93	3.939	29.25	0
3/8/20 19:45	5.092	19.06	13.43	3.856	29.25	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/8/20 20:00	6.775	18.91	13.05	3.659	29.25	0
3/8/20 20:15	5.381	37.94	14.09	3.54	29.25	0
3/8/20 20:30	6.834	34.7	13.33	3.373	29.25	0
3/8/20 20:45	5.457	28.4	11.34	3.064	29.25	0
3/8/20 21:00	6.222	33.7	15.91	3.01	29.27	0
3/8/20 21:15	4.857	17.66	22.58	2.946	29.27	0
3/8/20 21:30	6.395	14.4	16.68	3.104	29.27	0
3/8/20 21:45	5.592	40.69	16.81	2.689	29.27	0
3/8/20 22:00	5.594	46.46	10.36	2.16	29.3	0
3/8/20 22:15	7.38	43.4	8.74	2.156	29.3	0
3/8/20 22:30	7.716	30.13	7.966	1.915	29.3	0
3/8/20 22:45	5.213	23.8	14.77	1.572	29.3	0
3/8/20 23:00	4.618	21.91	14.76	1.272	29.31	0
3/8/20 23:15	5.056	37.15	19.41	1.419	29.31	0
3/8/20 23:30	5.818	40.33	11.87	1.466	29.31	0
3/8/20 23:45	4.985	45.51	18.38	1.08	29.31	0
3/9/20 0:00	3.94	48.32	16	1.015	29.31	0
3/9/20 0:15	3.819	61.73	13.6	1.11	29.31	0
3/9/20 0:30	4.643	51.36	9.15	1.08	29.31	0
3/9/20 0:45	4.026	49.78	6.572	0.744	29.31	0
3/9/20 1:00	2.952	43.04	7.221	0.587	29.32	0
3/9/20 1:15	3.616	36.19	6.786	0.305	29.32	0
3/9/20 1:30	2.971	51.67	11.27	0.222	29.32	0
3/9/20 1:45	2.701	74.93	8.86	0.318	29.32	0
3/9/20 2:00	2.802	90.7	6.794	0.262	29.34	0
3/9/20 2:15	2.412	114.5	18.94	0.368	29.34	0
3/9/20 2:30	1.399	124.1	6.48	0.522	29.34	0
3/9/20 2:45	0.073	118.2	0.053	0.861	29.34	0
3/9/20 3:00	0	0	0	0.951	29.34	0
3/9/20 3:15	0.608	268.3	38.18	0.61	29.34	0
3/9/20 3:30	1.351	345.7	20.62	0.314	29.34	0
3/9/20 3:45	1.213	21.59	8.4	0.108	29.34	0
3/9/20 4:00	0.56	16.81	2.524	0.096	29.35	0
3/9/20 4:15	0.481	10.84	0.734	0.143	29.35	0
3/9/20 4:30	0	0	0	-0.293	29.35	0
3/9/20 4:45	0.321	103.1	1.261	-0.264	29.35	0
3/9/20 5:00	0.828	103.3	0.075	0.041	29.35	0
3/9/20 5:15	1.411	67.55	15.47	-0.214	29.35	0
3/9/20 5:30	1.03	70.77	3.077	-0.197	29.35	0
3/9/20 5:45	0.232	64.99	0.704	-0.461	29.35	0
3/9/20 6:00	0.945	347.7	81.2	-0.736	29.36	0
3/9/20 6:15	1.486	280.7	30.07	-0.718	29.36	0
3/9/20 6:30	1.336	5.941	17.65	-1.076	29.36	0
3/9/20 6:45	0.666	329.1	11.63	-1.113	29.36	0
3/9/20 7:00	1.884	294.3	33.75	-0.56	29.39	0
3/9/20 7:15	0.928	51.87	21.54	-0.08	29.39	0
3/9/20 7:30	0.382	50.35	0.085	0.709	29.39	0
3/9/20 7:45	0.139	49.51	0.793	1.007	29.39	0
3/9/20 8:00	0.945	35.58	4.623	1.102	29.4	0
3/9/20 8:15	0.945	46.4	10.07	0.741	29.4	0
3/9/20 8:30	1.261	49.04	6.58	0.891	29.4	0
3/9/20 8:45	0.378	277.1	16.09	2.099	29.4	0
3/9/20 9:00	0.722	235.7	70.03	2.24	29.43	0
3/9/20 9:15	1.392	118.4	34.97	3.177	29.43	0
3/9/20 9:30	2.28	193.3	47.39	3.305	29.43	0
3/9/20 9:45	2.073	214.2	31.96	3.351	29.43	0
3/9/20 10:00	2.353	218.9	25.61	3.583	29.44	0
3/9/20 10:15	1.352	269.9	40.59	4.255	29.44	0
3/9/20 10:30	2.346	261.2	39.34	4.796	29.44	0
3/9/20 10:45	3.6	222.5	23.93	4.788	29.44	0
3/9/20 11:00	2.408	243.6	24.09	5.048	29.43	0
3/9/20 11:15	1.826	286	42.49	5.686	29.43	0
3/9/20 11:30	2.068	266.5	36.96	6.022	29.43	0
3/9/20 11:45	2.74	5.496	22.32	6.403	29.43	0
3/9/20 12:00	2.133	24.04	44.94	6.888	29.43	0
3/9/20 12:15	3.687	9.18	33.74	6.998	29.43	0
3/9/20 12:30	3.107	23.98	54.48	7.205	29.43	0
3/9/20 12:45	3.588	283.1	34.62	7.873	29.43	0
3/9/20 13:00	5.857	299.9	21.26	8.01	29.42	0
3/9/20 13:15	6.202	266.3	19.67	7.929	29.42	0
3/9/20 13:30	4.84	276.6	34.54	8.36	29.42	0
3/9/20 13:45	6.762	255.4	18.32	8.41	29.42	0
3/9/20 14:00	6.315	294.6	37.41	8.52	29.42	0
3/9/20 14:15	5.038	298	28.91	8.92	29.42	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/9/20 14:30	5.253	308.4	23.65	8.73	29.42	0
3/9/20 14:45	4.555	306.4	16.9	8.86	29.42	0
3/9/20 15:00	4.121	334.8	25.39	8.89	29.4	0
3/9/20 15:15	3.447	323.1	20.6	9.12	29.4	0
3/9/20 15:30	4.528	317.1	28.75	9.27	29.4	0
3/9/20 15:45	3.712	277.3	20.02	9.41	29.4	0
3/9/20 16:00	2.288	4.648	51.74	9.5	29.42	0
3/9/20 16:15	3.408	357.5	32.59	9.19	29.42	0
3/9/20 16:30	4.666	13.31	12.48	8.76	29.42	0
3/9/20 16:45	4.761	33.32	11.76	8.51	29.42	0
3/9/20 17:00	4.579	25.22	13.69	8.33	29.41	0
3/9/20 17:15	3.156	14.61	10.27	8.43	29.41	0
3/9/20 17:30	3.26	330.7	31.28	8.62	29.41	0
3/9/20 17:45	4.715	283.5	5.929	8.31	29.41	0
3/9/20 18:00	3.375	289.6	5.105	7.959	29.43	0
3/9/20 18:15	1.99	296.3	8.61	7.506	29.43	0
3/9/20 18:30	0.625	318.5	19.55	7.14	29.43	0
3/9/20 18:45	0.084	23.24	0.599	6.608	29.43	0
3/9/20 19:00	1.625	32.78	8.37	6.403	29.42	0
3/9/20 19:15	2.084	23.82	9.8	5.53	29.42	0
3/9/20 19:30	2.304	32.77	6.599	5.125	29.42	0
3/9/20 19:45	3.109	34.31	9.21	5.055	29.42	0
3/9/20 20:00	3.378	81	14.34	3.778	29.43	0
3/9/20 20:15	4.161	111.4	16.97	3.968	29.43	0
3/9/20 20:30	3.231	109.6	14.31	4.012	29.43	0
3/9/20 20:45	3.321	103.4	16.62	3.548	29.43	0
3/9/20 21:00	3.528	151.4	9.69	3.897	29.45	0
3/9/20 21:15	3.856	159.7	8.12	3.29	29.45	0
3/9/20 21:30	3.814	148.9	7.824	3.427	29.45	0
3/9/20 21:45	4.182	162.8	5.211	3.557	29.45	0
3/9/20 22:00	4.331	160.4	5.902	3.302	29.45	0
3/9/20 22:15	3.913	169.4	13.15	3.165	29.45	0
3/9/20 22:30	4.356	172.2	7.105	2.763	29.45	0
3/9/20 22:45	5.319	161.9	8.94	2.849	29.45	0
3/9/20 23:00	4.762	164	8.44	2.827	29.42	0
3/9/20 23:15	3.443	152.8	9.78	2.733	29.42	0
3/9/20 23:30	2.538	123.3	7.797	2.233	29.42	0
3/9/20 23:45	4.391	135.6	9.19	2.423	29.42	0
3/10/20 0:00	4.966	148.8	5.594	3.303	29.44	0
3/10/20 0:15	4.849	153.7	6.816	3.078	29.44	0
3/10/20 0:30	5.747	159.4	8.48	2.556	29.44	0
3/10/20 0:45	5.744	160.9	8.76	2.626	29.44	0
3/10/20 1:00	5.62	151.7	8.22	2.571	29.43	0
3/10/20 1:15	4.153	129.2	13.46	2.123	29.43	0
3/10/20 1:30	4.667	136.1	14.63	1.988	29.43	0
3/10/20 1:45	5.908	151.3	7.771	3.188	29.43	0
3/10/20 2:00	6.003	146.3	6.496	3.036	29.42	0
3/10/20 2:15	5.5	148.5	7.601	3.091	29.42	0
3/10/20 2:30	4.764	150.3	5.631	3.131	29.42	0
3/10/20 2:45	5.132	158.2	6.31	2.746	29.42	0
3/10/20 3:00	5.535	151.7	7.737	3.247	29.42	0
3/10/20 3:15	5.998	149.5	6.722	3.446	29.42	0
3/10/20 3:30	5.599	148.3	7.009	3.563	29.42	0
3/10/20 3:45	6.01	155.8	8.79	3.413	29.42	0
3/10/20 4:00	5.755	153.2	7.437	3.704	29.41	0
3/10/20 4:15	5.771	147.3	7.747	3.949	29.41	0
3/10/20 4:30	5.873	151.7	6.281	4.029	29.41	0
3/10/20 4:45	5.56	145	7.022	3.964	29.41	0
3/10/20 5:00	5.98	147.3	7.137	4.107	29.4	0
3/10/20 5:15	5.461	151.1	6.658	4.16	29.4	0
3/10/20 5:30	4.028	150.1	7.142	4.086	29.4	0
3/10/20 5:45	5.711	155.1	9.07	4.073	29.4	0
3/10/20 6:00	5.555	156.6	7.227	3.948	29.39	0
3/10/20 6:15	5.131	145.9	7.141	4.117	29.39	0
3/10/20 6:30	5.985	142.2	8.71	4.224	29.39	0
3/10/20 6:45	6.213	153.4	8.17	4.702	29.39	0
3/10/20 7:00	6.672	157.3	9.2	4.771	29.38	0
3/10/20 7:15	6.519	161.6	9.8	4.128	29.38	0
3/10/20 7:30	5.901	160.5	14.3	4.305	29.38	0
3/10/20 7:45	6.005	169.5	13.64	4.691	29.38	0
3/10/20 8:00	5.793	166.7	9.06	4.692	29.38	0
3/10/20 8:15	6.566	196.6	12.7	4.009	29.38	0
3/10/20 8:30	6.355	209.1	5.698	3.997	29.38	0
3/10/20 8:45	6.55	214.8	5.368	4.146	29.38	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/10/20 9:00	6.126	217.7	3.686	4.289	29.39	0
3/10/20 9:15	5.789	218.5	4.682	4.509	29.39	0
3/10/20 9:30	5.179	212	5.744	4.707	29.39	0
3/10/20 9:45	5.437	215.4	5.638	4.854	29.39	0
3/10/20 10:00	3.263	208.3	7.587	5.315	29.41	0
3/10/20 10:15	2.186	196.7	17.04	5.969	29.41	0
3/10/20 10:30	3.164	161.2	21.33	6.796	29.41	0
3/10/20 10:45	5.896	181.4	10.81	7.23	29.41	0
3/10/20 11:00	7.266	180.2	12.49	7.284	29.4	0
3/10/20 11:15	9.26	175.6	12.42	7.41	29.4	0
3/10/20 11:30	8.43	180.2	10.84	7.675	29.4	0
3/10/20 11:45	10.15	185.7	12.71	7.977	29.4	0
3/10/20 12:00	9.86	184.8	8.11	7.956	29.39	0
3/10/20 12:15	10.01	187	10.32	8.05	29.39	0
3/10/20 12:30	7.876	183.8	13.71	8.49	29.39	0
3/10/20 12:45	8.85	177.3	10.21	8.86	29.39	0
3/10/20 13:00	7.692	185.5	12.46	8.98	29.37	0
3/10/20 13:15	6.469	192	12.3	9.22	29.37	0
3/10/20 13:30	7.184	213.3	15.59	9.46	29.37	0
3/10/20 13:45	8.48	227.2	12.95	9.59	29.37	0
3/10/20 14:00	8.67	246.8	8.87	9.37	29.36	0
3/10/20 14:15	9	237.3	8.68	9.01	29.36	0
3/10/20 14:30	8.55	238.8	8.36	8.88	29.36	0
3/10/20 14:45	10.47	241.4	7.548	8.81	29.36	0
3/10/20 15:00	9.43	237.6	9.37	8.8	29.36	0
3/10/20 15:15	10.11	238.7	8.38	8.74	29.36	0
3/10/20 15:30	11.16	228.5	10.82	8.53	29.36	0
3/10/20 15:45	10.04	222.2	8.12	8.46	29.36	0
3/10/20 16:00	9.42	223.3	9.31	8.45	29.34	0
3/10/20 16:15	7.242	202.7	14.88	8.44	29.34	0
3/10/20 16:30	6.324	194	12.67	8.44	29.34	0
3/10/20 16:45	5.562	186.4	17.76	8.53	29.34	0
3/10/20 17:00	6.708	205.5	11.86	8.61	29.33	0
3/10/20 17:15	8.19	217.1	10.61	8.65	29.33	0
3/10/20 17:30	8.06	214	9.36	8.65	29.33	0
3/10/20 17:45	6.108	218.3	9.6	8.59	29.33	0
3/10/20 18:00	7.784	213.2	15.7	8.5	29.3	0
3/10/20 18:15	8.28	219.2	9.79	8.29	29.3	0
3/10/20 18:30	9.23	220	7.508	8.24	29.3	0
3/10/20 18:45	8.74	225.4	9.08	8.05	29.3	0
3/10/20 19:00	9.54	231.6	10.15	7.877	29.3	0
3/10/20 19:15	8.62	234.3	10.78	7.686	29.3	0
3/10/20 19:30	10.91	227.9	10.9	7.593	29.3	0
3/10/20 19:45	11.6	215.2	9.15	7.523	29.3	0
3/10/20 20:00	10.97	199.1	9.14	7.347	29.33	0
3/10/20 20:15	8.15	180.7	14.58	7.191	29.33	0
3/10/20 20:30	6.129	166.7	18.31	6.94	29.33	0
3/10/20 20:45	7.767	182.4	9.01	6.949	29.33	0
3/10/20 21:00	8.08	183.9	10.03	6.902	29.3	0
3/10/20 21:15	8.31	179.6	7.409	6.979	29.3	0
3/10/20 21:30	8.35	179.8	6.476	6.956	29.3	0
3/10/20 21:45	7.879	156.3	11.87	6.834	29.3	0
3/10/20 22:00	11.03	157	7.14	6.785	29.31	0
3/10/20 22:15	10.62	168.7	11.96	6.722	29.31	0
3/10/20 22:30	10.77	183.1	8.04	6.6	29.31	0
3/10/20 22:45	11.65	186.7	7.692	6.397	29.31	0
3/10/20 23:00	11.92	180.3	8.31	6.323	29.28	0
3/10/20 23:15	8.64	172.7	12.64	6.329	29.28	0
3/10/20 23:30	9.15	169	15.49	6.263	29.28	0
3/10/20 23:45	9.25	187.4	7.939	6.292	29.28	0
3/11/20 0:00	9	178.1	7.748	6.318	29.3	0
3/11/20 0:15	10.51	178.8	7.846	6.347	29.3	0
3/11/20 0:30	11.33	181.5	10.19	6.403	29.3	0
3/11/20 0:45	14.06	176.7	7.658	6.49	29.3	0
3/11/20 1:00	12.88	177.7	9.96	6.575	29.27	0
3/11/20 1:15	11.94	177.8	10.75	6.668	29.27	0
3/11/20 1:30	10.76	173.8	8.84	6.746	29.27	0
3/11/20 1:45	10.18	179.4	11.77	6.849	29.27	0
3/11/20 2:00	9.64	182	10.86	6.877	29.29	0
3/11/20 2:15	11.09	188.3	11.06	6.939	29.29	0
3/11/20 2:30	11	192	10.35	6.992	29.29	0
3/11/20 2:45	12.06	189.4	14.47	6.918	29.29	0
3/11/20 3:00	9.28	180.4	11.7	6.851	29.26	0
3/11/20 3:15	9.64	182.2	13.73	6.812	29.26	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/11/20 3:30	9.1	187.2	12.93	6.778	29.26	0
3/11/20 3:45	7.494	201.8	10.71	6.732	29.26	0
3/11/20 4:00	8.04	204.8	14.73	6.717	29.29	0
3/11/20 4:15	7.165	210.5	10	6.687	29.29	0
3/11/20 4:30	8.14	216	9.62	6.208	29.29	0
3/11/20 4:45	7.719	211.5	5.672	5.92	29.29	0
3/11/20 5:00	5.77	208.3	7.783	5.826	29.29	0.01
3/11/20 5:15	3.723	208	13.07	5.815	29.29	0
3/11/20 5:30	4.979	231.3	11.93	5.833	29.29	0
3/11/20 5:45	4.083	254.3	11.42	5.822	29.29	0
3/11/20 6:00	1.448	310.3	39.82	5.776	29.31	0
3/11/20 6:15	2.15	350.7	26.35	5.729	29.31	0
3/11/20 6:30	5.847	17.19	23.34	4.985	29.31	0.02
3/11/20 6:45	8.66	18.35	18.36	4.748	29.31	0.03
3/11/20 7:00	6.841	25.89	16.11	4.689	29.33	0.01
3/11/20 7:15	2.72	353.9	37.91	4.632	29.33	0.01
3/11/20 7:30	2.751	329.5	61.8	4.721	29.33	0
3/11/20 7:45	2.553	58.99	43.91	4.812	29.33	0.01
3/11/20 8:00	3.212	48.25	51.54	4.815	29.36	0
3/11/20 8:15	4.721	39.5	20.23	4.987	29.36	0
3/11/20 8:30	4.1	48.45	22.74	5.146	29.36	0
3/11/20 8:45	1.582	38.49	38.4	5.32	29.36	0
3/11/20 9:00	4.786	5.917	37.24	5.364	29.36	0
3/11/20 9:15	3.226	6.591	26.95	5.602	29.36	0
3/11/20 9:30	3.592	15.13	30.19	5.746	29.36	0
3/11/20 9:45	4.302	350.9	18.85	6.089	29.36	0
3/11/20 10:00	3.553	27.33	29.71	6.214	29.38	0
3/11/20 10:15	5.161	34.62	14.11	6.078	29.38	0
3/11/20 10:30	4.264	36.48	11.01	6.023	29.38	0
3/11/20 10:45	4.728	47.02	17.11	6.222	29.38	0
3/11/20 11:00	2.471	29.28	29.22	6.44	29.38	0
3/11/20 11:15	1.272	8.93	21.38	6.808	29.38	0
3/11/20 11:30	2.311	317.1	28.64	6.713	29.38	0
3/11/20 11:45	8.58	316.9	20.33	6.191	29.38	0
3/11/20 12:00	5.556	323.4	19.53	6.351	29.41	0
3/11/20 12:15	5.29	299.7	18.14	6.791	29.41	0
3/11/20 12:30	7.386	325.5	24.12	6.841	29.41	0
3/11/20 12:45	4.615	317.4	21.13	6.773	29.41	0
3/11/20 13:00	4.093	311.9	17.95	6.782	29.42	0
3/11/20 13:15	2.791	314.6	59.87	6.918	29.42	0
3/11/20 13:30	1.72	302.8	36.52	7.17	29.42	0
3/11/20 13:45	6.55	259.1	14.03	7.393	29.42	0
3/11/20 14:00	4.726	259.5	25.97	7.475	29.42	0
3/11/20 14:15	4.249	234.8	17.74	7.443	29.42	0
3/11/20 14:30	4.286	257.1	11.46	7.507	29.42	0
3/11/20 14:45	4.071	235.6	51.53	7.64	29.42	0
3/11/20 15:00	4.305	253.6	38.35	7.584	29.42	0
3/11/20 15:15	4.23	223.8	15.38	7.559	29.42	0
3/11/20 15:30	4.86	225.6	14.84	7.696	29.42	0
3/11/20 15:45	3.537	223.9	22.12	8.08	29.42	0
3/11/20 16:00	4.094	247.1	26.97	8.32	29.43	0
3/11/20 16:15	4.259	287.4	29.47	8.15	29.43	0
3/11/20 16:30	5.361	281.4	12.92	7.982	29.43	0
3/11/20 16:45	5.697	295.9	11.31	7.921	29.43	0
3/11/20 17:00	4.727	308	9.31	7.726	29.44	0
3/11/20 17:15	4.242	310.5	6.469	7.605	29.44	0
3/11/20 17:30	2.941	317.8	15.43	7.555	29.44	0
3/11/20 17:45	1.285	5.166	11.7	7.407	29.44	0
3/11/20 18:00	0.9	56.58	4.961	7.221	29.43	0
3/11/20 18:15	1.68	341	16.31	7.276	29.43	0
3/11/20 18:30	1.456	26.47	2.784	6.804	29.43	0
3/11/20 18:45	0.451	36.91	0.474	6.511	29.43	0
3/11/20 19:00	0.78	24.36	18.09	6.306	29.45	0
3/11/20 19:15	2.607	358.4	21.7	6.059	29.45	0
3/11/20 19:30	3.674	6.294	15.11	5.891	29.45	0
3/11/20 19:45	2.721	18.47	11.94	5.776	29.45	0
3/11/20 20:00	3.485	19.46	8.2	5.423	29.46	0
3/11/20 20:15	3.734	18.86	4.026	5.569	29.46	0
3/11/20 20:30	5.319	7.687	10.41	5.884	29.46	0
3/11/20 20:45	4.596	6.528	10.65	5.792	29.46	0
3/11/20 21:00	4.073	337.8	15.89	5.537	29.46	0
3/11/20 21:15	1.84	350.5	28.01	4.969	29.46	0
3/11/20 21:30	2.825	319	16.53	5.065	29.46	0
3/11/20 21:45	1.264	344.8	38.13	4.969	29.46	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/11/20 22:00	2.079	315.2	23.6	5.268	29.47	0
3/11/20 22:15	1.73	10.62	19.15	5.173	29.47	0
3/11/20 22:30	1.005	71.57	23.66	5.269	29.47	0
3/11/20 22:45	1.67	61.54	34.88	5.061	29.47	0
3/11/20 23:00	2.529	98.7	37.45	4.852	29.49	0
3/11/20 23:15	3.034	68.08	15.34	4.777	29.49	0
3/11/20 23:30	2.908	56.69	24.74	4.496	29.49	0
3/11/20 23:45	2.705	59.8	61.05	3.89	29.49	0
3/12/20 0:00	2.284	264.9	35.53	4.247	29.5	0
3/12/20 0:15	2.043	231.7	21.39	4.129	29.5	0
3/12/20 0:30	2.051	15.62	41.53	4.088	29.5	0
3/12/20 0:45	1.838	47.04	25.47	4.087	29.5	0
3/12/20 1:00	3.499	37.44	18.17	4.51	29.51	0
3/12/20 1:15	2.648	1.221	34.36	4.708	29.51	0
3/12/20 1:30	1.783	25.23	53.6	4.688	29.51	0
3/12/20 1:45	3.035	44.83	21.44	4.456	29.51	0
3/12/20 2:00	1.256	180.6	75.28	3.507	29.52	0
3/12/20 2:15	3.896	198.1	18.03	3.357	29.52	0
3/12/20 2:30	4.65	173.2	13.9	2.991	29.52	0
3/12/20 2:45	1.027	78.2	32.79	2.328	29.52	0
3/12/20 3:00	2.346	129.6	10.57	2.229	29.51	0
3/12/20 3:15	2.818	116.7	14.11	2.384	29.51	0
3/12/20 3:30	1.468	152.8	50.39	2.522	29.51	0.01
3/12/20 3:45	0.172	21.35	16.07	2.416	29.51	0
3/12/20 4:00	1.095	240.4	56.97	2.597	29.51	0
3/12/20 4:15	1.718	15.44	29.11	3.108	29.51	0
3/12/20 4:30	2.092	55.39	58.79	2.713	29.51	0
3/12/20 4:45	1.609	126.6	36.22	2.373	29.51	0
3/12/20 5:00	1.726	181.9	23	2.918	29.52	0
3/12/20 5:15	1.517	132.7	17.34	2.594	29.52	0
3/12/20 5:30	1.042	99.8	37.67	2.314	29.52	0
3/12/20 5:45	1.91	170	29.45	2.14	29.52	0
3/12/20 6:00	2.049	91.6	29.45	1.833	29.53	0
3/12/20 6:15	2.115	160.7	51.41	2.056	29.53	0
3/12/20 6:30	3.687	185.1	12.52	2.453	29.53	0
3/12/20 6:45	4.122	185.7	8.88	2.315	29.53	0
3/12/20 7:00	1.75	111.4	25.39	1.984	29.53	0
3/12/20 7:15	1.823	84	4.54	1.644	29.53	0
3/12/20 7:30	1.632	130.9	33.51	1.731	29.53	0
3/12/20 7:45	3.667	190	7.593	2.833	29.53	0
3/12/20 8:00	2.787	109.2	62.46	2.841	29.52	0
3/12/20 8:15	1.149	59.21	35.94	2.741	29.52	0
3/12/20 8:30	1.799	108.3	13.42	3.21	29.52	0
3/12/20 8:45	3.874	115.4	9.21	3.648	29.52	0
3/12/20 9:00	3.307	134.7	20.56	4.316	29.52	0
3/12/20 9:15	1.654	192.7	44.43	4.646	29.52	0
3/12/20 9:30	1.437	258	22.67	4.459	29.52	0
3/12/20 9:45	1.404	273.5	19.55	4.777	29.52	0
3/12/20 10:00	1.248	325.3	30.32	5.365	29.54	0
3/12/20 10:15	1.746	29.14	32.77	6.013	29.54	0
3/12/20 10:30	3.724	272.3	43.16	6.505	29.54	0
3/12/20 10:45	2.714	10.8	21.73	5.741	29.54	0
3/12/20 11:00	1.947	328.7	47.33	6.252	29.52	0
3/12/20 11:15	2.334	346.6	48.74	6.464	29.52	0
3/12/20 11:30	2.971	234.7	44.89	7.225	29.52	0
3/12/20 11:45	4.884	303.6	21.05	7.846	29.52	0
3/12/20 12:00	3.557	296	20.52	6.84	29.51	0
3/12/20 12:15	3.409	28.62	13.04	6.988	29.51	0
3/12/20 12:30	4.573	6.944	20.75	7.352	29.51	0
3/12/20 12:45	2.949	31.61	33.46	7.697	29.51	0
3/12/20 13:00	5.74	15.72	21.91	8.09	29.47	0
3/12/20 13:15	5.585	341	22.91	7.297	29.47	0
3/12/20 13:30	4.535	347.7	23.67	7.228	29.47	0
3/12/20 13:45	4.561	344.5	22.1	7.575	29.47	0
3/12/20 14:00	4.712	33.51	12.06	7.347	29.44	0
3/12/20 14:15	6.538	22.61	10.23	7.449	29.44	0
3/12/20 14:30	6.575	325.6	14.95	7.674	29.44	0
3/12/20 14:45	7.343	329.8	15.15	8.32	29.44	0
3/12/20 15:00	6.289	353.2	19.7	7.797	29.44	0
3/12/20 15:15	3.686	352.1	25.34	7.593	29.44	0
3/12/20 15:30	3.341	10.59	22.34	7.8	29.44	0
3/12/20 15:45	6.822	37.68	12.02	7.944	29.44	0
3/12/20 16:00	6.519	26.58	12.95	8.19	29.41	0
3/12/20 16:15	4.521	29.98	19.9	8.31	29.41	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/12/20 16:30	3.818	349.5	17.42	8.63	29.41	0
3/12/20 16:45	3.071	10.12	17.95	8.26	29.41	0
3/12/20 17:00	4.872	6.052	16.88	7.953	29.37	0
3/12/20 17:15	2.965	21.6	16.43	7.81	29.37	0
3/12/20 17:30	0.74	317.9	17.2	8.66	29.37	0
3/12/20 17:45	4.207	310.9	16.09	7.724	29.37	0
3/12/20 18:00	2.517	12.75	9.19	7.157	29.37	0
3/12/20 18:15	3.741	353.7	16.31	6.707	29.37	0
3/12/20 18:30	3.736	15.38	9.89	6.279	29.37	0
3/12/20 18:45	4.962	19.22	6.262	5.671	29.37	0
3/12/20 19:00	3.995	17.74	8.24	5.347	29.35	0
3/12/20 19:15	4.218	29.95	8.74	5.103	29.35	0
3/12/20 19:30	4.593	27.19	7.488	5.001	29.35	0
3/12/20 19:45	4.691	31.57	6.949	4.872	29.35	0
3/12/20 20:00	4.635	34.59	6.682	4.781	29.33	0
3/12/20 20:15	6.126	33.54	6.836	4.46	29.33	0
3/12/20 20:30	6.738	30.24	9.27	4.248	29.33	0
3/12/20 20:45	7.299	13.85	8.45	4.539	29.33	0
3/12/20 21:00	6.912	16.4	8.64	4.722	29.31	0
3/12/20 21:15	6.22	22.12	10.69	4.545	29.31	0
3/12/20 21:30	6.82	26.92	7.895	4.5	29.31	0
3/12/20 21:45	4.981	45.4	10.21	4.195	29.31	0
3/12/20 22:00	4.14	46.6	10.91	4.163	29.28	0
3/12/20 22:15	4.778	35.89	8.1	4.155	29.28	0
3/12/20 22:30	4.114	25.01	9.67	3.876	29.28	0
3/12/20 22:45	2.521	39.46	13.6	3.804	29.28	0
3/12/20 23:00	3.31	203.3	48.15	3.051	29.27	0
3/12/20 23:15	3.702	185.9	13.19	3.038	29.27	0
3/12/20 23:30	3.322	129.2	20.45	2.673	29.27	0
3/12/20 23:45	3.529	95	9.45	2.753	29.27	0
3/13/20 0:00	5.096	110.8	8.74	2.923	29.26	0
3/13/20 0:15	5.291	114.7	6.387	3.06	29.26	0
3/13/20 0:30	5.612	123.6	5.868	3.178	29.26	0
3/13/20 0:45	4.559	122.4	7.046	3.206	29.26	0
3/13/20 1:00	4.492	118.4	8.46	3.267	29.24	0
3/13/20 1:15	4.006	122.4	7.9	3.277	29.24	0
3/13/20 1:30	4.671	132.6	7.233	3.268	29.24	0
3/13/20 1:45	5.382	141.3	6.744	3.117	29.24	0
3/13/20 2:00	5.346	141.6	5.297	3.086	29.21	0
3/13/20 2:15	6.012	145.1	8.43	2.919	29.21	0
3/13/20 2:30	6.29	147.3	6.917	2.687	29.21	0
3/13/20 2:45	5.366	144	5.889	2.584	29.21	0
3/13/20 3:00	5.46	140.4	8.24	2.51	29.16	0
3/13/20 3:15	5.041	139.2	5.588	2.399	29.16	0
3/13/20 3:30	4.587	147.4	6.482	2.427	29.16	0
3/13/20 3:45	4.791	152.1	4.568	2.433	29.16	0
3/13/20 4:00	4.72	138.7	6.746	2.275	29.1	0
3/13/20 4:15	4.014	141.2	5.925	2.227	29.1	0
3/13/20 4:30	3.364	140	6.522	2.124	29.1	0
3/13/20 4:45	2.476	133.3	6.676	2.037	29.1	0
3/13/20 5:00	2.321	136.4	7.834	1.963	29.09	0
3/13/20 5:15	2.552	135.2	8.98	1.907	29.09	0
3/13/20 5:30	1.226	118.2	1.827	1.837	29.09	0.01
3/13/20 5:45	0.537	333.8	4.901	1.75	29.09	0.01
3/13/20 6:00	2.508	339.6	10.05	1.233	29.08	0
3/13/20 6:15	1.979	7.624	14.99	0.931	29.08	0.01
3/13/20 6:30	2.916	41.51	13.54	0.777	29.08	0
3/13/20 6:45	2.935	19.99	13.88	0.639	29.08	0.01
3/13/20 7:00	2.665	15.67	13.28	0.479	29.04	0
3/13/20 7:15	3.98	31.02	8.51	0.347	29.04	0
3/13/20 7:30	4.823	34.44	9.9	0.224	29.04	0.01
3/13/20 7:45	4.113	25.72	8.08	0.205	29.04	0
3/13/20 8:00	2.437	17.4	5.722	0.208	29.01	0
3/13/20 8:15	1.997	13.71	11.6	0.271	29.01	0
3/13/20 8:30	2.11	10.11	11.76	0.404	29.01	0.01
3/13/20 8:45	1.749	355.8	17.97	0.664	29.01	0.02
3/13/20 9:00	2.096	6.863	17.79	0.893	28.99	0.01
3/13/20 9:15	2.651	343.6	21.67	1.314	28.99	0.01
3/13/20 9:30	3.398	12.95	22.27	1.674	28.99	0
3/13/20 9:45	6.949	15.77	14.09	1.812	28.99	0
3/13/20 10:00	8.34	17.19	10.04	1.801	28.93	0
3/13/20 10:15	7.502	21.85	9.57	1.928	28.93	0
3/13/20 10:30	9.04	18.56	9.89	2.028	28.93	0
3/13/20 10:45	9	19.98	9.17	2.137	28.93	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/13/20 11:00	8.73	16.06	10.42	2.4	28.91	0
3/13/20 11:15	7.407	12.59	12.3	2.571	28.91	0
3/13/20 11:30	6.352	6.965	13.06	2.52	28.91	0
3/13/20 11:45	7.541	359.6	15.13	2.646	28.91	0
3/13/20 12:00	5.433	7.889	15.02	2.631	28.88	0
3/13/20 12:15	5.131	343.5	20.19	2.723	28.88	0
3/13/20 12:30	4.151	340.5	23.31	2.715	28.88	0
3/13/20 12:45	5.382	306.6	10.8	2.55	28.88	0.01
3/13/20 13:00	5.555	316.5	12.07	2.436	28.86	0.01
3/13/20 13:15	4.628	333.1	13.86	2.394	28.86	0.01
3/13/20 13:30	4.255	340.2	30.32	2.385	28.86	0
3/13/20 13:45	3.425	19.12	12.95	2.007	28.86	0.01
3/13/20 14:00	4.405	21.51	11.34	1.843	28.85	0.01
3/13/20 14:15	3.917	29.44	15.15	1.781	28.85	0
3/13/20 14:30	4.437	24.86	9.42	1.885	28.85	0
3/13/20 14:45	3.181	36.39	13.09	1.802	28.85	0.01
3/13/20 15:00	4.161	35.93	12.38	1.698	28.85	0
3/13/20 15:15	3.89	28.47	17.34	1.658	28.85	0.01
3/13/20 15:30	3.315	39.17	12.77	1.68	28.85	0
3/13/20 15:45	3.765	22.32	13.02	1.783	28.85	0
3/13/20 16:00	3.682	17.67	15.5	1.718	28.84	0.01
3/13/20 16:15	3.211	27.89	15.61	1.741	28.84	0
3/13/20 16:30	4.044	23.8	9.44	1.603	28.84	0
3/13/20 16:45	4.905	21.6	14.78	1.606	28.84	0
3/13/20 17:00	3.283	12.46	17.96	1.688	28.81	0
3/13/20 17:15	2.524	6.185	24.71	1.704	28.81	0
3/13/20 17:30	4.474	335.1	31.45	1.744	28.81	0
3/13/20 17:45	4.383	336.3	33.56	1.715	28.81	0
3/13/20 18:00	1.492	10.27	33.2	1.591	28.79	0.01
3/13/20 18:15	3.551	22.46	23.09	1.352	28.79	0
3/13/20 18:30	2.132	14.44	32.96	1.209	28.79	0
3/13/20 18:45	4.123	308.6	51.68	1.352	28.79	0
3/13/20 19:00	2.351	345.1	38.3	1.258	28.82	0
3/13/20 19:15	3.441	352.7	22.36	1.292	28.82	0
3/13/20 19:30	6.259	338.6	29.88	1.3	28.82	0
3/13/20 19:45	6.088	334.6	27.09	1.299	28.82	0
3/13/20 20:00	6.604	349.3	17.69	1.307	28.82	0
3/13/20 20:15	6.347	351.2	19.25	1.294	28.82	0
3/13/20 20:30	9.09	359.3	18.79	1.277	28.82	0
3/13/20 20:45	10.54	2.694	17.41	1.286	28.82	0
3/13/20 21:00	10.7	6.209	14.54	1.312	28.79	0
3/13/20 21:15	10.74	7.881	15.58	1.356	28.79	0
3/13/20 21:30	10.59	359.6	19.47	1.391	28.79	0
3/13/20 21:45	10.39	0.504	18.18	1.349	28.79	0
3/13/20 22:00	11.3	1.707	18.33	1.288	28.81	0
3/13/20 22:15	11.29	354.8	16.93	1.299	28.81	0
3/13/20 22:30	11.42	354.1	17.14	1.276	28.81	0
3/13/20 22:45	11.89	356.4	17.49	1.278	28.81	0
3/13/20 23:00	13.27	4.913	15.51	1.131	28.82	0
3/13/20 23:15	13.25	2.461	15.26	1.114	28.82	0
3/13/20 23:30	10.61	6.107	16.22	0.975	28.82	0
3/13/20 23:45	13.19	3.539	17.06	0.901	28.82	0
3/14/20 0:00	12.01	4.708	16.87	0.836	28.8	0
3/14/20 0:15	11.41	0.835	16.06	0.831	28.8	0
3/14/20 0:30	9.52	351.4	16.8	0.871	28.8	0
3/14/20 0:45	9.32	351.3	16.18	0.977	28.8	0
3/14/20 1:00	10.04	4.116	13.97	0.715	28.83	0
3/14/20 1:15	12.05	6.003	13.55	0.717	28.83	0
3/14/20 1:30	12.57	8.77	12.31	0.746	28.83	0
3/14/20 1:45	11.53	6.141	13.13	0.736	28.83	0
3/14/20 2:00	10.4	0.611	15.58	0.659	28.82	0
3/14/20 2:15	9.75	351.8	14.35	0.721	28.82	0
3/14/20 2:30	9.54	359.7	15.47	0.622	28.82	0
3/14/20 2:45	9.55	3.944	13.91	0.634	28.82	0
3/14/20 3:00	10.57	358.6	14.76	0.579	28.84	0
3/14/20 3:15	11.07	358.7	16.6	0.633	28.84	0
3/14/20 3:30	8.7	356.3	15.66	0.641	28.84	0
3/14/20 3:45	10.1	350.2	15.79	0.567	28.84	0
3/14/20 4:00	11.29	354.4	15.72	0.587	28.86	0
3/14/20 4:15	11.06	4.533	14.05	0.457	28.86	0
3/14/20 4:30	11.74	1.999	14.36	0.457	28.86	0
3/14/20 4:45	11.56	0.473	17.31	0.496	28.86	0
3/14/20 5:00	9.76	2.187	14.12	0.645	28.88	0
3/14/20 5:15	8.96	7.943	13.29	0.526	28.88	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/14/20 5:30	10.65	17.38	14.95	0.476	28.88	0
3/14/20 5:45	8.39	42.17	16.49	0.214	28.88	0
3/14/20 6:00	8.39	39.73	13.11	0.203	28.92	0
3/14/20 6:15	6.063	47.33	14.41	-0.117	28.92	0
3/14/20 6:30	8.99	25.92	8.84	-0.047	28.92	0
3/14/20 6:45	8.95	21.06	9.59	0.047	28.92	0
3/14/20 7:00	8.94	20.74	9.08	0.015	28.94	0
3/14/20 7:15	7.933	23.02	8.87	-0.053	28.94	0
3/14/20 7:30	8.79	20.28	10.44	0.174	28.94	0
3/14/20 7:45	6.309	31.22	12.48	0.436	28.94	0
3/14/20 8:00	8.73	28.49	8.39	0.696	28.99	0
3/14/20 8:15	8.03	45.62	14.36	1.408	28.99	0
3/14/20 8:30	9.67	39.76	12.61	1.421	28.99	0
3/14/20 8:45	8.79	35.94	8.59	1.293	28.99	0
3/14/20 9:00	8.4	36.92	13.37	1.389	29.01	0
3/14/20 9:15	8.32	35.44	15.39	1.728	29.01	0
3/14/20 9:30	8.02	57.98	15.32	2.339	29.01	0
3/14/20 9:45	6.295	87.6	19.05	2.58	29.01	0
3/14/20 10:00	10.47	97.2	15.73	2.59	29.05	0
3/14/20 10:15	9.53	79.09	23.36	2.566	29.05	0
3/14/20 10:30	10.68	67.56	13.76	2.424	29.05	0
3/14/20 10:45	11.22	65.22	13.91	2.476	29.05	0
3/14/20 11:00	11.56	61.1	14.74	2.624	29.07	0
3/14/20 11:15	10.8	73.38	16.48	2.6	29.07	0
3/14/20 11:30	10.81	75.19	17.35	2.923	29.07	0
3/14/20 11:45	9.15	83.5	22.68	3.122	29.07	0
3/14/20 12:00	10.05	62.47	19.61	3.348	29.08	0
3/14/20 12:15	9.4	63.38	16.5	3.839	29.08	0
3/14/20 12:30	10.74	59.34	21.54	4.074	29.08	0
3/14/20 12:45	12.59	68.09	29.56	4.093	29.08	0
3/14/20 13:00	11.95	88.6	18.26	4.485	29.1	0
3/14/20 13:15	11.11	72.83	24.42	4.712	29.1	0
3/14/20 13:30	9.78	84.1	24.91	5.005	29.1	0
3/14/20 13:45	9.96	70.03	26.53	5.024	29.1	0
3/14/20 14:00	11.56	79.44	20.94	4.786	29.1	0
3/14/20 14:15	8.64	70.9	19.05	5.107	29.1	0
3/14/20 14:30	12.04	76.29	19.61	4.986	29.1	0
3/14/20 14:45	11.11	71.67	18.83	5.138	29.1	0
3/14/20 15:00	12.02	72.54	25.6	5.394	29.13	0
3/14/20 15:15	11.37	89.9	18.96	5.071	29.13	0
3/14/20 15:30	10.77	73.07	17.52	4.984	29.13	0
3/14/20 15:45	11.3	76.22	18.16	4.853	29.13	0
3/14/20 16:00	10.43	83.3	21.4	4.698	29.13	0
3/14/20 16:15	10.56	88.9	19.24	4.574	29.13	0
3/14/20 16:30	9.53	101.7	17.7	4.495	29.13	0
3/14/20 16:45	11	99.8	17.31	4.315	29.13	0
3/14/20 17:00	8.44	100.5	19.57	4.185	29.16	0
3/14/20 17:15	7.177	100.4	20.83	4.141	29.16	0
3/14/20 17:30	8.7	88.6	18.47	3.882	29.16	0
3/14/20 17:45	6.914	70.5	26.38	3.657	29.16	0
3/14/20 18:00	8.43	51.66	14.7	3.371	29.2	0
3/14/20 18:15	6.957	60.59	15.65	2.893	29.2	0
3/14/20 18:30	8.41	53.94	17.01	2.602	29.2	0
3/14/20 18:45	6.888	64.82	17.19	2.387	29.2	0
3/14/20 19:00	7.979	62.3	12.22	2.305	29.21	0
3/14/20 19:15	5.376	54.54	18.9	1.903	29.21	0
3/14/20 19:30	4.899	49.71	16.26	1.383	29.21	0
3/14/20 19:45	2.268	77.96	24.49	1.329	29.21	0
3/14/20 20:00	2.192	42.41	21.24	1.687	29.23	0
3/14/20 20:15	5.037	87.8	18.58	1.61	29.23	0
3/14/20 20:30	7.556	106.7	13.85	1.744	29.23	0
3/14/20 20:45	6.321	88.3	18.92	1.447	29.23	0
3/14/20 21:00	4.409	66.99	15.07	0.966	29.25	0
3/14/20 21:15	7.448	59.71	13.32	1.095	29.25	0
3/14/20 21:30	6.33	66.2	15.44	0.927	29.25	0
3/14/20 21:45	4.565	57.83	17.53	0.927	29.25	0
3/14/20 22:00	6.291	71.8	23.37	0.847	29.26	0
3/14/20 22:15	6.929	90.4	16.46	1.069	29.26	0
3/14/20 22:30	4.826	78.01	25.73	0.979	29.26	0
3/14/20 22:45	5.813	71.33	22.43	0.998	29.26	0
3/14/20 23:00	4.376	58.2	21.11	0.849	29.26	0
3/14/20 23:15	5.96	51.81	16.94	0.904	29.26	0
3/14/20 23:30	7.388	46.34	11.84	0.865	29.26	0
3/14/20 23:45	6.687	56.04	16.74	0.636	29.26	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/15/20 0:00	4.011	41.21	8.88	-0.052	29.27	0
3/15/20 0:15	4.314	29.52	23.42	-0.641	29.27	0
3/15/20 0:30	4.163	23.76	11.84	-0.936	29.27	0
3/15/20 0:45	3.227	31.77	20.61	-0.783	29.27	0
3/15/20 1:00	3.569	33.55	16.32	-1.058	29.26	0
3/15/20 1:15	4.185	30.42	17.68	-1.059	29.26	0
3/15/20 1:30	5.031	24.92	11.69	-1.376	29.26	0
3/15/20 1:45	4.556	21.97	12.56	-1.505	29.26	0
3/15/20 2:00	5.109	32.79	11.51	-2.029	29.28	0
3/15/20 2:15	6.202	27.23	10.44	-2.191	29.28	0
3/15/20 2:30	8.1	25.1	8.94	-2.098	29.28	0
3/15/20 2:45	8.58	28.48	8.42	-1.841	29.28	0
3/15/20 3:00	8.54	23.66	8.8	-1.953	29.27	0
3/15/20 3:15	8.29	6.89	12.64	-1.913	29.27	0
3/15/20 3:30	10.31	14.89	8.1	-1.893	29.27	0
3/15/20 3:45	10.75	11.12	9.44	-1.919	29.27	0
3/15/20 4:00	11.84	26.72	7.09	-2.158	29.25	0
3/15/20 4:15	11.56	27.94	7.148	-2.162	29.25	0
3/15/20 4:30	9.29	20.88	8.41	-2.036	29.25	0
3/15/20 4:45	8.68	23.46	9.44	-1.918	29.25	0
3/15/20 5:00	7.867	25.21	10.85	-2.014	29.25	0
3/15/20 5:15	12.73	11.54	10.35	-2.049	29.25	0
3/15/20 5:30	9.47	13.78	10.56	-2.076	29.25	0
3/15/20 5:45	10.66	12	13.57	-1.943	29.25	0
3/15/20 6:00	7.034	14.37	17.06	-2.085	29.26	0
3/15/20 6:15	12.02	18.55	7.219	-2.084	29.26	0
3/15/20 6:30	13.72	22.99	8.51	-2.037	29.26	0
3/15/20 6:45	13.18	21.51	9.6	-2.121	29.26	0
3/15/20 7:00	12.24	26.68	7.992	-2.188	29.28	0
3/15/20 7:15	10.68	29.98	6.739	-2.209	29.28	0
3/15/20 7:30	12.69	25.34	7.296	-2.046	29.28	0
3/15/20 7:45	11.92	29.16	7.038	-1.767	29.28	0
3/15/20 8:00	11.15	32.27	8.03	-1.652	29.27	0
3/15/20 8:15	12.24	26.28	8.83	-1.373	29.27	0
3/15/20 8:30	12.44	18.61	8.77	-1.184	29.27	0
3/15/20 8:45	9.71	11.32	12.8	-0.147	29.27	0
3/15/20 9:00	11.83	20.35	8.53	-0.053	29.29	0
3/15/20 9:15	12.68	25.46	9.84	-0.141	29.29	0
3/15/20 9:30	13.32	21.82	10.76	0.563	29.29	0
3/15/20 9:45	12.06	21.9	10.22	0.782	29.29	0
3/15/20 10:00	13.1	22.38	9.38	0.913	29.28	0
3/15/20 10:15	14.43	21.47	9.93	0.929	29.28	0
3/15/20 10:30	14.86	19.41	11.11	1.148	29.28	0
3/15/20 10:45	12.92	17.2	13.85	2.019	29.28	0
3/15/20 11:00	14.41	17.58	12.61	2.843	29.29	0
3/15/20 11:15	14.36	23.17	12.11	3.238	29.29	0
3/15/20 11:30	14.69	17.97	12.98	3.717	29.29	0
3/15/20 11:45	14.4	15.23	15.73	3.961	29.29	0
3/15/20 12:00	16.12	21.3	13.06	4.505	29.26	0
3/15/20 12:15	16.53	13.31	10.34	4.673	29.26	0
3/15/20 12:30	16.23	19.82	12.99	5.313	29.26	0
3/15/20 12:45	15.23	22.19	12.13	5.47	29.26	0
3/15/20 13:00	16.2	21.5	13.06	5.665	29.26	0
3/15/20 13:15	15.87	15.91	13.11	5.783	29.26	0
3/15/20 13:30	15.61	21.08	11.57	5.696	29.26	0
3/15/20 13:45	16.18	8.58	16.65	6.075	29.26	0
3/15/20 14:00	13.54	8.55	15.6	6.605	29.26	0
3/15/20 14:15	13.47	2.418	18.65	6.555	29.26	0
3/15/20 14:30	12.02	355.8	19.43	6.61	29.26	0
3/15/20 14:45	13.04	348.2	18.09	6.863	29.26	0
3/15/20 15:00	12.95	349.6	17.35	6.846	29.27	0
3/15/20 15:15	14.19	3.71	17.15	6.73	29.27	0
3/15/20 15:30	13.69	6.087	14.95	6.734	29.27	0
3/15/20 15:45	14.91	7.372	13.18	6.574	29.27	0
3/15/20 16:00	14.58	16.26	13.42	6.545	29.24	0
3/15/20 16:15	14.09	20.6	11.44	6.496	29.24	0
3/15/20 16:30	15.16	22.28	11.57	6.689	29.24	0
3/15/20 16:45	14.74	19.88	12.1	6.643	29.24	0
3/15/20 17:00	14.4	16.89	11.47	6.605	29.23	0
3/15/20 17:15	15.12	15.94	10.96	6.461	29.23	0
3/15/20 17:30	15.35	12.36	11.47	6.284	29.23	0
3/15/20 17:45	14.14	8.17	12.17	6.115	29.23	0
3/15/20 18:00	10.03	4.747	14.26	5.796	29.28	0
3/15/20 18:15	11.18	11.66	11.49	5.613	29.28	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/15/20 18:30	11.39	2.891	16.58	5.241	29.28	0
3/15/20 18:45	12	340.2	12.2	4.696	29.28	0
3/15/20 19:00	11.22	5.043	15.09	4.51	29.27	0
3/15/20 19:15	10.65	14.82	11.96	4.613	29.27	0
3/15/20 19:30	7.226	16.57	15.43	4.349	29.27	0
3/15/20 19:45	5.249	36.88	21.37	4.066	29.27	0
3/15/20 20:00	6.947	24.29	13.04	4.179	29.3	0
3/15/20 20:15	6.329	16.31	23.72	4.189	29.3	0
3/15/20 20:30	5.834	5.031	21.86	4.053	29.3	0
3/15/20 20:45	7.254	2.888	17.07	3.608	29.3	0
3/15/20 21:00	7.712	2.784	15.91	3.63	29.33	0
3/15/20 21:15	10.23	17.26	13.07	3.221	29.33	0
3/15/20 21:30	9.74	7.607	15.27	3.289	29.33	0
3/15/20 21:45	10.94	15.64	10.76	3.272	29.33	0
3/15/20 22:00	11.34	14.82	12.73	3.182	29.33	0
3/15/20 22:15	10.4	23.34	10.02	3.238	29.33	0
3/15/20 22:30	10.61	14.7	13.54	3.402	29.33	0
3/15/20 22:45	11.94	13.77	14.12	3.456	29.33	0
3/15/20 23:00	14.21	6.892	16.39	3.528	29.32	0
3/15/20 23:15	14.28	15.67	11.24	3.488	29.32	0
3/15/20 23:30	13.82	15.41	12.23	3.514	29.32	0
3/15/20 23:45	13.38	18.85	13.28	3.477	29.32	0
3/16/20 0:00	11.35	16.83	14.2	3.453	29.32	0
3/16/20 0:15	11.48	14.13	12.24	3.299	29.32	0
3/16/20 0:30	12.62	20.59	9.81	3.406	29.32	0
3/16/20 0:45	13.7	19.42	10.19	3.286	29.32	0
3/16/20 1:00	12.74	12.21	13.36	3.353	29.33	0
3/16/20 1:15	13.61	6.043	16.04	3.394	29.33	0
3/16/20 1:30	12.28	8.14	14.62	3.227	29.33	0
3/16/20 1:45	12.07	19.2	12.68	3.299	29.33	0
3/16/20 2:00	12.27	30.84	14.62	3.199	29.35	0
3/16/20 2:15	9.91	39.88	11.94	2.761	29.35	0
3/16/20 2:30	8.67	27.27	12.6	2.654	29.35	0
3/16/20 2:45	3.837	4.561	26.98	2.974	29.35	0
3/16/20 3:00	7.721	28.94	12.08	2.943	29.35	0
3/16/20 3:15	11.32	28.02	10	2.971	29.35	0
3/16/20 3:30	15.31	27.69	9.23	3.025	29.35	0
3/16/20 3:45	14.94	25.17	10.25	3.019	29.35	0
3/16/20 4:00	11.93	20.67	10.48	2.954	29.33	0
3/16/20 4:15	10.28	21.99	11.03	2.869	29.33	0
3/16/20 4:30	11.7	24.73	11.07	2.982	29.33	0
3/16/20 4:45	9.4	26.63	6.932	2.821	29.33	0
3/16/20 5:00	10.28	29.36	8.34	2.567	29.35	0
3/16/20 5:15	9.03	26.95	9.6	2.35	29.35	0
3/16/20 5:30	6.081	30.58	10.26	1.897	29.35	0
3/16/20 5:45	7.76	25.73	9.22	1.405	29.35	0
3/16/20 6:00	5.195	29.09	11.09	1.29	29.37	0
3/16/20 6:15	6.342	29.29	9.61	1.121	29.37	0
3/16/20 6:30	7.23	30.63	11.46	0.986	29.37	0
3/16/20 6:45	5.932	30.54	10.13	0.82	29.37	0
3/16/20 7:00	4.305	33.23	7.525	0.975	29.36	0
3/16/20 7:15	8.08	31.6	7.893	1.126	29.36	0
3/16/20 7:30	11	29.41	8.48	1.523	29.36	0
3/16/20 7:45	13.08	29.33	9.39	2.001	29.36	0
3/16/20 8:00	11.62	27.56	9.32	2.847	29.38	0
3/16/20 8:15	13.47	22.19	10.35	3.309	29.38	0
3/16/20 8:30	9.94	22.2	10	4.325	29.38	0
3/16/20 8:45	9.78	25.06	9.7	4.953	29.38	0
3/16/20 9:00	10.95	23.57	8.71	5.468	29.38	0
3/16/20 9:15	13.13	24.01	8.26	5.889	29.38	0
3/16/20 9:30	11.77	21.83	10.88	6.293	29.38	0
3/16/20 9:45	11.62	21.46	11.37	6.655	29.38	0
3/16/20 10:00	12.93	21.88	9.65	7.258	29.36	0
3/16/20 10:15	10.56	28.21	8.18	7.927	29.36	0
3/16/20 10:30	8.65	29.08	9.61	8.98	29.36	0
3/16/20 10:45	10.28	25.54	12.06	9.17	29.36	0
3/16/20 11:00	10.85	23.13	10.1	9.04	29.35	0
3/16/20 11:15	10.07	25	10.69	9.56	29.35	0
3/16/20 11:30	12.09	23.42	10.42	9.74	29.35	0
3/16/20 11:45	13.2	25.6	8.95	9.73	29.35	0
3/16/20 12:00	12.63	24.99	11.96	9.71	29.32	0
3/16/20 12:15	15.05	24.63	10.82	9.87	29.32	0
3/16/20 12:30	16.94	13.71	11.19	10.04	29.32	0
3/16/20 12:45	15.12	8.53	13.93	10.67	29.32	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/16/20 13:00	15.75	6.589	15.78	11.22	29.32	0
3/16/20 13:15	14.55	11.67	15.9	11.5	29.32	0
3/16/20 13:30	16.44	10.42	13.98	11.74	29.32	0
3/16/20 13:45	17.51	9.36	14.03	11.95	29.32	0
3/16/20 14:00	16.67	11.14	14.25	12.05	29.29	0
3/16/20 14:15	14.79	7.431	15.97	12.42	29.29	0
3/16/20 14:30	16.14	7.583	13.95	12.49	29.29	0
3/16/20 14:45	13.63	7.573	15.62	12.61	29.29	0
3/16/20 15:00	11.66	11.47	18.86	12.71	29.27	0
3/16/20 15:15	12.83	11.74	15.56	12.68	29.27	0
3/16/20 15:30	12.8	9.53	13.02	12.92	29.27	0
3/16/20 15:45	11.06	10.45	12.03	12.86	29.27	0
3/16/20 16:00	10.51	8.93	15.98	12.86	29.24	0
3/16/20 16:15	11.38	13.83	11.67	12.63	29.24	0
3/16/20 16:30	9.91	5.872	17.43	12.65	29.24	0
3/16/20 16:45	10.75	12.51	12.11	12.25	29.24	0
3/16/20 17:00	11.78	8.35	13.44	11.95	29.25	0
3/16/20 17:15	12.74	10.91	13.93	11.67	29.25	0
3/16/20 17:30	12.36	5.519	15.9	11.56	29.25	0
3/16/20 17:45	10.48	15.98	13	10.99	29.25	0
3/16/20 18:00	9.52	12.14	13.9	10.76	29.23	0
3/16/20 18:15	7.445	10.72	16.34	10.28	29.23	0
3/16/20 18:30	6.121	23.5	11.97	9.43	29.23	0
3/16/20 18:45	9.44	22.51	9.24	8.98	29.23	0
3/16/20 19:00	11.07	20.97	9.33	8.88	29.24	0
3/16/20 19:15	6.745	4.95	19.38	8.89	29.24	0
3/16/20 19:30	9.66	19.28	11.73	8.73	29.24	0
3/16/20 19:45	11.09	14.12	10.52	8.45	29.24	0
3/16/20 20:00	9.8	19.15	11.78	7.998	29.22	0
3/16/20 20:15	11.02	19.38	10.88	7.738	29.22	0
3/16/20 20:30	10.17	19.36	12.11	7.377	29.22	0
3/16/20 20:45	8.87	30.14	8.97	6.692	29.22	0
3/16/20 21:00	7.882	39.01	8.39	6.361	29.24	0
3/16/20 21:15	6.283	45.01	9.71	6.354	29.24	0
3/16/20 21:30	7.954	31.08	7.619	5.745	29.24	0
3/16/20 21:45	7.024	34.46	8.18	5.494	29.24	0
3/16/20 22:00	6.605	32.55	7.052	5.211	29.21	0
3/16/20 22:15	5.559	28.82	9.47	4.869	29.21	0
3/16/20 22:30	4.3	30.75	10.32	4.734	29.21	0
3/16/20 22:45	3.831	38.96	10.56	4.865	29.21	0
3/16/20 23:00	4.167	39.68	9.57	4.436	29.19	0
3/16/20 23:15	3.887	42.74	9.34	4.458	29.19	0
3/16/20 23:30	4.528	33.86	8.34	4.347	29.19	0
3/16/20 23:45	2.87	82.7	15.55	4.349	29.19	0
3/17/20 0:00	3.5	113.4	10.8	4.939	29.17	0
3/17/20 0:15	1.61	116.7	20.22	5.659	29.17	0
3/17/20 0:30	1.694	139	12.17	5.344	29.17	0
3/17/20 0:45	2.504	113.1	15.46	3.756	29.17	0
3/17/20 1:00	2.674	31.78	15.93	3.927	29.14	0
3/17/20 1:15	1.126	103.6	43.74	4.728	29.14	0
3/17/20 1:30	2.863	135.3	7.766	4.788	29.14	0
3/17/20 1:45	1.901	198.8	17.61	4.606	29.14	0
3/17/20 2:00	2.017	258.2	17.78	4.096	29.11	0
3/17/20 2:15	2.84	282	8.62	4.156	29.11	0
3/17/20 2:30	2.62	272.7	13.99	3.975	29.11	0
3/17/20 2:45	0.427	335.4	48.94	3.166	29.11	0
3/17/20 3:00	1.03	337.2	83.4	3.683	29.12	0
3/17/20 3:15	3.369	177.3	4.738	3.848	29.12	0
3/17/20 3:30	5.587	170.5	4.131	2.461	29.12	0
3/17/20 3:45	3.948	141.3	13.8	2.782	29.12	0
3/17/20 4:00	3.174	157.4	9.44	3.043	29.1	0
3/17/20 4:15	1.671	247.9	46.15	2.147	29.1	0
3/17/20 4:30	0.5	246.8	22.62	2.555	29.1	0
3/17/20 4:45	0.913	175.8	42.5	2.555	29.1	0
3/17/20 5:00	1.439	112.8	21.12	1.844	29.08	0
3/17/20 5:15	0.811	135.7	17.53	2.997	29.08	0
3/17/20 5:30	1.931	29.21	51.1	3.141	29.08	0
3/17/20 5:45	2.842	26.91	17.17	1.9	29.08	0
3/17/20 6:00	1.869	74.91	5.449	1.469	29.08	0
3/17/20 6:15	1.345	19.59	49.01	2.482	29.08	0
3/17/20 6:30	4.44	349.6	17.73	1.522	29.08	0
3/17/20 6:45	4.14	38.44	6.785	0.36	29.08	0
3/17/20 7:00	3.265	30.58	6.519	0.252	29.07	0
3/17/20 7:15	3.337	25.33	4.948	1.201	29.07	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/17/20 7:30	2.095	62.89	17.12	2.617	29.07	0
3/17/20 7:45	2.242	101.3	7.37	3.032	29.07	0
3/17/20 8:00	2.299	158.1	35.42	2.766	29.08	0
3/17/20 8:15	1.408	178.7	33.73	4.222	29.08	0
3/17/20 8:30	2.936	159.6	16.13	5.071	29.08	0
3/17/20 8:45	2.435	192.1	17.81	5.189	29.08	0
3/17/20 9:00	3.142	227.4	15.94	5.27	29.06	0
3/17/20 9:15	1.947	229.8	24.56	5.949	29.06	0
3/17/20 9:30	1.426	254.8	21.54	6.437	29.06	0
3/17/20 9:45	1.241	276.5	26.64	7.16	29.06	0
3/17/20 10:00	1.794	286.1	38.55	7.598	29.06	0
3/17/20 10:15	1.92	315.1	65.22	7.971	29.06	0
3/17/20 10:30	2.816	342.4	30.73	8.31	29.06	0
3/17/20 10:45	3.127	44.46	17.93	8.26	29.06	0
3/17/20 11:00	3.065	43.21	22.78	8.49	29.02	0
3/17/20 11:15	4.52	25.96	16.73	8.82	29.02	0
3/17/20 11:30	4.68	48.75	19.76	8.62	29.02	0
3/17/20 11:45	4.072	34.79	13.25	8.77	29.02	0
3/17/20 12:00	4.659	34.86	15.32	8.92	29.03	0
3/17/20 12:15	4.047	47.2	20.19	9.19	29.03	0
3/17/20 12:30	2.437	35.6	32.93	9.69	29.03	0
3/17/20 12:45	1.345	3.054	46.35	10.54	29.03	0
3/17/20 13:00	3.874	340.2	33.96	10.74	28.99	0
3/17/20 13:15	2.651	323.4	35.6	10.8	28.99	0
3/17/20 13:30	4.144	312.9	33.04	10.95	28.99	0
3/17/20 13:45	4.969	288.9	19.84	11.01	28.99	0
3/17/20 14:00	3.496	308.8	65.47	11.31	28.97	0
3/17/20 14:15	3.937	17.05	21.11	11.56	28.97	0
3/17/20 14:30	4.314	41.85	28.2	11.35	28.97	0
3/17/20 14:45	4.264	31.61	20.21	11.27	28.97	0
3/17/20 15:00	2.851	39.03	29.87	11.75	28.98	0
3/17/20 15:15	3.744	25.7	15.18	11.64	28.98	0
3/17/20 15:30	3.749	333.5	32.45	11.99	28.98	0
3/17/20 15:45	5.818	280.6	24.4	11.82	28.98	0
3/17/20 16:00	7.973	277.3	10.01	11.3	28.96	0
3/17/20 16:15	8.86	277.3	7.157	10.82	28.96	0
3/17/20 16:30	7.951	275.2	6.712	10.65	28.96	0
3/17/20 16:45	7.043	273.4	10.05	10.55	28.96	0
3/17/20 17:00	5.287	289.4	12.24	10.52	28.96	0
3/17/20 17:15	4.522	299.3	9.01	10.69	28.96	0
3/17/20 17:30	3.549	297.9	7.842	10.64	28.96	0
3/17/20 17:45	2.774	312.2	7.048	10.55	28.96	0
3/17/20 18:00	2.13	294.5	22.62	10.37	28.94	0
3/17/20 18:15	3.384	258.8	6.944	9.59	28.94	0
3/17/20 18:30	3.351	252.6	7.966	9.19	28.94	0
3/17/20 18:45	3.23	234.5	11.04	9.09	28.94	0
3/17/20 19:00	3.764	284.5	16.52	8.69	28.94	0
3/17/20 19:15	3.858	308.3	5.18	8.32	28.94	0
3/17/20 19:30	4.139	335.8	24.58	7.841	28.94	0
3/17/20 19:45	3.542	359.4	16.56	8.06	28.94	0
3/17/20 20:00	3.458	22.63	15.47	6.857	28.99	0
3/17/20 20:15	7.035	31.41	8.69	6.709	28.99	0
3/17/20 20:30	7.322	31.86	8.82	6.699	28.99	0
3/17/20 20:45	6.562	28.29	8.24	6.493	28.99	0
3/17/20 21:00	5.139	31.55	6.238	6.048	28.99	0
3/17/20 21:15	5.344	36.33	7.619	5.817	28.99	0
3/17/20 21:30	3.984	49.53	7.57	5.475	28.99	0
3/17/20 21:45	4.953	44.43	10.09	5.273	28.99	0
3/17/20 22:00	3.446	95.1	23.07	5.032	28.99	0
3/17/20 22:15	3.71	150	16.5	5.596	28.99	0
3/17/20 22:30	3.719	178.7	6.916	5.478	28.99	0
3/17/20 22:45	1.744	169	62.2	4.755	28.99	0
3/17/20 23:00	3.177	158	15.81	4.679	28.99	0
3/17/20 23:15	3.797	144.3	6.166	4.896	28.99	0
3/17/20 23:30	4.131	138.3	7.903	5.291	28.99	0
3/17/20 23:45	1.593	74.44	39.24	4.961	28.99	0
3/18/20 0:00	3.826	12.36	8.06	4.212	29	0
3/18/20 0:15	2.665	340.5	30	3.902	29	0
3/18/20 0:30	4.085	301.9	8.94	4.686	29	0
3/18/20 0:45	2.832	306.4	1.756	4.657	29	0
3/18/20 1:00	1.974	174.1	16.36	4.316	29.01	0
3/18/20 1:15	2.203	152.1	11.33	3.829	29.01	0
3/18/20 1:30	3.735	168.6	8.33	3.644	29.01	0
3/18/20 1:45	3.108	144.3	34.44	3.682	29.01	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/18/20 2:00	1.184	54.38	63.79	4.178	29.02	0
3/18/20 2:15	3.244	178.3	8.9	3.878	29.02	0
3/18/20 2:30	3.751	167.3	9.11	3.782	29.02	0
3/18/20 2:45	5.379	167.3	7.634	3.266	29.02	0
3/18/20 3:00	5.901	163.5	9.91	3.109	29.01	0
3/18/20 3:15	2.428	125.2	11.76	2.893	29.01	0
3/18/20 3:30	1.88	151.7	29.92	3.253	29.01	0
3/18/20 3:45	4.569	185.6	9.4	2.328	29.01	0
3/18/20 4:00	3.698	138.5	22.46	2.206	29.03	0
3/18/20 4:15	2.682	100.2	6.477	2.38	29.03	0
3/18/20 4:30	3.81	136.7	17.83	2.499	29.03	0
3/18/20 4:45	4.222	166	8.96	2.733	29.03	0
3/18/20 5:00	4.984	158.6	5.748	2.702	29.05	0
3/18/20 5:15	5.829	160.6	3.506	2.469	29.05	0
3/18/20 5:30	4.4	169.9	10.65	2.658	29.05	0
3/18/20 5:45	4.389	179.1	10.12	2.618	29.05	0
3/18/20 6:00	5.967	185.3	8.6	2.177	29.04	0
3/18/20 6:15	5.045	178.6	7.01	1.889	29.04	0
3/18/20 6:30	4.725	167.8	9.58	1.705	29.04	0
3/18/20 6:45	4.745	159.8	8.12	1.384	29.04	0
3/18/20 7:00	5.848	154.6	2.956	1.706	29.08	0
3/18/20 7:15	5.19	175.1	7.092	2.117	29.08	0
3/18/20 7:30	4.878	183.4	8.73	2.145	29.08	0
3/18/20 7:45	4.735	184	12.45	2.233	29.08	0
3/18/20 8:00	3.579	140.2	13.44	3.299	29.09	0
3/18/20 8:15	3.364	103.4	12.72	3.686	29.09	0
3/18/20 8:30	3.821	104.3	6.32	3.782	29.09	0
3/18/20 8:45	3.572	148.2	20.08	4.43	29.09	0
3/18/20 9:00	3.306	191	22.24	4.454	29.11	0
3/18/20 9:15	4.345	204.9	8.52	4.551	29.11	0
3/18/20 9:30	4.171	188.4	16.01	4.703	29.11	0
3/18/20 9:45	3.096	178.8	27.63	5.287	29.11	0
3/18/20 10:00	3.458	204	19.69	5.542	29.09	0
3/18/20 10:15	5.014	209.3	26.37	5.823	29.09	0
3/18/20 10:30	4.691	185.3	14.74	5.905	29.09	0
3/18/20 10:45	4.116	180.4	17.88	6.166	29.09	0
3/18/20 11:00	2.616	201.5	23.83	6.733	29.11	0
3/18/20 11:15	4.55	226.1	22.48	6.999	29.11	0
3/18/20 11:30	2.366	208.1	46.1	7.805	29.11	0
3/18/20 11:45	2.542	138.9	73.17	8.01	29.11	0
3/18/20 12:00	2.779	206.5	56.18	8.85	29.09	0
3/18/20 12:15	4.318	264.1	49.58	8.79	29.09	0
3/18/20 12:30	4.187	287.6	32.57	9.14	29.09	0
3/18/20 12:45	3.381	281.4	44.82	9.82	29.09	0
3/18/20 13:00	4.25	209.9	29.31	9.96	29.08	0
3/18/20 13:15	5.554	191.6	14.28	10.19	29.08	0
3/18/20 13:30	4.375	188.6	28.05	10.6	29.08	0
3/18/20 13:45	4.34	223	27.59	11	29.08	0
3/18/20 14:00	4.23	226	30.84	10.89	29.06	0
3/18/20 14:15	4.649	205.8	36.53	11.27	29.06	0
3/18/20 14:30	5.269	216.4	39.89	11.48	29.06	0
3/18/20 14:45	4.603	269.6	49.07	11.79	29.06	0
3/18/20 15:00	5.568	286.4	19.41	11.74	29.04	0
3/18/20 15:15	5.962	277	15.78	11.92	29.04	0
3/18/20 15:30	5.06	262.9	23.28	11.95	29.04	0
3/18/20 15:45	5.922	262.9	20.16	12.02	29.04	0
3/18/20 16:00	4.585	247.9	26.92	12.06	29.05	0
3/18/20 16:15	4.43	266.2	32.65	12.04	29.05	0
3/18/20 16:30	3.484	290.5	20.55	12.24	29.05	0
3/18/20 16:45	4.236	298.9	28.46	12.05	29.05	0
3/18/20 17:00	4.053	288.3	45.2	11.9	29.06	0
3/18/20 17:15	3.663	266.5	28.78	11.92	29.06	0
3/18/20 17:30	3.053	284	25.58	11.85	29.06	0
3/18/20 17:45	4.947	320.7	5.352	11.13	29.06	0
3/18/20 18:00	4.81	318.4	3.712	10.62	29.06	0
3/18/20 18:15	4.722	312.1	3.721	10.38	29.06	0
3/18/20 18:30	4.916	315	3.468	10.09	29.06	0
3/18/20 18:45	4.18	327.9	9.14	10.01	29.06	0
3/18/20 19:00	2.873	354.6	14.49	9.85	29.08	0
3/18/20 19:15	1.665	27.91	2.16	9.2	29.08	0
3/18/20 19:30	1.133	33.45	1.315	8.78	29.08	0
3/18/20 19:45	2.068	34.54	3.546	8.85	29.08	0
3/18/20 20:00	3.055	52.35	9.22	8.62	29.09	0
3/18/20 20:15	2.72	65.94	5.988	8.23	29.09	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
3/18/20 20:30	2.903	92.5	10	7.303	29.09	0
3/18/20 20:45	2.597	103.1	3.318	7.64	29.09	0
3/18/20 21:00	2.872	101.9	5.629	7.179	29.1	0
3/18/20 21:15	1.346	119.3	14.71	7.255	29.1	0
3/18/20 21:30	1.009	120.3	12.19	7.379	29.1	0
3/18/20 21:45	1.896	117.9	8.92	6.709	29.1	0
3/18/20 22:00	2.381	119.1	7.183	6.696	29.1	0
3/18/20 22:15	2.623	140.7	11.47	6.876	29.1	0
3/18/20 22:30	2.767	153.2	6.14	6.862	29.1	0
3/18/20 22:45	1.235	128.1	15.89	6.486	29.1	0
3/18/20 23:00	0.676	26.1	41.14	5.84	29.1	0
3/18/20 23:15	2.067	29.48	20.16	5.564	29.1	0
3/18/20 23:30	0.577	57.23	1.205	4.926	29.1	0
3/18/20 23:45	1.89	62.06	8.97	4.483	29.1	0
3/19/20 0:00	0.909	42.71	1.679	4.006	29.1	0
3/19/20 0:15	1.303	209	59.29	4.238	29.1	0
3/19/20 0:30	3.964	207.7	16.37	4.117	29.1	0
3/19/20 0:45	4.497	167.1	8.52	4.117	29.1	0
3/19/20 1:00	4.502	164.9	3.16	3.912	29.11	0
3/19/20 1:15	4.798	162.9	4.429	3.982	29.11	0
3/19/20 1:30	3.749	161.4	4.99	4.334	29.11	0
3/19/20 1:45	3.77	150.8	7.958	4.346	29.11	0
3/19/20 2:00	5.279	153.3	3.797	4.101	29.12	0
3/19/20 2:15	4.901	153.7	4.535	3.801	29.12	0
3/19/20 2:30	5.252	130.5	19.17	3.923	29.12	0
3/19/20 2:45	5.802	114.1	8.35	3.998	29.12	0
3/19/20 3:00	5.56	131.1	4.553	4.006	29.11	0
3/19/20 3:15	4.422	119.7	4.001	4.099	29.11	0
3/19/20 3:30	4.543	123.6	4.186	4.217	29.11	0
3/19/20 3:45	4.065	125.9	4.147	3.986	29.11	0
3/19/20 4:00	3.9	121.7	5.717	4.117	29.11	0
3/19/20 4:15	3.537	151.5	9.87	3.924	29.11	0
3/19/20 4:30	2.848	163.6	11.06	3.566	29.11	0
3/19/20 4:45	3.668	165.8	6.647	3.431	29.11	0
3/19/20 5:00	4.894	175.9	3.898	3.021	29.14	0
3/19/20 5:15	4.733	172.9	7.831	3.201	29.14	0
3/19/20 5:30	5.306	168.6	6.403	3.176	29.14	0
3/19/20 5:45	5.364	143.8	13.23	3.239	29.14	0
3/19/20 6:00	4.055	120.4	8.8	3.237	29.15	0
3/19/20 6:15	2.508	98.3	4.475	3.251	29.15	0
3/19/20 6:30	2.441	94.2	2.76	3.186	29.15	0
3/19/20 6:45	1.625	95.4	3.726	3.517	29.15	0
3/19/20 7:00	2.152	104	5.072	3.743	29.15	0
3/19/20 7:15	2.283	127.9	14.76	3.768	29.15	0
3/19/20 7:30	3.655	172	10.58	3.95	29.15	0
3/19/20 7:45	3.562	177.1	8.79	3.685	29.15	0
3/19/20 8:00	3.498	172.4	10.59	4.249	29.16	0
3/19/20 8:15	4.686	157.6	9.4	4.905	29.16	0
3/19/20 8:30	4.65	167.4	14.03	5.247	29.16	0
3/19/20 8:45	5.664	185.5	9.26	5.416	29.16	0
3/19/20 9:00	5.496	180.8	8.05	5.758	29.2	0
3/19/20 9:15	3.258	181	14.59	6.443	29.2	0
3/19/20 9:30	2.231	173.8	28.06	7.284	29.2	0
3/19/20 9:45	2.001	200.9	47.75	8.05	29.2	0
3/19/20 10:00	1.344	201.8	34	8.54	29.19	0
3/19/20 10:15	1.687	230.8	43.06	8.97	29.19	0
3/19/20 10:30	1.959	223.8	49.11	9.58	29.19	0
3/19/20 10:45	1.906	262.7	51.1	10.06	29.19	0
3/19/20 11:00	2.223	235.2	27.09	10.47	29.2	0
3/19/20 11:15	3.137	244.8	49.77	10.86	29.2	0
3/19/20 11:30	2.992	251.8	36.42	11.11	29.2	0
3/19/20 11:45	4.603	281.1	27.18	11.37	29.2	0
3/19/20 12:00	5.56	252	18.82	11.56	29.19	0
3/19/20 12:15	4.922	263.1	22.53	11.83	29.19	0
3/19/20 12:30	4.667	253	35.45	12.33	29.19	0
3/19/20 12:45	4.525	272.2	25.96	12.66	29.19	0
3/19/20 13:00	3.852	289	31.57	13.05	29.22	0
3/19/20 13:15	4.952	264.1	35.88	13.28	29.22	0
3/19/20 13:30	3.81	251	38.18	13.57	29.22	0
3/19/20 13:45	3.873	320.1	34.15	13.69	29.22	0
3/19/20 14:00	4.566	267.3	32.07	13.92	29.21	0
3/19/20 14:15	5.115	279.7	23.21	14.35	29.21	0
3/19/20 14:30	4.866	277.9	30.82	14.39	29.21	0
3/19/20 14:45	7.713	232.2	14.24	14.24	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/19/20 15:00	5.027	258.1	23.61	14.31	29.21	0
3/19/20 15:15	5.579	248.5	32.67	14.58	29.21	0
3/19/20 15:30	4.446	245.5	28.13	14.63	29.21	0
3/19/20 15:45	5.352	226	22.24	14.65	29.21	0
3/19/20 16:00	4.809	264.2	33.28	14.66	29.22	0
3/19/20 16:15	4.417	275.2	20.1	14.75	29.22	0
3/19/20 16:30	4.659	272.4	19.5	14.56	29.22	0
3/19/20 16:45	5.199	308.5	15.12	14.49	29.22	0
3/19/20 17:00	5.457	308.4	20.95	14.27	29.22	0
3/19/20 17:15	5.421	257.6	17.42	14.26	29.22	0
3/19/20 17:30	5.298	248	11.58	14.11	29.22	0
3/19/20 17:45	5.147	255.6	7.456	13.91	29.22	0
3/19/20 18:00	5.087	264.3	7.139	13.59	29.22	0
3/19/20 18:15	4.521	266.9	6.625	13.19	29.22	0
3/19/20 18:30	4.712	269.9	5.814	12.72	29.22	0
3/19/20 18:45	4.44	266.1	3.092	12.43	29.22	0
3/19/20 19:00	4.283	267	4.777	12.4	29.24	0
3/19/20 19:15	3.64	297	40.68	12.09	29.24	0
3/19/20 19:30	1.681	353.5	18.92	11.63	29.24	0
3/19/20 19:45	2.316	19.59	15.01	11.77	29.24	0
3/19/20 20:00	2.888	48.95	3.224	11.32	29.26	0
3/19/20 20:15	3.302	47.41	6.21	11.39	29.26	0
3/19/20 20:30	3.3	50.53	4.899	11.21	29.26	0
3/19/20 20:45	2.767	60.31	9.02	11.26	29.26	0
3/19/20 21:00	0.337	70.96	0.047	10.69	29.29	0
3/19/20 21:15	1.701	45.76	14.37	10.03	29.29	0
3/19/20 21:30	3.735	45.08	10.24	9.09	29.29	0
3/19/20 21:45	3.058	32.17	11.43	9.46	29.29	0
3/19/20 22:00	3.723	29.03	9.28	8.99	29.3	0
3/19/20 22:15	4.047	15.44	8.47	8.66	29.3	0
3/19/20 22:30	4.321	14.45	5.876	8.46	29.3	0
3/19/20 22:45	3.298	29.52	5.648	8.43	29.3	0
3/19/20 23:00	3.134	23.6	8.81	8.2	29.3	0
3/19/20 23:15	3.722	10.71	8.74	8.28	29.3	0
3/19/20 23:30	3.276	37.62	5.934	7.417	29.3	0
3/19/20 23:45	3.488	39.74	3.996	7.552	29.3	0
3/20/20 0:00	2.812	42.78	9.58	7.322	29.33	0
3/20/20 0:15	1.794	20.02	12.73	7.486	29.33	0
3/20/20 0:30	1.811	9.89	11.35	7.864	29.33	0
3/20/20 0:45	2.258	66.28	22.92	8.03	29.33	0
3/20/20 1:00	1.97	53.51	20.34	6.821	29.35	0
3/20/20 1:15	1.425	48.53	8.82	6.23	29.35	0
3/20/20 1:30	2.626	55.12	6.129	6.545	29.35	0
3/20/20 1:45	3.466	59.46	10.14	6.516	29.35	0
3/20/20 2:00	2.281	56.06	17.77	6.931	29.37	0
3/20/20 2:15	3.345	107.6	7.949	6.787	29.37	0
3/20/20 2:30	3.443	101.1	7.211	6.474	29.37	0
3/20/20 2:45	3.474	95.3	4.812	6.421	29.37	0
3/20/20 3:00	3.132	92.1	8.91	6.081	29.37	0
3/20/20 3:15	2.352	62.07	17.31	5.893	29.37	0
3/20/20 3:30	2.38	24.9	5.231	5.995	29.37	0
3/20/20 3:45	3.442	24.88	3.338	5.7	29.37	0
3/20/20 4:00	4.082	16.28	6.255	5.547	29.38	0
3/20/20 4:15	4.227	12	10.44	5.043	29.38	0
3/20/20 4:30	5.153	3.516	13.61	4.921	29.38	0
3/20/20 4:45	4.031	1.347	15.86	4.669	29.38	0
3/20/20 5:00	3.345	2.415	9.08	4.904	29.4	0
3/20/20 5:15	3.888	7.949	3.395	4.982	29.4	0
3/20/20 5:30	3.316	14.56	9.61	4.885	29.4	0
3/20/20 5:45	3.247	26.64	4.925	4.574	29.4	0
3/20/20 6:00	3.018	38.73	3.3	4.326	29.42	0
3/20/20 6:15	2.656	39.35	7.992	4.682	29.42	0
3/20/20 6:30	1.224	59.23	5.274	5.071	29.42	0
3/20/20 6:45	2.633	141.8	38.71	5.692	29.42	0
3/20/20 7:00	5.112	180.4	4.267	5.29	29.44	0
3/20/20 7:15	3.774	168.9	11.36	5.153	29.44	0
3/20/20 7:30	1.339	134.6	33.83	6.357	29.44	0
3/20/20 7:45	0.36	44.6	6.777	6.856	29.44	0
3/20/20 8:00	0.347	22.15	17.77	7.397	29.44	0
3/20/20 8:15	0.764	353.1	10.82	7.52	29.44	0
3/20/20 8:30	0.938	252.3	32.94	7.893	29.44	0
3/20/20 8:45	0.946	285.3	24.63	8.11	29.44	0
3/20/20 9:00	1.459	263	26.7	8.57	29.46	0
3/20/20 9:15	1.914	222.2	28.96	8.7	29.46	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/20/20 9:30	2.426	248.2	14.33	8.9	29.46	0
3/20/20 9:45	2.6	265.7	21.75	9.24	29.46	0
3/20/20 10:00	2.605	247.9	33.4	9.7	29.46	0
3/20/20 10:15	2.582	241.3	25.14	10.16	29.46	0
3/20/20 10:30	2.448	278.6	44.49	10.76	29.46	0
3/20/20 10:45	1.93	257.9	31.64	11.23	29.46	0
3/20/20 11:00	2.655	287.2	37.9	11.75	29.46	0
3/20/20 11:15	4.261	265.4	37.54	12.01	29.46	0
3/20/20 11:30	4.821	277.9	31.11	12.43	29.46	0
3/20/20 11:45	5.091	252	18.81	12.6	29.46	0
3/20/20 12:00	5.113	249.9	22.39	12.92	29.48	0
3/20/20 12:15	5.528	258.6	23.22	13.25	29.48	0
3/20/20 12:30	5.282	229.4	18.65	13.52	29.48	0
3/20/20 12:45	6.81	237.7	18.84	13.95	29.48	0
3/20/20 13:00	7.492	261	18.69	14.11	29.46	0
3/20/20 13:15	6.112	278.6	23.77	14.24	29.46	0
3/20/20 13:30	5.484	292.4	15.52	14.3	29.46	0
3/20/20 13:45	5.761	282.8	21.51	14.53	29.46	0
3/20/20 14:00	6.437	269.7	26.41	15	29.44	0
3/20/20 14:15	7.737	261.6	15.04	14.9	29.44	0
3/20/20 14:30	7.338	256.4	19.11	15.07	29.44	0
3/20/20 14:45	8.61	267.5	14.86	15.33	29.44	0
3/20/20 15:00	8.23	287.9	12.57	15.49	29.43	0
3/20/20 15:15	8.1	289.8	17.23	15.6	29.43	0
3/20/20 15:30	7.675	290.6	21.45	15.66	29.43	0
3/20/20 15:45	6.497	358.4	21.65	15.34	29.43	0
3/20/20 16:00	8.02	350.8	18.85	15.33	29.42	0
3/20/20 16:15	7.286	349.5	17.57	15.3	29.42	0
3/20/20 16:30	7.902	356.7	20.63	14.96	29.42	0
3/20/20 16:45	5.744	341.5	34.17	15.12	29.42	0
3/20/20 17:00	6.665	316.3	25.28	15.03	29.41	0
3/20/20 17:15	8.01	301.4	6.498	14.83	29.41	0
3/20/20 17:30	7.465	300.1	8.42	14.57	29.41	0
3/20/20 17:45	7.708	295.4	6.437	14.14	29.41	0
3/20/20 18:00	6.813	312.4	8.71	13.49	29.43	0
3/20/20 18:15	5.237	327.1	7.255	13.14	29.43	0
3/20/20 18:30	4.231	316.2	12.68	12.98	29.43	0
3/20/20 18:45	3.191	295.5	7.165	12.89	29.43	0
3/20/20 19:00	2.49	288.9	11.17	12.71	29.43	0
3/20/20 19:15	2.436	343.9	24.75	12.35	29.43	0
3/20/20 19:30	6.312	8.78	13.12	11.51	29.43	0
3/20/20 19:45	6.169	8.52	13.09	11.31	29.43	0
3/20/20 20:00	4.969	345.9	17.5	11.78	29.41	0
3/20/20 20:15	3.943	11.55	18.15	11.21	29.41	0
3/20/20 20:30	5.874	17.25	10.18	10.62	29.41	0
3/20/20 20:45	5.535	22.65	8.29	10.34	29.41	0
3/20/20 21:00	6.739	25.35	15.35	10.53	29.42	0
3/20/20 21:15	6.568	31.11	12.15	10.36	29.42	0
3/20/20 21:30	8.35	32.95	11.87	9.83	29.42	0
3/20/20 21:45	10.51	10.7	9.21	9.45	29.42	0
3/20/20 22:00	9	24.14	11.01	9.18	29.43	0
3/20/20 22:15	8.77	17.59	9.34	8.84	29.43	0
3/20/20 22:30	8.94	18.11	8.51	8.48	29.43	0
3/20/20 22:45	8.27	19.74	10.11	8.47	29.43	0
3/20/20 23:00	9.15	22.79	10.27	8.19	29.42	0
3/20/20 23:15	9.45	29.85	10.42	7.936	29.42	0
3/20/20 23:30	8.14	37.56	10.45	7.606	29.42	0
3/20/20 23:45	7.76	30.1	9.7	7.437	29.42	0
3/21/20 0:00	4.71	50.99	16.44	7.164	29.43	0
3/21/20 0:15	2.936	71.9	15.78	7.393	29.43	0
3/21/20 0:30	3.165	84.2	8.75	7.119	29.43	0
3/21/20 0:45	2.355	65.51	10.98	7.267	29.43	0
3/21/20 1:00	4.261	44.41	9	6.708	29.42	0
3/21/20 1:15	2.797	39.66	12.34	6.452	29.42	0
3/21/20 1:30	3.808	26	9.05	6.105	29.42	0
3/21/20 1:45	4.054	24.3	7.118	5.837	29.42	0
3/21/20 2:00	2.627	57.02	15.41	5.71	29.44	0
3/21/20 2:15	2.976	91	15.85	5.548	29.44	0
3/21/20 2:30	2.977	103.4	25.87	6.053	29.44	0
3/21/20 2:45	4.455	143	5.152	6.009	29.44	0
3/21/20 3:00	4.28	147.7	6.291	6.061	29.43	0
3/21/20 3:15	5.341	158.4	8.25	5.934	29.43	0
3/21/20 3:30	7	160.9	5.562	5.4	29.43	0
3/21/20 3:45	6.086	150.4	5.511	5.151	29.43	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/21/20 4:00	4.594	141.7	5.839	5.039	29.44	0
3/21/20 4:15	4.885	140.1	6.827	4.899	29.44	0
3/21/20 4:30	6.507	150.2	5.083	4.7	29.44	0
3/21/20 4:45	6.928	159.6	4.553	4.734	29.44	0
3/21/20 5:00	6.128	173.5	7.572	4.527	29.45	0
3/21/20 5:15	4.943	178.9	6.567	4.167	29.45	0
3/21/20 5:30	5.365	175	7.363	4.103	29.45	0
3/21/20 5:45	5.843	180.6	5.795	3.718	29.45	0
3/21/20 6:00	5.728	174.9	6.226	3.434	29.45	0
3/21/20 6:15	5.317	167.5	6.758	3.338	29.45	0
3/21/20 6:30	4.024	164.5	7.701	3.51	29.45	0
3/21/20 6:45	2.819	156.2	10.87	3.418	29.45	0
3/21/20 7:00	4.813	165.8	10.74	3.799	29.44	0
3/21/20 7:15	4.913	146.1	9.8	4.053	29.44	0
3/21/20 7:30	5.289	153.2	7.899	4.125	29.44	0
3/21/20 7:45	4.912	193.5	14.16	4.146	29.44	0
3/21/20 8:00	3.746	195.1	9.79	4.248	29.45	0
3/21/20 8:15	4.463	203.4	9.46	4.237	29.45	0
3/21/20 8:30	4.201	211	11.02	4.279	29.45	0
3/21/20 8:45	2.816	209.9	16.97	4.28	29.45	0
3/21/20 9:00	3.155	227.4	17.36	4.225	29.47	0
3/21/20 9:15	2.871	240.1	32.44	4.357	29.47	0
3/21/20 9:30	2.759	200.5	15.4	4.467	29.47	0
3/21/20 9:45	3.88	209.1	19.79	4.504	29.47	0
3/21/20 10:00	3.947	193.3	16.01	4.713	29.47	0
3/21/20 10:15	2.625	198.1	23.74	5.122	29.47	0
3/21/20 10:30	2.344	213.8	37.54	5.449	29.47	0
3/21/20 10:45	1.632	153.7	45.87	5.862	29.47	0
3/21/20 11:00	2.272	270.1	48.08	6.381	29.43	0
3/21/20 11:15	3.759	231	17.95	7.122	29.43	0
3/21/20 11:30	5.206	206.7	13.55	7.678	29.43	0
3/21/20 11:45	4.423	237.2	22.72	8.07	29.43	0
3/21/20 12:00	4.8	318.1	31.03	8.98	29.43	0
3/21/20 12:15	3.653	344.7	51.47	9.47	29.43	0
3/21/20 12:30	5.299	300.4	24.01	9.46	29.43	0
3/21/20 12:45	6.462	282.2	15.76	9.74	29.43	0
3/21/20 13:00	7.573	269.2	17.13	9.83	29.41	0
3/21/20 13:15	6.36	302	38.39	10.3	29.41	0
3/21/20 13:30	6.188	283.3	28.18	10.32	29.41	0
3/21/20 13:45	7.079	245.1	12.53	10.53	29.41	0
3/21/20 14:00	7.183	262	19.66	10.72	29.38	0
3/21/20 14:15	7.186	275.6	14.88	11.2	29.38	0
3/21/20 14:30	8.58	263.1	11.71	11.4	29.38	0
3/21/20 14:45	6.145	292.1	23.22	11.76	29.38	0
3/21/20 15:00	2.731	321.7	40.06	11.95	29.37	0
3/21/20 15:15	2.968	330	34.42	12.01	29.37	0
3/21/20 15:30	4.598	304.9	23.41	12.45	29.37	0
3/21/20 15:45	4.952	266.6	26.77	12.2	29.37	0
3/21/20 16:00	6.255	288.7	21.41	12.39	29.34	0
3/21/20 16:15	6.556	309.5	20.7	12.74	29.34	0
3/21/20 16:30	6.719	315.2	13.16	12.63	29.34	0
3/21/20 16:45	5.607	327.5	12.84	12.36	29.34	0
3/21/20 17:00	6.367	320	21.74	12.32	29.36	0
3/21/20 17:15	6.421	321.2	16.59	12.05	29.36	0
3/21/20 17:30	6.646	304	10.02	11.76	29.36	0
3/21/20 17:45	5.845	313.3	8.24	11.22	29.36	0
3/21/20 18:00	6.576	313.1	6.131	10.64	29.36	0
3/21/20 18:15	5.529	307	8.57	10.15	29.36	0
3/21/20 18:30	4.483	315.1	7.661	9.77	29.36	0
3/21/20 18:45	4.438	328.3	7.306	9.36	29.36	0
3/21/20 19:00	3.719	344.3	12.4	9.5	29.35	0
3/21/20 19:15	3.756	359.5	14.5	9.42	29.35	0
3/21/20 19:30	3.069	17.64	7.82	9.09	29.35	0
3/21/20 19:45	2.918	0.789	11.75	9.05	29.35	0
3/21/20 20:00	1.714	350.9	10.47	8.82	29.38	0
3/21/20 20:15	0.818	5.171	10.52	8.44	29.38	0
3/21/20 20:30	0.033	15.66	0.057	7.981	29.38	0
3/21/20 20:45	0.393	32.25	4.892	7.578	29.38	0
3/21/20 21:00	2.293	81.7	12.78	7.674	29.36	0
3/21/20 21:15	2.6	95.3	7.753	7.207	29.36	0
3/21/20 21:30	3.258	143.7	12.02	6.962	29.36	0
3/21/20 21:45	2.926	129	12.3	7.424	29.36	0
3/21/20 22:00	3.859	114.4	4.367	6.687	29.37	0
3/21/20 22:15	3.995	112.7	6.727	7.079	29.37	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/21/20 22:30	3.047	99	2.496	6.898	29.37	0
3/21/20 22:45	2.504	89.7	5.073	6.596	29.37	0
3/21/20 23:00	3.549	97.1	9.09	6.801	29.38	0
3/21/20 23:15	1.445	101.8	10.44	6.15	29.38	0
3/21/20 23:30	0.242	70.07	12.1	6.131	29.38	0
3/21/20 23:45	0.374	38.73	0.103	6.278	29.38	0
3/22/20 0:00	0.28	38.87	0	6.072	29.36	0
3/22/20 0:15	1.745	45.84	4.349	6.109	29.36	0
3/22/20 0:30	1.421	37.86	7.764	5.86	29.36	0
3/22/20 0:45	0.511	26.46	0.808	5.836	29.36	0
3/22/20 1:00	0.658	179.1	19.67	5.273	29.35	0
3/22/20 1:15	2.212	146.1	24.01	4.983	29.35	0
3/22/20 1:30	2.395	130.1	4.964	5.483	29.35	0
3/22/20 1:45	2.893	137.4	7.263	5.282	29.35	0
3/22/20 2:00	2.468	146.4	3.022	5.558	29.33	0
3/22/20 2:15	1.852	148.8	9.53	5.268	29.33	0
3/22/20 2:30	2.22	158.8	7.021	4.923	29.33	0
3/22/20 2:45	3.173	161.5	5.307	4.72	29.33	0
3/22/20 3:00	3.043	164.5	6.687	4.566	29.32	0
3/22/20 3:15	3.072	168.2	4.269	4.43	29.32	0
3/22/20 3:30	3.039	162.7	5.015	4.511	29.32	0
3/22/20 3:45	2.719	155.7	4.755	4.588	29.32	0
3/22/20 4:00	4.089	155	6.669	4.471	29.31	0
3/22/20 4:15	4.927	175.6	19	3.983	29.31	0
3/22/20 4:30	6.172	229.3	4.072	2.962	29.31	0
3/22/20 4:45	6.335	204.6	12.69	3.175	29.31	0
3/22/20 5:00	5.551	171.7	6.836	3.028	29.33	0
3/22/20 5:15	4.66	174.8	10.53	3.261	29.33	0
3/22/20 5:30	5.946	165.7	7.878	3.39	29.33	0
3/22/20 5:45	5.584	164.2	6.532	3.295	29.33	0
3/22/20 6:00	4.957	164.7	5.552	3.091	29.33	0
3/22/20 6:15	4.829	165.8	9.57	3.308	29.33	0
3/22/20 6:30	3.906	161.9	9.89	3.279	29.33	0
3/22/20 6:45	2.852	155.5	8	3.344	29.33	0
3/22/20 7:00	3.156	150.1	11.32	3.751	29.31	0
3/22/20 7:15	3.713	162.4	7.182	4.049	29.31	0
3/22/20 7:30	2.74	135.8	13.53	5.04	29.31	0
3/22/20 7:45	2.29	122.4	11.19	5.418	29.31	0
3/22/20 8:00	2.364	141.5	18.89	5.546	29.31	0
3/22/20 8:15	2.602	148.1	14.07	6.253	29.31	0
3/22/20 8:30	4.116	172.5	11	6.176	29.31	0
3/22/20 8:45	4.82	161.5	12.95	6.339	29.31	0
3/22/20 9:00	4.186	162.7	16.81	7.107	29.28	0
3/22/20 9:15	3.439	203.7	14.41	7.439	29.28	0
3/22/20 9:30	3.516	204.5	17.32	7.519	29.28	0
3/22/20 9:45	3.888	201.8	19	7.922	29.28	0
3/22/20 10:00	4.658	200	15	8.29	29.26	0
3/22/20 10:15	5.633	194.5	11.1	8.54	29.26	0
3/22/20 10:30	5.514	190.5	15.63	9.16	29.26	0
3/22/20 10:45	4.867	183.5	22.99	9.72	29.26	0
3/22/20 11:00	4.816	202.8	15.93	10.04	29.26	0
3/22/20 11:15	4.528	196.9	25.46	10.36	29.26	0
3/22/20 11:30	4.876	197.5	26.03	10.88	29.26	0
3/22/20 11:45	6.065	202	18.65	11.4	29.26	0
3/22/20 12:00	6.384	184.9	22.96	11.71	29.23	0
3/22/20 12:15	7.175	214.3	18.08	12.19	29.23	0
3/22/20 12:30	6.672	207.5	22.98	12.64	29.23	0
3/22/20 12:45	6.895	179.7	26.76	12.86	29.23	0
3/22/20 13:00	9.76	184.2	11.33	12.99	29.19	0
3/22/20 13:15	8.44	211.3	25.98	13.27	29.19	0
3/22/20 13:30	10.05	207.2	12.7	13.38	29.19	0
3/22/20 13:45	11.02	208.6	11.76	13.52	29.19	0
3/22/20 14:00	8.75	243.8	15.25	13.69	29.15	0
3/22/20 14:15	10.42	212.4	15.07	13.6	29.15	0
3/22/20 14:30	9.68	202.7	10.38	13.35	29.15	0
3/22/20 14:45	6.262	226.2	22.41	13.5	29.15	0
3/22/20 15:00	6.519	229.1	16.51	13.5	29.14	0
3/22/20 15:15	8.46	239.5	12.69	13.39	29.14	0
3/22/20 15:30	9.28	223.6	15.99	13.31	29.14	0
3/22/20 15:45	6.583	261.5	14.41	13.01	29.14	0
3/22/20 16:00	7.023	251	8.87	12.65	29.11	0
3/22/20 16:15	7.844	268.3	8.89	12.38	29.11	0
3/22/20 16:30	7.505	266.4	15.97	12.05	29.11	0
3/22/20 16:45	5.888	250.1	10.46	11.83	29.11	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/22/20 17:00	7.129	272	9.33	11.51	29.09	0
3/22/20 17:15	6.395	274.4	11.65	11.24	29.09	0
3/22/20 17:30	9.99	276.7	9.73	10.48	29.09	0
3/22/20 17:45	11.37	263.8	8.09	9.67	29.09	0
3/22/20 18:00	7.368	266.1	12.22	9.28	29.09	0
3/22/20 18:15	8.02	261.4	11.61	9.08	29.09	0
3/22/20 18:30	9.93	248.8	10.22	8.7	29.09	0
3/22/20 18:45	8.69	238	13.13	8.12	29.09	0
3/22/20 19:00	7.053	219.4	18.01	7.733	29.1	0
3/22/20 19:15	10.58	217.9	10.99	7.326	29.1	0
3/22/20 19:30	10.88	239.5	10.92	7.146	29.1	0
3/22/20 19:45	8.63	246.2	7.61	7.124	29.1	0
3/22/20 20:00	6.786	239	16.8	7.116	29.1	0
3/22/20 20:15	6.622	219.3	11.71	7.16	29.1	0
3/22/20 20:30	9.99	214.9	9.36	6.997	29.1	0
3/22/20 20:45	9.67	207.3	7.492	6.832	29.1	0
3/22/20 21:00	7.612	205.9	8.45	6.82	29.06	0
3/22/20 21:15	7.868	193.8	10.85	6.801	29.06	0
3/22/20 21:30	9.24	197.2	11.95	6.772	29.06	0
3/22/20 21:45	10.77	190.3	11.28	6.739	29.06	0
3/22/20 22:00	9.28	185.3	8.95	6.753	29.06	0
3/22/20 22:15	10.86	190.5	10.72	6.695	29.06	0
3/22/20 22:30	10.06	199.8	11.64	6.69	29.06	0
3/22/20 22:45	9.26	199.1	9.1	6.612	29.06	0
3/22/20 23:00	7.312	196.6	7.129	6.559	29.02	0
3/22/20 23:15	10.11	208.2	10.64	6.572	29.02	0
3/22/20 23:30	10.2	212.9	10.64	6.567	29.02	0
3/22/20 23:45	10.95	231.9	19.55	6.401	29.02	0
3/23/20 0:00	10.39	238.8	9.4	5.999	29.04	0
3/23/20 0:15	8.4	231.2	9.62	5.913	29.04	0
3/23/20 0:30	9.98	225.5	8.96	5.864	29.04	0
3/23/20 0:45	9.57	216.7	8.17	5.861	29.04	0
3/23/20 1:00	8.15	212.8	9.29	5.846	29	0
3/23/20 1:15	9.58	210.5	12.23	5.839	29	0
3/23/20 1:30	9.71	209.5	9.86	5.805	29	0
3/23/20 1:45	10.2	213.5	10.54	5.543	29	0
3/23/20 2:00	10.69	194.7	9.64	5.193	29.01	0
3/23/20 2:15	11.73	192.8	8.94	5.051	29.01	0
3/23/20 2:30	11.63	187.1	9.37	4.977	29.01	0
3/23/20 2:45	9.76	182.7	8.96	4.909	29.01	0
3/23/20 3:00	10.58	182.5	8.56	4.881	28.99	0
3/23/20 3:15	10.4	178.6	9.54	4.852	28.99	0
3/23/20 3:30	9.45	183.3	11.12	4.865	28.99	0
3/23/20 3:45	9.13	183.9	9.77	5.003	28.99	0
3/23/20 4:00	7.17	171.1	13.4	4.904	28.99	0
3/23/20 4:15	6.563	150.1	11.4	4.754	28.99	0
3/23/20 4:30	5.982	145.3	8.78	4.597	28.99	0
3/23/20 4:45	5.195	152	12.2	4.495	28.99	0
3/23/20 5:00	5.871	180.2	25.93	4.551	28.98	0.01
3/23/20 5:15	8.17	215.3	12.58	4.609	28.98	0.01
3/23/20 5:30	9.9	209.9	10	4.539	28.98	0.01
3/23/20 5:45	10.43	202.3	9.91	4.435	28.98	0.01
3/23/20 6:00	9.25	190.8	9.47	4.343	28.96	0
3/23/20 6:15	8.21	189.1	8.65	4.291	28.96	0.01
3/23/20 6:30	7.433	178.9	10.58	4.213	28.96	0
3/23/20 6:45	9.31	180.3	11.95	4.161	28.96	0.01
3/23/20 7:00	8.91	182.7	10.35	4.177	28.96	0.01
3/23/20 7:15	7.567	170.2	14.93	4.116	28.96	0
3/23/20 7:30	10.06	193.7	8.62	4.124	28.96	0
3/23/20 7:45	12.82	192.3	8.77	4.166	28.96	0
3/23/20 8:00	13.08	193.4	8.88	4.195	28.96	0
3/23/20 8:15	11.2	196.3	9.36	4.369	28.96	0
3/23/20 8:30	10.41	201	9.83	4.563	28.96	0
3/23/20 8:45	11.61	206.1	9.23	4.671	28.96	0
3/23/20 9:00	11.51	195.9	8.43	4.68	28.98	0.01
3/23/20 9:15	10.99	196.7	8.91	4.827	28.98	0
3/23/20 9:30	11.57	194.2	10.48	5.083	28.98	0
3/23/20 9:45	11.06	191.6	9.62	5.338	28.98	0
3/23/20 10:00	12.85	188.6	8.28	5.437	29	0
3/23/20 10:15	9.64	184.2	12.07	5.741	29	0
3/23/20 10:30	10.48	186.1	14.52	6.056	29	0
3/23/20 10:45	11.67	187.9	11.2	6.024	29	0
3/23/20 11:00	10.95	197	11.21	6.095	29	0
3/23/20 11:15	10.13	201.2	12.94	6.028	29	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/23/20 11:30	11.66	230.5	10.78	5.83	29	0.01
3/23/20 11:45	12.63	223.8	9.01	4.667	29	0.04
3/23/20 12:00	7.696	221.7	13.84	5.42	29	0
3/23/20 12:15	8.8	198.1	14.37	6.18	29	0
3/23/20 12:30	10.62	201.5	11.17	6.831	29	0
3/23/20 12:45	11.67	199.8	14.96	7.327	29	0
3/23/20 13:00	11.8	190.5	11.88	7.763	29.01	0
3/23/20 13:15	11.96	201.7	11.65	7.701	29.01	0
3/23/20 13:30	18.11	219.3	16.81	5.296	29.01	0.03
3/23/20 13:45	7.651	218.9	16.41	6.021	29.01	0
3/23/20 14:00	7.444	189.8	13.7	6.889	29.02	0
3/23/20 14:15	10.16	184.1	18.38	6.57	29.02	0
3/23/20 14:30	11.79	199.4	10.23	6.29	29.02	0
3/23/20 14:45	4.264	164.1	37.08	6.455	29.02	0
3/23/20 15:00	9.68	213.6	56.86	6.28	29.01	0.02
3/23/20 15:15	12.01	248.1	11.56	4.21	29.01	0.08
3/23/20 15:30	5.599	184.8	68.44	5.025	29.01	0
3/23/20 15:45	3.675	108.9	46.04	4.593	29.01	0
3/23/20 16:00	2.469	168.2	66.08	5.099	29.04	0
3/23/20 16:15	9.87	244.8	14.23	5.654	29.04	0
3/23/20 16:30	7.861	218.4	14.94	6.046	29.04	0
3/23/20 16:45	5.255	149.8	33.45	5.817	29.04	0
3/23/20 17:00	3.154	115.2	24.75	5.12	29.01	0
3/23/20 17:15	4.069	135.6	30.49	4.697	29.01	0
3/23/20 17:30	11.88	208.9	14.2	4.755	29.01	0.01
3/23/20 17:45	8.37	172	26.73	4.453	29.01	0
3/23/20 18:00	8.32	138.4	7.183	3.408	29.05	0
3/23/20 18:15	7.676	146.3	10.64	3.163	29.05	0
3/23/20 18:30	7.327	154.5	8.44	3.244	29.05	0
3/23/20 18:45	5.656	137.6	8.07	3.242	29.05	0.01
3/23/20 19:00	7.745	141.1	8.64	3.469	29.06	0
3/23/20 19:15	7.729	147.6	9.19	3.738	29.06	0
3/23/20 19:30	8.01	152.1	7.741	3.924	29.06	0
3/23/20 19:45	8.45	152.2	7.589	3.981	29.06	0
3/23/20 20:00	8.33	156.2	8.43	3.901	29.07	0
3/23/20 20:15	8.49	154.8	7.579	3.806	29.07	0
3/23/20 20:30	6.957	149.1	10.13	3.669	29.07	0
3/23/20 20:45	6.193	146	10.12	3.633	29.07	0
3/23/20 21:00	4.827	137.1	8.25	3.626	29.08	0
3/23/20 21:15	6.496	146.3	8.93	3.646	29.08	0
3/23/20 21:30	6.262	135.9	9.57	3.574	29.08	0
3/23/20 21:45	5.796	147.8	10.17	3.636	29.08	0
3/23/20 22:00	7.294	153.5	7.466	3.662	29.08	0
3/23/20 22:15	6.418	149.5	8.16	3.666	29.08	0
3/23/20 22:30	4.844	142.3	11.61	3.688	29.08	0
3/23/20 22:45	3.577	139.5	13.43	3.564	29.08	0.01
3/23/20 23:00	4.403	147.2	11.29	3.653	29.08	0
3/23/20 23:15	6.146	152.1	7.956	3.742	29.08	0
3/23/20 23:30	5.819	147.9	6.89	3.766	29.08	0
3/23/20 23:45	5.187	149.6	10.99	3.829	29.08	0
3/24/20 0:00	10.26	188.4	8.93	3.947	29.09	0
3/24/20 0:15	10.33	189.2	9.01	3.719	29.09	0
3/24/20 0:30	5.687	175	13.28	3.599	29.09	0.01
3/24/20 0:45	4.979	171.5	11.63	3.568	29.09	0
3/24/20 1:00	4.284	146.8	10.43	3.314	29.09	0
3/24/20 1:15	4.555	134	8.14	3.244	29.09	0
3/24/20 1:30	5.027	141.1	9.89	3.328	29.09	0
3/24/20 1:45	4.802	132.6	9.68	3.461	29.09	0
3/24/20 2:00	4.906	129.7	7.569	3.432	29.09	0
3/24/20 2:15	5.94	133.5	7.824	3.583	29.09	0
3/24/20 2:30	5.729	134.5	6.682	3.673	29.09	0
3/24/20 2:45	5.174	134.1	8.83	3.796	29.09	0
3/24/20 3:00	4.185	139.7	9.79	3.882	29.09	0
3/24/20 3:15	4.071	156.3	22.12	3.888	29.09	0
3/24/20 3:30	4.296	155.9	15.98	3.905	29.09	0
3/24/20 3:45	4.219	162.6	14.2	3.993	29.09	0
3/24/20 4:00	4.186	180.8	8.67	4.004	29.09	0
3/24/20 4:15	2.846	145.8	17.19	3.71	29.09	0
3/24/20 4:30	2.629	116.6	8.38	3.603	29.09	0.01
3/24/20 4:45	3.736	126.2	6.102	3.688	29.09	0
3/24/20 5:00	3.456	130.9	9.09	3.829	29.1	0
3/24/20 5:15	4.244	139.4	5.796	3.938	29.1	0
3/24/20 5:30	4.533	145.5	7.172	4.034	29.1	0
3/24/20 5:45	6.076	177.6	21.48	3.61	29.1	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
3/24/20 6:00	6.854	140.4	12.33	3.554	29.11	0
3/24/20 6:15	6.317	126.2	9.46	3.547	29.11	0
3/24/20 6:30	6.478	122.9	9.53	3.5	29.11	0
3/24/20 6:45	6.807	131.5	9.56	3.475	29.11	0
3/24/20 7:00	7.172	139.5	9.04	3.528	29.12	0
3/24/20 7:15	6.601	142.1	8.03	3.742	29.12	0
3/24/20 7:30	7.931	129.1	10.86	3.762	29.12	0
3/24/20 7:45	5.839	123.7	11.23	3.834	29.12	0
3/24/20 8:00	4.244	120.6	13.38	4.302	29.12	0
3/24/20 8:15	4.834	133.5	13.05	4.606	29.12	0
3/24/20 8:30	6.515	123.9	10.04	4.832	29.12	0
3/24/20 8:45	5.012	125.5	12.68	5.395	29.12	0
3/24/20 9:00	5.521	132.8	7.568	5.536	29.11	0
3/24/20 9:15	4.415	143.3	14.35	5.831	29.11	0
3/24/20 9:30	5.119	136.4	17.04	6.179	29.11	0
3/24/20 9:45	5.865	153.6	15.75	6.142	29.11	0
3/24/20 10:00	5.627	189.2	34.47	6.335	29.14	0
3/24/20 10:15	6.221	201.2	15.56	5.894	29.14	0
3/24/20 10:30	5.041	204.2	21.11	5.789	29.14	0
3/24/20 10:45	4.072	166.8	18.49	6.182	29.14	0
3/24/20 11:00	4.486	149.5	41.55	6.624	29.11	0
3/24/20 11:15	4.47	129.1	15.17	6.277	29.11	0
3/24/20 11:30	5.249	140	11.88	5.675	29.11	0.01
3/24/20 11:45	8.02	165.5	26	4.794	29.11	0.04
3/24/20 12:00	4.81	129.1	11.97	4.584	29.13	0
3/24/20 12:15	4.971	121	9.75	5.225	29.13	0.01
3/24/20 12:30	4.397	109.5	34.48	5.979	29.13	0
3/24/20 12:45	5.527	129.6	13.72	5.711	29.13	0
3/24/20 13:00	4.09	133.9	14.87	5.408	29.11	0
3/24/20 13:15	5.578	142.7	15.87	5.268	29.11	0.02
3/24/20 13:30	8.04	143.4	8.7	4.458	29.11	0.03
3/24/20 13:45	5.358	133.7	13.05	3.884	29.11	0.03
3/24/20 14:00	2.634	186.1	59.74	3.989	29.1	0.02
3/24/20 14:15	4.825	85.8	14.54	4.02	29.1	0.01
3/24/20 14:30	5.763	58.46	15.23	4.342	29.1	0
3/24/20 14:45	5.755	64.05	13.43	5.085	29.1	0
3/24/20 15:00	3.911	94	21.61	5.989	29.1	0
3/24/20 15:15	2.664	111.1	20.45	6.524	29.1	0
3/24/20 15:30	2.535	88	39.43	7.343	29.1	0
3/24/20 15:45	2.738	93.3	22.06	7.232	29.1	0
3/24/20 16:00	3.026	88.8	21.4	6.985	29.09	0
3/24/20 16:15	5.233	133.3	8.44	6.536	29.09	0
3/24/20 16:30	7.579	154.4	10.91	6.303	29.09	0
3/24/20 16:45	13.31	187.2	13.06	5.98	29.09	0
3/24/20 17:00	13.97	200.8	9.96	4.417	29.07	0.02
3/24/20 17:15	8.78	203.3	10.34	3.995	29.07	0.01
3/24/20 17:30	7.49	154.4	16.32	3.792	29.07	0.02
3/24/20 17:45	2.61	137.1	29.83	3.672	29.07	0.01
3/24/20 18:00	1.525	46.87	25.74	3.663	29.11	0
3/24/20 18:15	0.588	139.9	44.88	3.637	29.11	0
3/24/20 18:30	3.424	96.1	16.15	3.595	29.11	0
3/24/20 18:45	3.678	60.05	8.45	3.42	29.11	0.01
3/24/20 19:00	3.701	51.03	9.29	3.252	29.09	0
3/24/20 19:15	3.755	55.32	6.143	3.071	29.09	0
3/24/20 19:30	2.624	69.81	11.41	3.009	29.09	0
3/24/20 19:45	1.664	137.6	28.34	3.231	29.09	0
3/24/20 20:00	3.699	163.4	7.993	3.175	29.1	0
3/24/20 20:15	4.351	144.1	6.409	3.145	29.1	0
3/24/20 20:30	6.293	155.9	7.842	3.014	29.1	0
3/24/20 20:45	6.191	183.9	15.7	3.09	29.1	0
3/24/20 21:00	4.532	161.2	17.81	3.125	29.1	0
3/24/20 21:15	2.002	122	26.81	3.101	29.1	0
3/24/20 21:30	2.088	96.7	8.46	3.058	29.1	0
3/24/20 21:45	2.634	112.6	9.68	3.041	29.1	0
3/24/20 22:00	2.023	109.4	8.64	3.036	29.1	0
3/24/20 22:15	1.225	113.3	12.26	3.073	29.1	0
3/24/20 22:30	2.17	114.7	5.08	3.122	29.1	0
3/24/20 22:45	2.493	148.5	17.18	3.131	29.1	0
3/24/20 23:00	4.069	166.2	7.098	3.163	29.1	0.01
3/24/20 23:15	2.827	160.4	14.14	3.141	29.1	0
3/24/20 23:30	1.489	123.8	32.77	3.166	29.1	0
3/24/20 23:45	0.718	92.2	0.182	3.163	29.1	0.01
3/25/20 0:00	0.009	92.2	0.004	3.147	29.11	0
3/25/20 0:15	1.052	80.6	6.584	3.144	29.11	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
3/25/20 0:30	2.714	79.21	11.41	2.956	29.11	0
3/25/20 0:45	3.184	104.2	7.654	2.885	29.11	0
3/25/20 1:00	1.994	98.4	14.31	2.898	29.13	0
3/25/20 1:15	2.586	122.9	7.12	2.884	29.13	0
3/25/20 1:30	2.41	125.1	8.98	2.825	29.13	0
3/25/20 1:45	2.797	129.9	9.42	2.887	29.13	0
3/25/20 2:00	3.497	134.1	8.38	2.922	29.13	0
3/25/20 2:15	4.287	148.4	12.43	2.941	29.13	0
3/25/20 2:30	3.662	174	10.79	2.948	29.13	0.01
3/25/20 2:45	2.971	171.1	12.29	2.966	29.13	0
3/25/20 3:00	0.958	111.6	21.16	2.948	29.13	0
3/25/20 3:15	2.045	94.9	19.75	2.883	29.13	0
3/25/20 3:30	3.18	116.9	7.942	2.872	29.13	0.01
3/25/20 3:45	3.213	157.5	28	2.878	29.13	0.01
3/25/20 4:00	5.229	206.9	7.803	2.74	29.14	0
3/25/20 4:15	6.146	208.1	5.622	2.469	29.14	0.01
3/25/20 4:30	5.068	192.7	7.479	2.289	29.14	0
3/25/20 4:45	4.614	172.1	14.23	2.235	29.14	0.01
3/25/20 5:00	3.91	142.1	9.16	2.077	29.13	0
3/25/20 5:15	4.105	140.1	10.52	2.048	29.13	0
3/25/20 5:30	3.415	114.9	15.21	1.994	29.13	0
3/25/20 5:45	4.541	107	7.168	1.914	29.13	0
3/25/20 6:00	4.183	106	8.53	1.808	29.14	0
3/25/20 6:15	4.658	105.3	9.05	1.718	29.14	0
3/25/20 6:30	4.002	111	9.5	1.798	29.14	0
3/25/20 6:45	3.939	119.7	7.831	1.909	29.14	0
3/25/20 7:00	3.126	126.6	9.53	1.977	29.17	0
3/25/20 7:15	2.21	132.8	9.18	2.099	29.17	0.01
3/25/20 7:30	2.307	158.4	7.169	2.167	29.17	0
3/25/20 7:45	3.041	152.4	9.6	2.3	29.17	0
3/25/20 8:00	1.575	160.9	10.95	2.453	29.19	0
3/25/20 8:15	1.57	139.8	13.21	2.608	29.19	0.01
3/25/20 8:30	2.026	166.2	10.65	2.903	29.19	0
3/25/20 8:45	1.258	121.5	36.82	3.094	29.19	0
3/25/20 9:00	2.177	204.8	13.87	3.06	29.21	0
3/25/20 9:15	2.65	206.2	13.4	3.221	29.21	0
3/25/20 9:30	3.518	172.4	16.88	3.401	29.21	0
3/25/20 9:45	2.97	123	26.57	3.387	29.21	0
3/25/20 10:00	2.847	158.1	27.08	3.753	29.23	0
3/25/20 10:15	3.167	186.5	18.75	3.822	29.23	0
3/25/20 10:30	1.936	212.3	23.99	4.221	29.23	0
3/25/20 10:45	2.076	245.5	36.31	4.563	29.23	0
3/25/20 11:00	2.774	244.2	27.81	4.775	29.23	0
3/25/20 11:15	4.415	262.4	17.36	4.848	29.23	0
3/25/20 11:30	4.043	291.3	14.46	4.88	29.23	0
3/25/20 11:45	2.359	278.7	35.64	5.527	29.23	0
3/25/20 12:00	3.832	277.2	20.71	5.348	29.22	0
3/25/20 12:15	6.445	275.8	10.51	5.378	29.22	0.01
3/25/20 12:30	4.907	296	12.7	5.122	29.22	0
3/25/20 12:45	4.951	247.9	22.91	5.384	29.22	0
3/25/20 13:00	3.967	248.5	24.13	5.579	29.24	0
3/25/20 13:15	5.012	24.68	35.54	5.458	29.24	0
3/25/20 13:30	5.602	37.83	15.17	5.327	29.24	0
3/25/20 13:45	2.595	33.63	27.39	5.531	29.24	0
3/25/20 14:00	2.042	74.67	54.84	6.409	29.21	0
3/25/20 14:15	3.914	80.4	18.94	5.997	29.21	0
3/25/20 14:30	4.359	44.22	18.37	5.514	29.21	0.01
3/25/20 14:45	4.257	46.36	11.9	5.41	29.21	0
3/25/20 15:00	3.647	58.3	15.97	5.499	29.22	0
3/25/20 15:15	3.286	92.6	11.02	5.462	29.22	0
3/25/20 15:30	3.253	119.8	33.39	5.464	29.22	0
3/25/20 15:45	3.426	145.8	18.83	5.656	29.22	0
3/25/20 16:00	2.345	146.4	9.6	5.936	29.2	0
3/25/20 16:15	3.788	122.7	8.56	5.729	29.2	0
3/25/20 16:30	2.632	105.4	10.37	5.777	29.2	0
3/25/20 16:45	2.377	49.42	20.24	5.463	29.2	0
3/25/20 17:00	2.66	62.54	21.58	5.148	29.22	0
3/25/20 17:15	2.651	37.22	22.22	5.224	29.22	0
3/25/20 17:30	5.604	104.6	11.09	5.324	29.22	0
3/25/20 17:45	4.26	106.3	9.51	5.365	29.22	0
3/25/20 18:00	4.334	114	11.07	5.294	29.2	0
3/25/20 18:15	3.968	124.8	7.857	4.994	29.2	0
3/25/20 18:30	3.955	114.4	7.793	4.883	29.2	0
3/25/20 18:45	3.97	108.3	6.944	4.805	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
3/25/20 19:00	3.76	110.6	6.234	4.938	29.21	0
3/25/20 19:15	3.016	101.6	5.836	4.903	29.21	0
3/25/20 19:30	3.176	110.2	3.956	4.701	29.21	0
3/25/20 19:45	2.592	100.5	13.58	4.621	29.21	0
3/25/20 20:00	1.797	72.81	8.29	4.168	29.22	0
3/25/20 20:15	2.085	92.2	7.27	4.225	29.22	0
3/25/20 20:30	1.171	85.1	30.57	4.233	29.22	0
3/25/20 20:45	1.998	155.4	19.81	4.036	29.22	0
3/25/20 21:00	3.005	162.7	26.72	4.105	29.22	0
3/25/20 21:15	4.235	160.8	21.79	3.934	29.22	0
3/25/20 21:30	3.322	139.6	6.695	3.816	29.22	0
3/25/20 21:45	4.616	143.6	7.157	3.851	29.22	0
3/25/20 22:00	3.744	149.6	5.828	3.921	29.22	0
3/25/20 22:15	3.866	135.2	12.98	3.873	29.22	0
3/25/20 22:30	5.045	140.8	9.58	3.964	29.22	0
3/25/20 22:45	6.099	148.3	6.527	3.918	29.22	0
3/25/20 23:00	6.179	147.2	9.78	3.927	29.23	0
3/25/20 23:15	5.249	139.8	7.762	3.781	29.23	0
3/25/20 23:30	5.082	135.3	7.308	3.923	29.23	0
3/25/20 23:45	4.18	132.6	10.11	3.997	29.23	0
3/26/20 0:00	3.754	127	7.656	4.036	29.23	0
3/26/20 0:15	4.684	137.4	8.65	4.087	29.23	0
3/26/20 0:30	4.251	141.4	8.39	4.054	29.23	0
3/26/20 0:45	4.253	131.6	8.91	4.213	29.23	0
3/26/20 1:00	3.621	146.4	13.27	4.272	29.24	0
3/26/20 1:15	4.473	161.9	9.26	4.145	29.24	0
3/26/20 1:30	5.091	160.5	9.78	4.206	29.24	0
3/26/20 1:45	4.587	174.1	11.1	4.195	29.24	0
3/26/20 2:00	4.536	172.7	9.28	4.058	29.23	0
3/26/20 2:15	5.706	178	8.81	4.098	29.23	0
3/26/20 2:30	6.936	180.5	8.24	4.148	29.23	0
3/26/20 2:45	7.031	185	6.415	3.887	29.23	0
3/26/20 3:00	7.393	179.9	8.18	3.71	29.23	0
3/26/20 3:15	7.43	182.1	7.266	3.747	29.23	0
3/26/20 3:30	7.255	180.2	7.723	3.831	29.23	0
3/26/20 3:45	6.163	176.1	7.432	3.792	29.23	0
3/26/20 4:00	6.572	177.5	9.16	3.879	29.23	0
3/26/20 4:15	5.354	167	13.28	3.736	29.23	0
3/26/20 4:30	5.34	151.2	6.821	3.674	29.23	0
3/26/20 4:45	5.407	145.5	8.21	3.744	29.23	0
3/26/20 5:00	5.844	145.3	7.125	3.781	29.23	0
3/26/20 5:15	6.634	149.4	6.862	3.711	29.23	0
3/26/20 5:30	6.331	151.6	6.206	3.65	29.23	0
3/26/20 5:45	6.219	148.7	5.926	3.629	29.23	0
3/26/20 6:00	6.807	153.6	5.791	3.454	29.23	0
3/26/20 6:15	7.417	154.9	5.777	3.516	29.23	0
3/26/20 6:30	7.775	156.6	5.41	3.516	29.23	0
3/26/20 6:45	7.264	153.9	6.024	3.591	29.23	0
3/26/20 7:00	7.079	158.8	6.802	3.672	29.24	0
3/26/20 7:15	7.474	159.1	7.228	3.766	29.24	0
3/26/20 7:30	7.048	172.3	10.28	4.071	29.24	0
3/26/20 7:45	8.03	179.8	8.61	4.269	29.24	0
3/26/20 8:00	9.96	187.4	8.15	4.377	29.24	0
3/26/20 8:15	9.1	183	8.19	4.274	29.24	0
3/26/20 8:30	9.09	182.4	8.26	4.479	29.24	0
3/26/20 8:45	10.4	193.4	9	4.605	29.24	0
3/26/20 9:00	10.45	189.3	8.81	4.723	29.24	0
3/26/20 9:15	11.44	188.2	8.5	4.922	29.24	0
3/26/20 9:30	10.98	188.2	10.18	5.161	29.24	0
3/26/20 9:45	10.27	184.9	11.94	5.418	29.24	0
3/26/20 10:00	11.19	190.4	10.23	5.699	29.23	0
3/26/20 10:15	10.67	200.7	11.95	5.842	29.23	0
3/26/20 10:30	10.31	202.5	15.28	6.038	29.23	0
3/26/20 10:45	12.67	212.5	9.66	6.066	29.23	0
3/26/20 11:00	12.41	228	10.02	5.962	29.24	0
3/26/20 11:15	13.4	226.3	9.65	5.55	29.24	0
3/26/20 11:30	11.8	211.4	12.98	5.426	29.24	0.01
3/26/20 11:45	11.59	200.6	9.88	5.575	29.24	0
3/26/20 12:00	10.3	191.4	10.67	5.878	29.24	0
3/26/20 12:15	13.56	207.6	9.79	6.148	29.24	0
3/26/20 12:30	11.25	220.5	12.4	6.192	29.24	0
3/26/20 12:45	9.76	203.5	15.24	6.254	29.24	0
3/26/20 13:00	9.87	200.1	12.13	6.388	29.23	0
3/26/20 13:15	10.79	201.1	11.69	6.614	29.23	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/26/20 13:30	10.68	220.2	12.26	6.786	29.23	0
3/26/20 13:45	11.65	225	10.05	6.846	29.23	0
3/26/20 14:00	10.02	217.3	9.59	6.9	29.22	0
3/26/20 14:15	10.54	216.2	8.08	6.998	29.22	0
3/26/20 14:30	11.23	207	10.65	6.637	29.22	0
3/26/20 14:45	9.41	212.6	13.28	6.794	29.22	0
3/26/20 15:00	8.59	210.2	11.44	6.832	29.23	0
3/26/20 15:15	7.916	212.9	12.33	7.025	29.23	0
3/26/20 15:30	9.28	205.6	8.94	7.057	29.23	0
3/26/20 15:45	11.74	209	6.781	6.755	29.23	0
3/26/20 16:00	10.33	197.7	12.23	6.305	29.21	0
3/26/20 16:15	5.956	185.2	11.62	6.339	29.21	0
3/26/20 16:30	5.248	166	22.15	6.418	29.21	0
3/26/20 16:45	7.194	149.2	8.41	6.221	29.21	0
3/26/20 17:00	7.011	165	13.33	6.359	29.22	0
3/26/20 17:15	8.82	161.7	8.59	6.153	29.22	0
3/26/20 17:30	8.14	157.6	7.112	5.887	29.22	0
3/26/20 17:45	7.361	156	7.084	5.777	29.22	0
3/26/20 18:00	6.156	146.7	9.15	5.669	29.21	0
3/26/20 18:15	5.408	146.4	8.58	5.508	29.21	0
3/26/20 18:30	5.387	149.2	9.28	5.375	29.21	0
3/26/20 18:45	5.084	180.2	12.36	5.343	29.21	0
3/26/20 19:00	4.947	185.9	16.17	5.45	29.2	0
3/26/20 19:15	3.869	165.4	20.97	5.318	29.2	0
3/26/20 19:30	5.04	179.9	9.12	5.543	29.2	0
3/26/20 19:45	4.217	186.3	8.27	5.545	29.2	0
3/26/20 20:00	5.012	168.3	11.11	5.366	29.21	0
3/26/20 20:15	5.122	160.2	10.65	5.19	29.21	0
3/26/20 20:30	6.99	155	6.941	5.131	29.21	0
3/26/20 20:45	6.683	161.4	7.366	5.045	29.21	0
3/26/20 21:00	6.427	152.8	6.414	4.942	29.23	0
3/26/20 21:15	6.358	160.7	7.251	4.883	29.23	0
3/26/20 21:30	6.428	155	7.882	4.791	29.23	0
3/26/20 21:45	6.785	151.3	7.406	4.796	29.23	0
3/26/20 22:00	6.485	148.3	7.5	4.819	29.24	0
3/26/20 22:15	6.107	157	10.98	4.803	29.24	0
3/26/20 22:30	5.394	171.7	9.83	4.875	29.24	0.01
3/26/20 22:45	4.579	154.6	12.07	4.765	29.24	0
3/26/20 23:00	4.576	143.2	8.51	4.768	29.23	0
3/26/20 23:15	4.595	141.9	7.174	4.766	29.23	0
3/26/20 23:30	4.419	149.1	8.96	4.764	29.23	0
3/26/20 23:45	4.329	152.7	7.59	4.726	29.23	0
3/27/20 0:00	4.632	145.9	10.26	4.74	29.2	0
3/27/20 0:15	4.925	135.5	8.08	4.777	29.2	0
3/27/20 0:30	6.139	143.1	7.909	4.779	29.2	0
3/27/20 0:45	6.245	145.4	9.54	4.899	29.2	0
3/27/20 1:00	7.187	155.6	7.437	4.942	29.19	0
3/27/20 1:15	7.012	152.5	7.292	4.984	29.19	0
3/27/20 1:30	4.781	140.4	11.18	4.963	29.19	0
3/27/20 1:45	4.304	142.2	8.38	4.898	29.19	0
3/27/20 2:00	5.082	137.9	7.498	4.962	29.18	0
3/27/20 2:15	5.442	145.3	9.27	5.062	29.18	0
3/27/20 2:30	6.288	149.6	8.58	5.193	29.18	0
3/27/20 2:45	6.164	146	8.2	5.198	29.18	0
3/27/20 3:00	6.455	153.4	6.551	5.146	29.18	0
3/27/20 3:15	5.025	151.2	9.58	5.187	29.18	0
3/27/20 3:30	4.438	163.1	11.91	5.092	29.18	0
3/27/20 3:45	5.079	177.1	7.671	5.237	29.18	0
3/27/20 4:00	5.49	174.3	8.55	5.228	29.19	0
3/27/20 4:15	4.226	167.1	7.507	4.935	29.19	0
3/27/20 4:30	5.653	169.8	9.18	4.951	29.19	0
3/27/20 4:45	3.179	149.4	9.86	4.658	29.19	0
3/27/20 5:00	4.298	139	10.3	4.704	29.18	0
3/27/20 5:15	3.282	146.1	15.89	4.696	29.18	0
3/27/20 5:30	3.995	130	10.18	4.582	29.18	0
3/27/20 5:45	3.417	146	12.48	4.417	29.18	0.01
3/27/20 6:00	2.704	149.1	19.87	4.396	29.19	0
3/27/20 6:15	2.636	128.3	8.45	4.285	29.19	0
3/27/20 6:30	2.985	131.8	11.13	4.384	29.19	0
3/27/20 6:45	3.006	137.3	11.71	4.429	29.19	0
3/27/20 7:00	4.044	133.3	5.96	4.469	29.18	0.01
3/27/20 7:15	3.355	116.4	14.57	4.536	29.18	0
3/27/20 7:30	3.531	126.7	8.4	4.594	29.18	0.01
3/27/20 7:45	3.522	127.7	8.41	4.73	29.18	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/27/20 8:00	4.194	136.5	9.75	4.911	29.18	0
3/27/20 8:15	4.557	130.3	7.056	4.941	29.18	0
3/27/20 8:30	3.593	144.5	13.05	4.97	29.18	0
3/27/20 8:45	3.777	147	12.13	5.131	29.18	0
3/27/20 9:00	4.052	147	7.245	5.357	29.18	0
3/27/20 9:15	4.695	151.5	8.29	5.452	29.18	0
3/27/20 9:30	4.634	146.6	9.59	5.597	29.18	0
3/27/20 9:45	5.412	154.9	16.67	5.799	29.18	0
3/27/20 10:00	5.773	165.5	15.1	5.883	29.2	0
3/27/20 10:15	5.376	167.4	16.42	5.982	29.2	0
3/27/20 10:30	5.823	184.4	10.56	5.997	29.2	0
3/27/20 10:45	5.414	189.4	15.12	6.214	29.2	0
3/27/20 11:00	6.277	190.2	12.14	6.421	29.2	0
3/27/20 11:15	6.485	190.2	15.3	6.494	29.2	0
3/27/20 11:30	7.197	192.9	13.38	6.579	29.2	0
3/27/20 11:45	8.12	202.9	10.37	6.712	29.2	0
3/27/20 12:00	7.785	181.3	9.76	6.836	29.2	0
3/27/20 12:15	6.609	184.7	10.19	6.804	29.2	0
3/27/20 12:30	5.938	186.5	11.77	7.124	29.2	0
3/27/20 12:45	5.936	175.4	16.51	7.265	29.2	0
3/27/20 13:00	10.08	183.7	9.14	7.313	29.19	0
3/27/20 13:15	9.02	201.2	8.66	7.059	29.19	0
3/27/20 13:30	6.041	203.1	13.62	6.985	29.19	0
3/27/20 13:45	7.24	185.9	12.63	6.997	29.19	0
3/27/20 14:00	5.571	177.7	22.6	6.978	29.21	0.01
3/27/20 14:15	4.772	160.6	12.28	7.04	29.21	0
3/27/20 14:30	7.659	167.5	18.61	7.118	29.21	0
3/27/20 14:45	7.837	182	11.13	7.168	29.21	0
3/27/20 15:00	6.943	179.3	15.79	7.3	29.18	0
3/27/20 15:15	6.131	166.2	19.11	7.62	29.18	0
3/27/20 15:30	7.046	151.1	11.88	7.504	29.18	0
3/27/20 15:45	7.188	162.6	13.36	7.555	29.18	0
3/27/20 16:00	7.344	163.1	13.97	7.662	29.19	0
3/27/20 16:15	7.142	168.2	17.58	7.695	29.19	0
3/27/20 16:30	8.14	169.1	11.67	7.805	29.19	0
3/27/20 16:45	7.275	157.5	10.8	7.693	29.19	0
3/27/20 17:00	7.525	155.6	10.67	7.641	29.2	0
3/27/20 17:15	6.785	151.5	8.6	7.619	29.2	0
3/27/20 17:30	5.678	145.8	12.51	7.528	29.2	0
3/27/20 17:45	4.669	130.5	8.42	7.465	29.2	0
3/27/20 18:00	4.574	122.5	8.67	7.443	29.18	0
3/27/20 18:15	5.074	126.8	14.25	7.37	29.18	0
3/27/20 18:30	5.079	151.2	9.53	7.359	29.18	0
3/27/20 18:45	5.997	150.8	6.697	7.31	29.18	0
3/27/20 19:00	6.15	148.8	8.34	7.176	29.21	0
3/27/20 19:15	5.999	152	11.43	7.082	29.21	0
3/27/20 19:30	5.265	170.1	13.03	7.12	29.21	0
3/27/20 19:45	6.281	175.5	13.05	7.174	29.21	0
3/27/20 20:00	4.045	156.4	26.37	7.064	29.21	0
3/27/20 20:15	3.752	135.1	29.32	6.903	29.21	0
3/27/20 20:30	3.21	107.8	13.3	6.832	29.21	0
3/27/20 20:45	2.553	121	10.46	6.71	29.21	0.01
3/27/20 21:00	4.325	107.4	12.21	6.658	29.23	0
3/27/20 21:15	6.326	107.9	9.94	6.554	29.23	0
3/27/20 21:30	5.746	125.3	10.41	6.504	29.23	0
3/27/20 21:45	5.52	144.7	8.44	6.639	29.23	0
3/27/20 22:00	4.795	158	9.3	6.852	29.22	0
3/27/20 22:15	4.306	144.8	20.75	6.899	29.22	0
3/27/20 22:30	5.602	131.3	7.536	7.029	29.22	0
3/27/20 22:45	5.564	132.7	8.75	7.123	29.22	0
3/27/20 23:00	6	135.4	10	7.196	29.23	0
3/27/20 23:15	6.41	139.8	7.138	7.229	29.23	0
3/27/20 23:30	6.51	139.6	9.45	7.257	29.23	0
3/27/20 23:45	7.038	133.1	8.01	7.188	29.23	0
3/28/20 0:00	7.3	132.2	10.36	7.163	29.21	0
3/28/20 0:15	6.714	145.1	11	7.199	29.21	0
3/28/20 0:30	7.247	147.1	7.519	7.145	29.21	0
3/28/20 0:45	7.674	142.6	8.19	7.118	29.21	0
3/28/20 1:00	6.331	130.9	8.58	7.015	29.23	0
3/28/20 1:15	5.923	113.6	8.23	6.811	29.23	0.01
3/28/20 1:30	5.8	113.5	7.754	6.773	29.23	0
3/28/20 1:45	5.545	126.2	11.61	6.875	29.23	0
3/28/20 2:00	6.249	141.9	8.62	6.797	29.21	0.01
3/28/20 2:15	5.6	136.6	8.03	6.607	29.21	0.01

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/28/20 2:30	5.836	139	8.99	6.499	29.21	0.01
3/28/20 2:45	5.922	136.2	12.23	6.45	29.21	0.01
3/28/20 3:00	4.63	131.8	9.04	6.386	29.22	0
3/28/20 3:15	5.682	133.1	11.19	6.372	29.22	0.01
3/28/20 3:30	4.673	131.5	11.08	6.391	29.22	0
3/28/20 3:45	5.968	150.9	9.03	6.413	29.22	0.01
3/28/20 4:00	7.793	150.4	6.302	6.471	29.2	0
3/28/20 4:15	7.342	152.2	6.667	6.497	29.2	0.01
3/28/20 4:30	6.34	151	7.82	6.491	29.2	0
3/28/20 4:45	6	147.1	7.982	6.426	29.2	0
3/28/20 5:00	5.314	142.7	6.812	6.316	29.22	0.01
3/28/20 5:15	5.35	144.6	7	6.334	29.22	0
3/28/20 5:30	6.467	161.2	12.16	6.594	29.22	0
3/28/20 5:45	5.738	146.4	7.173	6.539	29.22	0
3/28/20 6:00	6.725	145.6	6.691	6.619	29.19	0
3/28/20 6:15	7.082	147.4	6.109	6.657	29.19	0.01
3/28/20 6:30	6.749	144.9	7.327	6.742	29.19	0
3/28/20 6:45	6.713	139.3	7.738	6.855	29.19	0
3/28/20 7:00	6.747	136.4	6.432	7.073	29.18	0
3/28/20 7:15	6.808	138.7	7.225	7.153	29.18	0
3/28/20 7:30	7.02	139.8	7.509	7.299	29.18	0
3/28/20 7:45	7.811	143.6	7.912	7.52	29.18	0
3/28/20 8:00	8.12	144.1	8.12	7.649	29.18	0
3/28/20 8:15	7.754	147	8.32	7.676	29.18	0
3/28/20 8:30	7.456	145.4	9.29	7.844	29.18	0
3/28/20 8:45	7.578	149.4	8.78	8.08	29.18	0
3/28/20 9:00	6.513	147.7	10.64	8.2	29.19	0
3/28/20 9:15	7.039	152.1	11.38	8.4	29.19	0
3/28/20 9:30	6.591	144.7	13.09	8.44	29.19	0
3/28/20 9:45	6.632	142.6	10.64	8.47	29.19	0
3/28/20 10:00	7.43	142.9	9.07	8.5	29.17	0
3/28/20 10:15	7.601	137.4	7.765	8.39	29.17	0.01
3/28/20 10:30	8.31	132.1	8.06	8.3	29.17	0.01
3/28/20 10:45	7.269	133.2	7.571	8.26	29.17	0
3/28/20 11:00	7.627	130.8	9.85	8.37	29.16	0.01
3/28/20 11:15	7.524	131	8.98	8.59	29.16	0
3/28/20 11:30	7.8	131.3	8.57	8.79	29.16	0
3/28/20 11:45	7.603	138.1	10.91	8.95	29.16	0
3/28/20 12:00	6.973	141.5	10.3	9.09	29.15	0.01
3/28/20 12:15	7.307	137	10.24	9.04	29.15	0
3/28/20 12:30	7.063	150.5	11.07	9.12	29.15	0.01
3/28/20 12:45	7.956	150.9	7.821	9.21	29.15	0
3/28/20 13:00	9.51	164.6	11.88	9.68	29.14	0
3/28/20 13:15	11.04	180.6	12.14	10.08	29.14	0
3/28/20 13:30	12.01	174.4	15.27	10.57	29.14	0
3/28/20 13:45	10.11	177.8	14.76	10.86	29.14	0
3/28/20 14:00	12.44	188.6	12.78	10.83	29.11	0
3/28/20 14:15	14.13	192.4	9.18	10.91	29.11	0
3/28/20 14:30	14.47	188.4	9.14	11	29.11	0
3/28/20 14:45	12.21	191.1	9.98	11	29.11	0
3/28/20 15:00	14.72	200.7	8.35	11.15	29.11	0
3/28/20 15:15	16.52	194	9.18	11.21	29.11	0
3/28/20 15:30	16.41	193.8	10.03	11.15	29.11	0
3/28/20 15:45	12.43	198.2	9.03	10.99	29.11	0
3/28/20 16:00	10.47	191.5	9.37	11.13	29.09	0
3/28/20 16:15	10.52	189.8	8.99	11.1	29.09	0
3/28/20 16:30	10.48	185.9	9.66	11.04	29.09	0
3/28/20 16:45	10.87	191.1	8.75	10.99	29.09	0
3/28/20 17:00	10.31	198.2	8.45	10.82	29.06	0.01
3/28/20 17:15	12.04	200.1	8.36	10.71	29.06	0
3/28/20 17:30	16.02	200.4	8.43	10.68	29.06	0
3/28/20 17:45	16.05	188.5	9.76	10.55	29.06	0
3/28/20 18:00	14.6	187.5	10.53	10.39	29.06	0
3/28/20 18:15	10.45	180	10.39	10.17	29.06	0
3/28/20 18:30	10.06	179.5	9.31	9.74	29.06	0
3/28/20 18:45	11.49	179.2	6.652	9.38	29.06	0.01
3/28/20 19:00	11.07	176.6	8.05	9.12	29.05	0
3/28/20 19:15	8.94	173.9	9.51	8.86	29.05	0
3/28/20 19:30	8.69	171.3	8.89	8.8	29.05	0
3/28/20 19:45	7.783	156.4	8.12	8.56	29.05	0
3/28/20 20:00	9.02	166	10.52	8.71	29.06	0
3/28/20 20:15	10.76	171.7	13.08	8.72	29.06	0
3/28/20 20:30	12.39	190.4	8.93	8.88	29.06	0
3/28/20 20:45	9.83	179.6	7.718	8.98	29.06	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/28/20 21:00	6.677	170	10.28	8.71	29.07	0.01
3/28/20 21:15	6.418	169.1	10.97	8.57	29.07	0
3/28/20 21:30	6.753	180.7	8	8.64	29.07	0
3/28/20 21:45	8.09	180.4	10.21	8.48	29.07	0.01
3/28/20 22:00	6.425	166.5	13.81	8.24	29.06	0
3/28/20 22:15	4.031	149.5	14.69	7.915	29.06	0
3/28/20 22:30	4.901	148.4	8.05	7.915	29.06	0
3/28/20 22:45	7.069	159.4	7.999	8.22	29.06	0
3/28/20 23:00	6.209	166.3	7.48	8.22	29.03	0
3/28/20 23:15	6.824	171	8.12	8.44	29.03	0.01
3/28/20 23:30	6.999	185	9.37	8.56	29.03	0.01
3/28/20 23:45	6.232	201.2	6.87	8.5	29.03	0.01
3/29/20 0:00	4.889	202.8	8.84	8.37	29.04	0
3/29/20 0:15	2.505	175.1	23.14	7.974	29.04	0.01
3/29/20 0:30	5.972	187.1	8.38	8.41	29.04	0.01
3/29/20 0:45	6.349	186	7.367	8.29	29.04	0.02
3/29/20 1:00	5.999	191.4	10.81	7.965	29.04	0.02
3/29/20 1:15	7.627	200.1	9.08	7.836	29.04	0.04
3/29/20 1:30	8.72	198.5	10.11	7.716	29.04	0.04
3/29/20 1:45	10.47	209.6	7.703	7.699	29.04	0.03
3/29/20 2:00	9.2	192.6	10.13	7.52	29.02	0.03
3/29/20 2:15	9.39	190.4	8.89	7.463	29.02	0.03
3/29/20 2:30	8.53	190.7	9.55	7.32	29.02	0.03
3/29/20 2:45	10.78	194.8	12.86	7.252	29.02	0.07
3/29/20 3:00	11.83	189.2	13.75	7.204	29.04	0.02
3/29/20 3:15	11.1	197.4	11.42	7.277	29.04	0.03
3/29/20 3:30	10.51	193.6	9.06	7.128	29.04	0.01
3/29/20 3:45	9.9	178.8	8.58	7.028	29.04	0.01
3/29/20 4:00	9.68	181	7.654	6.894	29.02	0.02
3/29/20 4:15	9.87	169.7	11.88	6.761	29.02	0.02
3/29/20 4:30	8.7	167.5	22.54	6.693	29.02	0.03
3/29/20 4:45	7.612	209	16.79	6.745	29.02	0.02
3/29/20 5:00	10.05	180.4	10.94	6.704	29.04	0.02
3/29/20 5:15	10.32	167.1	9.81	6.668	29.04	0.01
3/29/20 5:30	12.03	184.4	12.45	6.664	29.04	0.02
3/29/20 5:45	10.5	187.4	9.54	6.534	29.04	0.01
3/29/20 6:00	8.62	181.6	8.43	6.448	29.04	0.03
3/29/20 6:15	8.92	182	9.83	6.419	29.04	0.02
3/29/20 6:30	7.09	159.8	12.03	6.327	29.04	0.01
3/29/20 6:45	9.15	168.7	11.25	6.307	29.04	0.01
3/29/20 7:00	11.57	182.8	9.97	6.397	29.05	0
3/29/20 7:15	8.94	166.2	11.58	6.397	29.05	0
3/29/20 7:30	7.745	149.8	8.72	6.34	29.05	0
3/29/20 7:45	7.795	157.9	8.14	6.4	29.05	0
3/29/20 8:00	7.219	169	10.39	6.446	29.05	0
3/29/20 8:15	6.421	159.4	8.36	6.494	29.05	0.01
3/29/20 8:30	5.305	160.9	8.55	6.682	29.05	0
3/29/20 8:45	5.434	156.6	9.81	6.767	29.05	0
3/29/20 9:00	7.077	178.4	16.22	6.826	29.07	0
3/29/20 9:15	6.359	173.2	16.03	7.028	29.07	0
3/29/20 9:30	7.607	187.7	9.17	6.99	29.07	0.01
3/29/20 9:45	8.71	192.1	8.95	7.217	29.07	0
3/29/20 10:00	10.05	189.6	10.14	7.694	29.07	0
3/29/20 10:15	12.36	188.3	14.32	8.4	29.07	0
3/29/20 10:30	11.16	185.2	12.8	8.44	29.07	0
3/29/20 10:45	13.19	194.5	12.04	8.39	29.07	0
3/29/20 11:00	13.36	203.5	24.65	8.4	29.06	0
3/29/20 11:15	12.09	259	8.92	6.675	29.06	0.03
3/29/20 11:30	13.18	263.9	10.13	6.5	29.06	0.03
3/29/20 11:45	10.04	259.5	8.8	7.242	29.06	0.01
3/29/20 12:00	8.54	254.3	10.48	7.826	29.06	0
3/29/20 12:15	8.07	237.6	18.9	8.22	29.06	0
3/29/20 12:30	9.12	232.4	10.75	8.42	29.06	0
3/29/20 12:45	9.94	226.8	9.31	8.43	29.06	0
3/29/20 13:00	9.28	225.4	8.53	8.52	29.05	0
3/29/20 13:15	10.4	225.4	8.67	8.67	29.05	0
3/29/20 13:30	9.04	231.1	6.716	8.78	29.05	0
3/29/20 13:45	10.06	223.7	10.99	9.11	29.05	0.01
3/29/20 14:00	10.19	208.4	10.64	9.87	29.04	0
3/29/20 14:15	10.84	235.7	32.7	10.04	29.04	0
3/29/20 14:30	11.58	261.7	12.72	9.69	29.04	0
3/29/20 14:45	13.05	242.7	17.77	10.25	29.04	0
3/29/20 15:00	9.82	219.5	10.45	10.22	29.05	0
3/29/20 15:15	10.18	238.7	13.3	10.28	29.05	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/29/20 15:30	9.23	247.5	11.38	10.19	29.05	0
3/29/20 15:45	5.794	250.9	14.35	10.45	29.05	0
3/29/20 16:00	5.581	245.3	15.69	10.47	29.04	0
3/29/20 16:15	8.08	237.9	12.92	10.54	29.04	0
3/29/20 16:30	7.962	230.4	17.3	10.44	29.04	0
3/29/20 16:45	10.46	232.3	14.59	10.51	29.04	0
3/29/20 17:00	7.06	223.1	19.18	10.39	29.01	0
3/29/20 17:15	8.76	229	16.14	10.44	29.01	0
3/29/20 17:30	13.29	238.7	9.71	10.39	29.01	0
3/29/20 17:45	12.29	241.9	9.79	10.26	29.01	0
3/29/20 18:00	10.16	220.6	11.13	10.13	29.02	0
3/29/20 18:15	11.74	185.2	16.26	9.39	29.02	0
3/29/20 18:30	5.582	159.1	22.23	8.86	29.02	0
3/29/20 18:45	5.046	118.5	16.49	7.968	29.02	0
3/29/20 19:00	5.771	139.6	10.79	7.661	29	0
3/29/20 19:15	6.529	156.1	9.47	7.733	29	0
3/29/20 19:30	7.133	181.6	12.9	8.07	29	0
3/29/20 19:45	6.186	168.9	12.44	8.25	29	0
3/29/20 20:00	7.109	169.1	10.93	8.13	28.98	0
3/29/20 20:15	7.133	148.5	9.64	8.08	28.98	0
3/29/20 20:30	5.507	196.7	46.36	7.815	28.98	0
3/29/20 20:45	6.398	162.6	16.23	7.62	28.98	0
3/29/20 21:00	5.444	146.9	15.42	7.305	28.98	0
3/29/20 21:15	8.71	152.5	8.42	7.382	28.98	0
3/29/20 21:30	8.82	154	8.37	7.496	28.98	0
3/29/20 21:45	8.09	145.4	9.12	7.152	28.98	0
3/29/20 22:00	8.01	144.8	8.62	7.109	28.96	0
3/29/20 22:15	8.51	148.2	8.88	7.291	28.96	0
3/29/20 22:30	10.44	144.3	9.24	7.694	28.96	0
3/29/20 22:45	11.15	154.2	8.42	7.953	28.96	0
3/29/20 23:00	11.85	151.9	9.47	8.13	28.92	0
3/29/20 23:15	11.83	153.6	8.47	8.23	28.92	0
3/29/20 23:30	10.68	156.6	8.27	8.19	28.92	0
3/29/20 23:45	10.06	145.4	7.976	8.19	28.92	0
3/30/20 0:00	11.24	140.5	8.94	8.44	28.89	0
3/30/20 0:15	13.2	138.8	8.68	8.65	28.89	0
3/30/20 0:30	10.93	152.3	8.73	8.71	28.89	0
3/30/20 0:45	11.53	148.4	9.41	8.41	28.89	0
3/30/20 1:00	11.04	144.5	9.22	8.34	28.84	0
3/30/20 1:15	10.62	156.3	15.31	8.21	28.84	0
3/30/20 1:30	11.83	149.5	11.32	7.917	28.84	0
3/30/20 1:45	11.04	145.3	10.99	7.682	28.84	0
3/30/20 2:00	13.15	157.5	10.56	7.673	28.79	0.01
3/30/20 2:15	15.08	152.3	9.57	7.637	28.79	0.01
3/30/20 2:30	10.4	142.6	11.7	7.39	28.79	0.01
3/30/20 2:45	11.53	168.7	18.33	7.535	28.79	0
3/30/20 3:00	12.28	178.9	15.91	7.365	28.8	0
3/30/20 3:15	17.48	205.6	8.88	7.63	28.8	0
3/30/20 3:30	17.16	194.6	10.46	7.529	28.8	0.01
3/30/20 3:45	15.76	188.7	9.14	7.437	28.8	0
3/30/20 4:00	15.72	190.7	8.71	7.41	28.79	0.01
3/30/20 4:15	15.77	185.9	9.29	7.389	28.79	0.01
3/30/20 4:30	14.63	200.8	11.63	7.261	28.79	0.01
3/30/20 4:45	23.58	251.1	8.92	5.623	28.79	0.09
3/30/20 5:00	21.24	250.2	9.82	4.712	28.86	0.04
3/30/20 5:15	19.73	234.9	9.78	4.358	28.86	0.03
3/30/20 5:30	15.43	213.4	11.72	4.317	28.86	0.01
3/30/20 5:45	15.62	197.9	8.55	4.279	28.86	0
3/30/20 6:00	13.78	187.6	8.23	4.156	28.92	0
3/30/20 6:15	13.05	176.2	12.01	4.138	28.92	0
3/30/20 6:30	11.12	172.5	12.38	4.105	28.92	0
3/30/20 6:45	12.41	174.1	8.73	4.237	28.92	0
3/30/20 7:00	14.24	184.6	12.3	4.283	28.97	0
3/30/20 7:15	15.91	198.8	10.78	3.89	28.97	0
3/30/20 7:30	10.45	191	8.43	3.824	28.97	0
3/30/20 7:45	10.77	183.3	8.05	4.104	28.97	0.01
3/30/20 8:00	10.72	179.6	10.78	4.372	28.99	0
3/30/20 8:15	11.82	184.1	9.61	4.562	28.99	0.01
3/30/20 8:30	9.71	177.7	17.97	4.516	28.99	0
3/30/20 8:45	10.93	199.2	13.65	4.84	28.99	0
3/30/20 9:00	14.35	272.8	13.89	2.962	29	0.05
3/30/20 9:15	11.41	239.3	9.38	3.337	29	0.02
3/30/20 9:30	11.54	209.1	13.17	4.276	29	0
3/30/20 9:45	14.22	188.4	10.55	5.402	29	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/30/20 10:00	12.82	191.9	14.07	5.571	29.03	0
3/30/20 10:15	12.17	193.8	13.52	5.719	29.03	0
3/30/20 10:30	11	192.4	14.47	5.8	29.03	0
3/30/20 10:45	13.97	191.4	11.4	6.147	29.03	0
3/30/20 11:00	17.31	209.3	13.73	6.533	29.02	0
3/30/20 11:15	18.09	204.9	9.52	6.306	29.02	0
3/30/20 11:30	19.85	219.2	11.57	5.072	29.02	0.02
3/30/20 11:45	11.85	205	19.98	5.855	29.02	0
3/30/20 12:00	11.7	191.3	12.63	6.72	29.05	0
3/30/20 12:15	13.26	208.7	15.81	7.453	29.05	0
3/30/20 12:30	17.78	214.9	13.85	7.884	29.05	0
3/30/20 12:45	15.9	209.3	14.98	8.26	29.05	0
3/30/20 13:00	16.21	219	15.19	8.09	29.04	0
3/30/20 13:15	20.42	263	11.19	7.231	29.04	0
3/30/20 13:30	18.94	240.3	12.42	6.594	29.04	0
3/30/20 13:45	22.13	242.7	13.6	5.43	29.04	0.01
3/30/20 14:00	17.16	205.2	17.51	4.133	29.06	0.03
3/30/20 14:15	8.67	185	14.31	5.231	29.06	0
3/30/20 14:30	10.34	226.7	22.05	4.57	29.06	0.04
3/30/20 14:45	8.27	212	23.29	4.645	29.06	0
3/30/20 15:00	6.424	177.9	15.34	5.072	29.09	0
3/30/20 15:15	5.62	189.1	13.71	5.087	29.09	0
3/30/20 15:30	4.929	155.7	18.76	4.972	29.09	0
3/30/20 15:45	8.54	178.3	18.54	5.067	29.09	0.01
3/30/20 16:00	10.21	193	10.61	5.313	29.07	0
3/30/20 16:15	10.22	207.6	19.54	5.054	29.07	0.01
3/30/20 16:30	9.18	190.5	24.96	4.975	29.07	0
3/30/20 16:45	10.04	181.5	11.24	4.784	29.07	0.01
3/30/20 17:00	10.09	175.6	13.2	4.778	29.08	0.01
3/30/20 17:15	9.97	191.7	10.19	4.826	29.08	0
3/30/20 17:30	7.963	160.4	15.12	4.775	29.08	0
3/30/20 17:45	8.44	151.1	8.53	4.667	29.08	0
3/30/20 18:00	9.13	151.9	10.91	4.655	29.09	0
3/30/20 18:15	10.82	176.2	16.52	4.716	29.09	0
3/30/20 18:30	11	196	8.44	4.694	29.09	0
3/30/20 18:45	9.75	187.3	9.49	4.558	29.09	0
3/30/20 19:00	9.05	187.9	9.15	4.381	29.1	0
3/30/20 19:15	6.088	178.2	10.85	4.054	29.1	0
3/30/20 19:30	5.612	155.6	11	3.88	29.1	0
3/30/20 19:45	5.434	145.8	9.82	3.89	29.1	0
3/30/20 20:00	7.649	138.6	8.53	3.917	29.1	0.01
3/30/20 20:15	7.916	156.3	12.04	3.892	29.1	0
3/30/20 20:30	6.46	151.5	11.95	3.777	29.1	0.01
3/30/20 20:45	5.168	126.6	8.98	3.648	29.1	0
3/30/20 21:00	7.294	157.8	10.88	3.653	29.11	0
3/30/20 21:15	8.11	167.7	13.28	3.772	29.11	0
3/30/20 21:30	7.602	159.4	8.1	3.674	29.11	0
3/30/20 21:45	6.03	159.5	11.23	3.619	29.11	0.01
3/30/20 22:00	5.58	147.1	7.401	3.561	29.11	0
3/30/20 22:15	7.389	144.2	9.24	3.484	29.11	0
3/30/20 22:30	6.869	138.8	9.79	3.394	29.11	0
3/30/20 22:45	7.585	148.8	11.41	3.245	29.11	0
3/30/20 23:00	8.84	153.4	12.56	3.191	29.11	0
3/30/20 23:15	8.91	160.5	8.16	3.198	29.11	0.01
3/30/20 23:30	6.696	146.2	9.74	3.133	29.11	0
3/30/20 23:45	5.468	137.9	10.56	3.092	29.11	0
3/31/20 0:00	6.235	154.7	8.36	3.12	29.11	0
3/31/20 0:15	5.938	160.5	8.19	3.201	29.11	0
3/31/20 0:30	4.556	146.6	9.44	3.197	29.11	0.01
3/31/20 0:45	5.256	146.7	6.89	3.212	29.11	0
3/31/20 1:00	5.057	152.8	8.39	3.213	29.11	0
3/31/20 1:15	6.966	161.7	7.072	3.363	29.11	0
3/31/20 1:30	7.569	168.5	7.583	3.405	29.11	0
3/31/20 1:45	7.477	164	8.37	3.369	29.11	0
3/31/20 2:00	7.494	183.7	7.789	3.518	29.1	0
3/31/20 2:15	7.152	183.3	11.86	3.479	29.1	0
3/31/20 2:30	5.902	163.4	9.54	3.195	29.1	0
3/31/20 2:45	5.618	170.1	17.21	3.348	29.1	0
3/31/20 3:00	7.828	189.7	6.28	3.573	29.1	0
3/31/20 3:15	7.21	192	6.978	3.46	29.1	0
3/31/20 3:30	7.822	185.4	9.58	3.502	29.1	0
3/31/20 3:45	8.95	191.7	7.518	3.408	29.1	0
3/31/20 4:00	7.193	189.6	7.073	3.341	29.1	0
3/31/20 4:15	6.457	185.5	10.15	3.277	29.1	0

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
3/31/20 4:30	7.324	183.8	7.844	3.241	29.1	0
3/31/20 4:45	8.1	190.1	7.752	3.211	29.1	0
3/31/20 5:00	7.935	189.1	7.831	3.103	29.11	0
3/31/20 5:15	7.663	189.6	9.84	3.037	29.11	0
3/31/20 5:30	7.526	193.4	9.06	2.98	29.11	0
3/31/20 5:45	7.664	205.2	7.735	2.962	29.11	0
3/31/20 6:00	6.31	211.7	7.351	2.97	29.11	0
3/31/20 6:15	5.31	219.2	9.29	3.013	29.11	0
3/31/20 6:30	3.687	208.8	13.09	3.037	29.11	0
3/31/20 6:45	3.835	220.9	10.24	3.001	29.11	0
3/31/20 7:00	5.528	219.6	10.66	3.008	29.12	0
3/31/20 7:15	5.941	220	7.45	3.088	29.12	0
3/31/20 7:30	5.917	226.3	7.898	3.074	29.12	0
3/31/20 7:45	5.429	236.3	11.29	2.993	29.12	0
3/31/20 8:00	6.878	226.6	11.06	3.082	29.15	0
3/31/20 8:15	7.876	214.9	11	3.212	29.15	0
3/31/20 8:30	7.641	213.3	9.15	3.317	29.15	0
3/31/20 8:45	7.59	225.4	12.83	3.464	29.15	0
3/31/20 9:00	7.64	208	14.33	3.565	29.16	0
3/31/20 9:15	7.825	208.6	10.42	3.774	29.16	0
3/31/20 9:30	9.19	209.1	11.14	3.882	29.16	0
3/31/20 9:45	9.52	203	8.73	4.05	29.16	0
3/31/20 10:00	8.3	222.2	11.94	4.258	29.17	0
3/31/20 10:15	5.183	235.1	13.64	4.279	29.17	0
3/31/20 10:30	3.87	252.4	20.94	4.691	29.17	0
3/31/20 10:45	6.005	257.1	11.81	4.819	29.17	0
3/31/20 11:00	7.012	258.7	12.1	5.256	29.18	0
3/31/20 11:15	8.2	275	12.94	6.09	29.18	0
3/31/20 11:30	5.545	246.7	24.98	6.213	29.18	0
3/31/20 11:45	8.43	258.9	12.82	6.005	29.18	0
3/31/20 12:00	8	242.4	11.92	6.384	29.18	0
3/31/20 12:15	8.13	230.5	15.65	7.319	29.18	0
3/31/20 12:30	11.95	230	12.48	7.509	29.18	0
3/31/20 12:45	11.02	235.6	11.12	7.359	29.18	0
3/31/20 13:00	9.11	222.1	14.99	7.43	29.17	0
3/31/20 13:15	10.28	216	14.13	7.676	29.17	0
3/31/20 13:30	8.16	215.8	18.6	7.817	29.17	0
3/31/20 13:45	8.06	217	23	7.769	29.17	0
3/31/20 14:00	10.9	236.5	13.51	7.819	29.17	0
3/31/20 14:15	13.52	229.4	12.74	7.731	29.17	0
3/31/20 14:30	15.86	227.9	9.4	7.732	29.17	0
3/31/20 14:45	15.41	223.9	13.27	7.541	29.17	0
3/31/20 15:00	18.55	209.6	9.98	6.699	29.19	0
3/31/20 15:15	15.25	208.7	12.95	6.43	29.19	0
3/31/20 15:30	14.23	200.3	13.43	6.567	29.19	0
3/31/20 15:45	16.24	215.6	13.2	6.916	29.19	0
3/31/20 16:00	14.15	201.4	11.96	6.736	29.2	0
3/31/20 16:15	13.07	186.9	9.76	7.102	29.2	0
3/31/20 16:30	14.11	178.1	13.54	6.83	29.2	0
3/31/20 16:45	12.77	187.7	13.19	6.388	29.2	0
3/31/20 17:00	11.08	196.3	9.08	6.332	29.18	0
3/31/20 17:15	14.58	196.1	9.15	6.056	29.18	0
3/31/20 17:30	13.78	186.4	8.27	5.798	29.18	0
3/31/20 17:45	13.29	187.7	10	5.615	29.18	0
3/31/20 18:00	11.36	191.9	8.07	5.52	29.21	0
3/31/20 18:15	11.97	188.2	8.52	5.475	29.21	0
3/31/20 18:30	14.39	187.5	8.02	5.411	29.21	0
3/31/20 18:45	15.63	196.3	7.277	5.242	29.21	0
3/31/20 19:00	9.33	225.3	44.23	4.885	29.2	0.02
3/31/20 19:15	3.228	321.9	16.33	3.395	29.2	0.01
3/31/20 19:30	8.14	230.8	37.41	4.113	29.2	0
3/31/20 19:45	10.02	200.2	10.78	4.153	29.2	0
3/31/20 20:00	11.76	185.8	8.86	3.841	29.21	0
3/31/20 20:15	11.45	175	11.79	3.518	29.21	0
3/31/20 20:30	10.08	165.1	8.77	3.236	29.21	0
3/31/20 20:45	10.26	165.7	10.37	3.024	29.21	0
3/31/20 21:00	10.75	171.8	9.6	2.999	29.21	0
3/31/20 21:15	8.78	162	7.099	2.891	29.21	0
3/31/20 21:30	8.75	164.3	6.891	2.843	29.21	0
3/31/20 21:45	5.612	158.2	9.88	2.885	29.21	0
3/31/20 22:00	5.249	162.3	11.7	2.964	29.21	0
3/31/20 22:15	5.645	170.5	15.43	2.983	29.21	0
3/31/20 22:30	6.151	156.1	6.125	2.896	29.21	0
3/31/20 22:45	6.047	156.5	5.567	2.901	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
3/31/20 23:00	5.254	151.9	7.209	2.927	29.21	0
3/31/20 23:15	5.012	146.2	9.97	2.972	29.21	0.01
3/31/20 23:30	4.652	149.4	8.35	3.034	29.21	0
3/31/20 23:45	2.858	134	9.63	2.93	29.21	0
4/1/20 0:00	2.06	147.3	12.27	3.002	29.22	0

APPENDIX D

Area 5 Top Deck Report

CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

First Quarter 2020



Department of Natural Resources and Parks
Solid Waste Division

May 2020
Printed on recycled paper

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**AREA 5 TOP DECK MONITORING
QUARTERLY REPORT**

FIRST QUARTER 2020

I. REPORT OVERVIEW

This report provides the quarterly performance analysis of the interim soil cover system over Area 5 in the Cedar Hills Regional Landfill (CHRLF). The intent of the report is to demonstrate that the top deck cover system is functioning to limit infiltration of rainwater, protect surface water quality, and control landfill gas emissions. Monitoring of surface emissions, leachate quantity, and stormwater quality is conducted, and results are presented in this report.

II. LEACHATE MONITORING

Leachate monitoring is performed to demonstrate that the landfill cover system is effectively limiting rainwater infiltration and therefore leachate production.

King County Solid Waste Division (KCSWD) is no longer able to monitor leachate volume from Area 5. KCSWD staff continues to evaluate leachate volumes collected throughout the landfill. Table 1 presents a historical account of leachate generation at the site since 1986. The evaluation accounts for variations in rainfall by normalizing the leachate flows in terms of gallons discharged per inch of rainfall. The flow has also been normalized relative to pounds of waste in-place. These normalized values for the entire site are also included in Table 1.

**TABLE 1
CEDAR HILLS REGIONAL LANDFILL LEACHATE PRODUCTION for FIRST QUARTER of 2020**

Time	Leachate	Surface Area of Refuse	Refuse In Place	Precipitation	Flow			
					(gal/Acre/yr)	(gal/Acre/in)	(gal/lb/yr)	(gal/lb/in)
(year)	(MG/yr)	(Acres)	(lbs)	(in/yr)	(gal/Acre/yr)	(gal/Acre/in)	(gal/lb/yr)	(gal/lb/in)
1986	163.03	138.5	11,328,841,100	54.79	1,177,112	21,484	0.0144	0.00026
1987	139.53	138.5	12,927,926,300	39.6	1,007,422	25,440	0.0108	0.00027
1988	169.67	161.9	14,525,504,000	48.63	1,048,009	21,551	0.0117	0.00024
1989	176	161.9	16,203,204,000	44.12	1,087,110	24,640	0.0109	0.00025
1990	294.75	161.9	17,965,254,000	71.6	1,820,594	25,427	0.0164	0.00023
1991	224.27	221.4	19,778,412,000	45.85	1,012,967	22,093	0.0113	0.00025
1992	156.46	221.4	21,454,600,000	38.64	706,694	18,289	0.0073	0.00019
1993	150.83	221.4	23,051,348,000	35.01	681,264	19,459	0.0065	0.00019
1994	159.8	221.4	24,657,528,000	38.55	721,764	18,723	0.0065	0.00017
1995	201.11	221.4	26,294,654,000	48.4	908,376	18,768	0.0076	0.00016
1996	243.03	221.4	27,946,704,000	57.08	1,097,714	19,231	0.0087	0.00015
1997	239.23	221.4	29,665,380,000	57.24	1,080,511	18,877	0.0081	0.00014
1998	202.8	221.4	31,432,828,000	42.82	916,006	21,392	0.0065	0.00015
1999	219.15	283.42	33,273,828,000	45.9	773,229	16,848	0.0066	0.00014
2000	148.82	283.42	35,167,828,000	33.15	525,102	15,840	0.0042	0.00013
2001	174.08	283.42	37,041,828,000	47.28	614,194	12,991	0.0047	0.0001
2002	133.4	283.42	38,919,828,000	35.13	470,690	13,399	0.0034	0.0001
2003	181.6	283.42	40,877,828,000	46.39	640,761	13,812	0.0044	0.0001
2004	185.72	328.72	42,889,828,000	34.08	564,983	16,578	0.0043	0.00013
2005	175.31	328.72	44,867,538,000	40.75	533,313	13,087	0.0039	0.0001
2006	264.95	328.72	46,820,938,000	52.94	806,009	15,225	0.0057	0.00011
2007	161.48	328.72	47,129,756,000	38.68	491,239	16,143	0.0034	0.00012
2008	126.02	328.72	48,990,990,000	42.32	383,366	9,059	0.0026	0.00006
2009	172.16	328.72	49,414,219,997	42.42	523,741	12,347	0.0035	0.00008
2010	199.4	335.72	51,076,043,997	49.25	593,959	12,060	0.0039	0.00008
2011	180.2	353.12*	52,701,411,694	51.05	510,308	9,996	0.0034	0.00007
2012	202.3	353.12*	54,315,239,773	58.16	572,972	9,852	0.0037	0.00006
2013	156.4	353.12*	55,933,569,773	47.77	442,923	9,272	0.0028	0.00006
2014	189.14	353.12*	57,638,062,970	64.07	535,631	8,360	0.0033	0.00005
2015	176.26	353.12*	59,401,111,988	51.39	499,159	9,713	0.0030	0.00006
2016	180.32	353.12*	61,277,452,914	51.43	510,659	9,929	0.0029	0.00006
2017	218.18	353.12*	63,183,738,844	57.54	617,853	10,738	0.0035	0.00006
2018	175.71	353.12*	64,999,044,304	33.83	497,597	14,709	0.0027	0.00008
2019	165.27	353.12*	66,781,588,304	45.71	468,018	10,239	0.0025	0.00005
2020	82.21	353.12*	67,207,179,254	22.24	232,798	10,468	0.0012	0.00005

2020: Precipitation, leachate and refuse in place through 1st Quarter of 2020

* The 353.12 acre value was a plan view area calculated by AUTOCAD, using the area inquiry feature of a closed polyline.

III. SURFACE MONITORING

KCSWD's plan for monitoring the surface of the Area 5 Top Deck is comprised of three (3) components:

1. Landfill gas inspections and surface emissions monitoring;
2. Top Deck surface inspections; and,
3. Settlement monitoring.

The purpose of this monitoring is to detect any conditions affecting the cover system that may permit landfill gas emissions, leachate seeps, or excessive or differential settlement.

Landfill Gas Inspections

Each quarter, monthly inspections of the gas system, stormwater system, and cover system of Area 5 are performed by the KCSWD staff. During the first quarter of 2020 all inspections and maintenance work was performed by KCSWD staff as planned. A summary of this work can be found in Appendix A: Inspection Reports.

Also, throughout the first quarter of 2020, KCSWD staff performed monthly landfill facility site inspections. These inspections are also included in Appendix A. During the first quarter, erosion control measures continued to be implemented and/or maintained to mitigate runoff effects from on-going construction activities at the landfill.

No inspections were performed by Public Health – Seattle & King County (PHSKC) this quarter.

Air Quality Criteria

Each quarter, surface emission monitoring is conducted across the Area 5 Top Deck and its side slopes to verify that methane gas emissions are below regulatory criteria. The first quarter of 2020 surface emission monitoring for the landfill was conducted from March 15 through March 24, 2020.

There were no surface emission limit exceedances of methane (regulatory limit of 500 ppm) during the first quarter of 2020 in the Area 5 Top Deck area.

The results from the first quarter of 2020 surface emission monitoring can be found in Appendix B: Gas Monitoring Reports, along with a plot of the serpentine walk route.

Top Deck Surface Inspections

Visual inspections for indications of leachate seeps are conducted each quarter by KCSWD personnel in conjunction with the surface emissions monitoring and monthly inspections. No indications of leachate seeps were recorded during the first quarter of 2020 by KCSWD staff, or by PHSKC personnel.

Settlement Monitoring

Settlement of Area 5 is evaluated both through visual inspections and through topographic surveys at control points on the top deck. Due to the preparation work for the closure of Area 7 and the opening on Area 8, all previously surveyed control points in Area 5 were covered. Recently added monitoring location PMX2015 was added as a replacement for PMX20074. Other alternate locations are currently being evaluated as survey control points in order to continue settlement monitoring within Area 5. Historical data can be viewed in Table 2.

TABLE 2
CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for FIRST QUARTER of 2020

A5SM-1 ^a		A5SM-2		A5SM-3 ^b		PMX20074 ^c		PMX2015 ^d	
Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
10/4/2005	699.18	10/4/2005	785.17	--	--	--	--	--	--
2/1/2006	697.7	2/1/2006	782.52	--	--	--	--	--	--
6/27/2006	696.51	6/27/2006	780.48	--	--	--	--	--	--
2/14/2007	694.53	--	--	2/14/2007	786.4	--	--	--	--
--	--	4/20/2007	776.95	4/20/2007	786.25	--	--	--	--
7/24/2007	693.34	7/24/2007	775.63	7/24/2007	785.68	8/16/2007	781.56	--	--
2/29/2008	691.77	2/29/2008	773.44	2/29/2008	784.87	2/29/2008	780.1	--	--
7/29/2008	691.26	7/29/2008	772.2	7/29/2008	784.31	7/29/2008	779.13	--	--
11/24/2008	690.61	11/24/2008	771.29	11/24/2008	783.76	11/24/2008	778.21	--	--
4/6/2009	690.16	4/6/2009	770.35	4/6/2009	783.35	4/6/2009	777.41	--	--
7/9/2009	689.77	7/9/2009	769.79	7/9/2009	783.05	7/9/2009	776.99	--	--
12/22/2009	689.13	12/22/2009	768.6	12/22/2009	782.44	12/22/2009	776.1	--	--
3/1/2010	688.77	3/1/2010	768.05	3/1/2010	782.08	3/1/2010	775.81	--	--
8/2/2010	688.6	8/2/2010	767.28	8/2/2010	781.78	8/2/2010	775.29	--	--
12/21/2010	688.1	12/21/2010	766.53	12/21/2010	781.25	12/21/2010	774.79	--	--
4/6/2011	687.83	4/6/2011	765.86	4/6/2011	780.94	4/6/2011	774.42	--	--
8/8/2011	687.46	8/8/2011	765.34	8/8/2011	780.66	8/8/2011	774.19	--	--
1/23/2012	687.19	1/23/2012	764.53	1/23/2012	780.26	1/23/2012	773.79	--	--
5/18/2012	686.78	5/18/2012	763.99	5/18/2012	779.9	5/18/2012	773.41	--	--
7/12/2012	686.69	7/12/2012	763.83	7/12/2012	779.69	7/12/2012	773.26	--	--
11/2/2012	686.55	11/6/2012	763.35	11/2/2012	779.56	--	--	--	--
5/22/2013	686.09	5/22/2013	762.77	5/22/2013	779.09	--	--	--	--
--	--	8/8/2013	762.53	9/5/2013	779.66	--	--	--	--
--	--	2/19/2014	762.06	2/19/2014	777.68	--	--	--	--
--	--	2/9/2015	761.09	2/9/2015	777.63	--	--	--	--
--	--	4/6/2015	761.11	4/6/2015	777.51	--	--	4/6/2015	770.48
--	--	7/2/2015	760.96	7/2/2015	777.38	--	--	7/2/2015	770.31
--	--	10/27/2015	760.62	10/27/2015	777.12	--	--	10/27/2015	770.1
--	--	2/3/2016	760.35	2/3/2016	776.83	--	--	2/3/2016	769.87
--	--	4/12/2016	760.35	4/12/2016	776.87	--	--	4/12/2016	769.86
--	--	7/11/2016	760.15	7/11/2016	776.68	--	--	7/11/2016	769.76
--	--	12/21/2016	759.85	12/21/2016	776.43	--	--	12/21/2016	769.57
--	--	5/31/2017	759.56	5/31/2017	776.23	--	--	5/31/2017	769.27
--	--	8/28/2017	759.38	--	--	--	--	8/28/2017	769.16
--	--	11/27/2017	759.28	--	--	--	--	11/27/2017	769
--	--	2/15/2018	759.10	--	--	--	--	2/15/2018	768.96
--	--	9/4/2018	758.61	--	--	--	--	9/4/2018	768.6
--	--	12/15/2018	758.55	--	--	--	--	12/15/2018	768.6
--	--	2/10/2019	758.44	--	--	--	--	2/10/2019	768.54
--	--	10/31/2019	757.94	--	--	--	--	10/31/2019	768.17
--	--	3/3/2020	757.71	--	--	--	--	3/3/2020	767.98

^a A5SM-1 was destroyed by filling Area 7 during Lift 4.
^b A5SM-3 NEW as of 2/14/2007. Destroyed by Area 8 excavation stockpile in 08/2017.
^c PMX20074 was destroyed during Phase 3 of Area 6.
^d PMX2015 NEW 04/06/2015; it's the same location as PMX20074

TABLE 3

CEDAR HILLS REGIONAL LANDFILL AREA 5 SETTLEMENT for FIRST QUARTER of 2020

Settlement Monitoring Locations	Units	SETTLEMENT DATE RANGE (MM/YYYY)													
		06/2006 - 07/2007	07/2007 - 07/2008	07/2008 - 07/2009	07/2009 - 08/2010	08/2010 - 08/2011	08/2011 - 07/2012	07/2012- 05/2013	05/2013- 02/2014	02/2014- 02/2015	02/2015- 02/2016	02/2016- 05/2017	05/2017- 02/2018	02/2018- 02/2019	02/2019- 03/2020
^a A5SM-1	Feet	3.17	2.08	1.49	1.17	1.14	0.77	0.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A5SM-2	Feet	4.85	3.43	2.41	2.51	1.94	1.51	1.06	0.71	0.97	0.74	0.79	0.46	0.66	0.73
^b A5SM-3	Feet	N/A	1.37	1.26	1.27	1.12	0.97	0.60	1.41	0.05	0.8	0.6	N/A	N/A	N/A
^c PMX20074	Feet	N/A	2.43	2.14	1.7	1.1	0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
^d PMX2015	Feet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.6	0.31	0.42	0.56
Average Settlement for Area 5	Feet/Date Range	4.01	2.33	1.83	1.66	1.33	1.05	0.75	1.06	0.51	0.77	0.66	0.38	0.54	0.64
	Feet/Month	0.33	0.19	0.17	0.14	0.11	0.10	0.08	0.13	0.05	0.07	0.04	0.05	0.05	0.05

^a A5SM-1 was destroyed by filling Area 7 during Lift 4.

^b A5SM-3 NEW as of 2/14/2007. Destroyed by Area 8 excavation stockpile in 08/2017.

^c PMX20074 was destroyed during Phase 3 of Area 6.

^d PMX2015 NEW 04/06/2015; it's the same location as PMX20074

IV. STORMWATER SAMPLING

Collection of Samples

No samples were collected from the Area 5 Top Deck stormwater monitoring stations SW-TD1, SW-TD2, SW-TD4, and SW-TD6 during the first quarter of 2020. This was due to multiple factors including low precipitation throughout the latter half of first quarter. Therefore, no comparisons can be made with the surface water or leachate sample data, nor can a review be performed for evaluating the runoff from Area 5 for the first quarter of 2020.

V. CONCLUSION

Stormwater samples for the Area 5 Top Deck were unable to be collected during the first quarter of 2020. Therefore, no determinations can be made regarding Area 5's first quarter 2020 stormwater runoff with respect to exceedances of water quality criteria or benchmarks, nor can comparisons be made with background surface water flow (from SW-S1), and leachate effluent (from LS-API).

The inspection reports for the first quarter of 2020 showed no issues with the interim cover system for Area 5 and no indication of LFG presence.

Due to survey control points being covered, there is no recent settlement survey data for first quarter of 2020. New survey points will be assessed for future monitoring.

The recent compliant historical performance trend for Area 5, coupled with ongoing inspection results verifying the integrity of the cover all provides evidence that the Area 5 Top Deck Interim Cover System continues to function to prevent interaction between refuse and storm water runoff from the Top Deck of Area 5.

Figures



LEGEND:

○ MONITORING STATION

DATE	REVISION	BY

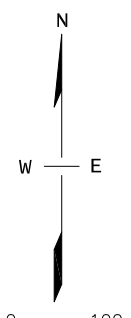


KING COUNTY DEPARTMENT OF
NATURAL RESOURCES AND PARKS
SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL
SETTLEMENT MONITORING LOCATIONS

APPROVED VCO DATE May 2019
 RECOMMENDED _____ DATE _____
 DESIGNED _____ DRAWN _____
 PROJECT NO. _____ SURVEY NO. _____ SHEET 1 OF 1
S:\CAD\CEDARHIL\annual report monitoring well\CH annual settlements2014.dwg

P:\ACAD\PROJECT\King County Expansion Proposal\CARLA WORK\Figure 1.dwg Aug 01, 2007 3:18pm



AREA 5 TOP DECK STORMWATER MONITORING STATION

STATION NUMBER	STATION DESCRIPTION
SW-A5TD1	NORTHEAST PORTION OF AREA 5 TOP DECK WHERE RUNOFF FROM THE TOP DECK EXITS AN 18-INCH CULVERT. SAMPLING TO BE PERFORMED AT THE OUTLET OF THE CULVERT.
SW-A5TD2	NORTH SLOPE OF AREA 5 WHERE RUNOFF, FROM THE NORTH SLOPE FLOWING IN A ROADSIDE DITCH, DRAINS INTO A 12-INCH CULVERT. SAMPLING TO BE PERFORMED AT THE OUTLET OF THE CULVERT.
SW-A5TD3*	WEST OF THE AREA 5 TOP DECK, WITHIN THE SCRAPER ROAD 5 ROADSIDE DITCH AT THE OUTLET END OF A TEMPORARY 12-INCH PIPE. THE TEMPORARY 12-INCH PIPE IS IN PLACE, BECAUSE THE WEST SIDESLOPE GEOMEMBRANE DOES NOT CURRENTLY HAVE COVER SOIL. ONCE THE COVER SOIL IS IN PLACE, THE PIPE WILL BE REMOVED AND THE SAMPLE LOCATION WILL NO LONGER BE SAMPLED.
SW-A5TD4	CENTER OF THE WEST PORTION OF AREA 5 TOP DECK WHERE RUNOFF FROM THE TOP DECK DRAINS INTO THE "VALLEY" RUNNING EAST TO WEST. SAMPLING TO BE PERFORMED AT THE INLET OF THE "VALLEY" DITCH.
SW-A5TD5*	THE OUTLET END OF A TEMPORARY 12-INCH HDPE PIPE THAT CONVEYS RUNOFF FROM THE SOUTHWEST CORNER OF THE AREA 5 TOP DECK. THE TEMPORARY 12-INCH PIPE IS IN PLACE, BECAUSE THE SOUTH SIDESLOPE GEOMEMBRANE DOES NOT CURRENTLY HAVE COVER SOIL. ONCE THE COVER SOIL IS IN PLACE, THE PIPE WILL BE REMOVED AND THE SAMPLE LOCATION WILL NO LONGER BE SAMPLED, BECAUSE FLOW IN THE ROADSIDE DITCH AT THIS LOCATION WILL NO LONGER CONTAIN RUNOFF FROM THE AREA 5 TOP DECK.
SW-A5TD6	WEST OF THE AREA 5 TOP DECK, WITHIN THE SCRAPER ROAD 5 ROADSIDE DITCH, THIS SAMPLE POINT RECEIVES TOP DECK FLOW FROM TWO SIDESLOPE DITCHES THAT INTERSECT AT THE SAMPLE LOCATION.

*STATIONS SW-A5TD3 AND SW-A5TD5 WERE TEMPORARY STORMWATER MONITORING STATIONS THAT CEASED TO EXIST AS OF JULY 16, 2007.

LEGEND:

⊕ STORMWATER MONITORING STATION

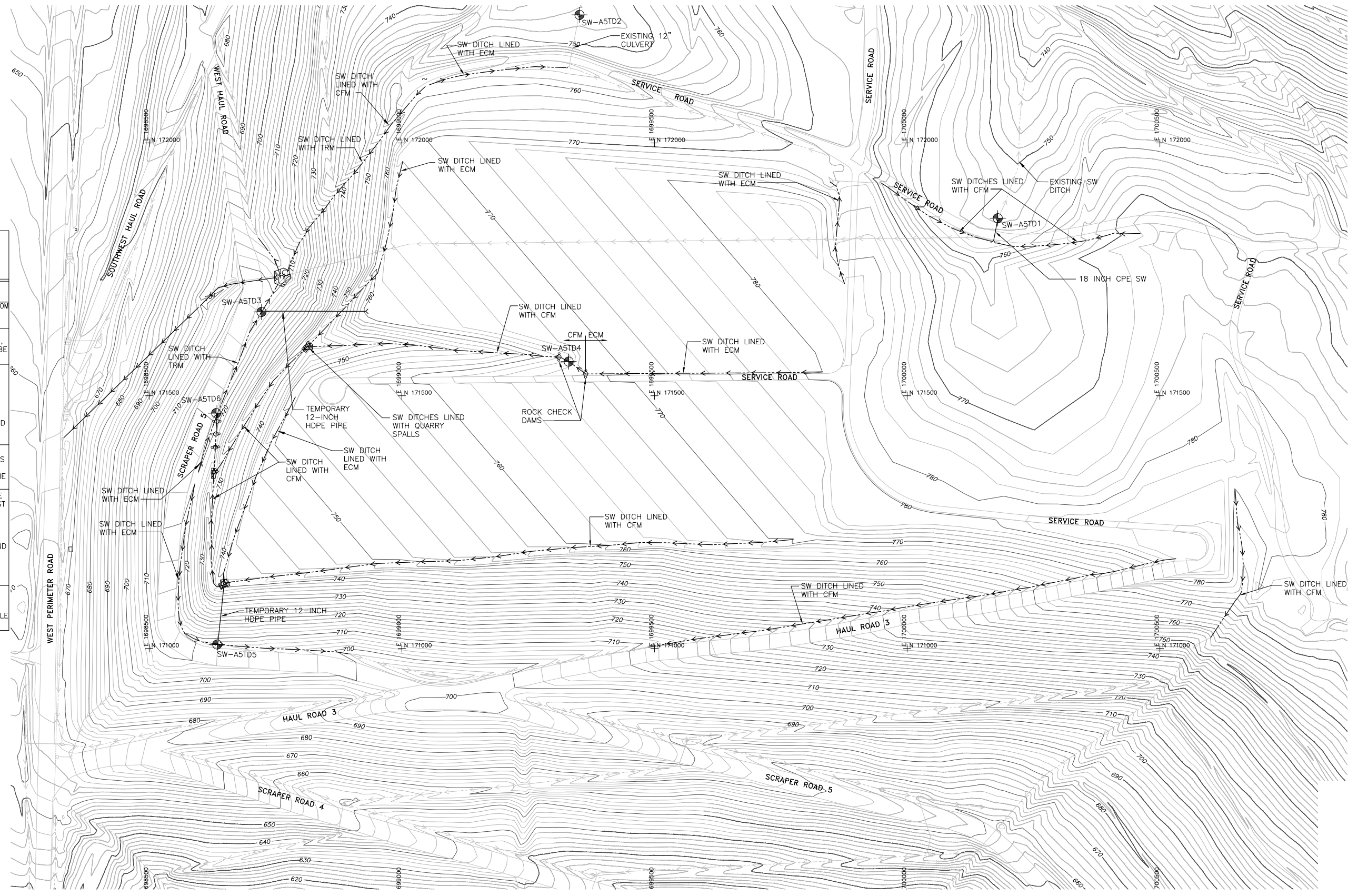


Figure 2
Area 5 Top Deck
Stormwater Monitoring Stations

Appendix A:
Inspection Reports

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SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Sterling Bath Date: 1/22-23/2020

Location: Cedar Hills Ambient Temperature (°43/48F) Weather Condition: Rainy

ACTION CODES

A. Gas System		OK	Not OK	B. Leachate System		OK	Not OK	C. Landfill Operations		OK	Not OK
1. Pipe Penetrations		X		1. Pump Stations		X		1. Fueling Stations		X	
2. Collection Piping		X		2. Aeration Lagoons / Basins		X		2. Vehicle Wash Stations		X	
3. Gas Extraction Wells		X		3. Aerators		X		3. Equipment		X	
4. Valve Stations		X		4. Weeps (strip drains)		X		4. Perimeter Fences		X	
5. Odor		X		5. Collection System		X		5. Vegetation		X	
6. Flare Stations		X		a. Collection Pipes		X		6. Landfill Cover		X	
7. Air Compressors		X		b. Forcemains		X		7. Drain Rock		X	
8. Noise Control		X		c. Manholes		X		9. Air Quality		X	
				d. Cleanouts		X		10. Stockpiles		X	
				6. Generators		X		11. Vectors		X	
D. Stormwater System				7. Extraction Wells		X		12. Litter		X	
1. Ponds		X		8. Valve / Cleanout		X		13. Dust control		X	
2. CB / Control Structures		X		9. Groundwater Extraction Wells		X		14. Other		X	
3. Pipes / Culverts		X									
4. Trash Racks		X		E. Roadway System				Cover System / ESC			
5. Ditches		X		1. Road Sweeping		X		F. Vegetation		X	
6. Runoff Control Berms		X		2. Access Roads		X		1. Refuse		X	
7. Discharge Points			X	3. Road Erosion		X		2. Cover System Erosion		X	
8. General		X		4. Road Pavement		X		3. Silt Fences/Filter Fabric		X	
				5. Lane Striping		X					
G. Operations											
1. Records Obtain / Review		X									

Item No.	Action Code(s)	Area Code(s) (See below or over for)		Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
				G	F	P		
1	D5	G2/G	A8		X		Sediment in south Area 8 stormwater ditch. Needs to be cleared in multiple locations.	
2	D8	G4			X		Debris from CSW ramp and west side of liner. Needs to be cleaned and cleared.	
3	D5	G3	A8		X		Ditch lining in middle of south Area 8 stormwater ditch has come undone. Recommend re-staking this liner down.	
4	C12	F2/G2	A8		X		Trash all over ground, trees and wetland just west of Area 8. Clean up trash and move litter fencing to protect area.	

5	F2	F2	A8		X	Rills near the northwest corner of Area 8. Recommend adding more material and compacting appropriately when dry then hydro seeding.
6	F2	E3	A7		X	Rills on north slope of Area 7 forming. Fill in and compact when dry then hydro seed.
7	F2/C12	E2/F2	A7		X	Rills, gullies and plastic on west side of Area 7. Recommend removing plastic, filling in rills and gullies and compacting when dry. Hydro seed after compacting.
8	D7	F4 & H6	A6		X	Runoff from Area 6 stockpile causing turbidity exceedances at SW-SL3 (C3). Add bark on top of area generating runoff.
9	D4	H3			X	Trash rack does not fit over valve station at sand filter. Install and fit new trash rack over valve vault.
10	C14	H4			X	Sediment fence by pump station 4 is falling apart. Rebuild sediment fence or replace.
11	C14	G5			X	Beam needs rust protection. Coat with paint or other corrosion protection.
12	C14	G4			X	Shop door canopy needs to be painted. Paint shop door canopy.
13	C14	G4			X	'Only rain down the drain signs not readable. Need to install new "Only rain down the drain" signs. 2 locations identified this inspection.
14	C1	G4			X	Fuel island covers are busted. Need to install new fuel island covers.
15	C14	G5			X	Buckets are labeled vaguely. Apply appropriate material labels.
16	C14	G5			X	Abandoned signs east of lower parking lot. Repurpose or dispose of.

AREA CODES (for Cedar Hills)

East Main Hill = EMH
 Southwest Main Hill = SWMH
 Southeast Pit Area = SEPA
 Central Pit = CP

G = Good

Area 2/3 = A2/3
 Area 4 = A4
 Stockpile = SP

F = Fair

Aeration Ponds = AP
 So. Solid Waste Area = SSWA
 North Flare Station = NFS

P = Poor

Area 5 = A5
 Area 6 = A6
 Area 7 = A7
 Area 8 = A8

State the needs of the repairs in the suggested remedy box.

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
 - a. *Emergency* - stops the continuing operation of the facility
 - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may results in significant & extensive repair of facility.
 - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
 - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection:

The site was impacted by the rains observed during the inspection. One compliance point has a turbidity exceedance. The sediment leading to this turbidity exceedance is coming from the Area 6 soil stockpile. My recommendation to address this is to bark over all possibly impacted soils. If turbidity issues persist then with the help of FESS more systematically replace and repair current BMPs until in compliance. CSW ramp and west side of liner is littered with debris that will need to be cleaned. The south stormwater ditch for Area 8 needs to have sediment removed and the flap needs to be re-staked in the middle. There is a high volume of trash west of Area 8 that needs to be cleaned up. Rills have formed or are getting deeper on the north side of Area 8 and Area 7. These will need to be filled-in, compacted when it's dry and hydro-seeded. Along the west side of Area 7 there are a series of gullies and rills. Some plastic has been used to protect previous rills. When it is dry plastic should be removed and all rills and gullies should be filled in, compacted and hydro-seeded. One of the sand filter valve needs to have a trash rack fitted on it. There is a sediment fence by pump station 4 that needs to be fixed. "Only rain down the drain" signs around catch basins need to be replaced. The fuel island covers need to be reinstalled in several locations. Unmarked buckets in the lower parking lot should be marked. Finally a pile of old signs by the lower parking lot should be repurposed or disposed of.

<i>Category number:</i> 1. Regulatory Priority	Action to be Completed. Suggested Remedy: Bark over affected areas to reduce runoff caused by rainfall. If turbidity issues persist work with FESS to systematically implement BMPs to address this issue.
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (circle Y or N)
If Y, log changes in Appendix I of SWPPP.

Potential Pollutant Sources Y / N

Site Map Y / N

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: _____

SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

- The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*
- The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: _____

Signature: *Stacy Rath* Date: _____

DULY AUTHORIZED REPRESENTATIVE

Based on professional judgment, which of the following statements is true: (select one)

- The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*
- The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP*.*

* Immediately notify Environmental Compliance Coordinator

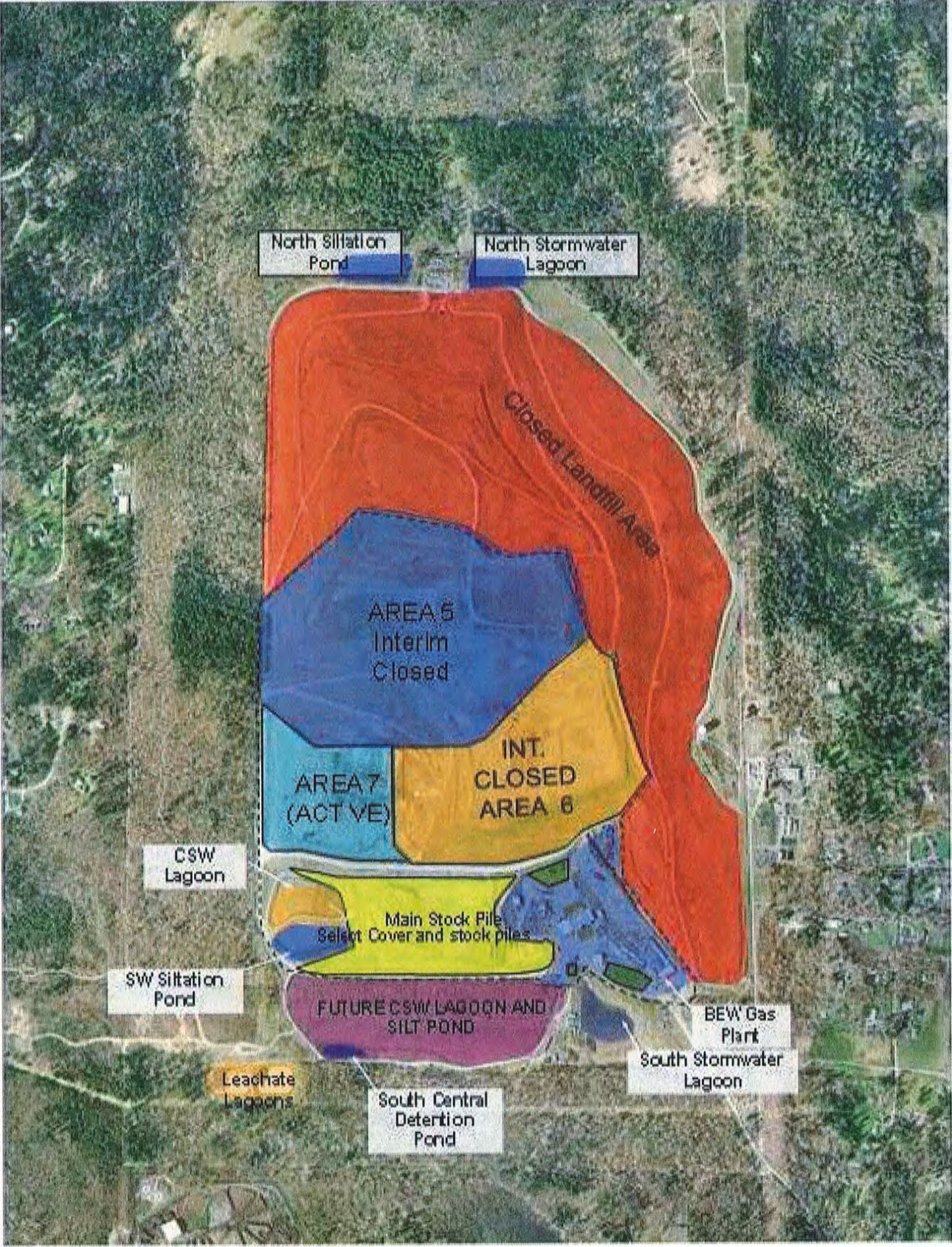
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager

Signature: *[Signature]* Date: *01/30/2020*
on behalf of Bill Berni

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Permit Compliance

Inspected By: Sterling Bath Date: 2/24/2020

Location: Cedar Hills Ambient Temperature: (°41 F) Weather Condition: Cloudy

ACTION CODES

A. Gas System	Good	Fair	Poor	C. Landfill Operations	Good	Fair	Poor	E. Roadway System	Good	Fair	Poor
1. Pipe Penetrations	X			1. Fueling Stations	X			1. Road Sweeping	X		
2. Collection Piping	X			2. Vehicle Wash Stations	X			2. Access Roads	X		
3. Extraction Wells	X			3. Equipment	X			3. Road Erosion	X		
4. Monitoring Probes	X			4. Perimeter Fences	X			4. Road Pavement	X		
5. Valve Stations	X			5. Vegetation	X			5. Lane Striping	X		
6. North Flare Station	X			6. Landfill Cover		X					
7. Migration Flare	X			7. Drain Rock		X					
8. Noise Control	X			8. Air Quality	X			F. Other Items	X		
9. Air Compressors	X			9. Stockpiles	X						
				10. Vectors	X						
B. Leachate System				11. Litter		X					
1. Pump Station 1	X			12. Dust Control							
2. Pump Station 2	X			13. Other		X					
3. Pump Station 3	X										
4. Pump Station 4	X			D. Stormwater System							
5. Lagoon Facilities	X			1. CSW Pond	X						
6. Lagoon Aerators	X			2. North Siltation Pond	X						
7. Collection System:	X			3. North SW Lagoon	X						
a. Collection Pipes	X			4. South SW Lagoon	X						
b. Force Mains	X			5. South Siltation Pond	X						
c. Manholes	X			6. Sand Filter		X					
d. Cleanouts	X			7. CB/ Control Structures		X					
8. Generators	X			8. Pipes/Culverts	X						
9. Extraction Wells	X			9. Trash Racks	X						
10. Valves/Cleanouts	X			10. Ditches		X					
11. Groundwater Extractions Wells		X		11. Best Management Practices		X					
				12. Compliance Points			X				
				13. Other	X						

Item No.	Action Code(s)	Area Code(s) (See below or over for map)		Status			State Reason if "Fair or Poor", include remedy to get item to "Good"	Date Corrective Action Implemented
		Area	Map	Good	Fair	Poor		
1	B11/C11		C2		X		Plastic covering over damaged groundwater well is coming off and needs to be replaced.	
2	D6		3I		X		Fit grit filter over valve to size. On CAMP list. Follow-up with Sterling.	
3	D10	A8	H		X		Sediment filling south Area 8 stormwater ditch. Recommendation is to vector sediment.	
4	D10	A8	H		X		Flap of south Area 8 stormwater ditch is un-staked in 3 locations. Recommendation is to re-stake the ditch at these locations.	
5	C7	A8	G2		X		Rill on northwest corner of Area 8 close to ground surface in drain rock. Recommendation is to fill, compact and hydro seed.	
6	C6/C11	A7	F2/G2		X		Rills and plastic on west slope of Area 7. Fill and compact rills then hydro seed and remove plastic.	
7	C6	A7	F2		X		Rill on northwest corner of Area 7. Fill compact and hydro seed.	
8	C6/D11	A6			X		Bare upper slopes on west side of Area 6. Need to hydro-seed and/or put additional BMPS at foot of slope to control sediment runoff.	
9	C11	A6			X		Debris in west stormwater ditch. Recommendation is to remove this.	
10	C6	A7			X		Many rills on the east side of Area 7. Fill, compact and hydroseed when conditions are permitting.	
11	C6	A8			X		Major riling on west side of stockpile slope (facing Area 8). Fill compact and hydro seed.	
12	C13		H5		X		Unlabeled bucket in parking lot. Label buckets.	

13	D7		H5		X	5 stormwater drains need new "Only Rain Down the Drain" signs.
14	D12		I7		X	Compliance point C3/SW-SL3 has a turbidity of 33.5 NTU. Need to clean sediment in ditches and check dams along west side of Area 6.
15	C13		H5		X	Need fuel island mats to prevent infiltration into fuel system. Talk to Tien to verify plan for this work.

AREA CODES (Cedar Hills):

East Main Hill = EMH

Area 2/3 = A2/3

Leachate Lagoons = LL

Area 5 = A5

Southwest Main Hill = SWMH

Area 4 = A4

CSW Lagoon = CSW

Area 6 = A6

Southeast Pit Area = SEPA

Stockpile = SP

North Flare Station = NFS

Area 7 = A7

Central Pit = CP

Area 8 = A8

State the needs of the repairs in the suggested remedy box.

1. *Regulatory Priority* - permit, regulations & code & compliance driven.
2. *Safety Priority* – potential to adversely affect the safety of workers or the related environment.
3. *Maintenance Priority* – Ensures continuation of existing level of facility operations to ensure proper efficiency without interruption. This priority has the following four potential levels
 - a. *Emergency* - stops the continuing operation of the facility
 - b. *Urgent* – While not completely prohibiting continuing use of the facility, may threaten use of entire facility or continuing use may results in significant & extensive repair of facility.
 - c. *Routine* – need to be completed & not necessarily. May be completed under existing operations preventative programs.
 - d. *Deferred* – desirable but not required to maintain status quo operations (e.g., planting or wild life enhancement projects etc.)

Overall site description day of site inspection:

The site is improving since the high rain events of this winter. One compliance point continues to have turbidity issues, but the turbidity has been reduced since prior inspections likely due to bark added to control impacted soils. Recommendation is to remove sediment in ditches and check dams along west side of Area 6. Plastic litter that will need to be removed was found near a groundwater well, in the west Area 6 stormwater ditch and the west slope of Area 7. The sand filter grit screen will need to be fitted over the valve and will be addressed by CAMP. The south stormwater ditch of Area 8 needs to be vactored out and re-staked in 3 places. Rills to be filled, compacted and hydro seeded in the northwest corner of Area 8, the west slope of Area 7, the north west of Area 7, the east slope of Area 7 and the west side of the stockpile adjacent to Area 8. There are unlabeled buckets in the parking lot that should be labeled. 5 new “Only Rain Down the Drain” signs need to be ordered to replace 5 worn stormwater basins. Fuels island mats need to cover the current fuel island system to protect it from infiltration contact Tien Pham for next steps on this project.

Photos: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 20\02 - Feb\Photos

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
1.	Remove sediment in in ditches and check dams along west side of Area 6.

SWPPP Modifications Necessary? (Circle **Y** or **N**)
If **Y**, log changes in Appendix I of SWPPP

Potential Pollutant Sources **Y** / **N**

Site Map **Y** / **N**

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 2/24/2020

SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name: Sterling Bath

Signature:  Date: 3/4/20

DULY AUTHORIZED REPRESENTATIVE

Based on professional judgment, which of the following statements is true: (select one)

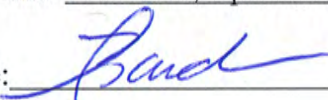
The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager / Scott Barden on behalf of
Bill Berni

Signature:  Date: 03/04/20

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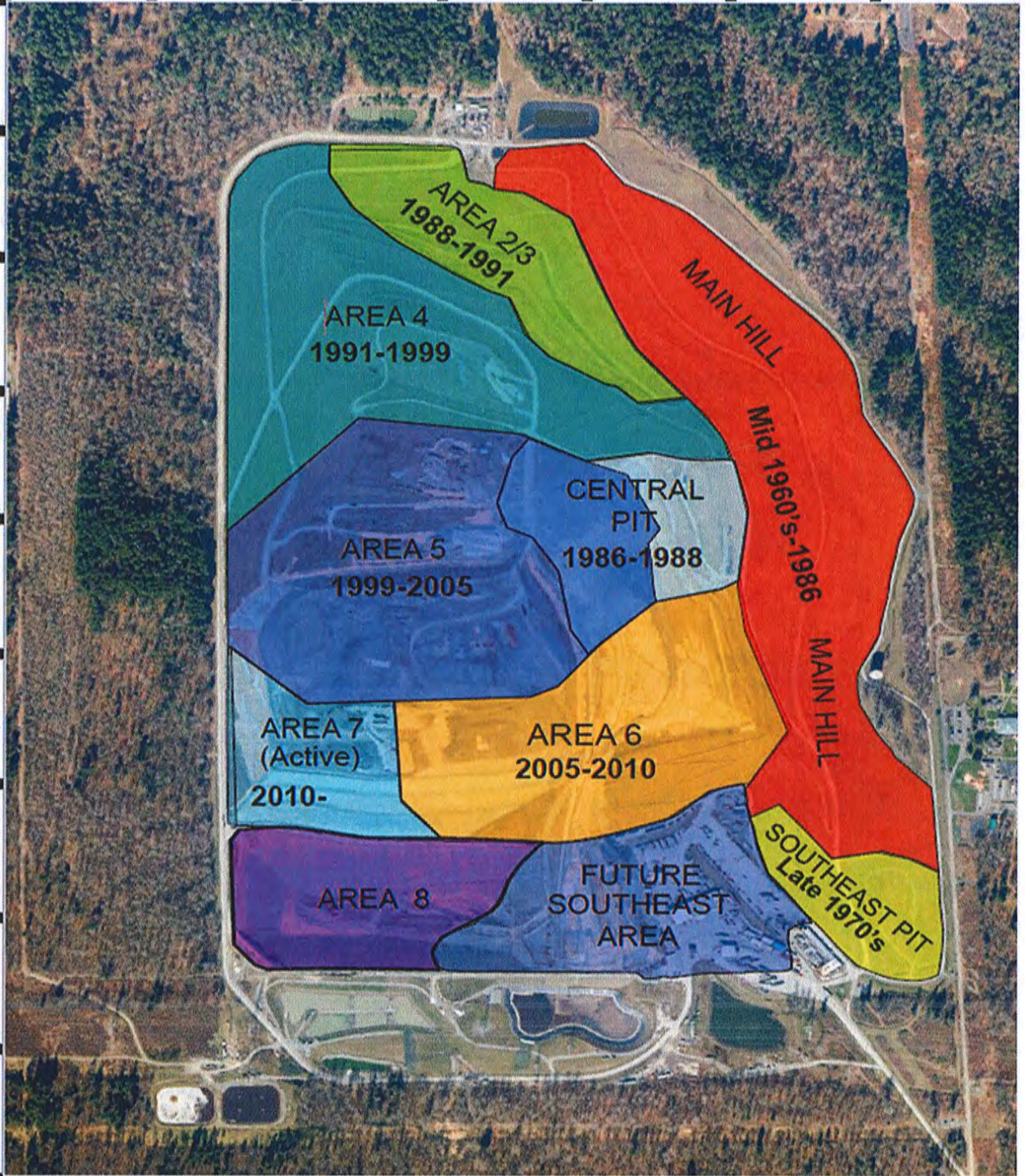
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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Stormwater Permit Compliance (ISGP Permit # WAR000756)

Inspected By: Sterling Bath Date: 3/23/2020 1:00 pm

Location: Cedar Hills Ambient Temperature: (° 46F) Weather Condition: Partly Cloudy

Inspection Requirements

1. Observations of the discharge points where stormwater leaves the site (N4, GS1, and SL3)
2. Observations for the presence of floating materials, visible oil sheen, discoloration, turbidity, odor, etc. in stormwater leaving site
3. Observations for the presence of an illicit discharge
4. Verification that the descriptions of potential pollutant sources in this SWPPP are accurate
5. Verification that the site map in this SWPPP is accurate
6. Assessment of BMPs for effectiveness, maintenance needs, and any deficiencies warranting new or different BMP's than those implemented at the time of the inspection.

Category	Good	Fair	Poor	Comments
A. CSW Pond	X			
B. North Siltation Pond	X			
C. North SW Lagoon	X			
D. South SW Lagoon	X			
E. South Siltation Pond	X			
F. Sand Filter	X			
G. CB/ Control Structures		X		Replace "Only Rain Down the Drain" signs.
H. Pipes/Culverts	X			
I. Trash Racks	X			
J. Ditches		X		Re-stake and mend Area 8 south stormwater ditch in several locations
K. Best Management Practices		X		Oil spill identified behind stores. Verify drip pans are available. Repair or remove damaged Area 6 sediment fences. Fill, compact and hydro-seed rills on east slopes of Area 7 and the west slope of Area 8 stockpile.
L. Compliance Points:				
a. SW-N4	X			2/6/2020 Turbidity Reading was 13.8 NTU
b. SW-GS1	X			2/6/2020 Turbidity Reading was 20.2 NTU
c. SW-SL3	X			2/6/2020 Turbidity Reading was 12.6 NTU
M. Other:	X			

Item No.	Category	Area Code(s) (See below or over for map)		Status			State Reason if "Fair or Poor", include remedy to get item to "Good"	Date Corrective Action Implemented
		Area	Map	Good	Fair	Poor		
1	J	A8	H2/H3/H4		X		South Area 8 stormwater ditch needs to be re-staked in several locations and mended in one location.	
2	G		G5/H5		X		Replace several "Only Rain Down the Drain" signs.	
3	K		G5		X		Oil behind stores during inspection. Remind staff to use drip pans and keep an eye out for fluid leaks	
4	K	A7			X		Rills in upper east slope of Area 7. Need to be filled, compacted and hydro-seeded when weather is cooperative.	
5	K	A8	G4		X		Large slope failure on west Area 8 stockpile potential landslide risk here. Need to be filled, compacted and hydro-seeded when weather is cooperative. Please consider if anything can be done to make the slope less severe here.	
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AREA CODES (Cedar Hills):

East Main Hill = EMH

Area 2/3 = A2/3

Leachate Lagoons = LL

Area 5 = A5

Southwest Main Hill = SWMH

Area 4 = A4

CSW Lagoon = CSW

Area 6 = A6

Southeast Pit Area = SEPA

Stockpile = SP

North Flare Station = NFS

Area 7 = A7

Central Pit = CP

Area 8 = A8

State the needs of the repairs in the suggested remedy box.

1. *Emergency*
2. *Regulatory Priority*
3. *Safety Priority*
4. *Maintenance Priority*
 - a. *Urgent*
 - b. *Routine*
 - c. *Deferred*

Overall site description day of site inspection:

Overall site description day of site inspection: Overall the site is maintained. Implementation of additional BMPs and a lack of heavy rainfall has dramatically reduced turbidity readings at compliance points. The liner over the south stormwater ditch of Area 8 needs to be re-staked in several locations where the liner has come un-staked and needs to be mended in one location where it is tearing. There is a large rill in the upper east slope of Area 7 That should be filled, compacted and hydro-seeded when the weather allows. There is a large slope failure on the west slope of the Area 8 stockpile. When weather is appropriate this needs to be filled, compacted and hydro-seeded. Please also reconsider the grade of this slope. Several "No Rain Down the Drain Signs" need to be replaced around the support facilities. Oil sheen in puddle behind the NE corner of the stores building. Remind staff to use drip pans and look for any noticeable fluid leaks.

Photos of this inspection can be found here: <P:\SWPublic\CHL Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 20\03 - Mar\Photos>

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:
<i>Category number:</i>	Action to be Completed. Suggested Remedy:

SWPPP Modifications Necessary? (Circle **Y** or **N**)
If **Y**, log changes in Appendix I of SWPPP

Potential Pollutant Sources **Y** / **N**

Site Map **Y** / **N**

. INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 3/26/2020 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

Based on professional judgment, which of the following statements is true: (select one)

The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

Printed name:

Signature: Stading Btk Date: 4/8/2020

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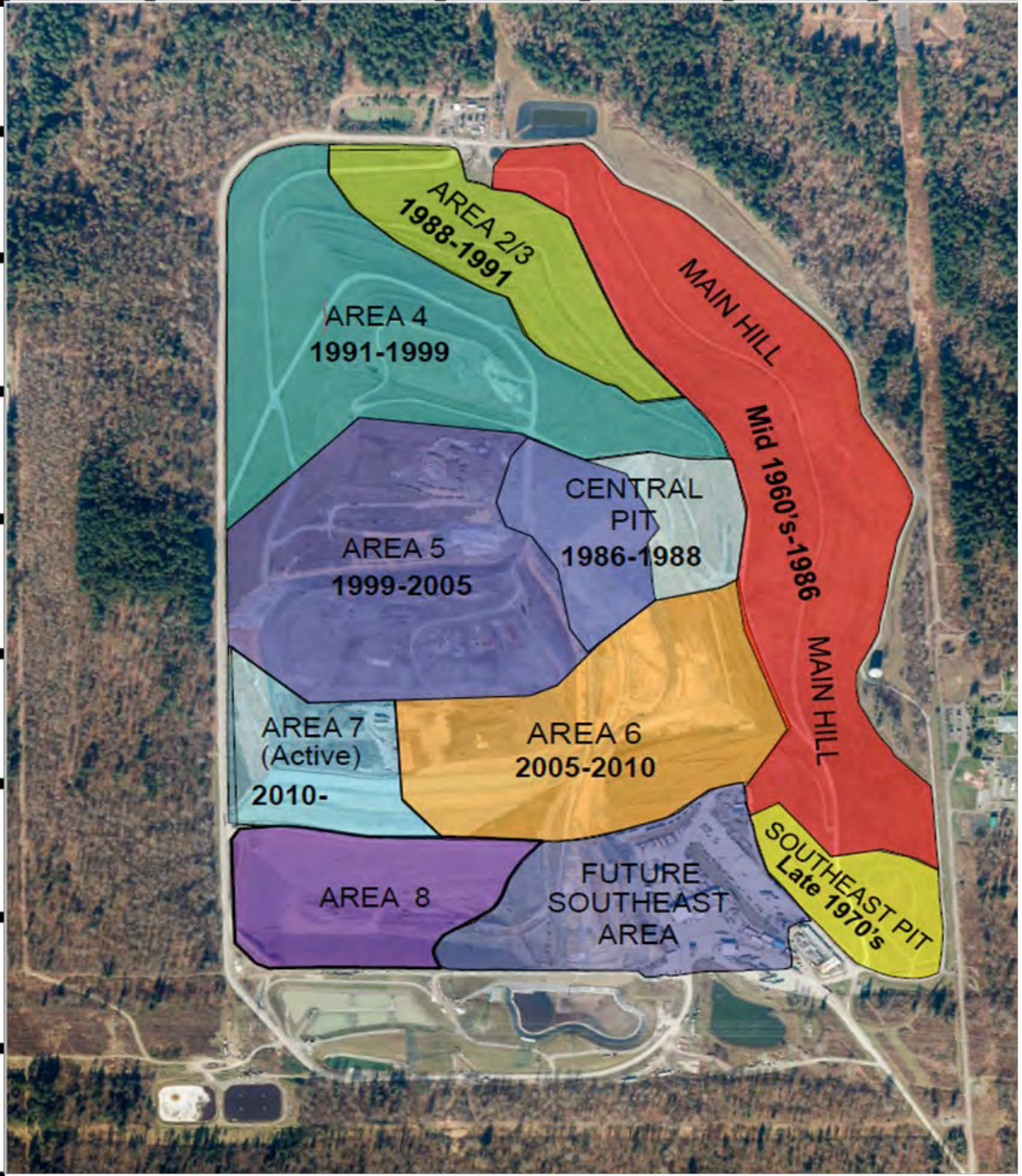
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SOLID WASTE INSPECTION REPORT

PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)
ESTABLISHMENT INFORMATION: CEDAR HILLS SANITARY LAND CEDAR HILLS SANITARY LAND 16645 228TH AV SE MAPLE VALLEY, WA 98038 206-296-4385 Program Record: PR0015736	INSPECTION INFORMATION: Date of Inspection: Thursday, January 23, 2020 Time In: 10:50 am Time Out: 12:40 pm Inspector: Darshan Dhillon Result: COMPLETE

VIOLATIONS OBSERVED (if any)

-

OVERALL INSPECTION COMMENTS:

CHRLF Inspection

1. ACTIONS AND RECOMMENDATIONS:

1.1 Oil sheen was observed on the road behind generator P009 located on the west perimeter road by the storm water concrete structure. Ensure that oil sheen does not flow into the storm water collection system.

2.0 OBSERVATIONS:

- 2.1 Large number of bald eagles and sea gulls were flying over the active face of area 8.
- 2.2 Leachate collection system (Lagoons) are maintained and aerators were operating according to the set schedule. Aerator was working in east lagoon at the time of my inspection.
- 2.3 Bio-Energy Plant was operating and north flare station was off except candle stick flare. Candle stick flare is on at all times to burn low quality landfill gas.
- 2.4 Landfill gas is monitored on a daily basis and no exceedances were recorded at the compliance probes.
- 2.5 Access to the facility has been controlled by a perimeter fence and a locking gate.
- 2.6 Groundwater monitoring wells and gas probes are secured with pad locks.
- 2.7 Groundwater is being monitored on a quarterly basis.
- 2.8 Daily inspections carried out by the landfill gas staff and up-to-date records are maintained.
- 2.9 No landfill gas odors were observed at the property boundary of the landfill.
- 2.10 A large amount of storm water was flowing into the storm water pond and into the sand filter. Sand filter was full of storm water. However, the turbidity of storm water appeared to be less than 15 NTU. It was cloudy and heavily raining during the inspection.



Darshan Dhillon
HEI III

Scott Barden
Assistant Operations Manager

PIC Phone #: 206-263-8863

Email: Scott.Barden@kingcounty.gov

The following items are evaluated during inspections.
Violations cited as out of compliance during this inspection are highlighted below.

Out=out of compliance

OUT

Additional Operating Criteria WAC 173-351-220(1)

- 0837-Road dust must be controlled
- 0838-Litter must be controlled
- 0839-Scavenging must be prohibited
- 0840-Staffing must be a minimum 2 personnel on site with one at the active portion when open
- 0841-Certification of operators of solid waste landfills must be current
- 0842-Reserve operational equipment must be available and adequate
- 0843-Active area boundaries must be clearly marked
- 0844-Must compact solid waste before succeeding layers are added per WAC
- 0845-Maintain monitoring systems for groundwater, explosive gas and other monitoring per permit
- 0846-Provide orderly and sanitary recycling methods to general public unless alternatives provided
- 0847-Prohibit disposal of dangerous waste unless DWR are met
- 0848-Must allow inspections by public health

Annual Report

- 0828-Annual report due April 1st

Closure and post-closure care WAC 173-351-500

- 0852-Equipment used for groundwater monitoring is maintained
- 0856-Final cover installed to minimize, infiltration and erosion per design
- 0857-Closure plan followed for areas of the MSWLF unit within 30 days of final receipt of wa-stes
- 0858-For closed areas, closure activities must be completed within 180 days
- 0859-For closed areas post closure care must be conducted per post-closure plan and WAC
- 0860-Final cover for closed areas must be maintained (vegetation, settlement, erosion,# run on/off)
- 0861-Leachate collection systems maintained and operated per post-closure plan and WAC 173-351-300
- 0862-Gas monitoring systems maintained and operated per post-closure plan and WAC 173-351-200

Design Criteria New MSWLF expansion 173-351-300

- 0849-New MSWLF units and expansions have approved liner & leachate collection system construction

Groundwater sampling and analysis requirements WAC 173-351-410

- 0853-Roundwater monitoring must be accordance with an approved sampling / analysis document

Liquids Restrictions

- 0826-Containers holding liquid waste may not be placed in a MSWLF unit unless meet 200 (9)(b)(i-iii)

MSLF Groundwater reporting WAC 173-351-415

- 0854-Annual groundwater report due by April 1st
- 0855-Quarterly groundwater monitoring reports submitted

MSLF Leachate Managementfor Surface Impoundments WAC 173-350-330

Design Standards - Surface Impoundments

- 0740-Embankments and slopes must be maintained and be in good condition
- 0741-Freeboard for the surface impoundment is > 18 inches or as specified per the permit

Ground Water monitoring requirement for surface impoundment and tanks

- 0766-Surface impoundments not equipped with a leak detection layer must meet WAC 173-350-500
- 0767-Surface impoundments w/a leak detection layer are subject to WAC 173-350-040 (5),173-350-330(b)

OUT

Operating standards - Surface Impoundments and tanks

- 0750-Must prevent overflowing and maintain required freeboard = 18 inches from wave action/precip
- 0751-Must control access to the site
- 0752-Must control nuisance odors for wastes or liquids
- 0753-Must control birds at impoundments storing wastes capable of attracting birds
- 0754-Records kept of weekly inspections and liner inspections at least every 5 years
- 0755-Daily records kept on-site of the quantity and type of wastes removed for at least 5 years

Operating Criteria WAC 173-351-200

Access Restriction

- 0819-Lockable gate at each entry must be maintained and in good condition

Air Criteria

- 0816-MSWLF units must meet all applicable air standards
- 0817-Open burning of garbage is prohibited. Other types of burning only under appropriate permit
- 0818-Access must be controlled (public /animal/vehicle). Barriers must be maintained.

Cover Material Requirements

- 0806-Approved cover material must be applied at a depth of 6 in# at the end of the day or as needed
- 0807-Only approved alternative cover materials are in use and are applied at an approved depth

Disease Vectors Controlled

- 0808-Procedures must be in place to control disease vectors e.g. (rodents, flies, mosquitoes, other)

Explosive Gases Control

- 0809-Methane gas must not exceed 25% of lower explosive limit for facility structures
- 0810-Methane gas concentration must not exceed lower explosive limit at the property boundary-beyond
- 0811-Methane gas concentration must not exceed 100ppm/volume of methane in offsite structures
- 0812-Explosive gases must be controlled and a routine methane monitoring program in place
- 0813-Monitoring for explosive gas occurs quarterly at a minimum
- 0814-Required measures must be taken if methane gas levels exceed limits (notify, monitor, evacuate)
- 0815-Must have procedures for methane gas level exceedance (gas levels, interim steps, remediation)

Incoming Waste Management

- 0800-Procedures must be in place for excluding the receipt of prohibited waste
- 0801-Random inspections must be conducted for incoming loads to prevent receipts of prohibited waste
- 0802-Record must be kept of random inspections of incoming loads to prevent prohibited waste
- 0803-Facility personnel must be trained to recognize prohibited wastes and training logs kept
- 0804-Immediate notification to Public Health and Ecology for any prohibited waste discovered

Performance Standards

- 0290-Must not pose a threat to human health or environment
- 0291-Protects from ground water contamination
- 0292-The facility must conform to the approved local comprehensive solid waste management plan
- 0293-Complies with RCW 70.94 Emission or ambient air quality standards

- 0294-Complies with all other local/state/federal laws and regulations

Performance Standards for groundwater monitoring

System Design

- 0850-All groundwater monitoring system must be designed and maintained per WAC 173-351-405
- 0851-All wells must be clearly labeled, capped and locked

Permit Requirements

- 0863-Permit Required

Plan of Operation

- 0829-Plan of operation is current, complete and a hard copy present at the permit approved location
- 0830-Operators handle solid waste as described in plan of operations
- 0831-Operators conducting inspections per plan of operation
- 0832-Plan of operation procedures followed for fire or explosion
- 0833-Plan of operation procedures followed for actions to take for sudden releases of gas, leachate
- 0834-Maintain and operate leachate and gas collection equipment per plan of operation
- 0835-Safety equipment listed in plan of operation must be on-site and working (shower, eyewash)
- 0836-Any additional requirements by Public Health are followed as outlined on the plan of operation

Record Keeping

- 0827-Operating record is available at the approved location and is complete for all required records

Run-on/runoff Control Systems

- 0820-Prevent run-on to the active portion of the landfill during the peak discharge from 25yr storm
- 0821-Must provide runoff control for active portions to collect & control water vol. 24hr/25yr storm
- 0822-Runoff from active portion of the landfill must be handled in accordance w. WAC 173-351-200(8)

Surface Water Requirements

- 0823-MSWLF units must not discharge pollutants into waters of the state
- 0824-Must not cause the discharge of a nonpoint source pollution to waters of the state
- 0825-Bulk or non-containerized liquid waste may not be placed in MSWLF unit unless exceptions allow

SOLID WASTE INSPECTION REPORT

PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)
ESTABLISHMENT INFORMATION: CEDAR HILLS SANITARY LAND CEDAR HILLS SANITARY LAND 16645 228TH AV SE MAPLE VALLEY, WA 98038 206-296-4385 Program Record: PR0015736	INSPECTION INFORMATION: Date of Inspection: Wednesday, February 19, 2020 Time In: 2:05 pm Time Out: 3:30 pm Inspector: Darshan Dhillon Result: COMPLETE

VIOLATIONS OBSERVED (if any)

OVERALL INSPECTION COMMENTS:

1.0 OBSERVATIONS:

- 1.1 Aerators in both leachate lagoons were operating at the time of inspection.
- 1.2 Leachate level in the leachate ponds has been decreased by pumping action and reduced precipitation.
- 1.3 Sand filter full with storm water, however, the level has been reduced below the spillways.
- 1.4 Turbidity in the storm water pond appeared to be less than 25 Nephelometric Turbidity Units (NTU).
- 1.5 Traffic safety measures have been in place to ensure workers safety at site. Speed signs have been posted and being observed.
- 1.6 Number of birds appeared to be decreased and only few eagles less than 10 were roosting around the landfill.
- 1.7 Waste is being tipped in active Area 8 and compacted with four runs of compactors.
- 1.8 Compactor operators act as spotters for un permitted waste detection. Unacceptable waste material loads are properly directed to an appropriate permitted facilities.
- 1.9 No landfill gas (LFG) exceedances were detected during LFG measurements.
- 1.10 Workers were wearing required Personal Protection Equipment (PPE).
- 1.11 All wells were secured with padlocks.
- 1.12 Perimeter fence has been kept in good repair.
- 1.13 Landfill cap has been maintained in good condition and no differential settling was observed.
- 1.14 Lanfill gas supplied to Bio Energy Washington Plant (BEW) plant and no landfill gas flare was on. Only candle stick flare was operating to flare of low quality gas.



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Cedar Hills Area 5 Maintenance

for the period 01/01/2020 to 03/31/2020

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Area 5						
	CHAREA5	0000022160	CLOSED	Monthly Gas System PM	01/11/2020	N
	CHAREA5	0000022160	CLOSED	Monthly Stormwater PM	01/11/2020	N
	CHAREA5	0000022160	CLOSED	Monthly Cover System PM	01/11/2020	N
	CHAREA5	0000022295	CLOSED	Monthly Gas System PM	02/18/2020	N
	CHAREA5	0000022295	CLOSED	Monthly Stormwater PM	02/18/2020	N
	CHAREA5	0000022295	CLOSED	Monthly Cover System PM	02/18/2020	N
	CHAREA5	0000022439	CLOSED	Monthly Gas System PM	03/29/2020	N
	CHAREA5	0000022439	CLOSED	Monthly Stormwater PM	03/29/2020	N
	CHAREA5	0000022439	CLOSED	Monthly Cover System PM	03/29/2020	N
	CHAREA5E	0000022119	CLOSED	Monthly Header PM	01/28/2020	N
	CHAREA5E	0000022264	CLOSED	Monthly Header PM	02/18/2020	N
	CHAREA5E	0000022376	CLOSED	Monthly Header PM	03/04/2020	N
	CHAREA5W	0000022118	CLOSED	Monthly Header PM	01/06/2020	N
	CHAREA5W	0000022263	CLOSED	Monthly Header PM	02/18/2020	N
	CHAREA5W	0000022375	CLOSED	Monthly Header PM	03/05/2020	N

Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 01/01/2020 to 03/31/2020

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
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Catch Basins

	Cedar Hills	0000045289	CLOSED	PMM	01/05/2020	N
	Cedar Hills	0000045394	CLOSED	PMM	01/10/2020	N
	Cedar Hills	0000045612	CLOSED	PMM	02/10/2020	N
	Cedar Hills	0000045980	CLOSED	PMM	03/01/2020	N

Trash Racks

	Cedar Hills	0000045288	CLOSED	PMW	01/05/2020	N
	Cedar Hills	0000045390	CLOSED	PMW	01/12/2020	N
	Cedar Hills	0000045413	CLOSED	PMW	01/19/2020	N
	Cedar Hills	0000045528	CLOSED	PMW	01/26/2020	N
	Cedar Hills	0000045607	CLOSED	PMW	02/02/2020	N
	Cedar Hills	0000045611	CLOSED	PMW	02/10/2020	N
	Cedar Hills	0000045765	CLOSED	PMW	02/16/2020	N
	Cedar Hills	0000045847	CLOSED	PMW	02/24/2020	N
	Cedar Hills	0000045979	CLOSED	PMW	03/01/2020	N
	Cedar Hills	0000046027	CLOSED	PMW	03/08/2020	N
	Cedar Hills	0000046077	CLOSED	PMW	03/17/2020	N
	Cedar Hills	0000046150	CLOSED	PMW	03/22/2020	N
	Cedar Hills	0000046214	CLOSED	PMW	03/29/2020	Y

Ditches

	Cedar Hills	0000045288	CLOSED	PMW	01/05/2020	N
	Cedar Hills	0000045289	CLOSED	PMM	01/05/2020	N
	Cedar Hills	0000045390	CLOSED	PMW	01/12/2020	N
	Cedar Hills	0000045394	CLOSED	PMM	01/10/2020	N
	Cedar Hills	0000045413	CLOSED	PMW	01/19/2020	N
	Cedar Hills	0000045528	CLOSED	PMW	01/26/2020	N
	Cedar Hills	0000045575	CLOSED	PMI	03/06/2020	N
	Cedar Hills	0000045576	CLOSED	PMQ	03/06/2020	N
	Cedar Hills	0000045607	CLOSED	PMW	02/02/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000045611	CLOSED	PMW	02/10/2020	N
	Cedar Hills	0000045612	CLOSED	PMM	02/10/2020	N
	Cedar Hills	0000045765	CLOSED	PMW	02/16/2020	N
	Cedar Hills	0000045847	CLOSED	PMW	02/24/2020	N
	Cedar Hills	0000045979	CLOSED	PMW	03/01/2020	N
	Cedar Hills	0000045980	CLOSED	PMM	03/01/2020	N
	Cedar Hills	0000046027	CLOSED	PMW	03/08/2020	N
	Cedar Hills	0000046077	CLOSED	PMW	03/17/2020	N
	Cedar Hills	0000046150	CLOSED	PMW	03/22/2020	N
	Cedar Hills	0000046214	CLOSED	PMW	03/29/2020	Y

Pipes/Culverts

	Cedar Hills	0000045575	CLOSED	PMI	03/06/2020	N
	Cedar Hills	0000045576	CLOSED	PMQ	03/06/2020	N

Ponds/Lagoons

	Cedar Hills	0000045288	CLOSED	PMW	01/05/2020	N
	Cedar Hills	0000045390	CLOSED	PMW	01/12/2020	N
	Cedar Hills	0000045413	CLOSED	PMW	01/19/2020	N
	Cedar Hills	0000045528	CLOSED	PMW	01/26/2020	N
	Cedar Hills	0000045575	CLOSED	PMI	03/06/2020	N
	Cedar Hills	0000045576	CLOSED	PMQ	03/06/2020	N
	Cedar Hills	0000045607	CLOSED	PMW	02/02/2020	N
	Cedar Hills	0000045611	CLOSED	PMW	02/10/2020	N
	Cedar Hills	0000045765	CLOSED	PMW	02/16/2020	N
	Cedar Hills	0000045847	CLOSED	PMW	02/24/2020	N
	Cedar Hills	0000045979	CLOSED	PMW	03/01/2020	N
	Cedar Hills	0000046027	CLOSED	PMW	03/08/2020	N
	Cedar Hills	0000046077	CLOSED	PMW	03/17/2020	N
	Cedar Hills	0000046150	CLOSED	PMW	03/22/2020	N
	Cedar Hills	0000046214	CLOSED	PMW	03/29/2020	Y

General

	Cedar Hills	0000045288	CLOSED	PMW	01/05/2020	N
	Cedar Hills	0000045390	CLOSED	PMW	01/12/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000045413	CLOSED	PMW	01/19/2020	N
	Cedar Hills	0000045528	CLOSED	PMW	01/26/2020	N
	Cedar Hills	0000045576	CLOSED	PMQ	03/06/2020	N
	Cedar Hills	0000045607	CLOSED	PMW	02/02/2020	N
	Cedar Hills	0000045611	CLOSED	PMW	02/10/2020	N
	Cedar Hills	0000045765	CLOSED	PMW	02/16/2020	N
	Cedar Hills	0000045847	CLOSED	PMW	02/24/2020	N
	Cedar Hills	0000045979	CLOSED	PMW	03/01/2020	N
	Cedar Hills	0000046027	CLOSED	PMW	03/08/2020	N
	Cedar Hills	0000046077	CLOSED	PMW	03/17/2020	N
	Cedar Hills	0000046150	CLOSED	PMW	03/22/2020	N
	Cedar Hills	0000046214	CLOSED	PMW	03/29/2020	Y

Leachate System

	Cedar Hills	0000045576	CLOSED	PMQ	03/06/2020	N
	CHPS1	0000045313	CLOSED	PMW	01/08/2020	N
	CHPS1	0000045439	CLOSED	PMW	01/14/2020	N
	CHPS1	0000045472	CLOSED	PMW	01/19/2020	N
	CHPS1	0000045525	CLOSED	PMW	01/26/2020	N
	CHPS1	0000045625	CLOSED	PMW	02/02/2020	Y
	CHPS1	0000045633	CLOSED	PMW	02/09/2020	N
	CHPS1	0000045794	CLOSED	PMW	02/17/2020	N
	CHPS1	0000045834	CLOSED	PMW	02/23/2020	N
	CHPS1	0000045939	CLOSED	PMW	03/01/2020	N
	CHPS1	0000046037	CLOSED	PMW	03/08/2020	N
	CHPS1	0000046104	CLOSED	PMW	03/15/2020	N
	CHPS1	0000046170	CLOSED	PMW	03/22/2020	N
	CHPS1	0000046210	CLOSED	PMW	03/29/2020	N
	CHPS2	0000045311	CLOSED	PMW	01/08/2020	N
	CHPS2	0000045438	CLOSED	PMW	01/14/2020	N
	CHPS2	0000045471	CLOSED	PMW	01/19/2020	N
	CHPS2	0000045524	CLOSED	PMW	01/26/2020	N
	CHPS2	0000045624	CLOSED	PMW	02/02/2020	N
	CHPS2	0000045632	CLOSED	PMW	02/09/2020	N
	CHPS2	0000045793	CLOSED	PMW	02/17/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS2	0000045833	CLOSED	PMW	02/23/2020	N
	CHPS2	0000045938	CLOSED	PMW	03/01/2020	N
	CHPS2	0000046036	CLOSED	PMW	03/08/2020	N
	CHPS2	0000046103	CLOSED	PMW	03/15/2020	N
	CHPS2	0000046169	CLOSED	PMW	03/22/2020	N
	CHPS2	0000046209	CLOSED	PMW	03/29/2020	N
	CHPS3	0000045307	CLOSED	PMW	01/08/2020	N
	CHPS3	0000045436	CLOSED	PMW	01/14/2020	N
	CHPS3	0000045469	CLOSED	PMW	01/19/2020	N
	CHPS3	0000045522	CLOSED	PMW	01/26/2020	N
	CHPS3	0000045621	CLOSED	PMW	02/02/2020	N
	CHPS3	0000045630	CLOSED	PMW	02/09/2020	N
	CHPS3	0000045791	CLOSED	PMW	02/17/2020	N
	CHPS3	0000045831	CLOSED	PMW	02/23/2020	N
	CHPS3	0000045936	CLOSED	PMW	03/01/2020	N
	CHPS3	0000046034	CLOSED	PMW	03/08/2020	N
	CHPS3	0000046101	CLOSED	PMW	03/15/2020	N
	CHPS3	0000046167	CLOSED	PMW	03/22/2020	N
	CHPS3	0000046207	CLOSED	PMW	03/29/2020	N
	CHPS4	0000045305	CLOSED	PMW	01/06/2020	N
	CHPS4	0000045435	CLOSED	PMW	01/14/2020	N
	CHPS4	0000045468	CLOSED	PMW	01/19/2020	N
	CHPS4	0000045521	CLOSED	PMW	01/26/2020	N
	CHPS4	0000045620	CLOSED	PMW	02/02/2020	N
	CHPS4	0000045789	CLOSED	PMW	02/09/2020	N
	CHPS4	0000045790	CLOSED	PMW	02/17/2020	N
	CHPS4	0000045830	CLOSED	PMW	02/23/2020	N
	CHPS4	0000045934	CLOSED	PMW	03/01/2020	N
	CHPS4	0000046033	CLOSED	PMW	03/08/2020	Y
	CHPS4	0000046100	CLOSED	PMW	03/15/2020	Y
	CHPS4	0000046166	CLOSED	PMW	03/22/2020	N
	CHPS4	0000046206	CLOSED	PMW	03/29/2020	N
	LEPS	0000045301	CLOSED	PMW	01/06/2020	N
	LEPS	0000045302	CLOSED	PMM	01/06/2020	Y
	LEPS	0000045433	CLOSED	PMW	01/14/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	LEPS	0000045466	CLOSED	PMW	01/19/2020	N
	LEPS	0000045518	CLOSED	PMW	01/26/2020	N
	LEPS	0000045519	CLOSED	PMW	01/26/2020	N
	LEPS	0000045619	CLOSED	PMW	02/02/2020	N
	LEPS	0000045628	CLOSED	PMW	02/09/2020	N
	LEPS	0000045635	CLOSED	PMM	02/02/2020	Y
	LEPS	0000045787	CLOSED	PMW	02/17/2020	N
	LEPS	0000045828	CLOSED	PMW	02/23/2020	Y
	LEPS	0000045932	CLOSED	PMW	03/01/2020	N
	LEPS	0000045941	CLOSED	PMM	03/03/2020	Y
	LEPS	0000046030	CLOSED	PMW	03/08/2020	N
	LEPS	0000046097	CLOSED	PMW	03/15/2020	N
	LEPS	0000046163	CLOSED	PMW	03/22/2020	N
	LEPS	0000046203	CLOSED	PMW	03/29/2020	N

Landfill Cover

CHSTOCKPILE	0000022157	CLOSED	PMV	01/04/2020	N
CHAPONDS	0000022158	CLOSED	PMV	01/11/2020	N
CHAREA4	0000022159	CLOSED	PMV	01/04/2020	N
CHAREA5	0000022160	CLOSED	PMV	01/11/2020	N
CHAREA6	0000022161	CLOSED	PMV	01/04/2020	N
CHAREAS23	0000022164	CLOSED	PMV	01/11/2020	N
CHCENTRALPIT	0000022165	CLOSED	PMV	01/04/2020	N
CHEMH	0000022166	CLOSED	PMV	01/11/2020	N
CHSEPA	0000022167	CLOSED	PMV	01/11/2020	N
CHSSWA	0000022168	CLOSED	PMV	01/04/2020	N
CHSWMH	0000022169	CLOSED	PMV	01/04/2020	N
CHNFLARESTN	0000022170	CLOSED	PMV	01/04/2020	N
CHSTOCKPILE	0000022292	CLOSED	PMV	02/10/2020	N
CHAPONDS	0000022293	CLOSED	PMV	02/10/2020	N
CHAREA4	0000022294	CLOSED	PMV	02/18/2020	N
CHAREA5	0000022295	CLOSED	PMV	02/18/2020	N
CHAREA6	0000022296	CLOSED	PMV	02/18/2020	N
CHAREAS23	0000022299	CLOSED	PMV	02/18/2020	N
CHCENTRALPIT	0000022300	CLOSED	PMV	02/18/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHEMH	0000022301	CLOSED	PMV	02/18/2020	N
	CHSEPA	0000022302	CLOSED	PMV	02/18/2020	N
	CHSSWA	0000022303	CLOSED	PMV	02/18/2020	N
	CHSWMH	0000022304	CLOSED	PMV	02/18/2020	N
	CHNFLARESTN	0000022305	CLOSED	PMV	02/06/2020	N
	CHSTOCKPILE	0000022436	CLOSED	PMV	03/29/2020	N
	CHAPONDS	0000022437	CLOSED	PMV	03/29/2020	N
	CHAREA4	0000022438	CLOSED	PMV	03/29/2020	N
	CHAREA5	0000022439	CLOSED	PMV	03/29/2020	N
	CHAREA6	0000022440	CLOSED	PMV	03/29/2020	N
	CHAREAS23	0000022443	CLOSED	PMV	03/29/2020	N
	CHCENTRALPIT	0000022444	CLOSED	PMV	03/29/2020	N
	CHEMH	0000022445	CLOSED	PMV	03/29/2020	N
	CHSEPA	0000022446	CLOSED	PMV	03/29/2020	N
	CHSSWA	0000022447	CLOSED	PMV	03/29/2020	N
	CHSWMH	0000022448	CLOSED	PMV	03/29/2020	N
	CHNFLARESTN	0000022449	CLOSED	PMV	03/29/2020	N

Landfill Gas

	CHEMH	0000022138	CLOSED	PMW	01/02/2020	N
	CHEMH	0000022209	CLOSED	PMW	01/18/2020	N
	CHEMH	0000022216	CLOSED	PMW	02/10/2020	N
	CHEMH	0000022308	CLOSED	PMW	02/25/2020	N
	CHEMH	0000022349	CLOSED	PMW	03/13/2020	N
	CHEMH	0000022488	CLOSED	PMW	03/25/2020	N
	CHAREAS23	0000022134	CLOSED	PMW	01/17/2020	N
	CHAREAS23	0000022200	CLOSED	PMW	01/21/2020	N
	CHAREAS23	0000022272	CLOSED	PMW	02/10/2020	N
	CHAREAS23	0000022342	CLOSED	PMW	02/16/2020	N
	CHAREAS23	0000022362	CLOSED	PMW	03/04/2020	N
	CHAREAS23	0000022479	CLOSED	PMW	03/26/2020	N
	CHAREA6	0000022083	CLOSED	PMW	01/06/2020	N
	CHAREA6	0000022172	CLOSED	PMW	01/28/2020	N
	CHAREA6	0000022229	CLOSED	PMW	02/20/2020	N
	CHAREA6	0000022314	CLOSED	PMW	02/28/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREA6	0000022411	CLOSED	PMW	03/02/2020	N
	CHAREA6	0000022411	CLOSED	PMW	03/07/2020	N
	CHAREA6	0000022451	CLOSED	PMW	03/16/2020	N
	CHAREA6	0000022451	CLOSED	PMW	03/27/2020	N
	CHSEPA	0000022099	CLOSED	PMW	01/08/2020	N
	CHSEPA	0000022182	CLOSED	PMW	01/30/2020	N
	CHSEPA	0000022251	CLOSED	PMW	02/05/2020	N
	CHSEPA	0000022328	CLOSED	PMW	02/21/2020	N
	CHSEPA	0000022384	CLOSED	PMW	03/03/2020	N
	CHSEPA	0000022459	CLOSED	PMW	03/18/2020	N
	CHCMH	0000022142	CLOSED	PMW	01/05/2020	N
	CHCMH	0000022142	CLOSED	PMW	01/07/2020	N
	CHCMH	0000022142	CLOSED	PMW	01/08/2020	N
	CHCMH	0000022210	CLOSED	PMW	01/22/2020	N
	CHCMH	0000022210	CLOSED	PMW	01/28/2020	N
	CHCMH	0000022221	CLOSED	PMW	02/01/2020	N
	CHCMH	0000022221	CLOSED	PMW	02/05/2020	N
	CHCMH	0000022221	CLOSED	PMW	02/12/2020	N
	CHCMH	0000022309	CLOSED	PMW	02/23/2020	N
	CHCMH	0000022309	CLOSED	PMW	02/26/2020	N
	CHCMH	0000022309	CLOSED	PMW	02/27/2020	N
	CHCMH	0000022350	CLOSED	PMW	03/02/2020	N
	CHCMH	0000022350	CLOSED	PMW	03/03/2020	N
	CHCMH	0000022350	CLOSED	PMW	03/04/2020	N
	CHCMH	0000022489	CLOSED	PMW	03/16/2020	N
	CHCMH	0000022489	CLOSED	PMW	03/17/2020	N
	CHAREA5E	0000022115	CLOSED	PMW	01/06/2020	N
	CHAREA5E	0000022198	CLOSED	PMW	01/28/2020	N
	CHAREA5E	0000022261	CLOSED	PMW	02/03/2020	N
	CHAREA5E	0000022335	CLOSED	PMW	02/18/2020	N
	CHAREA5E	0000022373	CLOSED	PMW	03/04/2020	N
	CHAREA5E	0000022472	CLOSED	PMW	03/19/2020	N
	CHAREA5W	0000022116	CLOSED	PMW	01/06/2020	N
	CHAREA5W	0000022199	CLOSED	PMW	01/30/2020	N
	CHAREA5W	0000022262	CLOSED	PMW	02/03/2020	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREA5W	0000022336	CLOSED	PMW	02/18/2020	N
	CHAREA5W	0000022374	CLOSED	PMW	03/05/2020	N
	CHAREA5W	0000022473	CLOSED	PMW	03/21/2020	N

Landfill Roads

CHSTOCKPILE	0000022157	CLOSED	PMR	01/04/2020	N
CHSTOCKPILE	0000022292	CLOSED	PMR	02/10/2020	N
CHSTOCKPILE	0000022436	CLOSED	PMR	03/29/2020	N
CHACTIVEAREA	0000022148	CLOSED	PMR	01/11/2020	N
CHACTIVEAREA	0000022283	CLOSED	PMR	02/10/2020	N
CHACTIVEAREA	0000022427	CLOSED	PMR	03/29/2020	N
CHPSR	0000022150	CLOSED	PMR	01/11/2020	Y
CHPSR	0000022285	CLOSED	PMR	02/06/2020	N
CHPSR	0000022429	CLOSED	PMR	03/29/2020	N
CHMAINGATE	0000022149	CLOSED	PMR	01/11/2020	N
CHMAINGATE	0000022284	CLOSED	PMR	02/06/2020	N
CHMAINGATE	0000022428	CLOSED	PMR	03/29/2020	N

Landfill Roads

Sweeper	0	see Equipment Operator Spreadsheet	NA	0	N
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Equipment

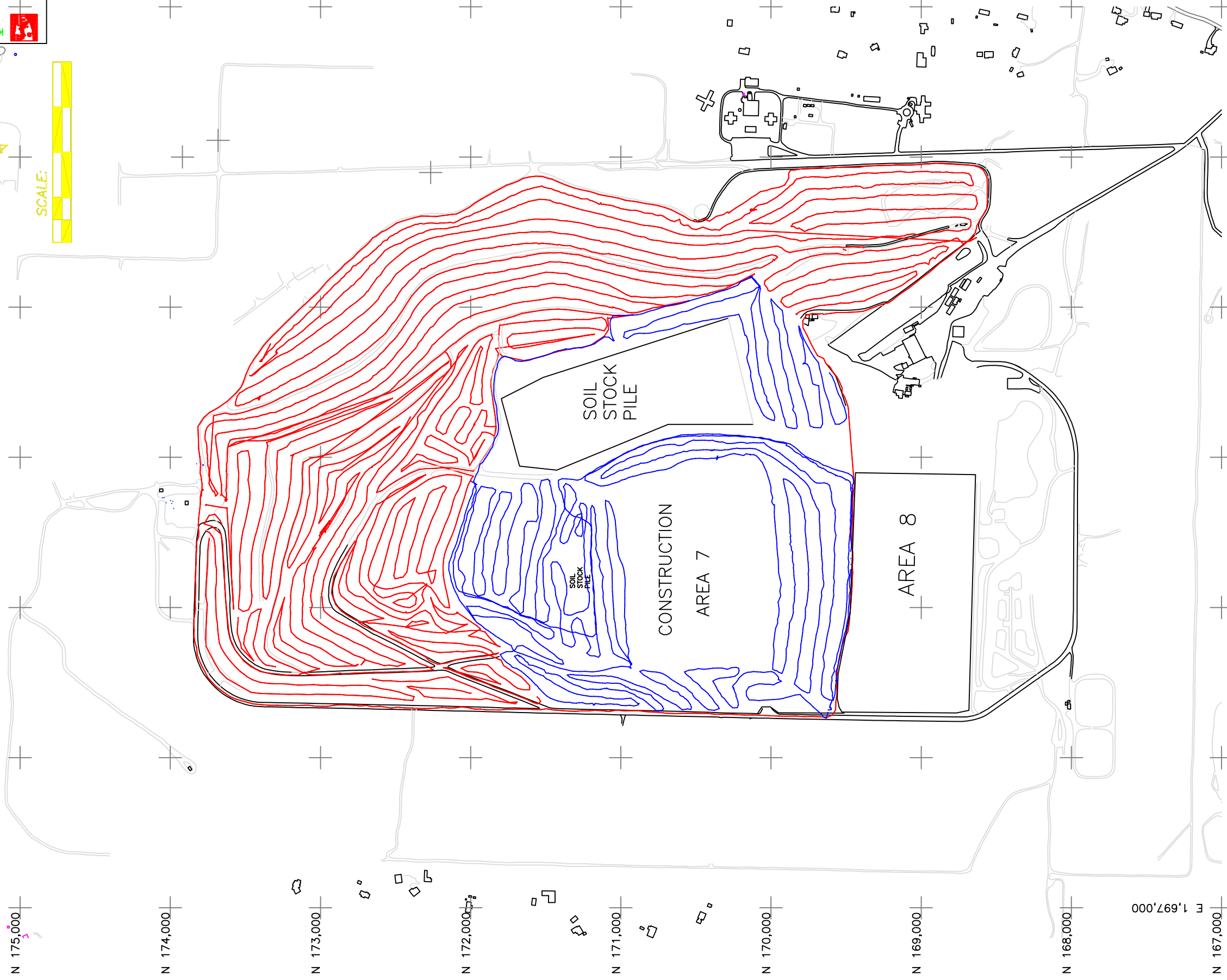
Click the word 'Equipment' to see Work Order Numbers

Appendix B:
Gas Monitoring Reports

Cedar Hills Regional Landfill
 Quarterly Surface Emission Monitoring
 Plot of GPS Generated Track Lines

MARCH 2020

Scale 1"=800'



APPROVED: _____ DATE 03-30-2020
 RECOMMENDED: PUM DRAWN: PUM
 PROJECT NO. _____ SURVEY NO. _____ SHEET 1 OF 1

DATE	REVISION	BY

CEAR HILLS QUARTERLY
 GAS EMISSIONS MONITORING

KING COUNTY DEPARTMENT OF NATURAL RESOURCES
 AND PARKS
 Christie True, Director
 SOLID WASTE DIVISION




Work Order Parts List

Repair Code:
Equipment: cedar hills
Work Order: 0000022425

NO PART LIST FOR WORK ORDER REPAIR(S) AT THIS TIME.

TECHNICIAN COPY



WO#: 0000022425
Date In: 02/24/2020 07:17
Date Promised: 02/25/2020 07:17
Date Out: 00:00
WO Status: A Last WOr: 0000022282
WO Priority: Last WO Date: 01/24/2020
Track DownTime: Y Employee:

WO Company: Gas King County Landfill Gas
WO Department: 7572 Waste Water, LF Gas
WO Shop: Gas Landfill Gas
Equipment: cedar hills License: na
Location: 20
Year: 2006 Serial: na
Make: UD Engine:
Model: UD
Class: ZZZZZZZ65: Landfill Gas - not classified

Tire Size 1: GW: 0
Tire Size 2: EAC: 24
Transmission: Department: 7572-Waste Water, LF Gas
Fuel Type1: Company: Gas King County Landfill Gas
Fuel Type2: Site: 20-20- Cedar Hills
Fuel Type3: Monitor Group:
Oil Capacity: 0.000 Comments:
Fuel Cap1: 0.000 Cedar Hills
Fuel Cap2: 0.000

METERS
Eq Meter Actual LTD

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2020	Annual Inspection
Q	0 - MONTHS	03/30/2020	Quarterly Inspection
S	0 - MONTHS	07/15/2020	Scheduled Inspection
X	0 - MONTHS	03/10/2020	Prohibited Activities

WARRANTY INFORMATION
Description

Type	Cycle	Date Expires	Description	Status	Est. Labor Shop
PHQ BS	PM Service Billable Scheduled, Target			0	0.00000
PHQ BS	PM Service Billable Scheduled, Target			0	0.00000
PHQ BS	PM Service Billable Scheduled, Target			0	0.00000
PHQ BS	PM Service Billable Scheduled, Target			0	0.00000

ASRS
763
767 CS
764 DNS

NOTES

Work Order Task List

Repair Code: Pkg BS
 Equipment: cedar hills
 Work Order: 0000022425

Completed?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Ck liner integrity- Serpentine walk	✓				
	1	Gas- Ck liner integrity- Serpentine walk	✓				
	1	Gas- Ck liner integrity- Serpentine walk	✓				

3/15 6hrs 3/19 - 8 HRS

3/14 13 hrs 3/20 - 8 HRS

3/17 13 hrs 3/21 - 4 HRS

3/22 6hrs

3-23 10 hours

3-24 6 hours

19mmH2O2 ~3.5 Hours