



King County

Solid Waste Division

Department of Natural Resources and Parks

King Street Center

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Seattle, WA 98104-3855

206-477-4466

711 TTY Relay

www.kingcounty.gov/solidwaste

August 31, 2021

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

VIA: ^{LB} Laura Belt, P.E., Supervising Engineer, Facility Engineering and Science Section (FESS), Solid Waste Division (SWD), Department of Natural Resources & Parks (DNRP)

FM: ST Subrina Tahsin, Engineer II, SWD, DNRP

RE: Cedar Hills Regional Landfill Environmental Monitoring Report for the Second Quarter of 2021

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 April 1st, 2021 through June 30th, 2021. 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 Second Quarter of 2021. 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 Belt at 206-477-5215 or me at 206-263-6921.

Enclosures

cc: Alan Noell, Ph.D., P.E., Solid Waste Program, Washington State Department of Ecology
Tim O’Connor LG, LHG, Hydrogeologist 3, Solid Waste Program, Washington State Department of Ecology
Yolanda Pon, Solid Waste Program Supervisor, Public Health - Seattle and King County (PHSKC)
Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD), Department of Natural Resources & Parks (DNRP)
Theresa Thurlow, P.E., Engineer Manager, SWD, DNRP
Laura Belt, P.E., Engineer Supervisor, SWD, DNRP

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August 31, 2021

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 Second Quarter of 2021

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 April 1st, 2021 through June 30th, 2021. 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 Second Quarter of 2021. 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 is 206-263-6921.

Sincerely,

DocuSigned by:

Subrina Tahsin

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Subrina Tahsin
Engineer II

Alan Noell
August 31, 2021
Page 2

Enclosures

cc: Tim O'Connor LG, LHG, Hydrogeologist 3, Solid Waste Program, Washington State
Department of Ecology
Yolanda Pon, Solid Waste Program Supervisor, 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),
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Theresa Thurlow, P.E., Engineer Manager, SWD, DNRP
Laura Belt, P.E., Engineer Supervisor, SWD, DNRP

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CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

Second Quarter 2021



King County

Department of
Natural Resources and Parks
Solid Waste Division

Serving
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August 2021

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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 _____ 2 nd <input checked="" type="checkbox"/> 3 rd _____ 4 th _____ YEAR <u>2021</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"/>	3
Notification of statistical increase (if applicable)	420, (4)	<input checked="" type="checkbox"/>	3
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	<input checked="" type="checkbox"/>	26, 42
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"/>	28-30, 48
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	<input type="checkbox"/>	
Trilinear diagrams	430, (5b)	<input checked="" type="checkbox"/>	36, 37, 45, 46
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:

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 Signature of Report Author

August 31, 2021
 Date

Cedar Hills Regional Landfill
 Landfill

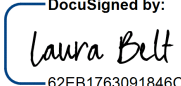
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CERTIFICATION

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: August 30, 2021
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: <div style="text-align: center;"> DocuSigned by:  62EB1763091846C... </div>		



EXPIRES 08/10/2023

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**KING COUNTY CEDAR HILLS REGIONAL LANDFILL
SUMMARY OF QUARTERLY ENVIRONMENTAL MONITORING
SECOND QUARTER OF 2021**

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**King County Cedar Hills Regional Landfill
Summary of Quarterly Environmental Monitoring
Second Quarter of 2021**

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 Second 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 and semi-annual 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-113, MW-114, MW-115	MW-72, MW-74R, MW-75, MW-80, MW-85, MW-87*
Semi Annual Sampled Wells	MW-21, MW-24, MW-56, MW-64, MW-65, MW-73, MW-76, MW-82, MW-95	MW-67, MW-86, MW-88, MW-89, MW-100

*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-113	MW-67, MW-72, MW-75, MW-80, MW-87
Semi-Annual Sampled Wells	MW-21, MW-24, MW-65	MW-86, MW-89, MW-100

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-93, MW-113	MW-72, MW-75, MW-80, MW-87
Semi-Annual Sampled Wells	MW-21, MW-24, MW-56, MW-64, MW-65, MW-95	MW-67, MW-89, MW-100

Exceedances of Primary Ground Water Quality Criteria were observed for Vinyl Chloride as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	---	---
Semi Annual Sampled Wells	MW-65	---

Exceedances of Secondary Ground Water Quality Criteria were observed for Trichloroethene as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-114*, MW-115	---
Semi Annual Sampled Wells	MW-82; MW-83, MW-76*	---

*Also exceeded Primary Federal Ground Water Quality Criteria

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 2020. Calculated prediction limits and analytical results for WAC 173-351-990 Appendix I parameters are presented in Table 5 and summarized below. Newly installed Monitoring wells MW-113 through MW-115 do not yet have enough background data from sampling events to calculate prediction limits for analytical parameters.

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	---	---
Semi-Annually Sampled Wells	MW-76 (total copper), MW-73 (Total Barium, Total Lead, Total Selenium, Total Vanadium, Total Zinc, Nitrate as N)	MW-86 (Total Copper, Total Zinc)

Monitoring wells MW-59, MW-66 MW-84 and MW-93 passed out of the re-testing protocol.

All monitoring well listed above had 1-of-3 UPL exceedances under the retesting protocol.

Volatile Detections

Volatile Organic Compound (VOC) detections in upgradient and cross-gradient 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 CHR LF, 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, and semi-annually monitored wells MW-56 and MW-76;
- Trichloroethene (TCE) was detected in quarterly monitored wells MW-83, MW-94, MW-114, and MW-115 and semi-annually monitored wells MW-76 and MW-82;
- Tetrachloroethene (PCE) was detected in semi-annually monitored well MW-76;
- Vinyl Chloride was detected in semi-annually monitored wells MW-65 and MW-95.

These upgradient well detections are consistent with past data and continuing migration from QCF. Other volatile detections in upgradient and crossgradient regional wells in this quarter are in MW-21 and MW-59 and include acetone which is commonly found as laboratory contamination at low concentrations. These detections for this quarter are qualified ‘JT’, indicating detections were below the reporting detection limit but greater than the method detection limit (T qualifier), and reported as “estimated” (J qualifier).

The only other volatile detection this quarter in downgradient regional well samples was Vinyl Chloride. This detection for this quarter is qualified 'GU', indicating detections were estimated with low Bias (G qualifier), and reported as "undetected" (U qualifier).

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 EPZ monitoring wells MW-30A, MW-47, MW-50, MW-62, MW-101, MW-102, MW-103, MW-104, MW-105, MW-107, MW-108, MW-109, MW-110, MW-111, MW-112, and MW-EB6. MW-101 near the former SSWA was also sampled. Groundwater quality data from Perched Zones wells collected during the second quarter of 2021 are consistent with previous samples.

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 µmhos/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 151.3 µmhos/cm.

Analytical Results

Exceedances of regulatory standards for the perched zone wells are tabulated and presented in Table 7. All are consistent with past analyses and known impacts. MW-47 continued exceeding Primary Federal Ground Water Quality Criteria for vinyl chloride. Additionally, MW-108 and

MW-110 had an initial UPL exceedances for total sodium, MW-109 had an initial UPL exceedance for total arsenic and chromium,

KCSWD issued an Independent Draft Remedial Investigation/Feasibility Study (RI/FS) for the East Perched Zone (EPZ) under the Model Toxics Control Act (MTCA) in December of 2016. EPZ Phase 1 Interim Actions were completed in June of 2020. Preparation for Phase 2 of the EPZ RI/FS project is currently in the planning stages.

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.

Prediction Limits

As with the regional data, perched zone prediction limits are derived from cumulative data through the end of 2020. Calculated prediction limits for WAC 173-351-990 Appendix I parameters along with analytical results are presented in Table 9.

No UPL exceedances occurred for Perched Zone wells in the second quarter of 2021.

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. Data points are qualified 'JT' in Table 10. Qualifier 'JT' indicates sample result present but unquantified. . In other words, the sample result is below the reporting detection limit but greater than the method detection limit (T qualifier) and reported as "estimated" (J qualifier).

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 13. 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 second quarter of 2021 are listed in Table 12. No effluent limitation exceedance occurred during the second quarter of 2021. ISGP Discharge Monitoring Reports (DMRs) are included in Appendix B.

1.2.2 CHRLF CSGP

Beginning in 2017, a Construction Stormwater General Permit (CSGP) was issued for CHRLF (permit number WAR305034 with Ecology) for the Area 8 construction activities. A separate Stormwater Pollution Prevention Plan (SWPPP) was created for this CSGP permit. This permit is still active and will be in effect through the duration of the construction project.

Four (4) discharge locations are monitored weekly for compliance with the CSGP in accordance with the SWPPP by the contractor. The construction contractor also inspects the required construction site Best Management Practices (BMPs) and the CSGP 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).

In Spring 2021 the CSGP permit was fully transferred to the contractor, Goodfellow Bros., and KCSWD is no longer responsible for the permit. KCSWD submitted last monthly DMR to Ecology for March 2021. The permit was transferred to Goodfellow in April 2021 and they have been preparing and submitting all DMRs since that time. However, KC SWD receives copies of their stormwater inspection and DMR reports and monitors their work to ensure compliance with the permit.

There were no exceedances at all monitoring locations during the second quarter of 2021 (see Table 14). Copies of DMRs submitted to Ecology by Goodfellow can be provided upon request.

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 the second quarter of 2021 are located in Appendix B.

No compliance probe methane detections occurred during the second quarter of 2021.

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 second quarter of 2021 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 second quarter of 2021 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 increases; 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 any monitoring locations. 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 CSGP. 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 CSGP Benchmarks (Table 13). Groundwater monitoring results are compared to the groundwater quality criteria set forth 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: x = mean of the baseline data
 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 WAC 173-351-990 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. No retesting plan was initiated this quarter. 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 listed 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.

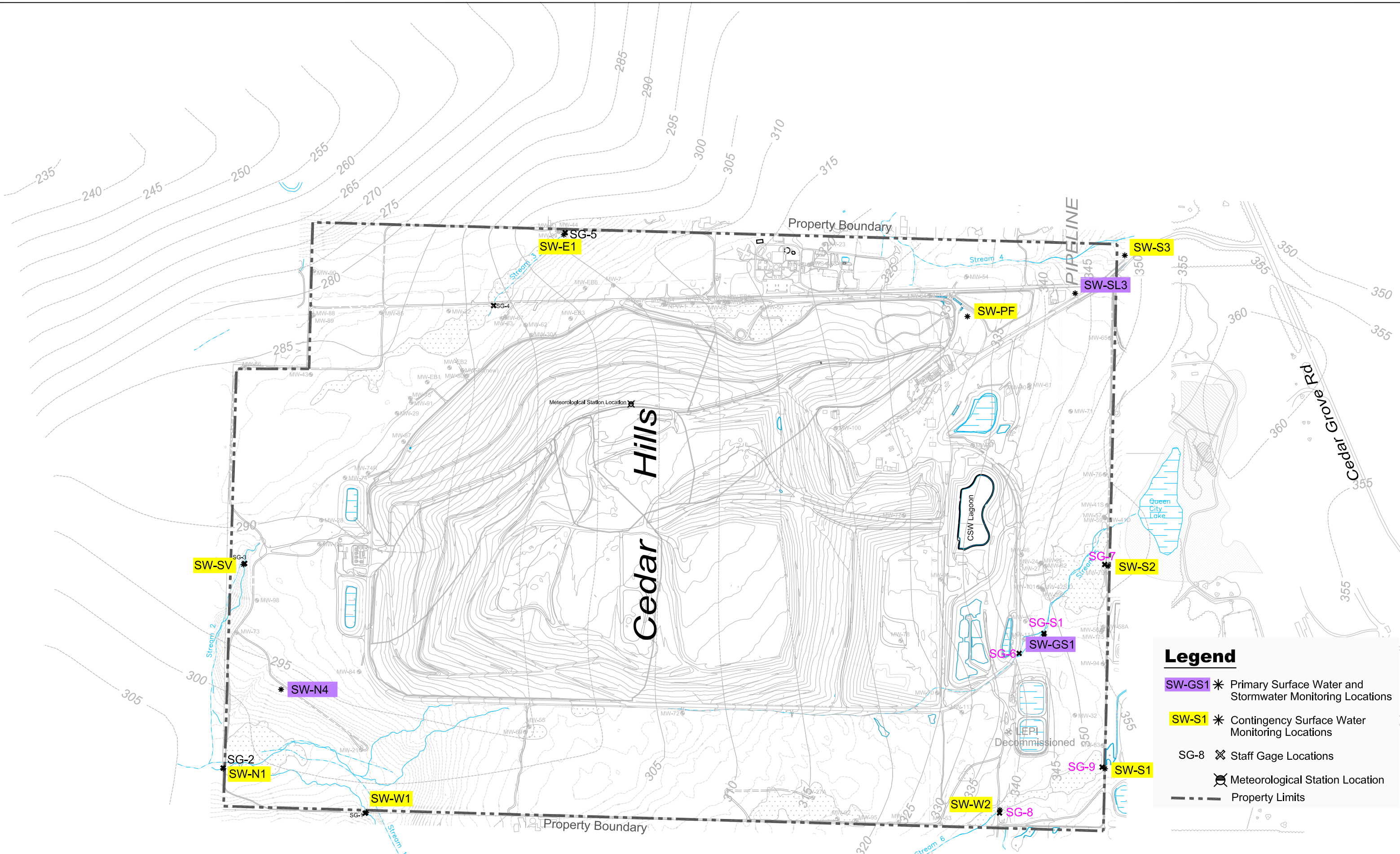
2.4.2 Analytical Uncertainty and Data Review

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.

3.0 References

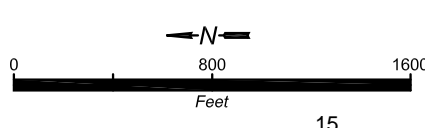
- 1) *Environmental Monitoring Sampling and Analysis Plan for Cedar Hills Regional Landfill*, December 2013 (SAP). King county, Department of Natural Resources and Parks, Solid Waste Division, prepared by Aspect Consulting LLC.
- 2) *Cedar Hills Regional Landfill Site Wide Hydrogeologic Report Addendum*, December 2013, King county, Department of Natural Resources and Parks, Solid Waste Division, prepared by Aspect Consulting LLC.
- 3) Hills Regional Landfill – EPZ Extraction Well Decommissioning Technical Memorandum, Phase 1 – Cedar Hills Regional Landfill, CONTRACT NO. E00286E12, Task No. 810, July 2018.
- 4) *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities – Unified Guidance*, EPA, 2009.

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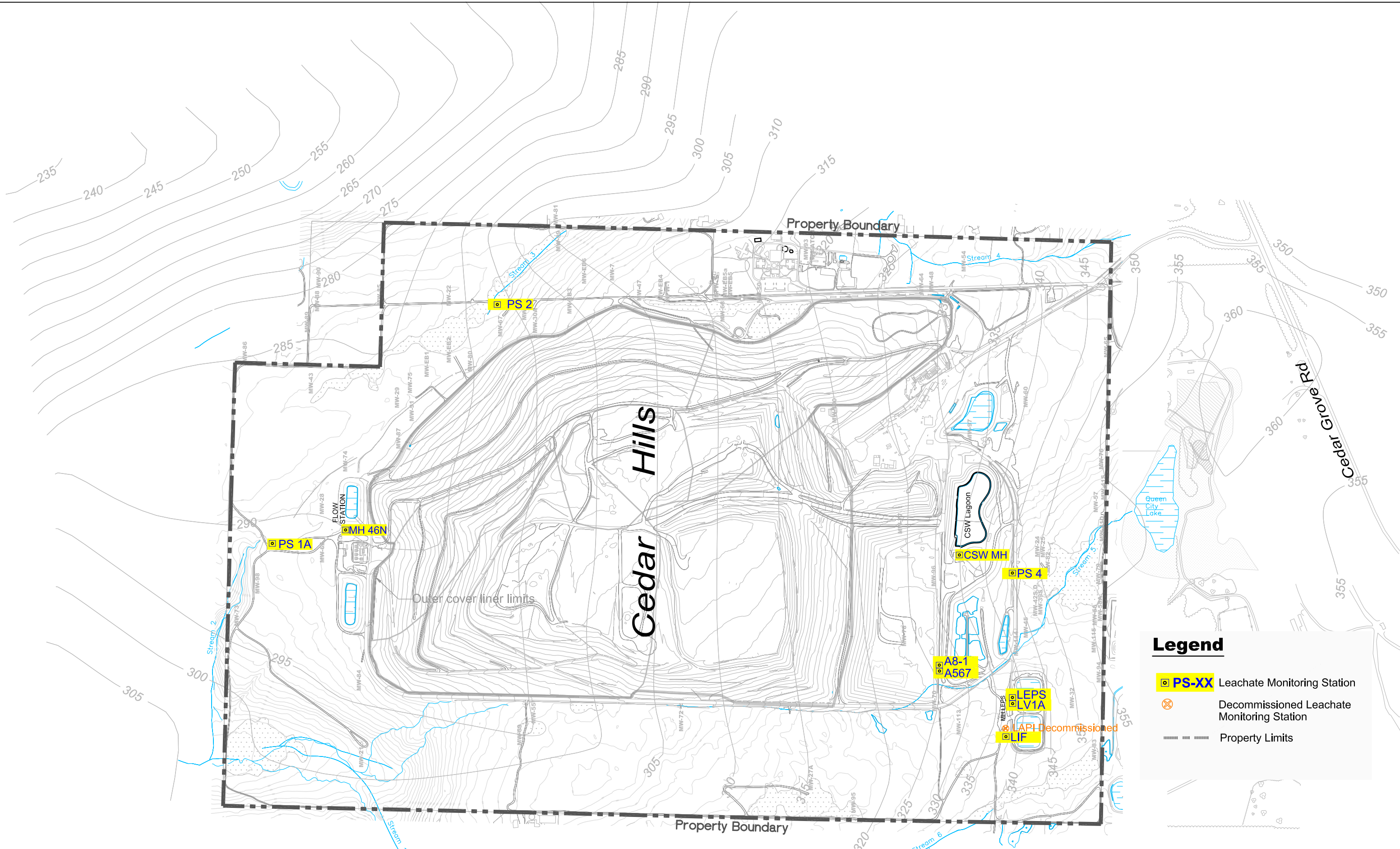
- * SW-GS1 Primary Surface Water and Stormwater Monitoring Locations
- * SW-S1 Contingency Surface Water Monitoring Locations
- SG-8 Staff Gage Locations
- Meteorological Station Location
- Property Limits



Surface Water and Stormwater Monitoring Network
 Environmental Monitoring Sampling and Analysis Plan
 Cedar Hills Regional Landfill, King County, Washington

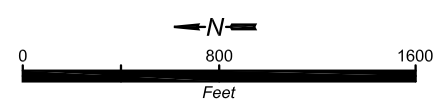
DATE AUG 2020	PROJECT NO.
DESIGNED BY:	
DRAWN BY:	FIGURE NO.
REVISED BY:	FIG. 2

CAD Path: S:\CAD\CEDARHILL\CH Monitoring well and GP for CLEE quarterly Aug 2020\Fig 2\Fig 2 Surface water and stormwater monitoring network.dwg Figure 7.1 (11 x 17) | Coordinate System: NAD 1983 State Plane Washington North FIPS 4601 Feet | Date Saved: Jan 14, 2021 9:16am | User:

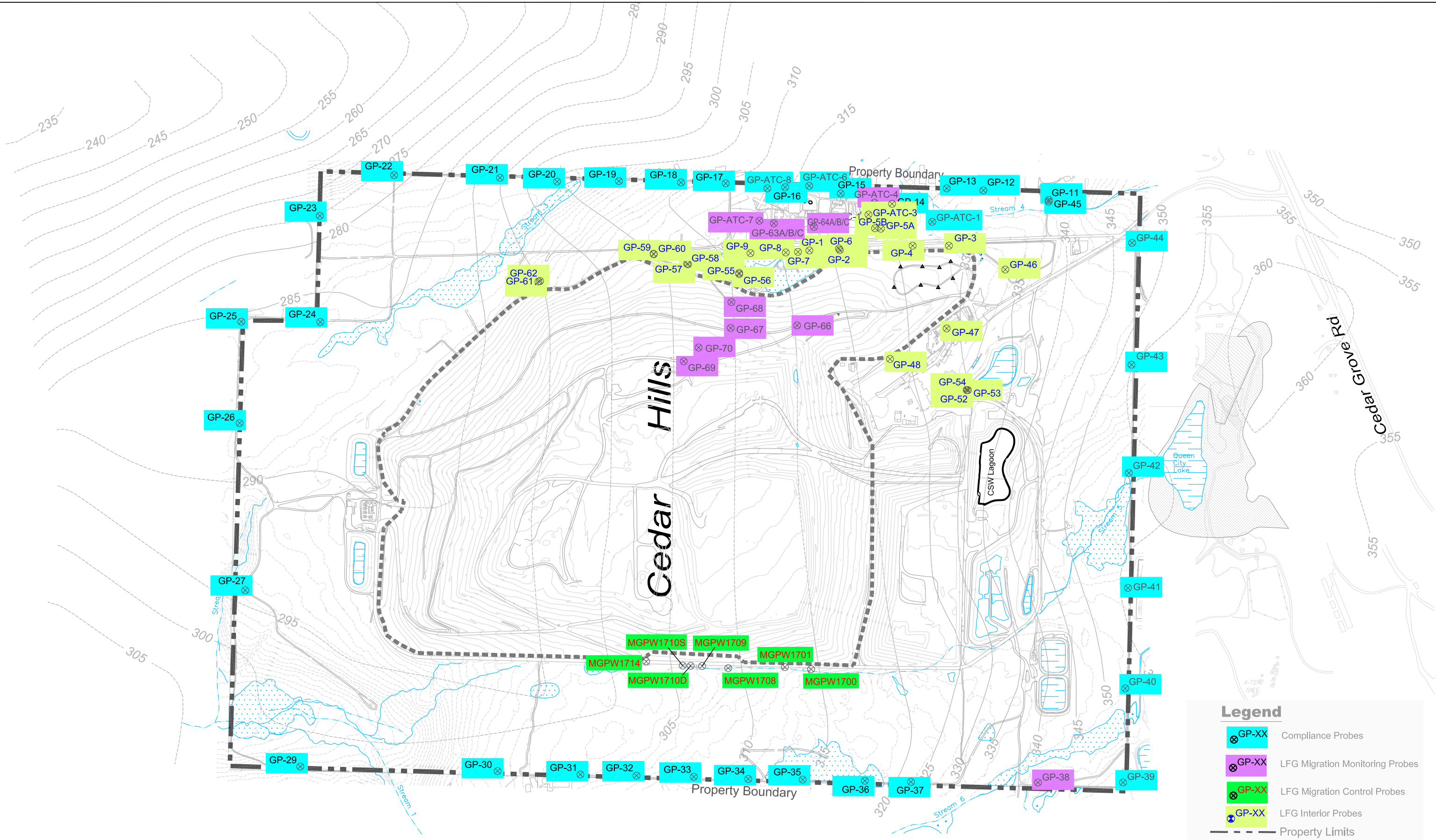


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- PS-XX Leachate Monitoring Station
- PS-XX Decommissioned Leachate Monitoring Station
- Property Limits

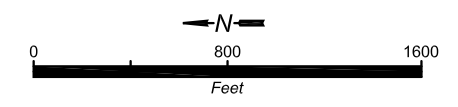


KClago_v_b_m2[1].tif	Leachate Monitoring Locations		DATE: AUG 2020	PROJECT NO.
	Environmental Monitoring Sampling and Analysis Plan		DESIGNED BY:	FIGURE NO.
	Cedar Hills Regional Landfill, King County, Washington		DRAWN BY:	FIG. 3
			REVISED BY:	



Legend

- ⊗ GP-XX Compliance Probes
- ⊗ GP-XX LFG Migration Monitoring Probes
- ⊗ GP-XX LFG Migration Control Probes
- ⊗ GP-XX LFG Interior Probes
- Property Limits



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

DATE: AUG 2020	PROJECT NO.
DESIGNED BY:	
DRAWN BY:	FIGURE NO.
REVISED BY:	FIG. 4

**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-43 (Downgradient)	5	325	30/4/85	Deep	Detection	WL only	Quarterly	None	
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
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	WL only	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
MW-74R (Downgradient)	4	249	11/1/00	Water Table	Detection		Quarterly	Quarterly	Detection zone monitors north end facilities. Quarterly monitoring recommended due to
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
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
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
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.

**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-87 (Downgradient)	4	261	11/21/00	Water Table	Detection		Quarterly	Quarterly	Key downgradient monitoring well.
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 interval 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-89 or 95.
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.
MW-113 (Upgradient)	4	220	4/03/20	Water Table	Detection		Quarterly	Quarterly	New monitoring well as of 2nd quarter 2020
MW-114 (Upgradient)	4	150	4/10/20	Water Table	Detection	Background	Quarterly	Quarterly	New monitoring well as of 2nd quarter 2020
MW-115 (Upgradient)	4	145	4/14/20	Water Table	Detection	Background	Quarterly	Quarterly	New monitoring well as of 2nd quarter 2020
NPW1	8	382	8/22/1990	Deep	Non-Potable	WL only	Quarterly	None	Well provides non potable water to the fire suppression tank on-site
NPW3	6	376	6/5/1990	Deep	Non-Potable	WL only	Quarterly	None	Well provides non potable water to the fire suppression tank on-site
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.
EW-25	6	36	6/10/92	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance well. Temporary monitoring point sampled with passive diffusion sampler. Decommissioned 2nd quarter of 2018.
MW 25	3	43	3/6/83	EPZ	Assessment	WL only	Quarterly	None	
MW 27A	2	80	3/10/85	EPZ	Assessment	WL only	Quarterly	None	
MW 28	3	39	21/6/83	EPZ	Assessment	WL only	Quarterly	None	
MW 29	3	60	23/6/83	EPZ	Assessment	WL only	Quarterly	None	
MW-30A	3	35	6/09/89	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs.
MW-41S	3	51	12/7/83	EPZ	Assessment	WL only	Quarterly	None	
MW-41D	3	51	12/7/83	EPZ	Assessment	WL only	Quarterly		
MW 45	2	64	5/17/1985	EPZ	Assessment	WL only	Quarterly	None	
MW-47	2	44	5/31/85	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance 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 48	2	63	24/5/85	EPZ	Assessment	WL only	Quarterly	None	
MW-50	2	40	6/03/85	EPZ	Assessment		Quarterly	Quarterly	
MW 55	2	67	10/02/86	EPZ	Assessment	WL only	Quarterly	None	
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 79	2	56	11/05/99	EPZ	Assessment	WL only	Quarterly		THIS WELL IS BROKEN; needs to be fixed. No statics are taken since it is still broken.
MW 98	2	23	3/09/01	EPZ	Assessment	WL only	Quarterly	None	
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
MW 105	2	30	1/30/09	EPZ	Assessment	Conductance only	Quarterly	Quarterly	Well located near leachate lagoons; FE measures conductance every quarter on this well as a check of the leachate lagoons

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 2ND QUARTER 2021

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
Static Water Levels	NA	4/1/21	Groundwater Elevation Measurement	--	North half of landfill.
Static Water Levels	NA	4/1/21	Groundwater Elevation Measurement	--	South half of landfill.
MW-21	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-21	Regional	4/2/2021	Groundwater Elevation Measurement	NA	
MW-21	Regional	4/2/21	Groundwater Elevation Measurement	W21-210402-	
MW-22	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/12/21	Groundwater Elevation Measurement	NA	
MW-24	Regional	4/12/2021	Groundwater Elevation Measurement	W24-210412-	
MW-25	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-27A	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-28	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-29	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-30A	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-30A	Perched	4/19/21	Groundwater Elevation Measurement	NA	
MW-30A	Perched	4/19/21	Groundwater Elevation Measurement	W30A210419-	
MW-41D	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-41S	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-43	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-45	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-47	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-47	Perched	4/19/2021	Groundwater Elevation Measurement	NA	
MW-47	Perched	4/19/21	Groundwater Elevation Measurement	W47-210419-	
MW-48	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-50	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-50	Perched	4/14/21	Groundwater Elevation Measurement	NA	
MW-54	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-55	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-56	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-56	Regional	4/5/21	Groundwater Elevation Measurement	NA	
MW-56	Regional	4/5/21	Groundwater Elevation Measurement	W56-210405-	
MW-57	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-58A	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/13/21	Groundwater Elevation Measurement	NA	
MW-59	Regional	4/13/21	Groundwater Elevation Measurement	W59-210413-	
MW-60	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-62	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-62	Regional	4/20/2021	Groundwater Elevation Measurement	NA	
MW-62	Regional	4/20/21	Groundwater Elevation Measurement	W62-210420-	
MW-62	Regional	4/20/21	Groundwater Elevation Measurement	W62-210420D	
MW-63	Perched	4/1/2021	Groundwater Elevation Measurement	NA	

TABLE 2
CEDAR HILLS REGIONAL LANDFILL:
GROUNDWATER MONITORING ACTIVITIES 2ND QUARTER 2021

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-64	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-64	Regional	4/5/2021	Groundwater Elevation Measurement	NA	
MW-64	Regional	4/5/21	Groundwater Elevation Measurement	W64-210405-	
MW-65	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-65	Regional	4/13/2021	Groundwater Elevation Measurement	NA	
MW-65	Regional	4/13/21	Groundwater Elevation Measurement	W65-210413-	
MW-66	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-66	Regional	4/2/21	Groundwater Elevation Measurement	NA	
MW-66	Regional	4/2/21	Groundwater Elevation Measurement	W66-210402-	
MW-67	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-67	Regional	6/30/21	Groundwater Elevation Measurement	NA	
MW-67	Regional	6/30/2021	Groundwater Elevation Measurement	W67-210630-	
MW-68	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-68	Regional	4/15/21	Groundwater Elevation Measurement	NA	
MW-68	Perched	4/15/2021	Groundwater Elevation Measurement	W68-210415-	
MW-69	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-72	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-72	Regional	4/6/21	Groundwater Elevation Measurement	NA	
MW-72	Regional	4/6/21	Groundwater Elevation Measurement	W72-210406-	
MW-73	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-73	Regional	4/2/21	Groundwater Elevation Measurement	NA	
MW-73	Regional	4/2/2021	Groundwater Elevation Measurement	W73-210402-	
MW-74	Regional	4/9/21	Groundwater Elevation Measurement	W74R210409-	
MW-74R	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-74R	Regional	4/9/2021	Groundwater Elevation Measurement	NA	
MW-75	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-75	Regional	4/9/2021	Groundwater Elevation Measurement	NA	
MW-75	Regional	4/9/21	Groundwater Elevation Measurement	W75-210409-	
MW-76	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-76	Regional	4/13/2021	Groundwater Elevation Measurement	NA	
MW-76	Regional	4/13/21	Groundwater Elevation Measurement	W76-210413-	
MW-79	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-80	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-80	Regional	4/15/21	Groundwater Elevation Measurement	NA	
MW-80	Perched	4/15/2021	Groundwater Elevation Measurement	W80-210415-	
MW-81	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-81	Regional	4/5/2021	Groundwater Elevation Measurement	NA	
MW-81	Regional	4/5/21	Groundwater Elevation Measurement	W81-210405-	
MW-81	Regional	4/5/21	Groundwater Elevation Measurement	W81-210405D	
MW-82	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-82	Regional	4/12/21	Groundwater Elevation Measurement	NA	
MW-82	Regional	4/12/2021	Groundwater Elevation Measurement	W82-210412-	
MW-83	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-83	Regional	4/13/21	Groundwater Elevation Measurement	NA	
MW-83	Regional	4/13/2021	Groundwater Elevation Measurement	W83-210413-	

TABLE 2
CEDAR HILLS REGIONAL LANDFILL:
GROUNDWATER MONITORING ACTIVITIES 2ND QUARTER 2021

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-84	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-84	Regional	4/5/2021	Groundwater Elevation Measurement	NA	
MW-84	Regional	4/5/21	Groundwater Elevation Measurement	W84-210405-	
MW-85	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-85	Regional	4/6/2021	Groundwater Elevation Measurement	NA	
MW-85	Regional	4/6/21	Groundwater Elevation Measurement	W85-210406-	
MW-86	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-86	Regional	4/6/21	Groundwater Elevation Measurement	NA	
MW-86	Regional	4/6/21	Groundwater Elevation Measurement	W860210406-	
MW-87	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-87	Regional	4/9/21	Groundwater Elevation Measurement	NA	
MW-87	Regional	6/11/2021	Groundwater Elevation Measurement	NA	
MW-87	Regional	6/11/21	Groundwater Elevation Measurement	W87-210611-	
MW-88	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-88	Regional	4/12/2021	Groundwater Elevation Measurement	NA	
MW-88	Regional	4/12/21	Groundwater Elevation Measurement	W88-210412-	
MW-89	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-89	Regional	4/12/21	Groundwater Elevation Measurement	NA	
MW-89	Regional	4/12/21	Groundwater Elevation Measurement	W89-210412-	
MW-90	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-91	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-93	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-93	Regional	4/5/21	Groundwater Elevation Measurement	NA	
MW-93	Regional	4/5/21	Groundwater Elevation Measurement	W93-210405-	
MW-94	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-94	Regional	4/13/21	Groundwater Elevation Measurement	NA	
MW-94	Regional	4/13/2021	Groundwater Elevation Measurement	W94-210413-	
MW-94	Regional	4/13/21	Groundwater Elevation Measurement	W94-210413D	
MW-95	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-95	Regional	4/6/2021	Groundwater Elevation Measurement	NA	
MW-95	Regional	4/6/21	Groundwater Elevation Measurement	W95-210406-	
MW-98	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
MW-99	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-100	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-100	Regional	4/12/2021	Groundwater Elevation Measurement	NA	
MW-100	Regional	4/12/21	Groundwater Elevation Measurement	W100210412-	
MW-101	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-101	Perched	4/19/21	Groundwater Elevation Measurement	NA	
MW-101	Regional	4/19/21	Groundwater Elevation Measurement	W101210419-	
MW-102	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-102	Perched	4/20/21	Groundwater Elevation Measurement	NA	
MW-102	Regional	4/20/2021	Groundwater Elevation Measurement	W102210420-	
MW-103	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-103	Perched	4/16/21	Groundwater Elevation Measurement	NA	
MW-103	Perched	4/16/2021	Groundwater Elevation Measurement	W103210416-	
MW-104	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-104	Perched	4/14/2021	Groundwater Elevation Measurement	NA	
MW-105	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-106	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-107	Perched	4/1/2021	Groundwater Elevation Measurement	NA	

TABLE 2
CEDAR HILLS REGIONAL LANDFILL:
GROUNDWATER MONITORING ACTIVITIES 2ND QUARTER 2021

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-107	Perched	4/20/21	Groundwater Elevation Measurement	NA	
MW-107	Regional	4/20/2021	Groundwater Elevation Measurement	W107210420-	
MW-108	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-108	Regional	4/15/21	Groundwater Elevation Measurement	NA	
MW-108	Perched	4/15/2021	Groundwater Elevation Measurement	W108210415-	
MW-109	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-109	Perched	4/15/2021	Groundwater Elevation Measurement	NA	
MW-109	Perched	4/15/21	Groundwater Elevation Measurement	W109210415-	
MW-110	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-110	Perched	4/20/2021	Groundwater Elevation Measurement	NA	
MW-110	Regional	4/20/21	Groundwater Elevation Measurement	W110210420-	
MW-111	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-111	Perched	4/15/21	Groundwater Elevation Measurement	NA	
MW-111	Perched	4/15/21	Groundwater Elevation Measurement	W111210415-	
MW-112	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-112	Perched	4/14/21	Groundwater Elevation Measurement	NA	
MW-112	Perched	4/14/2021	Groundwater Elevation Measurement	W112210414-	
MW-113	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-113	Regional	4/12/21	Groundwater Elevation Measurement	NA	
MW-113	Regional	4/12/2021	Groundwater Elevation Measurement	W113210412-	
MW-114	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-114	Regional	4/12/2021	Groundwater Elevation Measurement	NA	
MW-114	Regional	4/12/21	Groundwater Elevation Measurement	W114210412-	
MW-115	Regional	4/1/21	Groundwater Elevation Measurement	NA	
MW-115	Regional	4/13/2021	Groundwater Elevation Measurement	NA	
MW-115	Regional	4/13/21	Groundwater Elevation Measurement	W115210413-	
MW-EB5	Perched	4/1/2021	Groundwater Elevation Measurement	NA	
MW-EB5S	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	4/1/21	Groundwater Elevation Measurement	NA	
MW-EB6	Regional	4/14/2021	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	4/14/21	Groundwater Elevation Measurement	WEB6210414-	
MW-TRP	Regional	6/11/2021	Groundwater Elevation Measurement	VTRP210611Z	
MW-TRP	Regional	6/30/21	Groundwater Elevation Measurement	VTRP210630X	
WS-NPW-1	Regional	4/1/21	Groundwater Elevation Measurement	NA	
WS-NPW-3	Regional	4/1/2021	Groundwater Elevation Measurement	NA	
Field Blank	Regional	4/12/21	Groundwater Elevation Measurement	W100210412F	
Field Blank	Perched	4/15/2021	Groundwater Elevation Measurement	W80-210415F	

Table 3
CEDAR HILLS REGIONAL LANDFILL:
REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from April 01, 2021 to June 31, 2021)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Upgradient and Crossgradient Wells					
pH (Field)	pH Units	MW-115	4/13/2021	W115210413-	6.48
		MW-73	4/2/2021	W73-210402-	6.49
		MW-76	4/13/2021	W76-210413-	6.2
		MW-94	4/13/2021	W94-210413-	6.37
Arsenic, Total	mg/L	MW-113	4/12/2021	W113210412-	0.000531
		MW-114	4/12/2021	W114210412-	0.000278
		MW-115	4/13/2021	W115210413-	0.00019
		MW-21	4/2/2021	W21-210402-	0.000966
		MW-24	4/12/2021	W24-210412-	0.000551
		MW-56	4/5/2021	W56-210405-	0.0000735
		MW-59	4/13/2021	W59-210413-	0.00044
		MW-64	4/5/2021	W64-210405-	0.000859
		MW-65	4/13/2021	W65-210413-	0.000811
		MW-66	4/2/2021	W66-210402-	0.00068
		MW-68	4/15/2021	W68-210415-	0.0426
		MW-73	4/2/2021	W73-210402-	0.00151
		MW-76	4/13/2021	W76-210413-	0.000223
		MW-81	4/5/2021	W81-210405-	0.000496
		MW-82	4/12/2021	W82-210412-	0.000248
		MW-83	4/13/2021	W83-210413-	0.000291
		MW-84	4/5/2021	W84-210405-	0.000301
		MW-93	4/5/2021	W93-210405-	0.00138
		MW-94	4/13/2021	W94-210413-	0.000113
Iron, Dissolved	mg/L	MW-113	4/12/2021	W113210412-	1.17
		MW-21	4/2/2021	W21-210402-	1.93
		MW-24	4/12/2021	W24-210412-	3.13
		MW-59	4/13/2021	W59-210413-	4.47
		MW-65	4/13/2021	W65-210413-	3.31
		MW-68	4/15/2021	W68-210415-	0.551
Manganese, Dissolved	mg/L	MW-113	4/12/2021	W113210412-	0.405
		MW-21	4/2/2021	W21-210402-	0.126
		MW-24	4/12/2021	W24-210412-	0.103
		MW-56	4/5/2021	W56-210405-	0.123
		MW-59	4/13/2021	W59-210413-	0.121
		MW-64	4/5/2021	W64-210405-	0.0667
		MW-65	4/13/2021	W65-210413-	0.152
		MW-68	4/15/2021	W68-210415-	0.3
		MW-83	4/13/2021	W83-210413-	0.197
		MW-93	4/5/2021	W93-210405-	0.201
		MW-95	4/6/2021	W95-210406-	0.172
Trichloroethene	µg/L	MW-115	4/13/2021	W115210413-	4.35
		MW-82	4/12/2021	W82-210412-	4.11
		MW-83	4/13/2021	W83-210413-	
		MW-114	4/12/2021	W114210412-	11.5
		MW-76	4/13/2021	W76-210413-	6.01
Vinyl Chloride	µg/L	MW-65	4/13/2021	W65-210413-	0.022

Table 3
CEDAR HILLS REGIONAL LANDFILL:
REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from April 01, 2021 to June 31, 2021)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Downgradient Wells					
pH (Field)	pH Units	MW-87	6/11/2021	W87-210611-	6.38
Arsenic, Total	mg/L	MW-100	4/12/2021	W100210412-	0.00283
		MW-67	6/30/2021	W67-210630-	0.000694
		MW-72	4/6/2021	W72-210406-	0.000131
		MW-74R	4/9/2021	W74R210409-	0.000408
		MW-75	4/9/2021	W75-210409-	0.000426
		MW-80	4/15/2021	W80-210415-	0.0031
		MW-85	4/6/2021	W85-210406-	0.000704
		MW-86	4/6/2021	W86-210406-	0.00082
		MW-88	4/12/2021	W88-210412-	0.000991
		MW-89	4/12/2021	W89-210412-	0.00114
		MW-87	6/11/2021	W87-210611-	0.0207
		MW-95	4/6/2021	W95-210406-	0.000993
Iron, Dissolved	mg/L	MW-100	4/12/2021	W100210412-	0.57
		MW-67	6/30/2021	W67-210630-	0.336
		MW-72	4/6/2021	W72-210406-	2.66
		MW-75	4/9/2021	W75-210409-	2.67
		MW-80	4/15/2021	W80-210415-	2.16
		MW-86	4/6/2021	W86-210406-	0.964
		MW-87	6/11/2021	W87-210611-	4.77
		MW-89	4/12/2021	W89-210412-	1.24
Manganese, Dissolved	mg/L	MW-100	4/12/2021	W100210412-	0.107
		MW-67	6/30/2021	W67-210630-	0.204
		MW-72	4/6/2021	W72-210406-	0.364
		MW-75	4/9/2021	W75-210409-	0.227
		MW-80	4/15/2021	W80-210415-	0.347
		MW-87	6/11/2021	W87-210611-	0.539
		MW-89	4/12/2021	W89-210412-	0.312
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 Semi-annual Aquifer
 Groundwater Monitoring
 (Data Collected from April 01, 2021 to June 30, 2021)

Site ID	Upgradient and Crossgradient																			
	MW-21 4/2/2021			MW-24 4/12/2021			MW-56 4/5/2021			MW-59 4/13/2021			MW-64 4/5/2021			MW-65 4/13/2021				
Cations	MW	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)
pH			7.6			7.0			6.6			6.6			6.7			6.6		
Conductance			133			166			229			200			194			138		
TDSobs			100			120			153			141			129			95		
Calcium	40.1	2	12.7	0.633733	40.2	15.0	0.748503	39.0	25.9	1.292415	51.2	18.5	0.923154	40.4	16.8	0.838323	37.6	12.0	0.598802	38.6
Magnesium	24.3	2	7.0	0.573545	36.3	9.4	0.774326	40.3	11.2	0.921621	36.5	10.8	0.888706	38.9	12.6	1.036824	46.5	6.9	0.571076	36.9
Potassium	39.1	1	1.1	0.028902	1.8	1.0	0.0266	1.4	1.2	0.029925	1.2	1.2	0.030948	1.4	1.5	0.038109	1.7	0.9	0.023965	1.5
Sodium	23.0	1	6.1	0.266205	16.9	5.8	0.252286	13.1	6.3	0.27447	10.9	6.4	0.276645	12.1	7.2	0.311878	14.0	5.3	0.231407	14.9
Iron	55.8	2	1.93	0.069117	4.4	3.13	0.112092	5.8	0.03	0.001017	0.0	4.47	0.16008	7.0	0.05	0.001633	0.1	3.31	0.118538	7.6
Manganese	54.9	2	0.13	0.004587	0.3	0.10	0.00375	0.2	0.12	0.004478	0.2	0.12	0.004405	0.2	0.07	0.002428	0.1	0.15	0.005534	0.4
Ammonia-N	14.0	1	0.03	0.001928	0.1	0.03	0.002192	0.1	0.00	0.000143	0.0	0.01	0.000457	0.0	0.03	0.001821	0.1	0.00	0.000328	0.0
Total Cations (meq/L)				1.6			1.9			2.5			2.3			2.2			1.5	
Anions																				
Alkalinity, Total			62			68			85			73			93			83		
Carbonate	60.0	2	0.13162	0.004387	0.3	0.03647	0.001216	0.1	0.0182	0.000607	0.0	0.01837	0.000612	0.0	0.02684	0.000895	0.0	0.01367	0.000456	0.0
Bicarbonate	61.0	1	75.25	1.233427	84.1	83.01	1.360579	75.1	104.03	1.705136	68.4	89.39	1.465167	70.0	113.77	1.864824	83.9	65.00	1.065384	75.1
Chloride	35.5	1	2.4	0.068541	4.7	6.1	0.171213	9.4	20.5	0.57823	23.2	11.1	0.313091	15.0	2.8	0.078414	3.5	5.9	0.165853	11.7
Nitrate-N	14.0	1	0.01	0.000714	0.0	0.01	0.000714	0.0	0.38	0.027201	1.1	0.02	0.001428	0.1	0.01	0.000714	0.0	0.02	0.001428	0.1
Sulfate	96.1	2	7.7	0.160112	10.9	13.4	0.278999	15.4	8.7	0.180308	7.2	15.0	0.312313	14.9	13.4	0.278999	12.5	8.9	0.184889	13.0
Total Anions (meq/L)				1.5			1.8			2.5			2.1			2.2			1.4	
Total Ions (meq/L)				3.0			3.7			5.0			4.4			4.5			3.0	
Cation/Anion Ratio				1.08			1.06			1.01			1.09			1.00			1.09	
Percent Difference				3.6			2.9			0.6			4.4			0.2			4.4	
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)				1.50			1.80			2.52			2.12			2.23			1.43	
Calcium					42.18			41.54		51.32			43.56		37.68				42.01	
Magnesium					38.18			42.98		36.60			41.93		46.60				40.07	
Sodium + Potassium					19.64			15.48		12.09			14.51		15.73				17.92	
													100.0							
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				1.47			1.81			2.46			2.09		2.22				1.42	
Sulfate					10.918			15.397		7.317			14.935		12.550				13.052	
Chloride					4.674			9.449		23.464			14.972		3.527				11.708	
Bicarbonate + Carbonate					84.408			75.154		69.219			70.093		83.923				75.240	
													100.0							

Table 4
Ion Balance Calculations
 Cedar Hills Regional Landfill Semi-annual Aquifer
 Groundwater Monitoring
 (Data Collected from April 01, 2021 to June 30, 2021)

Site ID	Upgradient and Crossgradient																						
	MW-66 4/2/2021			MW-73 4/2/2021			MW-76 4/13/2021			MW-81 4/5/2021			MW-82 4/12/2021			MW-83 4/13/2021			MW-84 4/5/2021				
Cations	MW	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			6.5			6.2			7.0			6.7			6.6			6.8		
Conductance			192			126			273			158			267			546			189		
TDSobs			136			106			191			118			191			389			133		
Calcium	40.1	2	16.5	0.823353	36.7	11.9	0.59381	44.0	24.2	1.207585	45.5	14.5	0.723553	42.6	25.5	1.272455	43.4	64.2	3.203593	51.5	15.8	0.788423	37.1
Magnesium	24.3	2	13.0	1.069739	47.7	5.9	0.48797	36.1	11.2	0.921621	34.7	8.1	0.662415	39.0	15.6	1.283686	43.8	29.0	2.38634	38.4	12.1	0.99568	46.9
Potassium	39.1	1	1.1	0.029157	1.3	0.8	0.02051	1.5	1.4	0.035296	1.3	0.9	0.022175	1.3	1.6	0.040155	1.4	3.3	0.084914	1.4	1.2	0.029669	1.4
Sodium	23.0	1	7.3	0.318402	14.2	5.7	0.24794	18.4	11.3	0.491523	18.5	6.6	0.288389	17.0	7.7	0.333192	11.4	12.4	0.53937	8.7	7.1	0.307963	14.5
Iron	55.8	2	0.01	0.000358	0.0	0.01	0.00036	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000437	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0
Manganese	54.9	2	0.00	3.64E-06	0.0	0.00	1.5E-05	0.0	0.00	3.64E-06	0.0	0.00	3.64E-06	0.0	0.00	6.95E-06	0.0	0.20	0.007172	0.1	0.00	5.57E-05	0.0
Ammonia-N	14.0	1	0.00	0.000143	0.0	0.00	0.00014	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0
Total Cations (meq/L)				2.2			1.4			2.7			1.7			2.9			6.2			2.1	
Anions																							
Alkalinity, Total			86			51			91			59			118			197			81		
Carbonate	60.0	2	0.03407	0.001136	0.1	0.00948	0.00032	0.0	0.00867	0.000289	0.0	0.03441	0.001147	0.1	0.03555	0.001185	0.0	0.044	0.001467	0.0	0.027913	0.00093	0.0
Bicarbonate	61.0	1	104.61	1.714606	79.3	62.20	1.01953	76.7	111.00	1.819437	64.4	71.42	1.170677	70.6	143.89	2.358459	77.1	240.25	3.937939	63.4	98.40	1.612826	78.2
Chloride	35.5	1	4.3	0.120159	5.6	2.3	0.06346	4.8	22.9	0.645926	22.9	5.1	0.142724	8.6	11.1	0.313091	10.2	70.5	1.988548	32.0	3.9	0.109159	5.3
Nitrate-N	14.0	1	0.46	0.033126	1.5	1.16	0.08282	6.2	0.86	0.061469	2.2	1.59	0.113515	6.8	1.09	0.077818	2.5	0.50	0.035696	0.6	0.14	0.009709	0.5
Sulfate	96.1	2	14.1	0.293574	13.6	7.8	0.1624	12.2	14.3	0.297738	10.5	11.1	0.231111	13.9	14.8	0.308148	10.1	11.7	0.243604	3.9	15.9	0.331051	16.0
Total Anions (meq/L)				2.2			1.3			2.8			1.7			3.1			6.2			2.1	
Total Ions (meq/L)				4.4			2.7			5.5			3.4			6.0			12.4			4.2	
Cation/Anion Ratio				1.04			1.02			0.94			1.02			0.96			1.00			1.03	
Percent Difference				1.8			0.8			-3.1			1.1			-2.1			0.1			1.4	
Trilinear Diagram Data																							
sum (Ca, Mg, Na+K)				2.24			1.35			2.66			1.70			2.93			6.21			2.12	
Calcium					36.75		43.98			45.47			42.65			43.44			51.55			37.16	
Magnesium					47.74		36.14			34.70			39.05			43.82			38.40			46.93	
Sodium + Potassium					15.51		19.88			19.83			18.31			12.74			10.05			15.91	
										100.0												100.0	
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				2.13			1.25			2.76			1.55			2.98			6.17			2.05	
Sulfate					13.786		13.037			10.774			14.952			10.337			3.947			16.118	
Chloride					5.643		5.095			23.374			9.234			10.503			32.221			5.315	
Bicarbonate + Carbonate					80.571		81.868			65.851			75.814			79.159			63.832			78.568	
										100.0												100.0	

Table 4
Ion Balance Calculations
 Cedar Hills Regional Landfill Semi-annual Aquifer
 Groundwater Monitoring
 (Data Collected from April 01, 2021 to June 30, 2021)

Site ID	Upgradient and Crossgradient																			
	MW-113 4/12/2021			MW-114 4/12/2021			MW-115 4/13/2021			MW-93 4/5/2021			MW-94 4/13/2021			MW-95 4/6/2021				
Cations	MW	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)
pH			7.2			6.8			6.5			7.1			6.4			7.2		
Conductance			377			276			191			291			325			207		
TDSobs			248			191			197			216			247			147		
Calcium	40.1	2	35.0	1.746507	45.8	26.7	1.332335	47.6	30.3	1.51197605	51.1	31.8	1.58682635	46.2	37.4	1.86626747	50.4	22.0	1.09780439	45.8
Magnesium	24.3	2	19.4	1.596379	41.8	13.8	1.135569	40.6	13.0	1.06973874	36.1	16.8	1.3824316	40.2	16.6	1.36597408	36.9	12.0	0.98745114	41.2
Potassium	39.1	1	1.8	0.045271	1.2	2.0	0.049874	1.8	2.0	0.05115312	1.7	1.5	0.0393879	1.1	2.7	0.06777788	1.8	1.2	0.0312034	1.3
Sodium	23.0	1	8.5	0.371035	9.7	6.5	0.281864	10.1	7.5	0.32666703	11.0	9.6	0.41627211	12.1	9.3	0.4036578	10.9	6.3	0.27229503	11.4
Iron	55.8	2	1.17	0.0419	1.1	0.01	0.000358	0.0	0.01	0.00035812	0.0	0.01	0.00035812	0.0	0.01	0.00035812	0.0	0.01	0.00035812	0.0
Manganese	54.9	2	0.41	0.014744	0.4	0.00	8.56E-06	0.0	0.00	0.00012086	0.0	0.20	0.00731734	0.2	0.00	5.9704E-06	0.0	0.17	0.0062616	0.3
Ammonia-N	14.0	1	0.01	0.001028	0.0	0.00	0.000143	0.0	0.00	0.00014279	0.0	0.05	0.00369101	0.1	0.00	0.00014279	0.0	0.02	0.00171343	0.1
Total Cations (meq/L)				3.8			2.8		3.0			3.4		3.7			2.4			
Anions																				
Alkalinity, Total			148			105			100			124			132			92		
Carbonate	60.0	2	0.13452	0.004484	0.1	0.04169	0.00139	0.0	0.01815724	0.00060525	0.0	0.08552703	0.00285094	0.1	0.01860601	0.00062021	0.0	0.0796016	0.00265342	0.1
Bicarbonate	61.0	1	180.29	2.95507	72.8	128.02	2.098294	71.5	121.96	1.99909326	68.8	151.11	2.47677555	73.0	161.00	2.63898179	72.9	111.71	1.83107045	77.7
Chloride	35.5	1	30.9	0.871576	21.5	19.6	0.552845	18.8	23.2	0.6543875	22.5	2.7	0.07502891	2.2	26.4	0.74464784	20.6	6.9	0.1943418	8.2
Nitrate-N	14.0	1	0.01	0.000714	0.0	1.88	0.134219	4.6	0.72	0.05118869	1.8	0.02	0.00157064	0.0	0.92	0.06539587	1.8	0.01	0.00071393	0.0
Sulfate	96.1	2	10.9	0.226947	5.6	7.1	0.148661	5.1	9.6	0.19883903	6.8	40.2	0.8369978	24.7	8.1	0.16948164	4.7	15.8	0.32896929	14.0
Total Anions (meq/L)				4.1			2.9		2.9			3.4		3.6		3.6		2.4		
Total Ions (meq/L)				7.9			5.7		5.9			6.8		7.3		7.3		4.8		
Cation/Anion Ratio				0.94			0.95		1.02			1.01		1.02		1.02		1.02		
Percent Difference				-3.1			-2.4		1.0			0.6		1.2		1.2		0.8		
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)				3.76			2.80		2.96			3.42		3.70			2.39			
Calcium					46.46		47.59			51.09		46.33		50.39			45.96			
Magnesium					42.47		40.56			36.15		40.36		36.88			41.34			
Sodium + Potassium					11.07		11.85			12.77		13.30		12.73			12.71			
					100.0							100.0								
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				4.06			2.80		2.85			3.39		3.55			2.36			
Sulfate					5.592		5.307			6.970		24.678		4.769			13.957			
Chloride					21.478		19.736			22.937		2.212		20.954			8.245			
Bicarbonate + Carbonate					72.930		74.957			70.093		73.110		74.277			77.798			

Table 4
Ion Balance Calculations
 Cedar Hills Regional Landfill Semi-annual Aquifer
 Groundwater Monitoring
 (Data Collected from April 01, 2021 to June 30, 2021)

Site ID	Downgradient to Waste Cells and North End Facilities																			
	MW-68 4/15/2021			MW-67 6/30/2021			MW-72 4/6/2021			MW-74R 4/9/2021			MW-75 4/9/2021			MW-80 4/15/2021				
Cations	MW	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)
pH			6.9			6.7			6.9			6.8			6.8			7.0		
Conductance			252			409			312			500			350			292		
TDSobs			174			233			221			338			252			199		
Calcium	40.1	2	27.2	1.357285	44.9	39.2	1.956088	45.6	31.8	1.586826	42.3	47.6	2.37525	40.2	31.2	1.556886	39.7	31.3	1.561876	46.9
Magnesium	24.3	2	14.7	1.209628	40.0	22.3	1.835013	42.7	19.9	1.637523	43.7	35.9	2.954125	50.0	22.3	1.835013	46.8	15.6	1.283686	38.6
Potassium	39.1	1	1.7	0.043224	1.4	1.9	0.049363	1.1	2.0	0.051153	1.4	2.0	0.051409	0.9	1.8	0.044759	1.1	1.7	0.042969	1.3
Sodium	23.0	1	8.8	0.383214	12.7	9.9	0.432366	10.1	8.4	0.365815	9.8	12.2	0.530671	9.0	8.7	0.377124	9.6	8.0	0.347546	10.4
Iron	55.8	2	0.55	0.019732	0.7	0.34	0.012033	0.3	2.66	0.09526	2.5	0.01	0.000358	0.0	2.67	0.095618	2.4	2.16	0.077354	2.3
Manganese	54.9	2	0.30	0.010921	0.4	0.20	0.007427	0.2	0.36	0.013251	0.4	0.00	3.64E-06	0.0	0.23	0.008264	0.2	0.35	0.012632	0.4
Ammonia-N	14.0	1	0.02	0.001264	0.0	0.01	0.000528	0.0	0.02	0.001185	0.0	0.00	0.0003	0.0	0.01	0.000657	0.0	0.01	0.000671	0.0
Total Cations (meq/L)				3.0			4.3			3.8			5.9			3.9			3.3	
Anions																				
Alkalinity, Total			123			162			131			226			115			122		
Carbonate	60.0	2	0.06148	0.002049	0.1	0.04555	0.001518	0.0	0.06399	0.002133	0.1	0.08376	0.002792	0.0	0.04262	0.001421	0.0	0.07675	0.002558	0.1
Bicarbonate	61.0	1	149.93	2.45758	85.9	197.55	3.237993	81.2	159.69	2.617472	73.0	275.55	4.516527	73.9	140.21	2.298233	57.7	148.68	2.437074	76.4
Chloride	35.5	1	3.0	0.084337	2.9	5.0	0.14075	3.5	7.5	0.210984	5.9	27.6	0.778495	12.7	12.1	0.341297	8.6	4.5	0.1258	3.9
Nitrate-N	14.0	1	0.01	0.000714	0.0	0.08	0.005797	0.1	0.01	0.000714	0.0	0.28	0.019847	0.3	0.01	0.000714	0.0	0.01	0.000714	0.0
Sulfate	96.1	2	15.2	0.316477	11.1	29.0	0.603804	15.1	36.2	0.753714	21.0	38.3	0.797438	13.0	64.5	1.342944	33.7	29.9	0.622543	19.5
Total Anions (meq/L)				2.9			4.0			3.6			6.1			4.0			3.2	
Total Ions (meq/L)				5.9			8.3			7.3			12.0			7.9			6.5	
Cation/Anion Ratio				1.06			1.08			1.05			0.97			0.98			1.04	
Percent Difference				2.8			3.7			2.3			-1.7			-0.8			2.1	
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)				2.99			4.27			3.64			5.91			3.81			3.24	
Calcium					45.34			45.78			43.58			40.18			40.82			48.26
Magnesium					40.41			42.95			44.97			49.97			48.12			39.67
Sodium + Potassium					14.25			11.27			11.45			9.85			11.06			12.07
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				2.86			3.98			3.58			6.10			3.98			3.19	
Sulfate					11.064			15.155			21.028			13.083			33.709			19.528
Chloride					2.948			3.533			5.886			12.772			8.567			3.946
Bicarbonate + Carbonate					85.988			81.312			73.085			74.145			57.724			76.526

Table 4
Ion Balance Calculations
 Cedar Hills Regional Landfill Semi-annual Aquifer
 Groundwater Monitoring
 (Data Collected from April 01, 2021 to June 30, 2021)

Site ID	Downgradient to Waste Cells and North End Facilities																			
	MW-85 4/6/2021			MW-86 4/6/2021			MW-87 6/11/2021			MW-88 4/12/2021			MW-89 4/12/2021			MW-100 4/12/2021				
Cations	MW	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)
pH			6.8			6.9			6.4			6.8			7.0			6.7		
Conductance			343			183			516			116			228			254		
TDSobs			235			146			359			92			157			157		
Calcium	40.1	2	36.3	1.811377	43.7	16.1	0.803393	37.6	47.6	2.37525	40.6	9.4	0.466567	35.4	19.0	0.948104	36.8	23.3	1.162675	43.4
Magnesium	24.3	2	22.5	1.851471	44.7	11.6	0.954536	44.7	33.2	2.731948	46.7	7.1	0.58095	44.1	13.9	1.143798	44.4	13.6	1.119111	41.7
Potassium	39.1	1	1.8	0.044759	1.1	1.3	0.032482	1.5	2.4	0.060872	1.0	0.8	0.019873	1.5	1.6	0.040155	1.6	1.5	0.037342	1.4
Sodium	23.0	1	10.0	0.433236	10.5	7.1	0.309703	14.5	11.2	0.487173	8.3	5.7	0.248371	18.9	8.8	0.384519	14.9	7.8	0.337106	12.6
Iron	55.8	2	0.01	0.000358	0.0	0.96	0.034523	1.6	4.77	0.170824	2.9	0.01	0.000358	0.0	1.24	0.044407	1.7	0.57	0.020413	0.8
Manganese	54.9	2	0.00	3.64E-06	0.0	0.01	0.000422	0.0	0.54	0.019622	0.3	0.00	3.64E-06	0.0	0.31	0.011358	0.4	0.11	0.003895	0.1
Ammonia-N	14.0	1	0.00	0.000143	0.0	0.00	0.000143	0.0	0.02	0.001228	0.0	0.00	0.000143	0.0	0.02	0.001485	0.1	0.01	0.000543	0.0
Total Cations (meq/L)				4.1			2.1		5.8				1.3			2.6			2.7	
Anions																				
Alkalinity, Total			155			74			117			54			88			120		
Carbonate	60.0	2	0.06298	0.002099	0.1	0.03374	0.001125	0.1	0.01688	0.000563	0.0	0.0214	0.000713	0.1	0.05542	0.001848	0.1	0.03699	0.001233	0.0
Bicarbonate	61.0	1	188.97	3.097433	75.5	90.21	1.478652	72.3	142.71	2.339085	42.2	65.71	1.077124	81.2	107.37	1.759887	69.9	146.32	2.398405	85.9
Chloride	35.5	1	10.3	0.290525	7.1	4.4	0.123544	6.0	16.9	0.476687	8.6	1.8	0.0519	3.9	11.7	0.330014	13.1	2.6	0.074183	2.7
Nitrate-N	14.0	1	0.10	0.007139	0.2	0.01	0.000714	0.0	0.01	0.000714	0.0	0.80	0.057328	4.3	0.01	0.000714	0.0	0.01	0.000714	0.0
Sulfate	96.1	2	33.9	0.705827	17.2	21.2	0.441402	21.6	131.0	2.72753	49.2	6.7	0.139291	10.5	20.5	0.426827	16.9	15.2	0.316477	11.3
Total Anions (meq/L)				4.1			2.0		5.5				1.3			2.5			2.8	
Total Ions (meq/L)				8.2			4.2		11.4				2.6			5.1			5.5	
Cation/Anion Ratio				1.01			1.04		1.05				0.99			1.02			0.96	
Percent Difference				0.5			2.1		2.7				-0.4			1.1			-2.0	
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)				4.14			2.10		5.66				1.32			2.52			2.66	
Calcium					43.74			38.25		42.00			35.46			37.67			43.77	
Magnesium					44.71			45.45		48.31			44.15			45.45			42.13	
Sodium + Potassium					11.54			16.29		9.69			20.39			16.88			14.10	
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				4.10			2.04		5.54				1.27			2.52			2.79	
Sulfate					17.233			21.587		49.199			10.976			16.947			11.342	
Chloride					7.093			6.042		8.598			4.090			13.103			2.659	
Bicarbonate + Carbonate					75.674			72.371		42.202			84.934			69.950			85.999	

Figure 5. Trilinear Diagram Upgradient and Crossgradient Regional Wells

Cedar Hills Regional Landfill

Second Quarter 2021

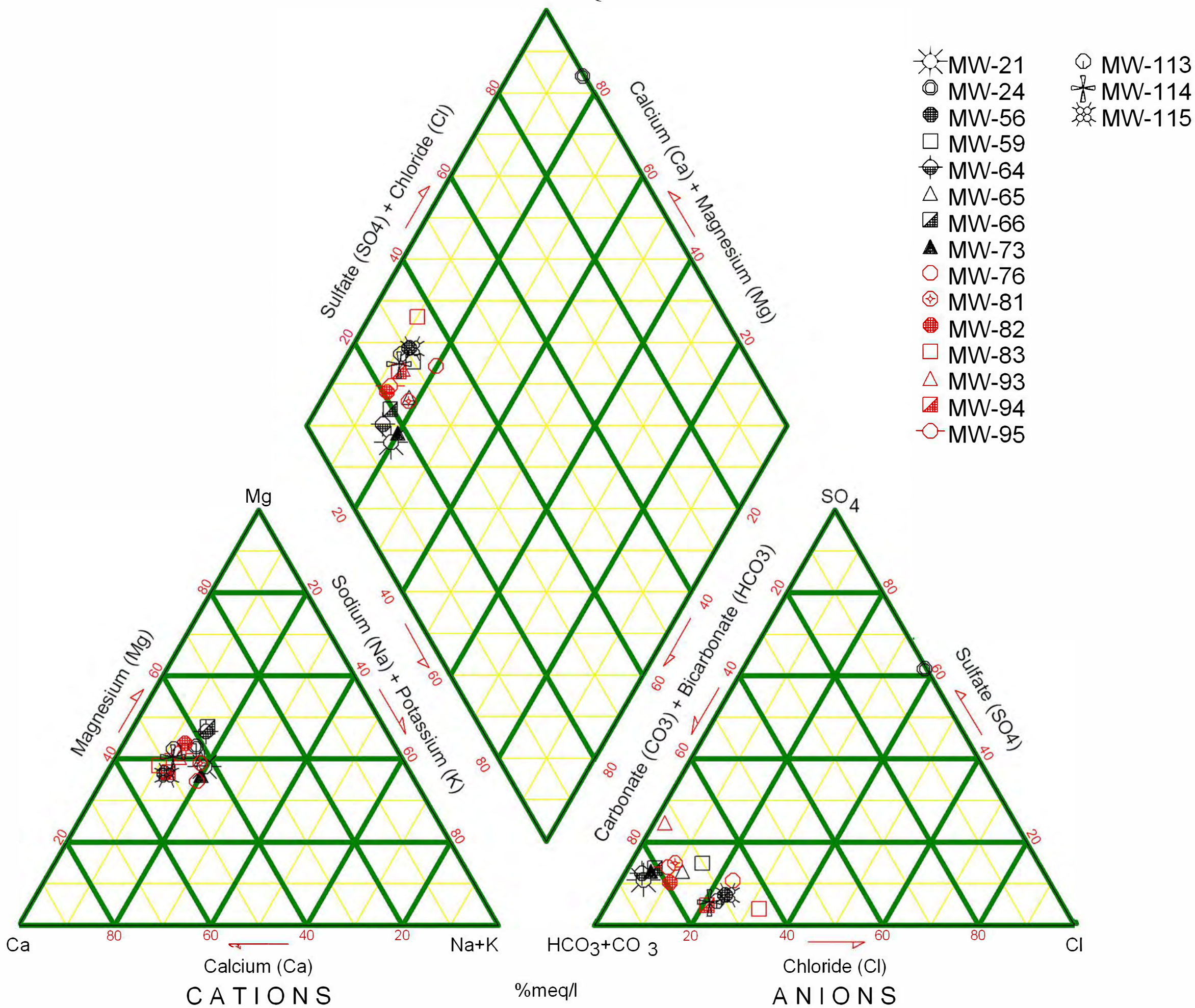


Figure 6. Trilinear Diagram Downgradient Regional Wells

Cedar Hills Regional Landfill

Second Quarter 2021

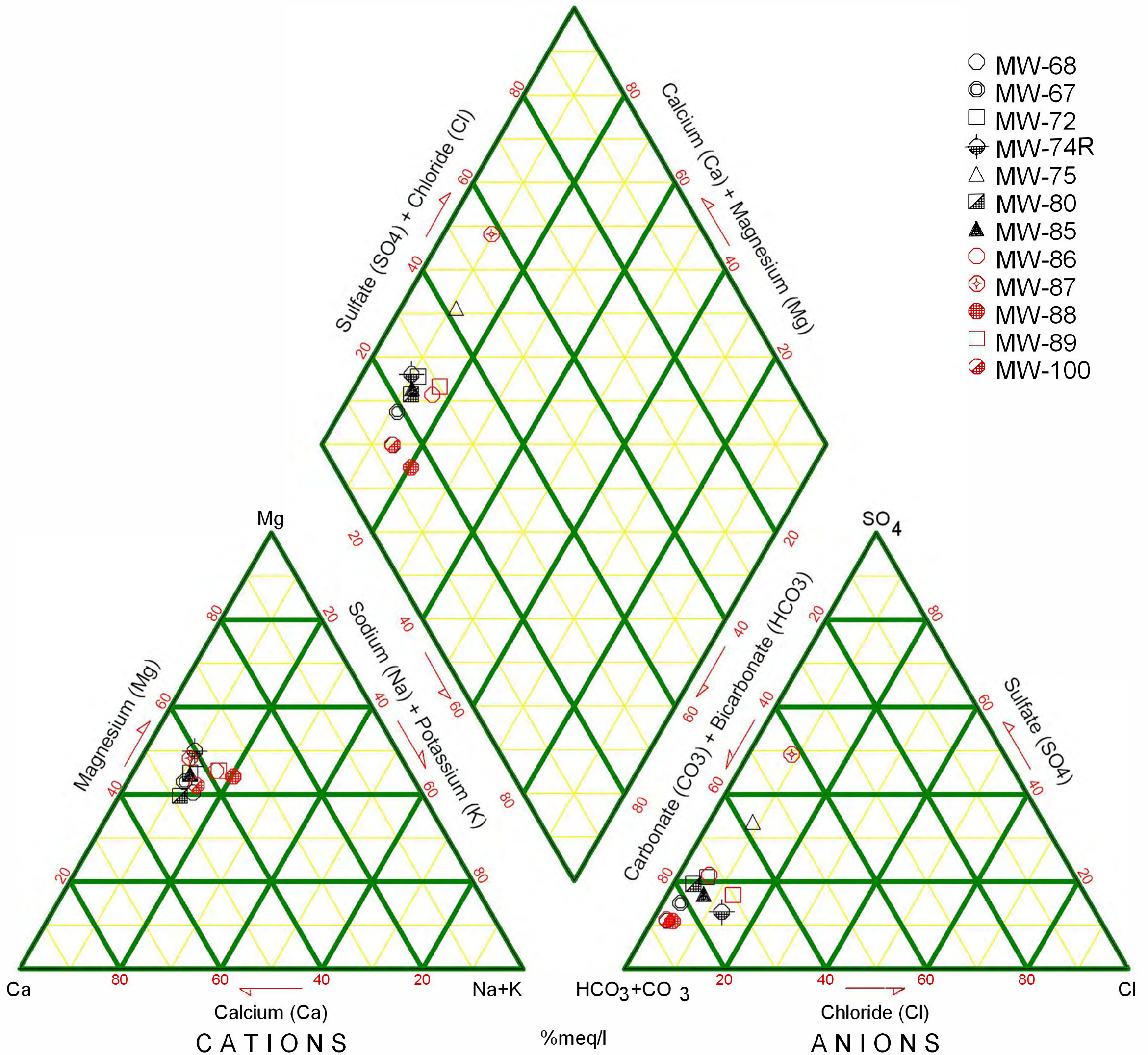


TABLE 5
INTRAWELL PREDICTION LIMIT VALUES AND RESULTS.
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY AND SEMI-ANNUAL MONITORING WELLS
(Data Collected from March 01, 2021 - June 30, 2021)

Parameter	Units	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
		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
Upgradient and Crossgradient Wells																				
MW-21	Limit	0.001	0.00116412	0.005586	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	1.9	0.2	0.2	0.2
	Result	< 0.0003	0.000966	0.00524	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000138	< 0.0005	< 0.00004	< 0.0001	0.0000828	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.01
MW-24	Limit	0.001	0.001	0.002163	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.32	0.39	0.2	0.2
	Result	< 0.0003	0.000551	0.00205	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000103	< 0.0005	< 0.00004	< 0.0001	< 0.000075	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.01
MW-56	Limit	0.001	0.00253	0.0478	0.001	0.002	0.00755	0.00611	0.0177	0.0033	0.01	0.001	0.00694	0.001	0.0181	0.0235	2.78	1.91274361	0.2	0.2
	Result	< 0.0003	0.0000735	0.00575	< 0.0001	< 0.00005	< 0.0002	0.000113	0.000211	< 0.0001	0.000902	< 0.0005	< 0.00004	< 0.0001	0.000189	0.000987	0.381	1.19	< 0.1	< 0.1
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	0.05	1.41	0.2	0.2
	Result	< 0.0003	0.00044	0.00409	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.00011	< 0.0005	< 0.00004	< 0.0001	< 0.000075	0.000633	< 0.02	1.20	< 0.1	< 0.1
MW-64	Limit	0.001	0.01	0.033512	0.001	0.002	0.005	0.00385	0.00512	0.001	0.0155	0.001	0.003	0.001	0.00606	0.0385	0.121	0.2	0.2	0.5
	Result	< 0.0003	0.000859	0.00772	< 0.0001	< 0.00005	< 0.0002	0.000295	< 0.0002	< 0.0001	0.000947	< 0.0005	< 0.00004	< 0.0001	0.00023	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.01
MW-65	Limit	0.001	0.00256	0.008505	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.055	0.2	0.2	0.2
	Result	< 0.0003	0.000811	0.0061	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000124	< 0.0005	< 0.00004	< 0.0001	< 0.000075	< 0.0005	< 0.02	< 0.1	< 0.1	< 0.01
MW-66	Limit	0.001	0.001	0.006771	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.9097323	0.2	0.2	0.2
	Result	< 0.0003	0.00068	0.00413	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000145	0.00094	< 0.00004	< 0.0001	0.000839	< 0.0005	0.464	< 0.1	< 0.1	< 0.01
MW-73	Limit	0.001	0.00151	0.0225	0.001	0.002	0.005	0.003	0.00363	0.00237	0.01	0.0016	0.003	0.001	0.00315	0.0066	2.01	0.2	0.2	0.2
	Result	< 0.0003	0.00151	0.0225	0.000204	< 0.00005	0.00207	0.000893	0.00303	0.00519	0.00227	0.00111	0.0000422	< 0.0001	0.00413	0.00785	1.16	< 0.1	< 0.1	< 0.1
MW-76	Limit	0.001	0.001	0.004787	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	6	2.41988446	0.65206	14.73937
	Result	< 0.0003	0.000223	0.00458	< 0.0001	< 0.00005	0.00104	0.0000981	0.00202	< 0.0001	0.000583	< 0.0005	< 0.00004	< 0.0001	0.000609	< 0.0005	0.861	0.24	0.337	6.01
MW-81	Limit	0.001	0.001	0.00487	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.00253	0.00895	1.7376423	0.2	0.2	0.2
	Result	< 0.0003	0.000496	0.00303	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000115	0.000823	< 0.00004	< 0.0001	0.00158	< 0.0005	1.59	< 0.1	< 0.1	< 0.01
MW-82	Limit	0.001	0.001	0.00376	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	1.3945065	0.2	0.2	8.588677
	Result	< 0.0003	0.000248	0.00136	< 0.0001	< 0.00005	0.000956	< 0.00005	0.000256	< 0.0001	0.00239	< 0.0005	< 0.00004	< 0.0001	0.00123	0.00056	1.09	< 0.1	< 0.1	4.11
MW-83	Limit	0.001	0.001	0.012368	0.001	0.002	0.0628	0.003	0.00771	0.001	0.01	0.001	0.003	0.001	0.002	0.004	4.9666306	0.2	0.2	2.818088
	Result	< 0.0003	0.000291	0.00766	< 0.0001	< 0.00005	< 0.0002	0.0000995	0.00214	< 0.0001	0.00213	< 0.0005	< 0.00004	< 0.0001	0.000754	0.000626	0.5	< 0.1	< 0.1	1.48
MW-84	Limit	0.001	0.001	0.00503	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.662	0.2	0.2	0.2
	Result	< 0.0003	0.000301	0.00488	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000325	0.000673	< 0.00004	< 0.0001	0.000505	0.00124	0.136	< 0.1	< 0.1	< 0.01
MW-93	Limit	0.001	0.00146091	0.0108	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00265	0.0112	0.0549	0.2	0.2	0.2
	Result	< 0.0003	0.00138	0.00762	< 0.0001	< 0.00005	< 0.0002	0.000093	0.000263	< 0.0001	0.000277	< 0.0005	< 0.00004	< 0.0001	0.00213	0.00404	0.022	< 0.1	< 0.1	< 0.01
MW-94	Limit	0.001	0.001	0.00542	0.001	0.002	0.005	0.003	0.0051	0.001	0.01	0.001	0.003	0.001	0.002	0.004	2.5608257	0.2	0.2	3.544744
	Result	< 0.0003	0.000113	0.00223	< 0.0001	< 0.00005	< 0.0002	0.000102	0.00128	< 0.0001	0.000666	< 0.0005	< 0.00004	< 0.0001	0.00112	< 0.0005	0.916	< 0.1	< 0.1	1.97
MW-95	Limit	0.001	0.00111	0.004749	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
	Result	< 0.0003	0.000993	0.00415	< 0.0001	< 0.00005	< 0.0002	0.0000674	< 0.0002	< 0.0001	0.00017	< 0.0005	< 0.00004	< 0.0001	0.000288	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.01

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

TABLE 5
INTRAWELL PREDICTION LIMIT VALUES AND RESULTS.
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY AND SEMI-ANNUAL MONITORING WELLS
(Data Collected from March 01, 2021 - June 30, 2021)

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	
Downgradient																					
MW-67	Limit	0.001	0.0101	0.0298	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00366	0.004	0.82	0.2	0.2	0.2	0.02
		< 0.0003	0.000694	0.0144	< 0.0001	< 0.00005	0.000453	0.000214	0.000349	0.000114	0.000662	< 0.0005	< 0.00004	< 0.000075	0.00056	0.00165	0.0812	< 0.1	< 0.1	< 0.1	< 0.01
MW-68	Limit	0.001	0.32578304	0.0197	0.001	0.002	0.005	0.0015	0.015999	0.001	0.005	0.001	0.003	0.001	0.0037	0.004	0.05	0.2	1	0.2	0.02
		< 0.0003	0.0426	0.0107	< 0.0001	< 0.00005	< 0.0002	0.000204	0.00119	< 0.0001	0.0004	< 0.0005	< 0.00004	< 0.0001	0.000819	0.000654	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-69*	Limit	0.001	0.00386	0.014174	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
MW-72	Limit	0.001	0.001	0.01619	0.001	0.002	0.005	0.003	0.00331	0.00104	0.01	0.001	0.003	0.001	0.002	0.02583313	0.068	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000131	0.0126	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000227	< 0.0001	0.000116	< 0.0005	< 0.00004	< 0.0001	< 0.000075	0.000808	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-74	Limit	0.001	0.00145	0.015948	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	0.000408	0.0122	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000229	< 0.0001	0.000822	0.000625	< 0.00004	< 0.0001	0.000605	< 0.0005	0.278	< 0.1	< 0.1	< 0.1	< 0.01
MW-75	Limit	0.001	0.001	0.013927	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	0.000426	0.013	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	< 0.0001	< 0.0005	< 0.00004	< 0.0001	< 0.000075	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-80	Limit	0.001	0.0392	0.023	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	0.0031	0.0137	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	< 0.0001	< 0.0005	< 0.00004	< 0.0001	0.0000849	0.00213	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-85	Limit	0.001	0.001	0.0076	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00136104	0.003	0.001	0.002	0.004	1.63	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000704	0.00672	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000212	0.000847	< 0.00004	< 0.0001	0.000932	0.000704	0.1	< 0.1	< 0.1	< 0.1	< 0.01
MW-86	Limit	0.001	0.0194	0.008754	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.0017	0.003	0.001	0.00336	0.004	570	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00082	0.00561	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.00308	< 0.0001	< 0.0001	< 0.0005	< 0.00004	< 0.0001	< 0.000075	0.00404	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-87	Limit	0.001	0.0256	0.038341	0.001	0.002	0.005	0.003	0.00347	0.001	0.01	0.001	0.003	0.001	0.00468	0.00892	0.0803	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.0207	0.0382	0.000147	0.0000684	0.000772	0.000182	0.00132	0.00037	0.000326	0.000701	< 0.00004	< 0.000075	0.00464	0.00244	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-88	Limit	0.001	0.00104969	0.002435	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002950352	0.004	1.7	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000991	0.00217	< 0.0001	< 0.00005	0.000575	< 0.00005	< 0.0002	< 0.0001	0.000106	0.000532	< 0.00004	< 0.0001	0.0026	< 0.0005	0.803	< 0.1	< 0.1	< 0.1	< 0.01
MW-89	Limit	0.001	0.0266	0.0256	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.04062975	0.095	0.2	0.2	0.2	0.04
	Result	< 0.0003	0.00114	0.00837	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000344	< 0.0001	0.00011	< 0.0005	< 0.00004	< 0.0001	0.000114	0.0146	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-100	Limit	0.001	0.02044138	0.0121	0.001	0.002	0.005	0.003	0.00226	0.001	0.01	0.001	0.003	0.001	0.002	0.00922	300	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00283	0.00617	< 0.0001	< 0.00005	< 0.0002	0.000216	0.000233	< 0.0001	0.000403	< 0.0005	< 0.00004	< 0.0001	0.0000893	0.0013	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01

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

TABLE 6
CEDAR HILLS REGIONAL LANDFILL.
REGIONAL AQUIFER VOLATILE ORGANIC COMPOUND DETECTIONS
(Data Collected from April 1, 2021 to June 30, 2021)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Upgradient and Crossgradient Wells				
Acetone	MW-21	4/2/2021	W21-210402-	3.03 JT
	MW-59	4/13/2021	W59-210413-	3.38 JT
Cis- 1,2-Dichloroethene	MW-56	4/5/2021	W56-210405-	1.19
	MW-59	4/13/2021	W59-210413-	1.2
	MW-76	4/13/2021	W76-210413-	0.238
Tetrachloroethene	MW-76	4/13/2021	W76-210413-	0.337
Trichloroethene	MW-114	4/12/2021	W114210412-	11.5
	MW-115	4/13/2021	W115210413-	4.35
	MW-76	4/13/2021	W76-210413-	6.01
	MW-82	4/12/2021	W82-210412-	4.11
	MW-83	4/13/2021	W83-210413-	1.48
	MW-94	4/13/2021	W94-210413-	1.97
Vinyl Chloride	MW-65	4/13/2021	W65-210413-	0.022
Downgradient Wells				
Vinyl Chloride	MW-95	4/6/2021	W95-210406-	0.01 GU

TABLE 7
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from April 01 2021 to June 30, 2021)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
East Perched Zone Wells					
pH (Field)	pH Units	MW-107	4/20/2021	W107210420-	5.5
		MW-110	4/20/2021	W110210420-	6.23
		MW-111	4/15/2021	W111210415-	5.63
		MW-30A	4/19/2021	W30A210419-	6.13
		MW-62	4/20/2021	W62-210420-	6.22
		MW-EB6	4/14/2021	WEB6210414-	6.1
1,1-Dichloroethane	µg/L	MW-30A	4/19/2021	W30A210419-	1.82
Arsenic, Total	mg/L	MW-102	4/20/2021	W102210420-	0.000298
		MW-103	4/16/2021	W103210416-	0.0075
		MW-107	4/20/2021	W107210420-	0.00618
		MW-108	4/15/2021	W108210415-	0.00149
		MW-109	4/15/2021	W109210415-	0.038
		MW-110	4/20/2021	W110210420-	0.00163
		MW-111	4/15/2021	W111210415-	0.000701
		MW-112	4/14/2021	W112210414-	0.00282
		MW-30A	4/19/2021	W30A210419-	0.00059
		MW-47	4/19/2021	W47-210419-	0.00363
		MW-62	4/20/2021	W62-210420-	0.000179
		MW-EB6	4/14/2021	WEB6210414-	0.00184
Iron, Dissolved	mg/L	MW-107	4/20/2021	W107210420-	4.15
		MW-109	4/15/2021	W109210415-	12.8
		MW-47	4/19/2021	W47-210419-	3.53
Manganese, Dissolved	mg/L	MW-107	4/20/2021	W107210420-	2.98
		MW-109	4/15/2021	W109210415-	2.07 D
		MW-110	4/20/2021	W110210420-	2.85
		MW-112	4/14/2021	W112210414-	0.0713
		MW-47	4/19/2021	W47-210419-	2.02
Sodium	mg/l	MW-108	4/15/2021	W108210415-	33
		MW-109	4/15/2021	W109210415-	1160 D
		MW-110	4/20/2021	W110210420-	39.1
Vinyl Chloride	µg/L	MW-107	4/20/2021	W107210420-	0.341
		MW-109	4/15/2021	W109210415-	0.0912
		MW-110	4/20/2021	W110210420-	0.113
		MW-47	4/19/2021	W47-210419-	3.56
Benzene		MW-109	4/15/2021	W109210415-	1.19
Chromium		MW-109	4/15/2021	W109210415-	0.167
SPEC COND, FIELD		MW-109	4/15/2021	W109210415-	3727
		MW-47	4/19/2021	W47-210419-	851.7
South Solid Waste Area Perched Wells					
pH (Field)	pH Units			None	
Arsenic, Total	mg/L	MW-101	4/19/2021	W101210419-	0.00502

TABLE 7
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from April 01 2021 to June 30, 2021)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Iron, Dissolved	mg/L	MW-101	4/19/2021	W101210419-	0.391
Manganese, Dissolved	mg/L	MW-101	4/19/2021	W101210419-	1.08
Vinyl Chloride	µg/L	MW-101	4/19/2021	W101210419-	0.252

See Data Qualifier List for Qualifier Information.

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

Figure 7. Trilinear Diagram East Perched Zone Wells

Cedar Hills Regional Landfill

Second Quarter 2021

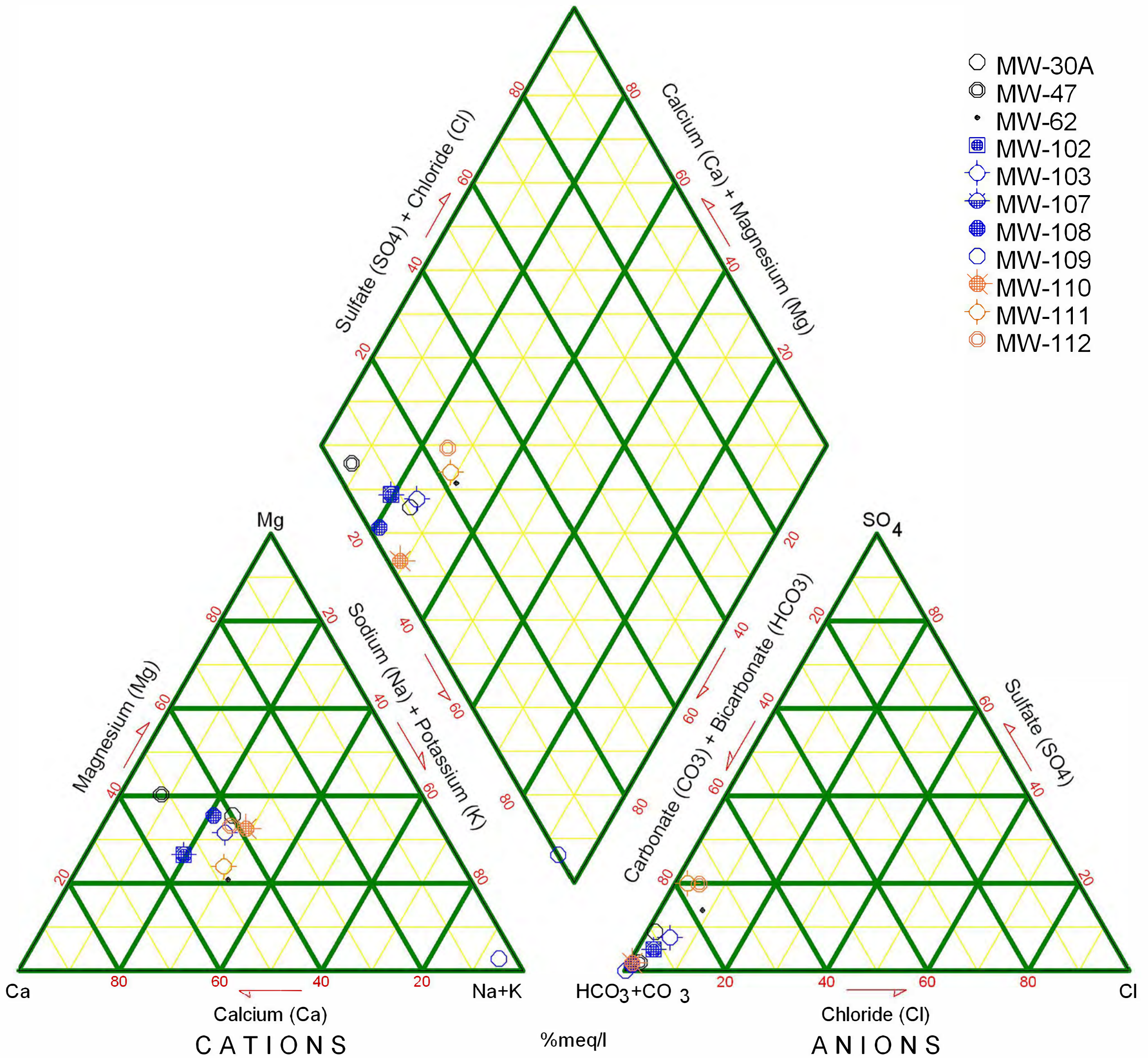


Figure 7. Trilinear Diagram SSW Area Perched Zones Wells

Cedar Hills Regional Landfill

Second Quarter 2021

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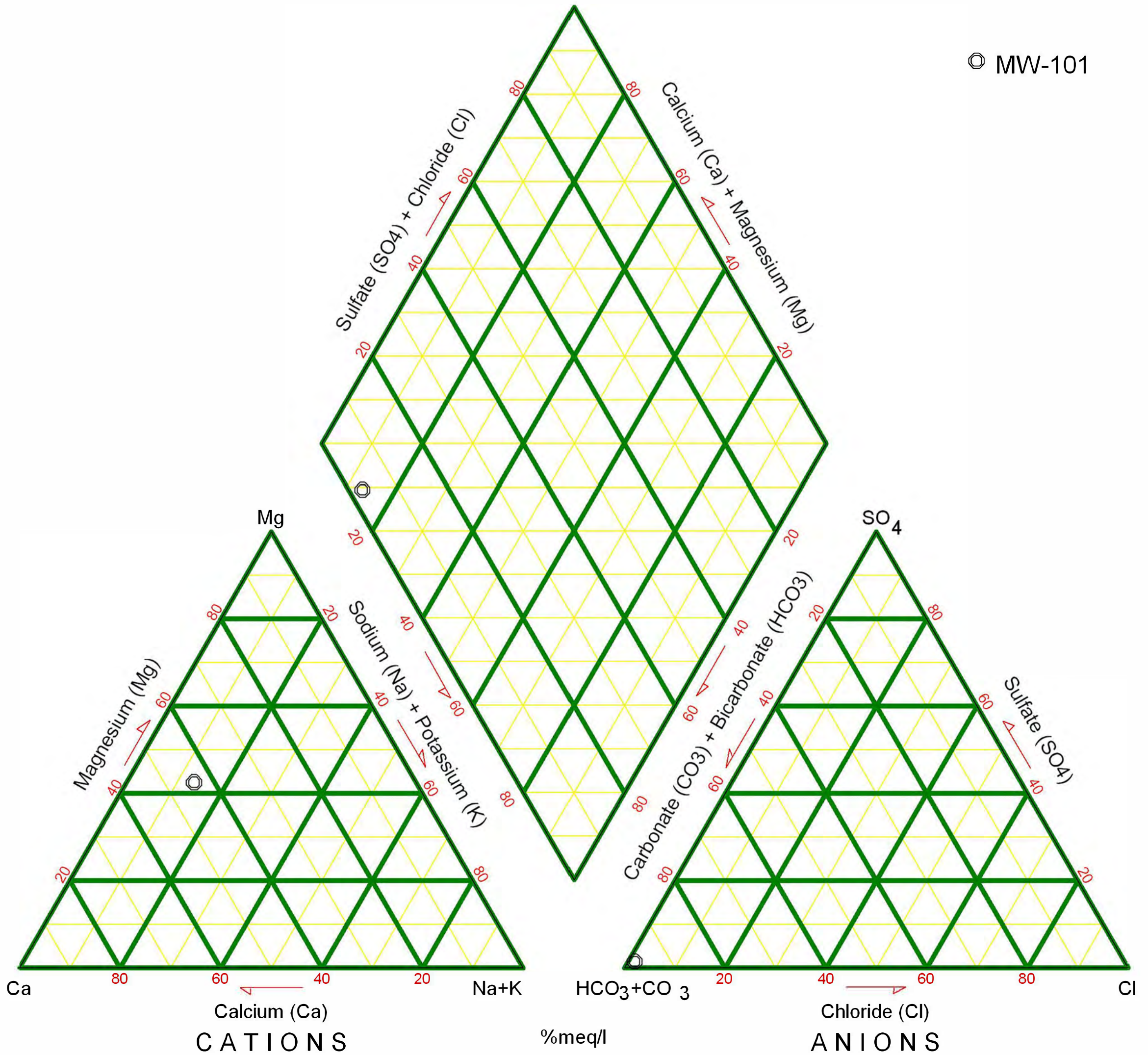


Table 8
Ion Balance Calculations.
Cedar Hills Regional Landfill.
Perched Zones Groundwater Monitoring Wells

Data Collected from October 1, 2020 - December 31, 2020

Site ID Date	East Perched Zone																																									
	MW-30A			MW-47			MW-62			MW-101			MW-102			MW-103			MW-104			MW-107			MW-108			MW-109			MW-110			MW-111			MW-112					
	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)	Data not taken	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)		
Cations																																										
Weight																																										
pH	6.1			6.6			6.2			7.1			6.8			7.1			8.0			6.6			5.5			6.6			7.1			6.2			5.6			7.5		
Conductance	216.7			851.7			159.9			464.0			162.5			249.8			180.0			325.2			203.9			325.2			3727.0			684.0			77.8			239.2		
TDS _{calc}	181.0			591.0			121.0			321.0			134.0			249.8			180.0			227.0			131.0			227.0			3090.0			449.0			76.7			198.0		
Calcium	40.1	19.2	0.96	39.8	117.0	5.84	50.6	16.1	0.80	48.0	52.0	2.59	43.6	17.0	0.85	45.5	24.8	1.24	43.2	24.0	1.20	34.9	21.7	1.08	46.5	24.0	1.20	34.9	35.8	1.79	3.2	71.9	3.59	43.0	8.2	0.41	47.3	25.9	1.29	41.3	25.9	1.29
Magnesium	24.3	10.4	0.86	35.5	55.6	4.58	39.6	4.3	0.35	20.9	30.5	2.51	42.2	6.3	0.52	28.0	11.0	0.91	31.6	10.2	0.84	24.5	6.5	0.53	22.9	10.2	0.84	24.5	19.4	1.60	2.8	35.6	2.93	35.1	2.5	0.21	23.8	12.6	1.04	33.2	12.6	1.04
Potassium	39.1	1.3	0.034	1.41	4.4	0.113	0.98	0.8	0.021	1.24	2.7	0.068	1.15	1.1	0.028	1.52	2.7	0.070	2.44	1.4	0.037	1.07	2.6	0.065	2.80	1.4	0.037	1.07	2.7	0.069	0.12	3.0	0.077	0.93	0.3	0.008	0.93	2.8	0.071			
Sodium	23.0	12.9	0.56	23.3	18.6	0.81	7.0	11.5	0.50	29.9	16.6	0.72	12.1	10.7	0.47	25.0	14.9	0.65	22.7	31.2	1.36	39.6	7.5	0.33	14.0	31.2	1.36	39.6	1200.0	52.20	92.9	37.8	1.64	19.7	5.5	0.24	27.8	16.6	0.72	23.1	16.6	0.72
Iron	55.8	0.0	0.0004	0.0149	3.5	0.1264	1.0955	0.0	0.0004	0.0214	0.4	0.014	0.2354	0.0	0.0004	0.0192	0.0	0.0004	0.0125	0.0	0.0004	0.0104	4.2	0.1486	6.3754	0.0	0.0004	0.0104	12.8	0.4584	0.3155	0.1	0.0031	0.0373	0.0	0.0004	0.0415	0.0	0.0004			
Manganese	54.9	0.0	7E-06	0.00031	2.0	0.0735	0.63728	0.0	2E-05	0.00134	1.1	0.0393	0.66086	0.0	2E-05	0.00109	0.0	0.0002	0.00837	0.0	1E-05	0.00032	3.0	0.1085	4.65376	0.0	1E-05	0.00032	2.1	0.0754	0.13406	2.9	0.1038	1.24281	0.0	7E-05	0.00853	0.1	0.0026			
Ammonia-N	14.0	0.0	0.0001	0.0059	0.1	0.0036	0.0314	0.0	0.0001	0.0085	0.0	0.0011	0.0188	0.0	0.0001	0.0077	0.0	0.0001	0.0050	0.9	0.067	2.8727	0.0	0.0001	0.0042	0.4	0.0289	0.0514	0.0	0.0027	0.0326	0.0	0.0001	0.0166	0.0	0.0013						
Total Cations (meq/L)	2.41			11.54			1.68			5.95			1.86			2.86			3.43			2.33			3.43			56.21			8.35			0.86			3.13					
Anions																																										
Alkalinity, Total	78.40			520.00			58.50			266.00			71.10			117.00			114.00			91.80			114.00			2530.00			403.00			32.80			109.00					
Carbonate	60.0	0.006	0.000	0.009	0.124	0.004	0.038	0.006	0.000	0.012	0.188	0.006	0.114	0.025	0.001	0.045	0.729	0.024	0.905	0.028	0.001	0.027	0.002	0.000	0.003	0.028	0.001	0.027	1.745	0.058	0.115	0.041	0.001	0.017	0.001	0.000	0.003	0.207	0.007			
Bicarbonate	61.0	1.568	67.919	634.15	10.394	96.008	71.36	1.170	70.473	324.14	5.313	97.095	86.69	1.421	78.535	141.26	2.315	86.177	139.02	2.279	67.062	111.99	1.836	91.731	139.02	2.279	67.062	3083.05	50.534	99.684	491.58	8.057	97.809	40.01	0.656	71.783	132.56	2.173				
Chloride	35.5	1.0	0.028	1.234	7.6	0.215	1.985	4.5	0.127	7.682	2.5	0.070	1.278	5.7	0.162	8.933	4.9	0.139	5.186	1.6	0.045	1.336	2.4	0.067	3.341	1.6	0.045	1.336	3.1	0.087	0.172	2.2	0.061	0.743	0.7	0.021	2.312	5.0	0.142			
Nitrate-N	14.0	7.8	0.555	24.035	0.0	0.001	0.007	2.1	0.152	9.162	0.0	0.001	0.013	1.1	0.079	4.340	0.0	0.003	0.098	0.6	0.044	1.305	0.0	0.001	0.036	0.6	0.044	1.305	0.1	0.007	0.014	0.0	0.001	0.009	0.9	0.067	7.329	0.1	0.007			
Sulfate	96.1	7.5	0.157	6.802	10.2	0.212	1.962	10.1	0.210	12.671	3.9	0.082	1.499	7.1	0.147	8.147	9.9	0.205	7.633	49.4	1.029	30.270	4.7	0.098	4.890	49.4	1.029	30.270	0.4	0.007	0.015	5.6	0.117	1.423	8.2	0.170	18.572	0.0	0.000			
Total Anions (meq/L)	2.31			10.83			1.66			5.47			1.81			2.69			3.40			2.00			3.40			50.69			8.24			0.91			2.33					
Total Ions (meq/L)	4.717			22.366			3.335			11.421			3.674			5.548			6.829			4.332			6.829			106.906			16.586			1.776			5.455					
Cation/Anion Ratio	1.044			1.066			1.010			1.087			1.030			1.065			1.010			1.165			1.010			1.109			1.013			0.944			1.343					
Percent Difference	2.153			3.187			0.474			4.181			1.497			3.148			0.490			7.617			0.490			5.161			0.665			-2.877			14.637					
Trilinear Diagram Data																																										
sum (Ca, Mg, Na+K)	2.41			11.34			1.67			5.89			1.86			2.86			3.43			2.01			3.43			55.65			8.24			0.86			3.12					
Calcium		39.8			51.5		48.0			44.0			45.5			43.3			34.9			54.0			34.9			3.2			43.5			47.4			41.4					
Magnesium		35.5			40.4		20.9			42.6			28.0			31.6			24.5			26.6			24.5			2.9			35.6			23.9			33.2					
Sodium + Potassium		24.7			8.1		31.1			13.4			26.5			25.1			40.6			19.5			40.6			93.9			20.9			28.8			25.4					
sum (SO ₄ , Cl, HCO ₃ +CO ₃)	1.753			10.826			1.508			5.471			1.731			2.684			3.354			2.000			3.354			50.687			8.237			0.847			2.321					
Sulfate		9.0			2.0		13.9			1.5			8.5			7.6			30.7			4.9			30.7			0.0			1.4			20.0			0.0					
Chloride		1.6			2.0		8.5			1.3			9.3			5.2			1.4			3.3			1.4			0.2			0.7			2.5			6.1					
Bicarbonate + Carbonate		89.4			96.1		77.6			97.2			97.2			82.1			87.2			68.0			91.8			99.8			97.8			77.5			93.9					

TABLE 9
INTRAWELL PREDICTION LIMIT VALUES AND RESULTS
CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES MONITORING WELLS
(Data Collected from March 01, 2021 - June 30, 2021)

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	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well	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	ug/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	0.0077	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	4.24	2.00	0.20	8.67	0.20	1.47	0.03
	Result	< 0.0003	0.0006	0.0040	< 0.0001	< 0.00005	0.0010	0.000108	0.000633	< 0.0001	0.000925	< 0.0005	< 0.00004	< 0.0001	0.00259	0.000880	7.77	1.82	< 0.1	< 0.1	2.02	< 0.1	0.85	< 0.01
MW-47	Limit	0.001	0.0113	0.0462	0.001	0.002	0.005	0.003	0.0105	0.00143	0.01	0.001	0.003	0.001	0.00317	0.168	0.024	0.99	2.00	0.44	6.26	0.41	0.23	8.32
	Result	< 0.0003	0.0036	0.0312	< 0.0001	< 0.00005	< 0.0002	0.000347	< 0.0002	< 0.0001	0.0018	< 0.0005	< 0.00004	< 0.0001	0.000255	< 0.0005	< 0.01	0.58	< 0.1	0.11	2.15	< 0.1	< 0.1	3.56
MW-62*	Limit	0.001	0.001	0.0035	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00212	0.004	7.4273256	10.20	0.20	0.20	10.30	0.20	0.47	0.02
	Result	< 0.0003	0.000179	0.00264	< 0.0001	< 0.00005	0.000669	0.000114	0.00103	0.000203	0.00101	< 0.0005	< 0.00004	< 0.0001	0.000768	0.00333	2.13	0.381	< 0.1	< 0.1	0.856	< 0.1	< 0.1	< 0.01
South Solid Waste Area Wells																								
MW-101	Limit	0.001	0.014	0.0344	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	0.87
	Result	< 0.0003	0.00502	0.0190	< 0.0001	< 0.00005	< 0.0002	0.000236	< 0.0002	< 0.0001	0.00303	< 0.0005	< 0.00004	< 0.0001	0.000291	< 0.0005	< 0.01	0.13	< 0.1	0.15	0.18	< 0.1	< 0.1	0.25

NOTE: MW-62 was not sampled due to DTW below pump.

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

TABLE 10
CEDAR HILLS REGIONAL LANDFILL.
PERCHED ZONES VOLATILE ORGANIC COMPOUND DETECTIONS
(Data Collected from April 01, 2021 to June 30, 2021)

Analyte	Site ID	Date	Sample ID	Sample Value (ug/L)
East Perched Zone Wells				
1,1-Dichloroethane	MW-30A	4/19/2021	W30A210419-	1.82
	MW-47	4/19/2021	W47-210419-	0.578
	MW-62	4/20/2021	W62-210420-	0.381
	MW-110	4/20/2021	W110210420-	0.293
1,2-Dichlorobenzene	MW-109	4/15/2021	W109210415-	0.347
	MW-110	4/20/2021	W110210420-	0.523
1,2-Dichloroethane	MW-110	4/20/2021	W110210420-	0.277
	MW-47	4/19/2021	W47-210419-	0.114 JT
1,2-Dichloropropane	MW-110	4/20/2021	W110210420-	0.217
1,4-Dichlorobenzene	MW-107	4/20/2021	W107210420-	0.345
	MW-109	4/15/2021	W109210415-	0.576
	MW-110	4/20/2021	W110210420-	0.122 JT
Acetone	MW-109	4/15/2021	W109210415-	3.45 JT
Benzene	MW-109	4/15/2021	W109210415-	1.19
	MW-110	4/20/2021	W110210420-	0.205
Chlorobenzene	MW-107	4/20/2021	W107210420-	0.222
	MW-109	4/15/2021	W109210415-	0.789
	MW-110	4/20/2021	W110210420-	0.431
Chloroethane	MW-47	4/19/2021	W47-210419-	0.17 JT
Cis-1,2-Dichloroethene	MW-110	4/20/2021	W110210420-	4.46
	MW-111	4/15/2021	W111210415-	0.143 JT
	MW-30A	4/19/2021	W30A210419-	2.02
	MW-47	4/19/2021	W47-210419-	2.15
	MW-62	4/20/2021	W62-210420-	0.856
Dichlorodifluoromethane	MW-107	4/20/2021	W107210420-	0.162 JT
	MW-47	4/19/2021	W47-210419-	3.16
Ethylbenzene	MW-109	4/15/2021	W109210415-	0.111 JT
M & P Xylene	MW-109	4/15/2021	W109210415-	0.191 JT
Tetrachloroethene	MW-30A	4/19/2021	W30A210419-	0.106 JT
Toluene	MW-109	4/15/2021	W109210415-	43.5
Trans-1,2-Dichloroethene	MW-110	4/20/2021	W110210420-	0.168 JT
Trichloroethene	MW-30A	4/19/2021	W30A210419-	0.845
Vinyl Chloride	MW-107	4/20/2021	W107210420-	0.341
	MW-109	4/15/2021	W109210415-	0.0912
	MW-110	4/20/2021	W110210420-	0.113
	MW-47	4/19/2021	W47-210419-	3.56
South Solid Waste Area Perched Wells				
1,1-Dichloroethane	MW-101	4/19/2021	W101210419-	0.125 JT
1,2-Dichloroethane	MW-101	4/19/2021	W101210419-	0.153 JT
Chloroethane	MW-101	4/19/2021	W101210419-	0.131 JT
Cis-1,2-Dichloroethene	MW-101	4/19/2021	W101210419-	0.177 JT
Vinyl Chloride	MW-101	4/19/2021	W101210419-	0.252

See Data Qualifier List for Qualifier Information.

TABLE 11
CEDAR HILLS REGIONAL LANDFILL.
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
(Data Collected from April 01, 2021 to June 30, 2021)

Analyte	Site ID	Date	Sample ID	Sample Value (mg/L)
Acetone	FIELD BLANK	04/12/21	W100210412F	0.00435 JT

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
No VOA Trip Blank Detections for 2Q2021				

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
No Method Blank Detections for 2Q2021				

See Data Qualifier List for Qualifier Information.

TABLE 12
CEDAR HILLS REGIONAL LANDFILL.
STORM AND SURFACE WATER MONITORING ACTIVITIES 4th QUARTER 2020

Station ID	Date	Planned Acitvity	Sample ID	Comment
SW-GS1	4/26/2021	NPDES Permit Sample	SGS1210426P	
SW-SL3	4/26/2021	NPDES Permit Sample	SSL3210426P	
SW-N4	4/26/2021	NPDES Permit Sample	SN4-210426P	
SW-TD1		--		NST
SW-TD2		--		NST
SW-TD7		--		NST
SW-E1	4/20/2021	East Perched Zone SW Monitoring	SE1-210420Q	
Stream Gauges	4/1/2021	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	5/27/2021	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 April 01, 2021 - June 30, 2021)

SUMMARY OF ISGP* EXCEEDANCES

Parameter	Units	Sampling Location	Date	Value	Regulatory Limit	Type
No Stormwater Exceedances for this Quarter						

*ISGP - Industrial General Stormwater Permit

SUMMARY OF CSWGP* EXCEEDANCES

Parameter	Units	Sampling Location	Date	Value	Permit Limit	Type
No Stormwater Exceedances for this Quarter						

*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	0.0000006	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
Benzotrchloride	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
Furmecyclox	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=picocuries 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 April 01, 2021 to June 31, 2021)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
No Suspect Data for 2Q2021						

See Data Qualifier List for Qualifier Information.

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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 5600

Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192

TTY Relay: 711

TECHNICAL MEMORANDUM

August 16, 2021

TO: Subrina Tahsin, Engineer II, 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
Second Quarter 2021 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 second quarter of 2021 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, 2021). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater levels at the Landfill on April 1, 2021. These measurements were received by WLRD on May 28, 2021, 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.

When comparing results from this report to that of the first quarter of 2021, there have been no significant changes in the interpreted regional aquifer groundwater conditions.

Groundwater Elevation Data

The SWD measured regional aquifer groundwater level measurements at 43 monitoring wells during the second quarter of 2021. 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) and in *Area 8 Development, Monitoring Well Replacement Report* (HDR, 2021).

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. A total of 25 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 April 1, 2021.

Direction of Groundwater Flow

Interpreted groundwater flow directions in the regional aquifer, based on measurements taken on April 1, 2021, are shown in Figure A-1. Calculated groundwater elevations during the second quarter of 2021 indicate that groundwater in the regional aquifer generally flows to the north with minor components of flow of the following:

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

Table A-2 lists the flow direction for each portion of the regional aquifer beneath the Landfill based on measurements taken on April 1, 2021 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 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 second quarter of 2021.

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 1.65 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.
- HDR Engineering, Inc. (HDR). 2021. Area 8 Development, Monitoring Well Replacement Report. Prepared in association with Udaloy Environmental Consulting (UEC). Cedar Hills Regional Landfill. Contract No. E00284E12. July.
- King County Water and Land Resources Division (WLRD). 2021. Proposal for 2021 Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations; King County Closed Landfills (Cedar Falls, Enumclaw, Hobart, and Vashon Island) and Cedar Hills Regional Landfill. April 15.

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 –Second Quarter 2021
- Table A-2: Groundwater Parameters – Second Quarter 2021
- Figure A-1: Groundwater Potentiometric Surface Map – Second Quarter 2021 – Regional Aquifer

Table A-1: Well Details and Groundwater Elevations – Second Quarter 2021
Cedar Hills Regional Landfill
King County, Washington

							April 1, 2021	
	Well Identificati on	Easting ² (ft)	Northing ² (ft)	Top of Casing Elevation (ft MSL ³)	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	224.35	342.80
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	265.69	330.86
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	237.93	293.35
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	219.90	296.53
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	332.07	315.00
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	360.85	311.02
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	190.58	295.12
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	239.50	291.76
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	134.04	357.67
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	183.79	309.87
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	121.48	353.37
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	143.87	352.94
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	235.73	295.07
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	244.81	286.95
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	248.82	287.22
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	247.50	289.81
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	226.40	287.28
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	308.38	323.77
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	141.91	353.60
	MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.25	320.29
MW-100	1700791.72	169610.46	620.32	319.06	309.06	297.51	322.81	
MW-106	1702536.99	173461.69	475.47	280.04	270.04	189.39	286.08	
MW-113	1698238.80	168478.70	531.09	334.79	325.09	188.61	342.48	
MW-114	1698892.70	167919.80	490.45	353.65	344.05	138.94	351.51	
MW-115	1698960.70	167225.80	484.87	352.87	343.27	128.87	356.00	
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	124.71	295.95
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	144.51	331.48
	MW-22	1701844.34	173088.17	517.09	236.02	231.22	231.40	285.69
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	262.50	284.56
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	278.21	302.22
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	124.78	355.55
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	100.91	355.73
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	148.53	330.74
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	122.91	334.22
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	208.37	337.46
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	244.63	287.77
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.27	292.14
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	231.07	281.75
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	220.25	281.97
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	245.90	286.12
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	199.87	293.77
	WS-NPW-1	1701906.96	171138.99	646.33	282.80	267.90	332.76	313.57
WS-NPW-3	1701922.88	170663.28	645.81	285.00	273.90	331.11	314.70	
Other	MW-69 ⁴	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).
3. Elevations reported in feet (ft) above mean sea level (MSL) based on the National Geodetic Vertical Datum of 1929 (NGVD 29).
4. MW-69 due to be repaired in mid-year 2021.

NM Not measured due to damaged well. Cannot access water level.

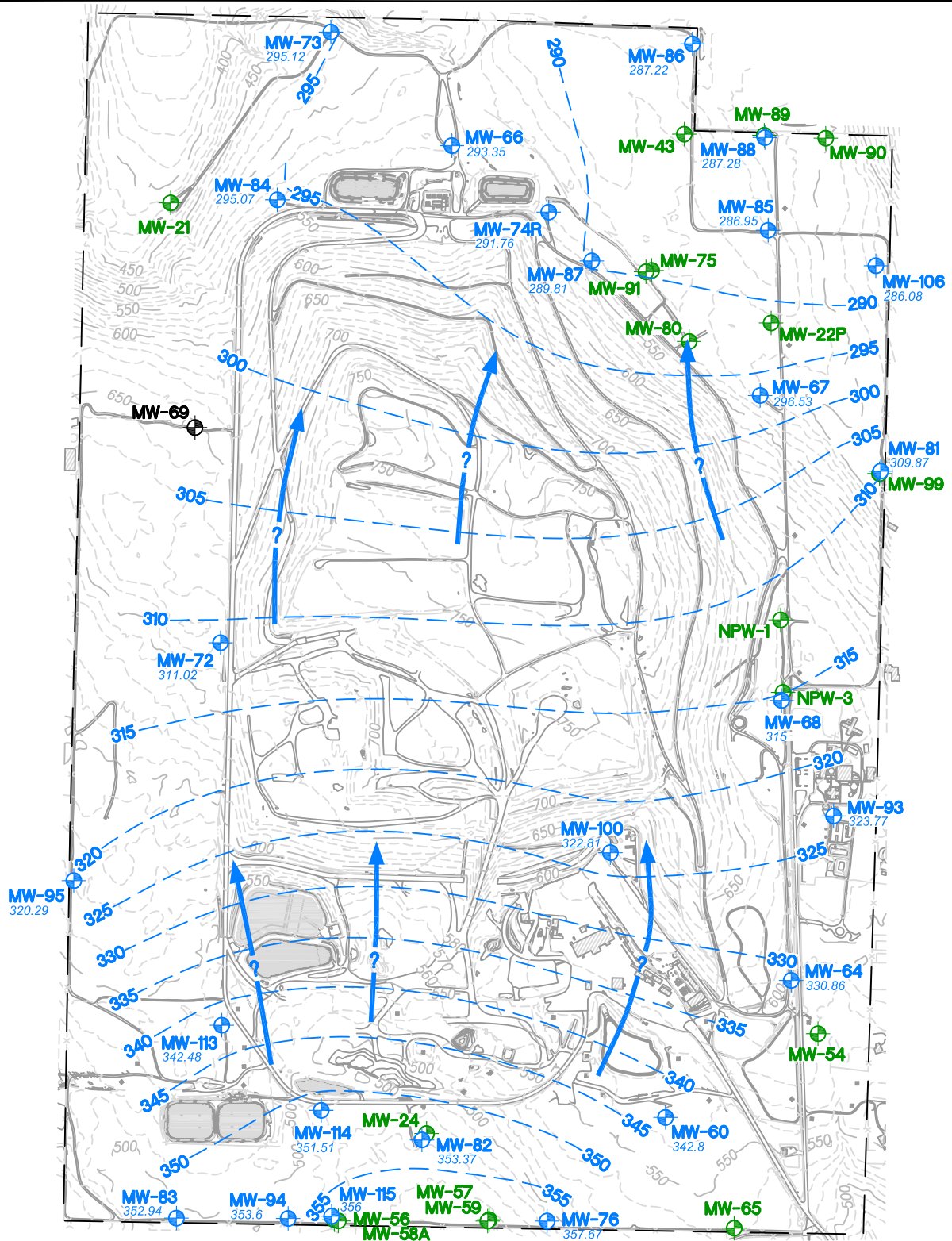
NA Not Applicable

Table A-2: Groundwater Parameters – Second Quarter 2021
 Cedar Hills Regional Landfill
 King County, Washington

Second Quarter 2021 - April 1, 2021							
Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity ^{1,3} (K)			Horizontal Hydraulic Gradient ² (DH/DL)	Effective Porosity ¹ (n _{eff})	Horizontal Groundwater Velocity (v)	General Groundwater Flow Direction
	Range	(cm/s)	(ft/d)	(ft/ft)		(ft/d)	
Northern	Minimum	2.10E-03	6	0.007	24%	0.17	NNW, N, NNE, NE
	Maximum	4.20E-02	120			3.30	
	Mean	2.10E-02	60			1.65	
Central	Minimum	2.10E-03	6	0.008	24%	0.20	N, NNW
	Maximum	4.20E-02	120			4.06	
	Mean	2.10E-02	60			2.03	
Southern	Minimum	6.40E-06	0.018	0.012	26%	0.001	NW, N, NNE
	Maximum	6.40E-04	1.8			0.085	
	Mean	6.40E-05	0.18			0.008	

Notes:

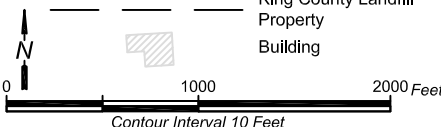
1. Horizontal hydraulic conductivity values and effective porosity values from Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010).
 2. Hydraulic gradients calculated using the potentiometric surface map shown on Figure A-1.
 3. Mean hydraulic conductivity values are the geometric mean of the high and low values.
- NNE north-northeast; NNW north-northwest; NE, northeast; NW northwest; 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. Elevation (feet mean sea level) (MSL)
- MW-X** Wells completed in Regional Aquifer with water levels more than 10 feet above the top of screen. Elevation (feet MSL)
- 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

- Pond
- Road
- Ditch
- Fence
- King County Landfill Property
- Building



Notes:
 1. Groundwater measurements made on April 1, 2021.
 2. Only wells completed in the Regional Aquifer with well screen tops within 10 feet of the water table were used for contouring.

Locations surveyed on North American Datum of 1927 (NAD 27).
 Elevations reported in feet above mean sea level based on the National Geodetic Vertical Datum of 1929 (NGVD 29).
 Basemap Layer Data: King County Solid Waste Division



Groundwater Potentiometric Surface Map
Second Quarter 2021 - Regional Aquifer
 Cedar Hills Regional Landfill
 King County, Washington

DATE: July 2021	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 April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-100	4/1/2021	620.32	297.51	322.81	
MW-100	4/12/2021	620.32	297.91	322.41	
MW-101	4/1/2021	474.72	30.15	444.57	
MW-101	4/19/2021	474.72	30.9	443.82	
MW-102	4/1/2021	552.48	44.75	507.73	
MW-102	4/20/2021	552.48	45.45	507.03	
MW-103	4/1/2021	639.08	11.47	627.61	
MW-103	4/16/2021	639.08	11.95	627.13	
MW-104	4/1/2021	629.68	23.29	606.39	
MW-104	4/14/2021	629.68	23.46	606.22	DRY @ 20.21
MW-105	4/1/2021	521.23	19.33	501.9	
MW-107	4/1/2021	589.029	27.75	561.279	
MW-107	4/20/2021	589.03	29.04	559.99	
MW-108	4/1/2021	612.258	14.48	597.778	DRY
MW-108	4/15/2021	612.26	15.43	596.83	
MW-109	4/1/2021	638.728	6.98	631.748	
MW-109	4/15/2021	638.73	7.95	630.78	
MW-110	4/1/2021	641.742	4.44	637.302	
MW-110	4/20/2021	641.74	6.17	635.57	
MW-111	4/1/2021	643.797	7.99	635.807	
MW-111	4/15/2021	643.8	8.85	634.95	
MW-112	4/1/2021	638.929	12.47	626.459	
MW-112	4/14/2021	638.93	12.78	626.15	
MW-113	4/1/2021	531.09	188.61	342.48	
MW-113	4/12/2021	531.09	188.75	342.34	
MW-114	4/1/2021	490.45	138.94	351.51	
MW-114	4/12/2021	490.45	138.95	351.5	
MW-115	4/1/2021	484.87	128.87	356	H2O IN ANNULUS
MW-115	4/13/2021	484.87	129.26	355.61	
MW-21	4/1/2021	420.66	124.71	295.95	
MW-21	4/2/2021	420.66	124.94	295.72	
MW-24	4/1/2021	475.99	144.51	331.48	
MW-24	4/12/2021	475.99	144.94	331.05	
MW-30A	4/1/2021	568.43	27.27	541.16	
MW-30A	4/19/2021	568.43	27.46	540.97	
MW-47	4/1/2021	634.6	15.92	618.68	
MW-47	4/19/2021	634.6	16.99	617.61	
MW-50	4/1/2021	637.02	29.73	607.29	
MW-50	4/14/2021	637.05	29.61	607.44	
MW-56	4/1/2021	480.33	124.78	355.55	
MW-56	4/5/2021	480.33	125.2	355.13	
MW-59	4/1/2021	457.13	122.91	334.22	
MW-59	4/13/2021	457.13	123.32	333.81	
MW-62	4/1/2021	556.21	50.47	505.74	H2O IN ANNULUS
MW-62	4/20/2021	556.21	51.82	504.39	
MW-64	4/1/2021	596.55	265.69	330.86	
MW-64	4/5/2021	596.55	265.83	330.72	
MW-65	4/1/2021	545.83	208.37	337.46	
MW-65	4/13/2021	545.83	208.84	336.99	
MW-66	4/1/2021	531.28	237.93	293.35	
MW-66	4/2/2021	531.28	238.22	293.06	
MW-67	4/1/2021	516.43	219.9	296.53	

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-67	6/30/2021	516.43	220.52	295.91	
MW-68	4/1/2021	647.07	332.07	315	
MW-68	4/15/2021	647.07	332.25	314.82	NEEDS TO BE FIXED
MW-69	4/1/2021	653.69			
MW-72	4/1/2021	671.87	360.85	311.02	

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground-Water Elevation (msl)	Comment
MW-72	4/6/2021	671.87	361.24	310.63	
MW-73	4/1/2021	485.7	190.58	295.12	
MW-73	4/2/2021	485.7	190.79	294.91	
MW-74R	4/1/2021	531.26	239.5	291.76	
MW-74R	4/9/2021	531.26	239.85	291.41	NEEDS TO BE FIXED
MW-75	4/1/2021	532.4	244.63	287.77	
MW-75	4/9/2021	532.4	145.05	387.35	
MW-76	4/1/2021	491.71	134.04	357.67	
MW-76	4/13/2021	491.71	134.77	356.94	
MW-80	4/1/2021	530.41	238.27	292.14	
MW-80	4/15/2021	530.41	238.5	291.91	
MW-81	4/1/2021	493.66	183.79	309.87	
MW-81	4/5/2021	493.66	184.07	309.59	
MW-82	4/1/2021	474.85	121.48	353.37	
MW-82	4/12/2021	474.85	121.76	353.09	
MW-83	4/1/2021	496.81	143.87	352.94	
MW-83	4/13/2021	496.81	144.12	352.69	
MW-84	4/1/2021	530.8	235.73	295.07	
MW-84	4/5/2021	530.8	236.04	294.76	
MW-85	4/1/2021	531.76	244.81	286.95	
MW-85	4/6/2021	531.76	245.05	286.71	
MW-86	4/1/2021	536.04	248.82	287.22	
MW-86	4/6/2021	536.04	248.92	287.12	
MW-87	4/1/2021	537.31	247.5	289.81	
MW-87	4/9/2021	537.31	247.84	289.47	
MW-87	6/11/2021	537.31	247.77	289.54	
MW-88	4/1/2021	513.68	226.4	287.28	
MW-88	4/12/2021	513.68	226.75	286.93	
MW-89	4/1/2021	512.82	231.07	281.75	Pulled pump for DTW
MW-89	4/12/2021	512.82	281.37	281.37	
MW-90	4/1/2021	502.22	220.25	281.97	
MW-93	4/1/2021	632.15	308.38	323.77	
MW-93	4/5/2021	632.15	308.75	323.4	

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Field Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	pH	Conductance	Temperature	Purge Volume	Dissolved Oxygen	ORP
			(Field)	(Field)	(Field)	(Field)	(Field)	(Field)
			(std. Units)	(umhos/cm)	(°C)	(gal)	(mg/L)	mV
MW-21	W21-210402-	4/2/2021	7.55	133.4	8.981	1.75	1.58	-30
MW-24	W24-210412-	4/12/2021	6.95	166.4	9.732	2.75	1.15	61.1
MW-56	W56-210405-	4/5/2021	6.55	228.7	9.513	43.23		
MW-59	W59-210413-	4/13/2021	6.62	200.4	9.48	4	0.82	-56.1
MW-64	W64-210405-	4/5/2021	6.68	194.3	11.06	5.25	1.31	188
MW-65	W65-210413-	4/13/2021	6.63	138.2	9.32	3.6	0.87	-32
MW-66	W66-210402-	4/2/2021	6.82	191.9	9.43	3.75	5.25	245.5
MW-73	W73-210402-	4/2/2021	6.49	125.9	9.21	2.4	9.41	277.7
MW-76	W76-210413-	4/13/2021	6.2	273.4	9.59	2.75	3.88	259.5
MW-81	W81-210405-	4/5/2021	6.99	158	9.75	2.6	5.58	273.3
MW-82	W82-210412-	4/12/2021	6.7	266.7	9.89	4.75	7.01	342.9
MW-83	W83-210413-	4/13/2021	6.57	546.2	10.57	4.75	0.83	409.4
MW-84	W84-210405-	4/5/2021	6.76	189.3	9.63	5.5	0.87	172.3
MW-94	W94-210413-	4/13/2021	6.37	325.1	9.602	3.25	4.74	407
MW-113	W113210412-	4/12/2021	7.18	377.2	10.41	5.75	0.5	-84.2
MW-114	W114210412-	4/12/2021	6.82	276.4	9.69	2.8	4.75	174
MW-115	W115210413-	4/13/2021	6.48	190.7	9.52	1	9.56	390.1
MW-67	W67-210630-	6/30/2021	6.67	408.8	9.874	9.1	1.65	197.1
MW-72	W72-210406-	4/6/2021	6.91	312.1	10.24	4.5	1.25	104.2
MW-74R	W74R210409-	4/9/2021	6.79	499.5	9.49	3.5	5.05	260
MW-75	W75-210409-	4/9/2021	6.79	349.5	9.438	5	0.79	87.7
MW-80	W80-210415-	4/15/2021	7.02	292.1	10.3	4.5	0.76	-65.5
MW-85	W85-210406-	4/6/2021	6.83	342.5	8.96	4.25	2.83	267.5
MW-86	W86-210406-	4/6/2021	6.88	183.1	8.91	5	1.1	-11.9
MW-87	W87-210611-	6/11/2021	6.38	516	11.2	4	1.15	-30.1
MW-88	W88-210412-	4/12/2021	6.82	116.1	9.264	3	5.23	346
MW-89	W89-210412-	4/12/2021	7.02	227.9	9.03	3	1.99	130.8
MW-100	W100210412-	4/12/2021	6.71	254.1	10.76	6.5	0.77	16.9
MW-68	W68-210415-	4/15/2021	6.92	251.7	10.24	5.5	0.79	-1.4
MW-93	W93-210405-	4/5/2021	7.06	290.8	10.74	5	1.35	266.2
MW-95	W95-210406-	4/6/2021	7.16	207.4	9.202	5	1.18	391.8
MW-EB6	WEB6210414-	4/14/2021	6.1	96.5	9.25			
MW-30A	W30A210419-	4/19/2021	6.13	216.7	11.892	5		
MW-47	W47-210419-	4/19/2021	6.6	851.7	11.241	19.44		
MW-62	W62-210420-	4/20/2021	6.22	159.9	10.373	1.44		
MW-102	W102210420-	4/20/2021	6.76	162.5	10.39	2.1		
MW-103	W103210416-	4/16/2021	8.02	249.8	10.6	7.7		
MW-107	W107210420-	4/20/2021	5.5	203.9	11.8	2.2		
MW-108	W108210415-	4/15/2021	6.61	325.2	11.48	1.28		
MW-109	W109210415-	4/15/2021	7.06	3727	11.4			
MW-110	W110210420-	4/20/2021	6.23	684	12.22	6.3		
MW-111	W111210415-	4/15/2021	5.63	77.8	10.836			
MW-112	W112210414-	4/14/2021	7.5	239.2	16.66	0.75		
MW-101	W101210419-	4/19/2021	7.07	464	11.69	4.25		

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Field Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Turbidity
			(Field) NTU
MW-21	W21-210402-	4/2/2021	6.8
MW-24	W24-210412-	4/12/2021	0.77
MW-56	W56-210405-	4/5/2021	0.5
MW-59	W59-210413-	4/13/2021	0.49
MW-64	W64-210405-	4/5/2021	1.45
MW-65	W65-210413-	4/13/2021	24.3
MW-66	W66-210402-	4/2/2021	0.3
MW-73	W73-210402-	4/2/2021	146
MW-76	W76-210413-	4/13/2021	0.24
MW-81	W81-210405-	4/5/2021	0.31
MW-82	W82-210412-	4/12/2021	2.02
MW-83	W83-210413-	4/13/2021	0.34
MW-84	W84-210405-	4/5/2021	0.39
MW-94	W94-210413-	4/13/2021	0.26
MW-113	W113210412-	4/12/2021	0.26
MW-114	W114210412-	4/12/2021	0.51
MW-115	W115210413-	4/13/2021	8.67
MW-67	W67-210630-	6/30/2021	5.42
MW-72	W72-210406-	4/6/2021	28.5
MW-74R	W74R210409-	4/9/2021	0.35
MW-75	W75-210409-	4/9/2021	1
MW-80	W80-210415-	4/15/2021	1.64
MW-85	W85-210406-	4/6/2021	0.64
MW-86	W86-210406-	4/6/2021	0.75
MW-87	W87-210611-	6/11/2021	122
MW-88	W88-210412-	4/12/2021	0.44
MW-89	W89-210412-	4/12/2021	3.63
MW-100	W100210412-	4/12/2021	25.4
MW-68	W68-210415-	4/15/2021	7.38
MW-93	W93-210405-	4/5/2021	0.64
MW-95	W95-210406-	4/6/2021	0.14
MW-EB6	WEB6210414-	4/14/2021	8.32
MW-30A	W30A210419-	4/19/2021	4.63
MW-47	W47-210419-	4/19/2021	0.33
MW-62	W62-210420-	4/20/2021	4.14
MW-102	W102210420-	4/20/2021	14.3
MW-103	W103210416-	4/16/2021	16
MW-107	W107210420-	4/20/2021	1.04
MW-108	W108210415-	4/15/2021	1.51
MW-109	W109210415-	4/15/2021	59.2
MW-110	W110210420-	4/20/2021	0.22
MW-111	W111210415-	4/15/2021	1.02
MW-112	W112210414-	4/14/2021	0.29
MW-101	W101210419-	4/19/2021	0.42

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Conventional Data
 Contact Person: Natalya Usova (206) 263-0608

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-21	W21-210402-	4/2/2021	61.9	0.027	2.43	0.01 U	145	7.69	100 B	0.5 U	97.3	1.56
MW-24	W24-210412-	4/12/2021	68.1	0.0307	6.07	0.01 U	182	13.4	120	0.5 U	117	2.6
MW-56	W56-210405-	4/5/2021	85.3	0.002 U	20.5	0.381	259	8.66	153 B	0.87 T	160	0.5 U
MW-59	W59-210413-	4/13/2021	73.3	0.0064 T	11.1	0.02 U	216	15	141	0.5 U	137	0.9 T
MW-64	W64-210405-	4/5/2021	93.3	0.0255	2.78	0.01 U	215	13.4	129 B	0.5 U	132	0.8 T
MW-65	W65-210413-	4/13/2021	53.3	0.0046 T	5.88	0.02 U	145	8.88	95.3	0.5 U	104	8.53
MW-66	W66-210402-	4/2/2021	85.8	0.002 U	4.26	0.464	215	14.1	136 B	0.5 U	134	0.5 U
MW-73	W73-210402-	4/2/2021	51	0.002 U	2.25	1.16	136	7.8	106 B	0.5 U	294	189
MW-76	W76-210413-	4/13/2021	91	0.002 U	22.9	0.861	297	14.3	191	3.88	194	0.5 U
MW-81	W81-210405-	4/5/2021	58.6	0.002 U	5.06	1.59	170	11.1	118 B	0.5 U	129	0.5 U
MW-82	W82-210412-	4/12/2021	118	0.002 U	11.1	1.09	305	14.8	191	0.56 T	191	3.92
MW-83	W83-210413-	4/13/2021	197	0.002 T	70.5	0.5	621	11.7	389	5.27	397	0.5 U
MW-84	W84-210405-	4/5/2021	80.7	0.002 U	3.87	0.136	204	15.9	133 B	0.5 U	143	0.5 U
MW-94	W94-210413-	4/13/2021	132	0.002 U	26.4	0.916	369	8.14	247	3.35	236	0.54 U
MW-113	W113210412-	4/12/2021	148	0.0144	30.9	0.01 U	405	10.9	248	1.63	244	1.5
MW-114	W114210412-	4/12/2021	105	0.002 U	19.6	1.88	300	7.14	191	0.7 T	191	0.51 U
MW-115	W115210413-	4/13/2021	100	0.002 U	23.2	0.717	302	9.55	197	0.95 T	198	0.5 U
MW-67	W67-210630-	6/30/2021	162	0.0074 T	4.99	0.0812	379	29	233	0.5 U	240	5.4
MW-72	W72-210406-	4/6/2021	131	0.0166	7.48	0.01 U	346	36.2	221	0.5 U	231	14
MW-74R	W74R210409-	4/9/2021	226	0.0042 T	27.6	0.278	570	38.3	338	0.5 U	346	0.5 U
MW-75	W75-210409-	4/9/2021	115	0.0092 T	12.1	0.01 U	392	64.5	252	0.5 U	260	4.1
MW-80	W80-210415-	4/15/2021	122	0.0094 T	4.46	0.01 U	308	29.9	199	0.5 U	209	4.2
MW-85	W85-210406-	4/6/2021	155	0.002 U	10.3	0.1	388	33.9	235	0.5 U	241	0.53 U
MW-86	W86-210406-	4/6/2021	74	0.002 U	4.38	0.01 U	203	21.2	146 B	0.5 U	132	0.9 T
MW-87	W87-210611-	6/11/2021	117	0.0172	16.9	0.01 U	532	131	359	1.34	437	52.8
MW-88	W88-210412-	4/12/2021	53.9	0.002 U	1.84	0.803	133	6.69	92	0.5 U	90.7	0.5 U
MW-89	W89-210412-	4/12/2021	88.1	0.0208	11.7	0.01 U	255	20.5	157	0.5 U	165	3.8
MW-100	W100210412-	4/12/2021	120	0.0076 T	2.63	0.01 U	272	15.2	157	0.5 U	171	8.2
MW-68	W68-210415-	4/15/2021	123	0.0177	2.99	0.01 U	277	15.2	174	0.5 U	183	3.4
MW-93	W93-210405-	4/5/2021	124	0.0517	2.66	0.022 T	327	40.2	216	0.5 U	213	0.5 U
MW-95	W95-210406-	4/6/2021	91.7	0.024	6.89	0.01 U	234	15.8	147 B	0.5 U	148	0.5 U
MW-EB6	WEB6210414-	4/14/2021	48	0.0739	0.635	0.0845	110	5.13	86.7	1.73	107	20.6
MW-30A	W30A210419-	4/19/2021	78.4	0.002 U	1.01	7.77	236	7.54	181	0.59 T	178	1.7
MW-47	W47-210419-	4/19/2021	520	0.0507	7.62	0.01 U	934	10.2	591	3.56	603	6.1
MW-62	W62-210420-	4/20/2021	58.5	0.002 U	4.52	2.13	173	10.1	121	0.96 T	112	3.3
MW-102	W102210420-	4/20/2021	71.1	0.002 U	5.73	1.1	182	7.08	134	0.77 T	145	4.5
MW-103	W103210416-	4/16/2021	117	0.002 U	4.94	0.037 T	262	9.85	180	0.6 T	189	24.6
MW-107	W107210420-	4/20/2021	91.8	0.938	2.37	0.01 U	208	4.7	131	4.63	145	9.6
MW-108	W108210415-	4/15/2021	114	0.002 U	1.61	0.621	336	49.4	227	0.5 U	237	0.8 T

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Conventional Data
 Contact Person: Natalya Usova (206) 263-0608

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-109	W109210415-	4/15/2021	2530	0.405	3.1 T	0.1 U	3880	0.36 T	3090	151	3170	5.36
MW-110	W110210420-	4/20/2021	403	0.0381	2.17	0.01 U	729	5.63	449	2.86	449	1 U
MW-111	W111210415-	4/15/2021	32.8	0.002 U	0.749	0.938	95.6	8.15	76.7	0.55 T	78	0.52 U
MW-112	W112210414-	4/14/2021	109	0.0177	5.02	0.0969	284	27.6	198	0.5 U	201	0.52 U
MW-101	W101210419-	4/19/2021	266	0.0157	2.48	0.01 U	500	3.94	321	4.29	324	1.1

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Cadmium	Cadmium	Calcium
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-21	W21-210402-	4/2/2021	0.0003 U	0.0003 U	0.000852	0.000966	0.00514	0.00524	0.0001 U	0.0001 U	5E-05 U	5E-05 U	12.7
MW-24	W24-210412-	4/12/2021	0.0003 U	0.0003 U	0.00056	0.000551	0.00219	0.00205	0.0001 U	0.0001 U	5E-05 U	5E-05 U	15
MW-56	W56-210405-	4/5/2021	0.0003 U	0.0003 U	0.0000735	0.0000735	0.00599	0.00575	0.0001 U	0.0001 U	5E-05 U	5E-05 U	25.9
MW-59	W59-210413-	4/13/2021	0.0003 U	0.0003 U	0.000422	0.00044	0.0042	0.00409	0.0001 U	0.0001 U	5E-05 U	5E-05 U	18.5
MW-64	W64-210405-	4/5/2021	0.0003 U	0.0003 U	0.000737	0.000859	0.00635	0.00772	0.0001 U	0.0001 U	5E-05 U	5E-05 U	16.8
MW-65	W65-210413-	4/13/2021	0.0003 U	0.0003 U	0.000356	0.000811	0.00578	0.0061	0.0001 U	0.0001 U	5E-05 U	5E-05 U	12
MW-66	W66-210402-	4/2/2021	0.0003 U	0.0003 U	0.000679	0.00068	0.00419	0.00413	0.0001 U	0.0001 U	5E-05 U	5E-05 U	16.5
MW-73	W73-210402-	4/2/2021	0.0003 U	0.0003 U	0.000689	0.00151	0.0037	0.0225	0.0001 U	0.000204	5E-05 U	5E-05 U	11.9
MW-76	W76-210413-	4/13/2021	0.0003 U	0.0003 U	0.000216	0.000223	0.00434	0.00458	0.0001 U	0.0001 U	5E-05 U	5E-05 U	24.2
MW-81	W81-210405-	4/5/2021	0.0003 U	0.0003 U	5.14E-04	0.000496	0.00329	0.00303	0.0001 U	0.0001 U	5E-05 U	5E-05 U	14.5
MW-82	W82-210412-	4/12/2021	0.0003 U	0.0003 U	0.00023	0.000248	0.00112	0.00136	0.0001 U	0.0001 U	5E-05 U	5E-05 U	25.5
MW-83	W83-210413-	4/13/2021	0.0003 U	0.0003 U	0.000295	0.000291	0.00812	0.00766	0.0001 U	0.0001 U	5E-05 U	5E-05 U	64.2
MW-84	W84-210405-	4/5/2021	0.0003 U	0.0003 U	0.000321	0.000301	0.0051	0.00488	0.0001 U	0.0001 U	5E-05 U	5E-05 U	15.8
MW-94	W94-210413-	4/13/2021	0.0003 U	0.0003 U	0.000118	0.000113	0.00232	0.00223	0.0001 U	0.0001 U	5E-05 U	5E-05 U	37.4
MW-113	W113210412-	4/12/2021	0.0003 U	0.0003 U	0.000517	0.000531	0.00206	0.00218	0.0001 U	0.0001 U	5E-05 U	5E-05 U	35
MW-114	W114210412-	4/12/2021	0.0003 U	0.0003 U	0.000263	0.000278	0.00184	0.00198	0.0001 U	0.0001 U	5E-05 U	5E-05 U	26.7
MW-115	W115210413-	4/13/2021	0.0003 U	0.0003 U	0.000181	0.00019	0.001	0.00102	0.0001 U	0.0001 U	5E-05 U	5E-05 U	30.3
MW-67	W67-210630-	6/30/2021	0.0003 U	0.0003 U	0.000386	0.000694	0.0133	0.0144	0.0001 U	0.0001 U	5E-05 U	5E-05 U	39.2
MW-72	W72-210406-	4/6/2021	0.0003 U	0.0003 U	0.0000739	0.000131	0.0118	0.0126	0.0001 U	0.0001 U	5E-05 U	5E-05 U	31.8
MW-74R	W74R210409-	4/9/2021	0.0003 U	0.0003 U	0.000375	0.000408	0.0129	0.0122	0.0001 U	0.0001 U	5E-05 U	5E-05 U	47.6
MW-75	W75-210409-	4/9/2021	0.0003 U	0.0003 U	0.000431	0.000426	0.0126	0.013	0.0001 U	0.0001 U	5E-05 U	5E-05 U	31.2
MW-80	W80-210415-	4/15/2021	0.0003 U	0.0003 U	0.00292	0.0031	0.0141	0.0137	0.0001 U	0.0001 U	5E-05 U	5E-05 U	31.3
MW-85	W85-210406-	4/6/2021	0.0003 U	0.0003 U	0.000706	0.000704	0.00723	0.00672	0.0001 U	0.0001 U	5E-05 U	5E-05 U	36.3
MW-86	W86-210406-	4/6/2021	0.0003 U	0.0003 U	0.00078	0.00082	0.00543	0.00561	0.0001 U	0.0001 U	5E-05 U	5E-05 U	16.1
MW-87	W87-210611-	6/11/2021	0.0003 U	0.0003 U	0.000618	0.0207	0.0259	0.0382	0.0001 U	0.000147	5E-05 U	0.0000684	47.6
MW-88	W88-210412-	4/12/2021	0.0003 U	0.0003 U	0.000977	0.000991	0.00224	0.00217	0.0001 U	0.0001 U	5E-05 U	5E-05 U	9.35
MW-89	W89-210412-	4/12/2021	0.0003 U	0.0003 U	0.000788	0.00114	0.0078	0.00837	0.0001 U	0.0001 U	5E-05 U	5E-05 U	19
MW-100	W100210412-	4/12/2021	0.0003 U	0.0003 U	0.000305	0.00283	0.00519	0.00617	0.0001 U	0.0001 U	5E-05 U	5E-05 U	23.3
MW-68	W68-210415-	4/15/2021	0.0003 U	0.0003 U	0.000895	0.0426	0.0104	0.0107	0.0001 U	0.0001 U	5E-05 U	5E-05 U	27.2
MW-93	W93-210405-	4/5/2021	0.0003 U	0.0003 U	0.0014	0.00138	0.00776	0.00762	0.0001 U	0.0001 U	5E-05 U	5E-05 U	31.8
MW-95	W95-210406-	4/6/2021	0.0003 U	0.0003 U	0.00102	0.000993	0.00422	0.00415	0.0001 U	0.0001 U	5E-05 U	5E-05 U	22
MW-EB6	WEB6210414-	4/14/2021	0.0003 U	0.0003 U	0.0016	0.00184	0.0058	0.00878	0.0001 U	0.0001 U	5E-05 U	0.0000669	6.56
MW-30A	W30A210419-	4/19/2021	0.0003 U	0.0003 U	0.000485	0.00059	0.0035	0.00404	0.0001 U	0.0001 U	5E-05 U	5E-05 U	19.2
MW-47	W47-210419-	4/19/2021	0.0003 U	0.0003 U	0.00363	0.00363	0.0323	0.0312	0.0001 U	0.0001 U	5E-05 U	5E-05 U	117
MW-62	W62-210420-	4/20/2021	0.0003 U	0.0003 U	0.000146	0.000179	0.00195	0.00264	0.0001 U	0.0001 U	5E-05 U	5E-05 U	16.1
MW-102	W102210420-	4/20/2021	0.0003 U	0.0003 U	0.000192	0.000298	0.004	0.00633	0.0001 U	0.0001 U	5E-05 U	5E-05 U	17
MW-103	W103210416-	4/16/2021	0.0003 U	0.0003 U	0.000718	0.0075	0.00937	0.0142	0.0001 U	0.0001 U	5E-05 U	5E-05 U	24.8
MW-107	W107210420-	4/20/2021	0.0003 U	0.0003 U	0.00624	0.00618	0.0102	0.0108	0.0001 U	0.0001 U	5E-05 U	5E-05 U	21.7
MW-108	W108210415-	4/15/2021	0.0003 U	0.0003 U	0.0015	0.00149	0.0104	0.00994	0.0001 U	0.0001 U	5E-05 U	5E-05 U	24

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Antimony	Antimony	Arsenic	Arsenic	Barium	Barium	Beryllium	Beryllium	Cadmium	Cadmium	Calcium
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-109	W109210415-	4/15/2021	0.000655	0.000748	0.0341	0.038	0.168	0.17	0.000793	0.000802	0.0000528	0.000108	35.8
MW-110	W110210420-	4/20/2021	0.0003 U	0.0003 U	0.00154	0.00163	0.0242	0.0251	0.0001 U	0.0001 U	0.000105	0.000102	71.9
MW-111	W111210415-	4/15/2021	0.0003 U	0.0003 U	0.000708	0.000701	0.00485	0.00474	0.0001 U	0.0001 U	5E-05 U	5E-05 U	8.18
MW-112	W112210414-	4/14/2021	0.0003 U	0.0003 U	0.0028	0.00282	0.0075	0.00751	0.0001 U	0.0001 U	5E-05 U	5E-05 U	25.9
MW-101	W101210419-	4/19/2021	0.0003 U	0.0003 U	0.00434	0.00502	0.0195	0.019	0.0001 U	0.0001 U	5E-05 U	5E-05 U	52

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Calcium	Chromium	Chromium	Cobalt	Cobalt
			Total	Dissolved	Total	Dissolved	Total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-21	W21-210402-	4/2/2021	12.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-24	W24-210412-	4/12/2021	14.9	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-56	W56-210405-	4/5/2021	26.1	0.0002 U	0.0002 U	0.000116	0.000113
MW-59	W59-210413-	4/13/2021	17.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-64	W64-210405-	4/5/2021	16.6	0.0002 U	0.0002 U	0.0000706	0.000295
MW-65	W65-210413-	4/13/2021	11.6	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-66	W66-210402-	4/2/2021	16.5	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-73	W73-210402-	4/2/2021	13.1	0.000215	2.07E-03	5E-05 U	0.000893
MW-76	W76-210413-	4/13/2021	26.5	0.000945	0.00104	0.0000948	0.0000981
MW-81	W81-210405-	4/5/2021	14.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-82	W82-210412-	4/12/2021	27.7	0.000273	0.000956	5E-05 U	5E-05 U
MW-83	W83-210413-	4/13/2021	63.8	0.0002 U	0.0002 U	1.08E-04	0.0000995
MW-84	W84-210405-	4/5/2021	15.7	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-94	W94-210413-	4/13/2021	36.8	0.000211	0.0002 U	0.000109	0.000102
MW-113	W113210412-	4/12/2021	38.6	0.0002 U	0.0002 U	5E-05 U	0.0000547
MW-114	W114210412-	4/12/2021	28.3	0.0002 U	0.0002 U	0.000226	0.00028
MW-115	W115210413-	4/13/2021	29.8	0.0002 U	0.000226	0.0000651	0.0000718
MW-67	W67-210630-	6/30/2021	37.6	0.0002 U	0.000453	0.000137	0.000214
MW-72	W72-210406-	4/6/2021	31.5	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-74R	W74R210409-	4/9/2021	50.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-75	W75-210409-	4/9/2021	31.6	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-80	W80-210415-	4/15/2021	31.1	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-85	W85-210406-	4/6/2021	35.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-86	W86-210406-	4/6/2021	15.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-87	W87-210611-	6/11/2021	48.2	0.0002 U	0.000772	0.000139	0.000182
MW-88	W88-210412-	4/12/2021	9.71	0.000574	0.000575	5E-05 U	5E-05 U
MW-89	W89-210412-	4/12/2021	19.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U
MW-100	W100210412-	4/12/2021	23.7	0.0002 U	0.0002 U	1.73E-04	2.16E-04
MW-68	W68-210415-	4/15/2021	27	0.0002 U	0.0002 U	2.09E-04	2.04E-04
MW-93	W93-210405-	4/5/2021	31.5	0.0002 U	0.0002 U	7.18E-05	9.30E-05
MW-95	W95-210406-	4/6/2021	22	0.0002 U	0.0002 U	6.55E-05	6.74E-05
MW-EB6	WEB6210414-	4/14/2021	6.43	0.000241	0.000838	0.00019	0.000337
MW-30A	W30A210419-	4/19/2021	19.2	0.000674	9.85E-04	5E-05 U	0.000108
MW-47	W47-210419-	4/19/2021	118	0.0002 U	0.0002 U	3.62E-04	0.000347
MW-62	W62-210420-	4/20/2021	15.8	0.000293	0.000669	0.0000516	0.000114
MW-102	W102210420-	4/20/2021	16.7	0.0002 U	0.000978	5E-05 U	0.000233
MW-103	W103210416-	4/16/2021	23.8	0.0002 U	0.000977	5E-05 U	0.00028
MW-107	W107210420-	4/20/2021	21	0.00057	0.00061	0.0036	0.00357
MW-108	W108210415-	4/15/2021	23.7	0.000603	0.000583	5E-05 U	5E-05 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Calcium	Chromium	Chromium	Cobalt	Cobalt
			Total	Dissolved	Total	Dissolved	Total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-109	W109210415-	4/15/2021	36.2	0.167	0.167	1.15E-03	0.00196
MW-110	W110210420-	4/20/2021	71.3	0.0002 U	0.0002 U	0.00231	0.00231
MW-111	W111210415-	4/15/2021	8	0.00193	0.00181	5E-05 U	5E-05 U
MW-112	W112210414-	4/14/2021	25.3	0.000315	0.000317	5E-05 U	5E-05 U
MW-101	W101210419-	4/19/2021	50.2	0.0002 U	0.0002 U	0.000241	0.000236

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Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Copper	Copper	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-21	W21-210402-	4/2/2021	0.0002 U	0.0002 U	1.93	2.68	0.0001 U	0.0001 U	6.97	6.89	0.126	0.129	5E-05 U
MW-24	W24-210412-	4/12/2021	0.0002 U	0.0002 U	3.13	3.12	0.0001 U	0.0001 U	9.41	9.59	0.103	0.0993	5E-05 U
MW-56	W56-210405-	4/5/2021	0.0002 U	0.000211	0.0284	0.0396	0.0001 U	0.0001 U	11.2	11.1	0.123	0.118	5E-05 U
MW-59	W59-210413-	4/13/2021	0.0002 U	0.0002 U	4.47	4.55	0.0001 U	0.0001 U	10.8	11	0.121	0.118	5E-05 U
MW-64	W64-210405-	4/5/2021	0.0002 U	0.0002 U	0.0456	0.107	0.0001 U	0.0001 U	12.6	12.2	0.0667	0.259	5E-05 U
MW-65	W65-210413-	4/13/2021	0.0002 U	0.0002 U	3.31	4.63	0.0001 U	0.0001 U	6.94	6.77	0.152	0.178	5E-05 U
MW-66	W66-210402-	4/2/2021	0.0002 U	0.0002 U	0.01 U	0.01 U	0.0001 U	0.0001 U	13	12.9	0.0001 U	0.0001 U	5E-05 U
MW-73	W73-210402-	4/2/2021	0.0002 U	0.00303	0.01 U	2.33	0.0001 U	0.00519	5.93	6.75	0.000405	0.0983	5E-05 U
MW-76	W76-210413-	4/13/2021	0.00214	0.00202	0.01 U	0.01 U	0.0001 U	0.0001 U	11.2	11	0.0001 U	0.0001 U	5E-05 U
MW-81	W81-210405-	4/5/2021	0.0002 U	0.0002 U	0.01 U	0.01 U	0.0001 U	0.0001 U	8.05	7.75	0.0001 U	0.0001 U	5E-05 U
MW-82	W82-210412-	4/12/2021	0.0002 U	0.000256	0.0122	0.0474	0.0001 U	0.0001 U	15.6	15.2	0.000191	0.000813	5E-05 U
MW-83	W83-210413-	4/13/2021	0.00236	0.00214	0.01 U	0.01 U	0.0001 U	0.0001 U	29	28.5	0.197	0.199	5E-05 U
MW-84	W84-210405-	4/5/2021	0.0002 U	0.0002 U	0.01 U	0.012	0.0001 U	0.0001 U	12.1	12	0.00153	0.00218	5E-05 U
MW-94	W94-210413-	4/13/2021	0.00144	0.00128	0.01 U	0.01 U	0.0001 U	0.0001 U	16.6	16.6	0.000164	0.000289	5E-05 U
MW-113	W113210412-	4/12/2021	0.0002 U	0.0002 U	1.17	1.29	0.0001 U	0.0001 U	19.4	19.7	0.405	0.427	5E-05 U
MW-114	W114210412-	4/12/2021	0.0002 U	0.0002 U	0.01 U	0.0212	0.0001 U	0.0001 U	13.8	13.1	0.000235	0.00101	5E-05 U
MW-115	W115210413-	4/13/2021	0.00024	0.000364	0.01 U	0.021	0.0001 U	0.0001 U	13	12.7	0.00332	0.00355	5E-05 U
MW-67	W67-210630-	6/30/2021	0.0002 U	0.000349	0.336	0.82	0.0001 U	0.000114	22.3	21.6	0.204	0.22	5E-05 U
MW-72	W72-210406-	4/6/2021	0.0002 U	0.000227	2.66	4.95	0.0001 U	0.0001 U	19.9	19.5	0.364	0.347	5E-05 U
MW-74R	W74R210409-	4/9/2021	0.000201	0.000229	0.01 U	0.0205	0.0001 U	0.0001 U	35.9	34.6	0.0001 U	0.000185	5E-05 U
MW-75	W75-210409-	4/9/2021	0.0002 U	0.0002 U	2.67	2.65	0.0001 U	0.0001 U	22.3	22.2	0.227	0.218	5E-05 U
MW-80	W80-210415-	4/15/2021	0.0002 U	0.0002 U	2.16	2.29	0.0001 U	0.0001 U	15.6	15.8	0.347	0.342	5E-05 U
MW-85	W85-210406-	4/6/2021	0.0002 U	0.0002 U	0.01 U	0.0174	0.0001 U	0.0001 U	22.5	21.6	0.0001 U	0.000447	5E-05 U
MW-86	W86-210406-	4/6/2021	0.00271	0.00308	0.964	0.96	0.0001 U	0.0001 U	11.6	11	0.0116	0.0108	5E-05 U
MW-87	W87-210611-	6/11/2021	0.0002 U	0.00132	4.77	23.5	0.0001 U	0.00037	33.2	32.6	0.539	0.564	5E-05 DU
MW-88	W88-210412-	4/12/2021	0.0002 U	0.0002 U	0.01 U	0.01 U	0.0001 U	0.0001 U	7.06	6.46	0.0001 U	0.0001 U	5E-05 U
MW-89	W89-210412-	4/12/2021	0.000417	0.000344	1.24	1.63	0.0001 U	0.0001 U	13.9	13.1	0.312	0.306	5E-05 U
MW-100	W100210412-	4/12/2021	0.0002 U	0.000233	0.57	3.64	0.0001 U	0.0001 U	13.6	13.6	0.107	0.11	5E-05 U
MW-68	W68-210415-	4/15/2021	0.0002 U	0.00119	0.551	1.37	0.0001 U	0.0001 U	14.7	14.8	0.3	0.298	5E-05 U
MW-93	W93-210405-	4/5/2021	0.0002 U	0.000263	0.01 U	0.0165	0.0001 U	0.0001 U	16.8	16.4	0.201	0.19	5E-05 U
MW-95	W95-210406-	4/6/2021	0.0002 U	0.0002 U	0.01 U	0.01 U	0.0001 U	0.0001 U	12	11.8	0.172	0.166	5E-05 U
MW-EB6	WEB6210414-	4/14/2021	0.0029	0.00708	0.0677	0.45	0.0001 U	0.000716	3.53	3.47	0.00859	0.0139	5E-05 U
MW-30A	W30A210419-	4/19/2021	0.0002 U	0.000633	0.01 U	0.259	0.0001 U	0.0001 U	10.4	10.5	0.000204	0.00336	5E-05 U
MW-47	W47-210419-	4/19/2021	0.0002 U	0.0002 U	3.53	3.45	0.0001 U	0.0001 U	55.6	53.9	2.02	1.95	5E-05 U
MW-62	W62-210420-	4/20/2021	0.0002	0.00103	0.01 U	0.308	0.0001 U	0.000203	4.26	4.27	0.000617	0.00413	5E-05 U
MW-102	W102210420-	4/20/2021	0.000247	0.000983	0.01 U	0.425	0.0001 U	0.000206	6.34	6.47	0.000558	0.00713	5E-05 U
MW-103	W103210416-	4/16/2021	0.000489	0.00178	0.01 U	0.424	0.0001 U	0.000482	11	10.6	0.00658	0.15	5E-05 U
MW-107	W107210420-	4/20/2021	0.000982	0.0016	4.15	4.05	0.0001 U	0.0001 U	6.48	6.62	2.98	2.94	5E-05 U
MW-108	W108210415-	4/15/2021	0.000217	0.000246	0.01 U	0.0219	0.0001 U	0.0001 U	10.2	9.98	0.000303	0.000722	5E-05 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Copper	Copper	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-109	W109210415-	4/15/2021	0.0147	0.039	12.8	15.8	0.00121	0.0044	19.4	18.6	2.07 D	2.14 D	5E-05 U
MW-110	W110210420-	4/20/2021	0.000419	0.00045	0.0869	0.0979	0.0001 U	0.0001 U	35.6	37.5	2.85	2.96	5E-05 U
MW-111	W111210415-	4/15/2021	0.0002 U	0.0002 U	0.01 U	0.0145	0.0001 U	0.0001 U	2.5	2.37	0.00202	0.00215	5E-05 U
MW-112	W112210414-	4/14/2021	0.0002 U	0.0002 U	0.01 U	0.0174	0.0001 U	0.0001 U	12.6	12.7	0.0713	0.083	5E-05 U
MW-101	W101210419-	4/19/2021	0.0002 U	0.0002 U	0.391	0.491	0.0001 U	0.0001 U	30.5	30	1.08	1.06	5E-05 U

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Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Mercury Total (mg/L)	Nickel Dissolved (mg/L)	Nickel Total (mg/L)	Potassium Dissolved (mg/L)	Potassium Total (mg/L)
MW-21	W21-210402-	4/2/2021	5E-05 U	0.0001 U	0.000138	1.13	1.12
MW-24	W24-210412-	4/12/2021	5E-05 U	0.0001 U	0.000103	1.04	0.962
MW-56	W56-210405-	4/5/2021	5E-05 U	0.001	0.000902	1.17	1.11
MW-59	W59-210413-	4/13/2021	5E-05 U	0.000147	0.00011	1.21	1.09
MW-64	W64-210405-	4/5/2021	5E-05 U	0.000236	0.000947	1.49	1.39
MW-65	W65-210413-	4/13/2021	5E-05 U	0.000106	0.000124	0.937	0.858
MW-66	W66-210402-	4/2/2021	5E-05 U	0.000135	0.000145	1.14	1.14
MW-73	W73-210402-	4/2/2021	5E-05 U	0.000311	0.00227	0.802	1.16
MW-76	W76-210413-	4/13/2021	5E-05 U	0.000608	0.000583	1.38	1.49
MW-81	W81-210405-	4/5/2021	5E-05 U	0.000121	0.000115	0.867	0.798
MW-82	W82-210412-	4/12/2021	5E-05 U	0.000863	0.00239	1.57	1.73
MW-83	W83-210413-	4/13/2021	5E-05 U	0.00234	0.00213	3.32	3.1
MW-84	W84-210405-	4/5/2021	5E-05 U	0.000339	0.000325	1.16	1.11
MW-94	W94-210413-	4/13/2021	5E-05 U	0.000727	0.000666	2.65	2.52
MW-113	W113210412-	4/12/2021	5E-05 U	0.000239	0.000258	1.77	1.97
MW-114	W114210412-	4/12/2021	5E-05 U	0.000268	0.00031	1.95	2.08
MW-115	W115210413-	4/13/2021	5E-05 U	0.000403	0.000323	2	1.87
MW-67	W67-210630-	6/30/2021	5E-05 U	0.000333	0.000662	1.93	1.87
MW-72	W72-210406-	4/6/2021	5E-05 U	0.0001 U	0.000116	2	1.81
MW-74R	W74R210409-	4/9/2021	5E-05 U	0.000867	0.000822	2.01	2.09
MW-75	W75-210409-	4/9/2021	5E-05 U	0.0001 U	0.0001 U	1.75	1.81
MW-80	W80-210415-	4/15/2021	5E-05 U	0.0001 U	0.0001 U	1.68	1.59
MW-85	W85-210406-	4/6/2021	5E-05 U	0.000209	0.000212	1.75	1.61
MW-86	W86-210406-	4/6/2021	5E-05 U	0.0001 U	0.0001 U	1.27	1.2
MW-87	W87-210611-	6/11/2021	5E-05 DU	0.00018	0.000326	2.38	2.38
MW-88	W88-210412-	4/12/2021	5E-05 U	0.0001 U	0.000106	0.777	0.79
MW-89	W89-210412-	4/12/2021	5E-05 U	0.000136	0.00011	1.57	1.56
MW-100	W100210412-	4/12/2021	5E-05 U	0.000341	0.000403	1.46	1.54
MW-68	W68-210415-	4/15/2021	5E-05 U	0.000414	0.0004	1.69	1.6
MW-93	W93-210405-	4/5/2021	5E-05 U	0.000184	0.000277	1.54	1.43
MW-95	W95-210406-	4/6/2021	5E-05 U	0.000163	0.00017	1.22	1.16
MW-EB6	WEB6210414-	4/14/2021	5E-05 U	0.00155	0.00177	0.902	0.878
MW-30A	W30A210419-	4/19/2021	5E-05 U	0.000602	0.000925	1.33	1.32
MW-47	W47-210419-	4/19/2021	5E-05 U	0.00192	0.0018	4.42	4.2
MW-62	W62-210420-	4/20/2021	5E-05 U	0.000559	0.00101	0.813	0.796
MW-102	W102210420-	4/20/2021	5E-05 U	0.000325	0.000728	1.11	1.15
MW-103	W103210416-	4/16/2021	5E-05 U	0.000249	0.00104	2.73	2.57
MW-107	W107210420-	4/20/2021	5E-05 U	0.00605	0.00628	2.55	2.47
MW-108	W108210415-	4/15/2021	5E-05 U	0.000388	0.000384	1.44	1.32

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Mercury Total (mg/L)	Nickel Dissolved (mg/L)	Nickel Total (mg/L)	Potassium Dissolved (mg/L)	Potassium Total (mg/L)
MW-109	W109210415-	4/15/2021	0.0000633	0.0158	0.0168	2.71	2.64
MW-110	W110210420-	4/20/2021	5E-05 U	0.00519	0.00522	3.02	2.97
MW-111	W111210415-	4/15/2021	5E-05 U	0.00165	0.00146	0.313	0.295
MW-112	W112210414-	4/14/2021	5E-05 U	0.000148	0.000123	2.78	2.61
MW-101	W101210419-	4/19/2021	5E-05 U	0.00322	0.00303	2.67	2.55

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Selenium Dissolved (mg/L)	Selenium Total (mg/L)	Silver Dissolved (mg/L)	Silver Total (mg/L)	Sodium Dissolved (mg/L)	Sodium Total (mg/L)	Thallium Dissolved (mg/L)	Thallium Total (mg/L)	Vanadium Dissolved (mg/L)	Vanadium Total (mg/L)	Zinc Dissolved (mg/L)
MW-21	W21-210402-	4/2/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.12	6.1	0.0001 U	0.0001 U	7.5E-05 U	0.0000828	0.0005 U
MW-24	W24-210412-	4/12/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.8	5.88	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.0005 U
MW-56	W56-210405-	4/5/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.31	6.43	0.0001 U	0.0001 U	0.000161 D	0.000189	0.000933
MW-59	W59-210413-	4/13/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.36	6.46	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.000622
MW-64	W64-210405-	4/5/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.17	7	0.0001 U	0.0001 U	0.000184 D	0.00023	0.0005 U
MW-65	W65-210413-	4/13/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.32	5.26	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.0005 U
MW-66	W66-210402-	4/2/2021	0.000921	0.00094	4E-05 U	4E-05 U	7.32	7.43	0.0001 U	0.0001 U	0.000836	0.000839	0.0005 U
MW-73	W73-210402-	4/2/2021	0.0005 U	0.00111	4E-05 U	0.0000422	5.7	5.77	0.0001 U	0.0001 U	0.00134	0.00413	0.0005 U
MW-76	W76-210413-	4/13/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	11.3	11.3	0.0001 U	0.0001 U	5.12E-04	0.000609	0.0005 U
MW-81	W81-210405-	4/5/2021	0.000844	0.000823	4E-05 U	4E-05 U	6.63	6.55	0.0001 U	0.0001 U	0.00162 D	1.58E-03	0.0005 U
MW-82	W82-210412-	4/12/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.66	7.52	0.0001 U	0.0001 U	0.00117	0.00123	0.0005 U
MW-83	W83-210413-	4/13/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	12.4	12.6	0.0001 U	0.0001 U	0.000771	0.000754	0.000639
MW-84	W84-210405-	4/5/2021	0.000704	0.000673	4E-05 U	4E-05 U	7.08	7.09	0.0001 U	0.0001 U	0.000482 D	0.000505	0.00112
MW-94	W94-210413-	4/13/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.28	9.26	0.0001 U	0.0001 U	0.00113	0.00112	0.0005 U
MW-113	W113210412-	4/12/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.53	8.87	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.0005 U
MW-114	W114210412-	4/12/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.48	6.37	0.0001 U	0.0001 U	0.00076	0.00083	0.0005 U
MW-115	W115210413-	4/13/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.51	7.39	0.0001 U	0.0001 U	0.000527	0.000543	0.0005 U
MW-67	W67-210630-	6/30/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.94	9.57	7.5E-05 U	7.5E-05 U	0.000271	0.00056	0.000677
MW-72	W72-210406-	4/6/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.41	8.32	0.0001 U	0.0001 U	7.5E-05 DU	7.5E-05 U	0.000745
MW-74R	W74R210409-	4/9/2021	0.000763	0.000625	4E-05 U	4E-05 U	12.2	12	0.0001 U	0.0001 U	0.000561	0.000605	0.0005 U
MW-75	W75-210409-	4/9/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.67	8.84	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.0005 U
MW-80	W80-210415-	4/15/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.99	8.12	0.0001 U	0.0001 U	7.5E-05 U	0.0000849	0.000855
MW-85	W85-210406-	4/6/2021	0.000934	0.000847	4E-05 U	4E-05 U	9.96	9.73	0.0001 U	0.0001 U	0.000948 D	0.000932	0.000567
MW-86	W86-210406-	4/6/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.12	6.99	0.0001 U	0.0001 U	8E-05 D	7.5E-05 U	0.00387
MW-87	W87-210611-	6/11/2021	0.0005 U	0.000701	4E-05 U	4E-05 U	11.2	11.3	7.5E-05 U	7.5E-05 U	7.5E-05 U	0.00464	0.00063
MW-88	W88-210412-	4/12/2021	0.00052	0.000532	4E-05 U	4E-05 U	5.71	5.24	0.0001 U	0.0001 U	0.0026	0.0026	0.0005 U
MW-89	W89-210412-	4/12/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.84	8.35	0.0001 U	0.0001 U	7.5E-05 U	0.000114	0.0137
MW-100	W100210412-	4/12/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.75	7.88	0.0001 U	0.0001 U	7.5E-05 U	0.0000893	0.000527
MW-68	W68-210415-	4/15/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.81	9.07	0.0001 U	0.0001 U	0.000248	0.000819	0.0005 U
MW-93	W93-210405-	4/5/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.57	9.47	0.0001 U	0.0001 U	0.00221 D	0.00213	0.00224
MW-95	W95-210406-	4/6/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.26	6.23	0.0001 U	0.0001 U	0.000277 D	0.000288	0.0005 U
MW-EB6	WEB6210414-	4/14/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	12	11.8	0.0001 U	0.0001 U	0.00313	0.00398	0.00121
MW-30A	W30A210419-	4/19/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	12.9	12.9	0.0001 U	0.0001 U	0.00213	0.00259	0.000739
MW-47	W47-210419-	4/19/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	18.6	18.2	0.0001 U	0.0001 U	0.000245	0.000255	0.0005 U
MW-62	W62-210420-	4/20/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	11.5	11.4	0.0001 U	0.0001 U	0.000616	0.000768	0.00139
MW-102	W102210420-	4/20/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	10.7	10.5	0.0001 U	0.0001 U	0.000892	0.00162	0.0005 U
MW-103	W103210416-	4/16/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	14.9	14.9	0.0001 U	0.0001 U	0.00188	0.00265	0.000593
MW-107	W107210420-	4/20/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.49	7.49	0.0001 U	0.0001 U	0.00128	0.00134	0.00331
MW-108	W108210415-	4/15/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	31.2	33	0.0001 U	0.0001 U	0.00275	0.00274	0.0005 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Selenium	Selenium	Silver	Silver	Sodium	Sodium	Thallium	Thallium	Vanadium	Vanadium	Zinc
			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-109	W109210415-	4/15/2021	0.00156	0.00344	0.0000948	0.0000682	1200 D	1160 D	0.0001 U	0.0001 U	0.571 D	0.568 D	0.00247
MW-110	W110210420-	4/20/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	37.8	39.1	0.0001 U	0.0001 U	0.00101	0.00102	0.0005 U
MW-111	W111210415-	4/15/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	5.52	5.38	0.0001 U	0.0001 U	0.000996	0.000941	0.0005 U
MW-112	W112210414-	4/14/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	16.6	16.7	0.0001 U	0.0001 U	0.000662	0.000598	0.0005 U
MW-101	W101210419-	4/19/2021	0.0005 U	0.0005 U	4E-05 U	4E-05 U	16.6	16.5	0.0001 U	0.0001 U	0.000353	0.000291	0.0005 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Metals Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Zinc Total (mg/L)
MW-21	W21-210402-	4/2/2021	0.0005 U
MW-24	W24-210412-	4/12/2021	0.0005 U
MW-56	W56-210405-	4/5/2021	0.000987
MW-59	W59-210413-	4/13/2021	0.000633
MW-64	W64-210405-	4/5/2021	0.0005 U
MW-65	W65-210413-	4/13/2021	0.0005 U
MW-66	W66-210402-	4/2/2021	0.0005 U
MW-73	W73-210402-	4/2/2021	0.00785
MW-76	W76-210413-	4/13/2021	0.0005 U
MW-81	W81-210405-	4/5/2021	0.0005 U
MW-82	W82-210412-	4/12/2021	0.00056
MW-83	W83-210413-	4/13/2021	0.000626
MW-84	W84-210405-	4/5/2021	0.00124
MW-94	W94-210413-	4/13/2021	0.0005 U
MW-113	W113210412-	4/12/2021	0.0005 U
MW-114	W114210412-	4/12/2021	0.0005 U
MW-115	W115210413-	4/13/2021	0.0005 U
MW-67	W67-210630-	6/30/2021	0.00165
MW-72	W72-210406-	4/6/2021	0.000808
MW-74R	W74R210409-	4/9/2021	0.0005 U
MW-75	W75-210409-	4/9/2021	0.0005 U
MW-80	W80-210415-	4/15/2021	0.00213
MW-85	W85-210406-	4/6/2021	0.000704
MW-86	W86-210406-	4/6/2021	0.00404
MW-87	W87-210611-	6/11/2021	0.00244
MW-88	W88-210412-	4/12/2021	0.0005 U
MW-89	W89-210412-	4/12/2021	0.0146
MW-100	W100210412-	4/12/2021	0.0013
MW-68	W68-210415-	4/15/2021	0.000654
MW-93	W93-210405-	4/5/2021	0.00404
MW-95	W95-210406-	4/6/2021	0.0005 U
MW-EB6	WEB6210414-	4/14/2021	0.00333
MW-30A	W30A210419-	4/19/2021	0.00088
MW-47	W47-210419-	4/19/2021	0.0005 U
MW-62	W62-210420-	4/20/2021	0.00333
MW-102	W102210420-	4/20/2021	0.00119
MW-103	W103210416-	4/16/2021	0.00476
MW-107	W107210420-	4/20/2021	0.00334
MW-108	W108210415-	4/15/2021	0.000612

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
Cedar Hills Landfill --- Groundwater Metals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Zinc Total (mg/L)
MW-109	W109210415-	4/15/2021	0.00837
MW-110	W110210420-	4/20/2021	0.000527
MW-111	W111210415-	4/15/2021	0.0005 U
MW-112	W112210414-	4/14/2021	0.0005 U
MW-101	W101210419-	4/19/2021	0.0005 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	1,1,1,2-	1,1,1-	1,1,2,2-	1,1,2-	1,1-	1,1-	1,2,3-
			Tetrachloroethane ug/l 630-20-6	Trichloroethane ug/l 71-55-6	Tetrachloroethane ug/l 79-34-5	Trichloroethane ug/l 79-00-5	Dichloroethane ug/l 75-34-3	Dichloroethane ug/l 75-35-4	Trichloroethane ug/l 96-18-4
MW-21	W21-210402-	4/2/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-24	W24-210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-56	W56-210405-	4/5/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-59	W59-210413-	4/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-64	W64-210405-	4/5/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-65	W65-210413-	4/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-66	W66-210402-	4/2/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-73	W73-210402-	4/2/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-76	W76-210413-	4/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-81	W81-210405-	4/5/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-82	W82-210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-83	W83-210413-	4/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-84	W84-210405-	4/5/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-94	W94-210413-	4/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-113	W113210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-114	W114210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-115	W115210413-	4/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-67	W67-210630-	6/30/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-72	W72-210406-	4/6/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-74R	W74R210409-	4/9/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-75	W75-210409-	4/9/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-80	W80-210415-	4/15/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-85	W85-210406-	4/6/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-86	W86-210406-	4/6/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-87	W87-210611-	6/11/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-88	W88-210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-89	W89-210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-100	W100210412-	4/12/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-68	W68-210415-	4/15/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-93	W93-210405-	4/5/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-95	W95-210406-	4/6/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-30A	W30A210419-	4/19/2021	0.25 U	0.1 U	0.1 U	0.1 U	1.82	0.1 U	0.1 U
MW-47	W47-210419-	4/19/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.578	0.1 U	0.1 U
MW-62	W62-210420-	4/20/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.381	0.1 U	0.1 U
MW-102	W102210420-	4/20/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-103	W103210416-	4/16/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-107	W107210420-	4/20/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-108	W108210415-	4/15/2021	0.25 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 April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	1,2-Dibromo-3- Chloropropane	1,2- Dibromoethane	1,2- Dichloroethane	1,2- Dichloroethane
			ug/l 96-12-8	ug/l 106-93-4	ug/l 95-50-1	ug/l 107-06-2
MW-21	W21-210402-	4/2/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-24	W24-210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-56	W56-210405-	4/5/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-59	W59-210413-	4/13/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-64	W64-210405-	4/5/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-65	W65-210413-	4/13/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-66	W66-210402-	4/2/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-73	W73-210402-	4/2/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-76	W76-210413-	4/13/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-81	W81-210405-	4/5/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-82	W82-210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-83	W83-210413-	4/13/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-84	W84-210405-	4/5/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-94	W94-210413-	4/13/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-113	W113210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-114	W114210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-115	W115210413-	4/13/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-67	W67-210630-	6/30/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-72	W72-210406-	4/6/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-74R	W74R210409-	4/9/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-75	W75-210409-	4/9/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-80	W80-210415-	4/15/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-85	W85-210406-	4/6/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-86	W86-210406-	4/6/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-87	W87-210611-	6/11/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-88	W88-210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-89	W89-210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-100	W100210412-	4/12/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-68	W68-210415-	4/15/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-93	W93-210405-	4/5/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-95	W95-210406-	4/6/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-30A	W30A210419-	4/19/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-47	W47-210419-	4/19/2021	2.5 U	0.1 U	0.1 U	0.114 JT
MW-62	W62-210420-	4/20/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-102	W102210420-	4/20/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-103	W103210416-	4/16/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-107	W107210420-	4/20/2021	2.5 U	0.1 U	0.1 U	0.1 U
MW-108	W108210415-	4/15/2021	2.5 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	1,2-	1,4-	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone
			Dichloropropane ug/l 78-87-5	Dichlorobenzene ug/l 106-46-7				
MW-21	W21-210402-	4/2/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	3.03 JT
MW-24	W24-210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-56	W56-210405-	4/5/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-59	W59-210413-	4/13/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	3.38 JT
MW-64	W64-210405-	4/5/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-65	W65-210413-	4/13/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-66	W66-210402-	4/2/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-73	W73-210402-	4/2/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-76	W76-210413-	4/13/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-81	W81-210405-	4/5/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-82	W82-210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-83	W83-210413-	4/13/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-84	W84-210405-	4/5/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-94	W94-210413-	4/13/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-113	W113210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-114	W114210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-115	W115210413-	4/13/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-67	W67-210630-	6/30/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-72	W72-210406-	4/6/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-74R	W74R210409-	4/9/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-75	W75-210409-	4/9/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-80	W80-210415-	4/15/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-85	W85-210406-	4/6/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-86	W86-210406-	4/6/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-87	W87-210611-	6/11/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-88	W88-210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-89	W89-210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-100	W100210412-	4/12/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-68	W68-210415-	4/15/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-93	W93-210405-	4/5/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-95	W95-210406-	4/6/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-EB6	WEB6210414-	4/14/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-30A	W30A210419-	4/19/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-47	W47-210419-	4/19/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-62	W62-210420-	4/20/2021	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U
MW-102	W102210420-	4/20/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-103	W103210416-	4/16/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U
MW-107	W107210420-	4/20/2021	0.1 U	0.345	0.25 U	0.5 U	2.5 U	2.5 U
MW-108	W108210415-	4/15/2021	0.1 U	0.1 U	0.25 U	0.5 U	2.5 U	2.5 U

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 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Acrylonitrile	Benzene	Bromochloro methane	Bromodichlor omethane	Bromoform
			ug/l 107-13-1	ug/l 71-43-2	ug/l 74-97-5	ug/l 75-27-4	ug/l 75-25-2
MW-21	W21-210402-	4/2/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-24	W24-210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-56	W56-210405-	4/5/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-59	W59-210413-	4/13/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-64	W64-210405-	4/5/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-65	W65-210413-	4/13/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-66	W66-210402-	4/2/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-73	W73-210402-	4/2/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-76	W76-210413-	4/13/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-81	W81-210405-	4/5/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-82	W82-210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-83	W83-210413-	4/13/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-84	W84-210405-	4/5/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-94	W94-210413-	4/13/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-113	W113210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-114	W114210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-115	W115210413-	4/13/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-67	W67-210630-	6/30/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-72	W72-210406-	4/6/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-74R	W74R210409-	4/9/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-75	W75-210409-	4/9/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-80	W80-210415-	4/15/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-85	W85-210406-	4/6/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-86	W86-210406-	4/6/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-87	W87-210611-	6/11/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-88	W88-210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-89	W89-210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-100	W100210412-	4/12/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-68	W68-210415-	4/15/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-93	W93-210405-	4/5/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-95	W95-210406-	4/6/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-EB6	WEB6210414-	4/14/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-30A	W30A210419-	4/19/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-47	W47-210419-	4/19/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-62	W62-210420-	4/20/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-102	W102210420-	4/20/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-103	W103210416-	4/16/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-107	W107210420-	4/20/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-108	W108210415-	4/15/2021	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Bromome	Carbon	Carbon	Chlorobenzene	Chlorodibromo	Chloroethane
			thane	Disulfide	Tetrachloride		methane	
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
			74-83-9	75-15-0	56-23-5	108-90-7	124-48-1	75-00-3
MW-21	W21-210402-	4/2/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-24	W24-210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-56	W56-210405-	4/5/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-59	W59-210413-	4/13/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-64	W64-210405-	4/5/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-65	W65-210413-	4/13/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-66	W66-210402-	4/2/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-73	W73-210402-	4/2/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-76	W76-210413-	4/13/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-81	W81-210405-	4/5/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-82	W82-210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-83	W83-210413-	4/13/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-84	W84-210405-	4/5/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-94	W94-210413-	4/13/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-113	W113210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-114	W114210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-115	W115210413-	4/13/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-67	W67-210630-	6/30/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-72	W72-210406-	4/6/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-74R	W74R210409-	4/9/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-75	W75-210409-	4/9/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-80	W80-210415-	4/15/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-85	W85-210406-	4/6/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-86	W86-210406-	4/6/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-87	W87-210611-	6/11/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-88	W88-210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-89	W89-210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-100	W100210412-	4/12/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-68	W68-210415-	4/15/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-93	W93-210405-	4/5/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-95	W95-210406-	4/6/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-30A	W30A210419-	4/19/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-47	W47-210419-	4/19/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.17 JT
MW-62	W62-210420-	4/20/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-102	W102210420-	4/20/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-103	W103210416-	4/16/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
MW-107	W107210420-	4/20/2021	0.1 U	0.1 U	0.25 U	0.222	0.5 U	0.1 U
MW-108	W108210415-	4/15/2021	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U

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 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Chloroform	Chloromet	Cis-1,2-	Cis-1,3-	Dibromom
			ug/l	hane	ne	ne	ethane
			67-66-3	74-87-3	156-59-2	10061-01-5	74-95-3
MW-21	W21-210402-	4/2/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-24	W24-210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-56	W56-210405-	4/5/2021	0.1 U	0.25 U	1.19	0.25 U	0.1 U
MW-59	W59-210413-	4/13/2021	0.1 U	0.25 U	1.2	0.25 U	0.1 U
MW-64	W64-210405-	4/5/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-65	W65-210413-	4/13/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-66	W66-210402-	4/2/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-73	W73-210402-	4/2/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-76	W76-210413-	4/13/2021	0.1 U	0.25 U	0.238	0.25 U	0.1 U
MW-81	W81-210405-	4/5/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-82	W82-210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-83	W83-210413-	4/13/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-84	W84-210405-	4/5/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-94	W94-210413-	4/13/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-113	W113210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-114	W114210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-115	W115210413-	4/13/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-67	W67-210630-	6/30/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-72	W72-210406-	4/6/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-74R	W74R210409-	4/9/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-75	W75-210409-	4/9/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-80	W80-210415-	4/15/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-85	W85-210406-	4/6/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-86	W86-210406-	4/6/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-87	W87-210611-	6/11/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-88	W88-210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-89	W89-210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-100	W100210412-	4/12/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-68	W68-210415-	4/15/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-93	W93-210405-	4/5/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-95	W95-210406-	4/6/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-30A	W30A210419-	4/19/2021	0.1 U	0.25 U	2.02	0.25 U	0.1 U
MW-47	W47-210419-	4/19/2021	0.1 U	0.25 U	2.15	0.25 U	0.1 U
MW-62	W62-210420-	4/20/2021	0.1 U	0.25 U	0.856	0.25 U	0.1 U
MW-102	W102210420-	4/20/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-103	W103210416-	4/16/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-107	W107210420-	4/20/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U
MW-108	W108210415-	4/15/2021	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U

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 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Dichlorodifluoromethane	Ethylbenzene	M & P Xylene	Methyl Iodide	Methylene Chloride	O-Xylene
			ug/l 75-71-8	ug/l 100-41-4	ug/l MPX	ug/l 74-88-4	ug/l 75-09-2	ug/l 95-47-6
MW-21	W21-210402-	4/2/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-24	W24-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-56	W56-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-59	W59-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-64	W64-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-65	W65-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-66	W66-210402-	4/2/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-73	W73-210402-	4/2/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-76	W76-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-81	W81-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-82	W82-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-83	W83-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-84	W84-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-94	W94-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-113	W113210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-114	W114210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-115	W115210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-67	W67-210630-	6/30/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-72	W72-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-74R	W74R210409-	4/9/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-75	W75-210409-	4/9/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-80	W80-210415-	4/15/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-85	W85-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-86	W86-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-87	W87-210611-	6/11/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-88	W88-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-89	W89-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-100	W100210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-68	W68-210415-	4/15/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-93	W93-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-95	W95-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-30A	W30A210419-	4/19/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-47	W47-210419-	4/19/2021	3.16	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-62	W62-210420-	4/20/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-102	W102210420-	4/20/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-103	W103210416-	4/16/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-107	W107210420-	4/20/2021	0.162 JT	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U
MW-108	W108210415-	4/15/2021	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U

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Site	Sample ID	Date	Styrene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene
			ug/l 100-42-5	ug/l 127-18-4	ug/l 108-88-3	ug/l 156-60-5
MW-21	W21-210402-	4/2/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-24	W24-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-56	W56-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-59	W59-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-64	W64-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-65	W65-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-66	W66-210402-	4/2/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-73	W73-210402-	4/2/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-76	W76-210413-	4/13/2021	0.1 U	0.337	0.1 U	0.1 U
MW-81	W81-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-82	W82-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-83	W83-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-84	W84-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-94	W94-210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-113	W113210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-114	W114210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-115	W115210413-	4/13/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-67	W67-210630-	6/30/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-72	W72-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-74R	W74R210409-	4/9/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-75	W75-210409-	4/9/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-80	W80-210415-	4/15/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-85	W85-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-86	W86-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-87	W87-210611-	6/11/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-88	W88-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-89	W89-210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-100	W100210412-	4/12/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-68	W68-210415-	4/15/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-93	W93-210405-	4/5/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-95	W95-210406-	4/6/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-30A	W30A210419-	4/19/2021	0.1 U	0.106 JT	0.1 U	0.1 U
MW-47	W47-210419-	4/19/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-62	W62-210420-	4/20/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-102	W102210420-	4/20/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-103	W103210416-	4/16/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-107	W107210420-	4/20/2021	0.1 U	0.1 U	0.1 U	0.1 U
MW-108	W108210415-	4/15/2021	0.1 U	0.1 U	0.1 U	0.1 U

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Site	Sample ID	Date	Trans-1,3- Dichloropropene	Trans-1,4- Dichloro-2- Butene	Trichloroet hene	Trichlorofluorom ethane	Vinyl Acetate
			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
MW-21	W21-210402-	4/2/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-24	W24-210412-	4/12/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-56	W56-210405-	4/5/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-59	W59-210413-	4/13/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-64	W64-210405-	4/5/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-65	W65-210413-	4/13/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-66	W66-210402-	4/2/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-73	W73-210402-	4/2/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-76	W76-210413-	4/13/2021	0.5 U	5 U	6.01	0.1 U	0.1 U
MW-81	W81-210405-	4/5/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-82	W82-210412-	4/12/2021	0.5 U	5 U	4.11	0.1 U	0.1 U
MW-83	W83-210413-	4/13/2021	0.5 U	5 U	1.48	0.1 U	0.1 U
MW-84	W84-210405-	4/5/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-94	W94-210413-	4/13/2021	0.5 U	5 U	1.97	0.1 U	0.1 U
MW-113	W113210412-	4/12/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-114	W114210412-	4/12/2021	0.5 U	5 U	11.5	0.1 U	0.1 U
MW-115	W115210413-	4/13/2021	0.5 U	5 U	4.35	0.1 U	0.1 U
MW-67	W67-210630-	6/30/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-72	W72-210406-	4/6/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-74R	W74R210409-	4/9/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-75	W75-210409-	4/9/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-80	W80-210415-	4/15/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-85	W85-210406-	4/6/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-86	W86-210406-	4/6/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-87	W87-210611-	6/11/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-88	W88-210412-	4/12/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-89	W89-210412-	4/12/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-100	W100210412-	4/12/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-68	W68-210415-	4/15/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-93	W93-210405-	4/5/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-95	W95-210406-	4/6/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-EB6	WEB6210414-	4/14/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-30A	W30A210419-	4/19/2021	0.5 U	0.5 U	0.845	0.1 U	0.1 U
MW-47	W47-210419-	4/19/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-62	W62-210420-	4/20/2021	0.5 U	5 U	0.1 U	0.1 U	0.1 U
MW-102	W102210420-	4/20/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-103	W103210416-	4/16/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-107	W107210420-	4/20/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U
MW-108	W108210415-	4/15/2021	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U

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 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Vinyl Chloride
			ug/l 75-01-4
MW-21	W21-210402-	4/2/2021	0.01 U
MW-24	W24-210412-	4/12/2021	0.01 U
MW-56	W56-210405-	4/5/2021	0.01 U
MW-59	W59-210413-	4/13/2021	0.01 U
MW-64	W64-210405-	4/5/2021	0.01 U
MW-65	W65-210413-	4/13/2021	0.022
MW-66	W66-210402-	4/2/2021	0.01 U
MW-73	W73-210402-	4/2/2021	0.01 U
MW-76	W76-210413-	4/13/2021	0.01 U
MW-81	W81-210405-	4/5/2021	0.01 U
MW-82	W82-210412-	4/12/2021	0.01 U
MW-83	W83-210413-	4/13/2021	0.01 U
MW-84	W84-210405-	4/5/2021	0.01 U
MW-94	W94-210413-	4/13/2021	0.01 U
MW-113	W113210412-	4/12/2021	0.01 U
MW-114	W114210412-	4/12/2021	0.01 U
MW-115	W115210413-	4/13/2021	0.01 U
MW-67	W67-210630-	6/30/2021	0.01 U
MW-72	W72-210406-	4/6/2021	0.01 U
MW-74R	W74R210409-	4/9/2021	0.01 U
MW-75	W75-210409-	4/9/2021	0.01 U
MW-80	W80-210415-	4/15/2021	0.01 U
MW-85	W85-210406-	4/6/2021	0.01 U
MW-86	W86-210406-	4/6/2021	0.01 U
MW-87	W87-210611-	6/11/2021	0.01 U
MW-88	W88-210412-	4/12/2021	0.01 U
MW-89	W89-210412-	4/12/2021	0.01 U
MW-100	W100210412-	4/12/2021	0.01 U
MW-68	W68-210415-	4/15/2021	0.01 U
MW-93	W93-210405-	4/5/2021	0.01 U
MW-95	W95-210406-	4/6/2021	0.01 GU
MW-EB6	WEB6210414-	4/14/2021	0.01 U
MW-30A	W30A210419-	4/19/2021	0.01 U
MW-47	W47-210419-	4/19/2021	3.56
MW-62	W62-210420-	4/20/2021	0.01 U
MW-102	W102210420-	4/20/2021	0.01 U
MW-103	W103210416-	4/16/2021	0.01 U
MW-107	W107210420-	4/20/2021	0.341
MW-108	W108210415-	4/15/2021	0.01 U

Storm and Surface Water Field and Analytical Data

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Surface Water Elevation-Staff Gage Measurements
 Contact Person: Natalya Usova (206) 263-0608

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	4/1/2021	415.38	418.84		0.46	415.84	
SW-G1	SW-W1	5/27/2021	415.38	418.84		0.45	415.83	
SW-G2	SW-N1	10/1/2020	355.68	358.21		0.2	358.21	
SW-G2	SW-N1	11/25/2020	355.68	358.21		0.04	355.72	
SW-G3	SW -V	10/1/2020	466.46	469.88			466.46	DRY
SW-G3	SW -V	11/25/2020	466.46	469.88	DRY		466.46	DRY
SW-G4	Upstream of SW-E1	10/1/2020	502.41	505.85		0.29	502.70	
SW-G4	Upstream of SW-E1	11/25/2020	502.41	505.85	4.65		502.41	
SW-G5	SW-E1	10/1/2020	486.92	490.34		0.59	487.51	
SW-G5	SW-E1	11/25/2020	486.92	490.34	3.00		486.92	
SW-G6	Jpstream of SW-GS	10/1/2020	490.72	494.12	3.60		490.72	
SW-G6	Jpstream of SW-GS	11/25/2020	490.72	494.12	3.2		490.72	
SW-G7	SW-S2	10/1/2020	453.03	456.41		0.75	453.78	DRY
SW-G7	SW-S2	11/25/2020	453.03	456.41		0.65	453.68	
SW-G8	Upstream of SW-S1	10/1/2020	510.61	515.56		0.3	510.91	DRY
SW-G8	Upstream of SW-S1	11/25/2020	510.61	515.56		0.11	510.72	
SW-G9	SW-S1	10/1/2020	490.93	494.35		0.64	491.57	DRY
SW-G9	SW-S1	11/25/2020	490.93	494.35		0.4	491.33	

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill - Surface Water Field Parameters

Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	pH (Field)	Spec. Conductance (Field)	Temperature (Field)	Turbidity (Field)	Dissolved Oxygen, (Field)
			(std. Units)	(umho/cm)	(°C)	(NTU)	(mg/L)
SW-GS1	SGS1210426P	4/26/2021	7		12.6		
SW-N4	SN4-210426P	4/26/2021	7.78		12.2		
SW-SL3	SSL3210426P	4/26/2021	6.97		13.4		

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021

Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters

Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Ammonia, (NH3) (mg/L)	Biological Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Zinc, total (mg/L)
SW-GS1	SGS1210426P	4/26/2021	0.009 T	3.41	8.8	0.00232
SW-N4	SN4-210426P	4/26/2021	0.0042 T	2.36	0.8 T	0.00763
SW-SL3	SSL3210426P	4/26/2021	0.0065 T	2 U	4.6	0.00249

Refer to Appendix A for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021

Cedar Hills Landfill --- Surface Water Volatile Organic Compounds

Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	3-,4-Methylphenol mixture (ug/L)	Alpha-Terpineol (ug/L)	Benzoic Acid (ug/L)	Phenol (ug/L)
SW-GS1	SGS1201119P	11/19/2020	0.5 U	0.5 U	10 U	0.5 U
SW-N4	SN4-201012P	10/12/2020	0.505 U	0.505 U	10.1 U	0.505 U
SW-SL3	SSL3201119P	11/19/2020	0.5 U	0.5 U	10 U	0.5 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	1,1,1,2- TETRACHLOR OETHANE	1,1,1- TRICHLOR OETHANE	1,1,2,2- TETRACHLOR OETHANE	1,1,2- TRICHLORO ETHANE	1,1- DICHLORO ETHANE	1,1- DICHLORO ETHENE	1,2,3- TRICHLOROP ROPANE	1,2- DIBROMO- 3- CHLOROPR OPANE	1,2- DIBROMO ETHANE	1,2- DICHLOROB ENZENE	1,2- DICHLORO THANE	1,2- DICHLOROP ROPANE	1,4- DICHLOROB 2-BUTANONE	
			630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	96-18-4	96-12-8	106-93-4	95-50-1	107-06-2	78-87-5	106-46-7	78-93-3
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
SW-E1	4/20/2021	SE1-210420Q	N	N	N	N	N	N	N	N	N	N	N	N	N	N
			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

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	2-HEXANONE ug/l N	3-,4- Methylphenol mixture ug/l N	4-METHYL-2- PENTANONE ug/l N	ACETONE ug/l N	ACRYLONITRILE ug/l N	ALKALINIT Y, TOTAL (AS CaCO3) mg/l N	ALPHA- TERPINEOL ug/l N	AMMONIA AS N mg/l N	ANTIMONY D mg/l D	ANTIMON Y T mg/l T	ARSENIC D mg/l D	ARSENIC T mg/l T	BARIUM D mg/l D
SW-E1	4/20/2021	SE1-210420Q	0.5 U		2.5 U	2.5 U	0.035 U	21		0.0117	0.0003 U	0.0003 U	0.000317	0.000345	0.00365

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	BARIUM	BENZENE	BENZOIC ACID	BERYLLIUM	BERYLLIUM	BIOLOGICAL OXYGEN DEMAND - 5 DAY	BROMOCHLOROMETHANE	BROMODICHLOROMETHANE	BROMOFORM	BROMOMETHANE	CADMIUM	CADMIUM	CALCIUM
			7440-39-3	71-43-2	65-85-0	7440-41-7	7440-41-7	BOD	74-97-5	75-27-4	75-25-2	74-83-9	7440-43-9	7440-43-9	7440-70-2
			mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l
			T	N	N	D	T	N	N	N	N	N	D	T	D
SW-E1	4/20/2021	SE1-210420Q	0.00413	0.1 U		0.0001 U	0.0001 U		0.1 U	0.25 U	0.5 U	0.1 U	5E-05 U	5E-05 U	5.92

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	CALCIUM 7440-70-2 mg/l T	CARBON DISULFIDE 75-15-0 ug/l N	CARBON TETRACH LORIDE 56-23-5 ug/l N	CHLORIDE 16887-00-6 mg/l N	CHLOROBE NZENE 108-90-7 ug/l N	CHLORODIBR OMOMETHAN E 124-48-1 ug/l N	CHLOROETH ANE 75-00-3 ug/l N	CHLOROFO RM 67-66-3 ug/l N	CHLOROME THANE 74-87-3 ug/l N	CHROMI UM 7440-47-3 mg/l D	CHROMIUM 7440-47-3 mg/l T	CIS-1,2- DICHLOR OETHEN E 156-59-2 ug/l N	-DICHLOROPR 10061-01-5 ug/l N	COBALT 7440-48-4 mg/l D
SW-E1	4/20/2021	SE1-210420Q	5.9	0.1 U	0.25 U	2.02	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.0002 U	0.000258	0.1 U	0.25 U	8.13E-05

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	COBALT	COPPER	COPPER	DIBROMETHANE	DICHLOROMETHANE	DISSOLVED OXYGEN	ETHYLENE	IRON	IRON	LEAD	LEAD	M & P XYLENE	MAGNESIUM	MAGNESIUM
			7440-48-4	7440-50-8	7440-50-8	74-95-3	75-71-8	DO-F	100-41-4	7439-89-6	7439-89-6	7439-92-1	7439-92-1	MPX	7439-95-4	7439-95-4
			mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	mg/l	mg/l
			T	D	T	N	N	N	N	D	T	D	T	N	D	T
SW-E1	4/20/2021	SE1-210420Q	0.00011	0.00077	0.0008	0.1 U	0.1 U	6.99	0.1 U	0.0997	0.163	0.0001 U	0.000131	0.1 U	1.31	1.31

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	MANGANESE 7439-96-5 mg/l D	MANGAN ESE 7439-96-5 mg/l T	MERCURY 7439-97-6 mg/l D	MERCURY 7439-97-6 mg/l T	METHYL IODIDE 74-88-4 ug/l N	METHYLENE CHLORIDE 75-09-2 ug/l N	NICKEL 7440-02-0 mg/l D	NICKEL 7440-02-0 mg/l T	NITRATE 14797-55-8 mg/l N	O- XYLENE 95-47-6 ug/l N	pH, FIELD pH-F pH units N	PHENOL 108-95-2 ug/l N	POTASSIU M 7440-09-7 mg/l D	POTASSIUM 7440-09-7 mg/l T
SW-E1	4/20/2021	SE1-210420Q	0.0461	0.0539	5E-05 U	5E-05 U	0.1 U	2.5 U	0.000227	0.000291	0.0923	0.1 U	5.94		0.423	0.394

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	SELENIUM 7782-49-2 mg/l D	SELENIUM 7782-49-2 mg/l T	SILVER 7440-22-4 mg/l D	SILVER 7440-22-4 mg/l T	SODIUM 7440-23-5 mg/l D	SODIUM 7440-23-5 mg/l T	SPEC COND, FIELD COND-F umhos/cm N	SPECIFIC CONDUCT ANCE COND umhos/cm N	STYRENE 100-42-5 ug/l N	SULFATE 14808-79-8 mg/l N	TEMPERAT URE, FIELD TEMP deg c N	TETRACHLOR OETHENE 127-18-4 ug/l N	THALLIUM 7440-28-0 mg/l D	THALLIUM 7440-28-0 mg/l T
SW-E1	4/20/2021	SE1-210420Q	0.0005 U	0.0005 U	4E-05 U	4E-05 U	3.05	3.01	50	55.2	0.1 U	1.22	8.99	0.1 U	0.0001 U	0.0001 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surface Water Elevation Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	TOLUENE 108-88-3 ug/l N	TOTAL DISSOLVED SOLIDS TDS mg/l N	TOTAL ORGANIC CARBON TOC mg/l N	TOTAL SOLIDS TS mg/l N	TOTAL SUSPENDED SOLIDS TSS mg/l N	TRANS-1,2-DICHLOROETHENE 156-60-5 ug/l N	TRANS-1,3-DICHLOROPROPENE 10061-02-6 ug/l N
SW-E1	4/20/2021	SE1-210420Q	0.1 U	49.3	2.69	54	1.4	0.1 U	0.5 U

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Surfacewater Top Deck Data
 Contact Person: Natalya Usova (206) 263-0608

Sample ID	Date	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (Field) (°C)	Turbidity (Field) (NTU)	Alkalinity, (Total) (CaCO3) (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Iron, (Dissolved) (mg/L)	Iron, (Total) (mg/L)	Sulfate (SO4) (mg/L)	Total Organic Carbon (mg/L)
SW-TD1		No samples Collected due to no flow										
SW-TD2												
SW-TD7												

Washington Department of Ecology

Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1772702 - 5/14/2021
3:18:08 PM**

Company Name	Signer Name	System Name
Goodfellow Bros LLC	Kyle Williams	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for Goodfellow Bros LLC	Copy of Record GoodfellowBrosLLC Friday May 14 2021

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



kxjiNjEsc4K6qOWng7ow8Gam4iMkIXWJskAkDGOIQX2KaAkjh015PzbSejIze4BAJE3KSv4VixJyJQZvBzCVuBis5JvAotNz5buvb1AAyoA=



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: 04/01/2021 - 04/30/2021

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-Th	4/1/21	M	M
1-F	4/2/21	M	M
1-Sa	4/3/21	M	M
2-Su	4/4/21	M	M
2-M	4/5/21	M	M
2-T	4/6/21	M	M
2-W	4/7/21	M	M
2-Th	4/8/21	M	M
2-F	4/9/21	M	M
2-Sa	4/10/21	M	M
3-Su	4/11/21	M	M
3-M	4/12/21	M	M
3-T	4/13/21	M	M
3-W	4/14/21	M	M
3-Th	4/15/21	M	M
3-F	4/16/21	M	M
3-Sa	4/17/21	M	M
4-Su	4/18/21	M	M
4-M	4/19/21	M	M
4-T	4/20/21	M	M
4-W	4/21/21	M	M
4-Th	4/22/21	M	M
4-F	4/23/21	M	M
4-Sa	4/24/21	M	M
5-Su	4/25/21	M	M
5-M	4/26/21	4.11	M
5-T	4/27/21	M	M
5-W	4/28/21	M	M
5-Th	4/29/21	M	M
5-F	4/30/21	M	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum	4.11	M	
	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

Construction activities for 2020 ended November 20, 2020 and the site is currently inactive and temporarily stabilized. In accordance with Section S4.B.3. of the 2021-2025 permit, while the site is inactive and temporarily stabilized the inspection frequency will be reduced to once every calendar month. Monitoring will continue on this monthly inspection schedule until construction activities recommence in Spring 2021.

Construction Activities began 4/25/11 and daily reporting will be captured starting with the May report.

BMPs

Monitoring Point	Week	BMP
	1	Silt Fence
	2	Silt Fence
	3	Silt Fence
Cedar Hills Regional Landfill		B - 50
Environmental Monitoring Report	4	Silt Fence



	5	Check Dams
	5	Gravel Filter Berm
	5	Silt Fence
	5	Straw Wattles
	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: 04/01/2021 - 04/30/2021

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-Th	4/1/21	M	M
1-F	4/2/21	M	M
1-Sa	4/3/21	M	M
2-Su	4/4/21	M	M
2-M	4/5/21	M	M
2-T	4/6/21	M	M
2-W	4/7/21	M	M
2-Th	4/8/21	M	M
2-F	4/9/21	M	M
2-Sa	4/10/21	M	M
3-Su	4/11/21	M	M
3-M	4/12/21	M	M
3-T	4/13/21	M	M
3-W	4/14/21	M	M
3-Th	4/15/21	M	M
3-F	4/16/21	M	M
3-Sa	4/17/21	M	M
4-Su	4/18/21	M	M
4-M	4/19/21	M	M
4-T	4/20/21	M	M
4-W	4/21/21	M	M
4-Th	4/22/21	M	M
4-F	4/23/21	M	M
4-Sa	4/24/21	M	M
5-Su	4/25/21	M	M
5-M	4/26/21	3.51	M
5-T	4/27/21	M	M
5-W	4/28/21	M	M
5-Th	4/29/21	M	M
5-F	4/30/21	M	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum	3.51		M
	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

Construction activities for 2020 ended November 20, 2020 and the site is currently inactive and temporarily stabilized. In accordance with Section S4.B.3. of the 2021-2025 permit, while the site is inactive and temporarily stabilized the inspection frequency will be reduced to once every calendar month. Monitoring will continue on this monthly inspection schedule until construction activities recommence in Spring 2021.

Construction Activities began 4/25/11 and daily reporting will be captured starting with the May report.

BMPs

Monitoring Point	Week	BMP
	1	Silt Fence
	2	Silt Fence
		Silt Fence



	4	Silt Fence
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 04/01/2021 - 04/30/2021

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-Th	4/1/21	M	M	M	M
1-F	4/2/21	M	M	M	M
1-Sa	4/3/21	M	M	M	M
2-Su	4/4/21	M	M	M	M
2-M	4/5/21	M	M	M	M
2-T	4/6/21	M	M	M	M
2-W	4/7/21	M	M	M	M
2-Th	4/8/21	M	M	M	M
2-F	4/9/21	M	M	M	M
2-Sa	4/10/21	M	M	M	M
3-Su	4/11/21	M	M	M	M
3-M	4/12/21	M	M	M	M
3-T	4/13/21	M	M	M	M
3-W	4/14/21	M	M	M	M
3-Th	4/15/21	M	M	M	M
3-F	4/16/21	M	M	M	M
3-Sa	4/17/21	M	M	M	M
4-Su	4/18/21	M	M	M	M
4-M	4/19/21	M	M	M	M
4-T	4/20/21	M	M	M	M
4-W	4/21/21	M	M	M	M
4-Th	4/22/21	M	M	M	M
4-F	4/23/21	M	M	M	M
4-Sa	4/24/21	M	M	M	M
5-Su	4/25/21	M	M	M	M
5-M	4/26/21	2.50	M	C	C
5-T	4/27/21	M	M	M	M
5-W	4/28/21	M	M	M	M
5-Th	4/29/21	M	M	M	M
5-F	4/30/21	M	M	M	M
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		2.50	M	C	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	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

Construction activities for 2020 ended November 20, 2020 and the site is currently inactive and temporarily stabilized. In accordance with Section S4.B.3. of the 2021-2025 permit, while the site is inactive and temporarily stabilized the inspection frequency will be reduced to once every calendar month. Monitoring will continue on this monthly inspection schedule until construction activities recommence in Spring 2021.

Construction Activities began 4/25/11 and daily reporting will be captured starting with the May report.

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
Cedar Hills Regional Landfill		Check Dams

B - 54



	3	Check Dams
	4	Check Dams
	5	Check Dams
	5	Gravel Filter Berm
	5	Silt Fence
	5	Straw Wattles

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.

Kyle Williams
Signature

5/14/2021 3:18:13 PM
Date

Washington Department of Ecology
Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1776531 - 6/15/2021
6:52:38 AM**

Company Name	Signer Name	System Name
Goodfellow Bros LLC	Kyle Williams	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for Goodfellow Bros LLC	Copy of Record GoodfellowBrosLLC Tuesday June 15 2021

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.

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wWrBkEQzoJzrDxZOa/jiXzNPg7DMTmaSc/rbU9pDut4LHvwBtS1nV7t4HwJJTaLz5L/QwVPmz1i3V0xiJWFr4wnBdzNCuY
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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: 05/01/2021 - 05/31/2021

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	5/1/21	M	M
2-Su	5/2/21	M	M
3-Su	5/9/21	M	M
4-Su	5/16/21	M	M
5-Su	5/23/21	M	M
6-Su	5/30/21	M	M
Minimum			M BM: >= 6.5 (RO)
Maximum		7.09 BM: <= 25 (RO)	M BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	6	Check Dams
	6	Silt Fence
	6	Straw Wattles



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: 05/01/2021 - 05/31/2021

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	5/1/21	C	C
2-Su	5/2/21	C	C
3-Su	5/9/21	C	C
4-Su	5/16/21	C	C
5-Su	5/23/21	C	C
6-Su	5/30/21	C	C
Minimum			BM: >= 6.5 (RO)
Maximum		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	6	Check Dams
	6	Silt Fence
	6	Straw Wattles



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 05/01/2021 - 05/31/2021

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)	pH	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab	Measured NTU Weekly Grab	Standard Units Weekly Grab
		C1	C1	C2	C2
1-Sa	5/1/21	C	C	C	C
2-Su	5/2/21	C	C	C	C
3-Su	5/9/21	C	C	C	C
4-Su	5/16/21	C	C	C	C
5-Su	5/23/21	C	C	C	C
6-Su	5/30/21	C	C	C	C
Minimum			C BM: >= 6.5 (RO)		C BM: >= 6.5 (RO)
Maximum		C BM: <= 25 (RO)	C BM: <= 8.5 (RO)	C BM: <= 25 (RO)	C BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles
	6	Check Dams
	6	Silt Fence
	6	Straw Wattles

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.

Kyle Williams

6/15/2021 6:52:38 AM

Signature

Date

Washington Department of Ecology
Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1780562 - 7/14/2021
1:35:52 PM**

Company Name	Signer Name	System Name
Goodfellow Bros LLC	Kyle Williams	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for Goodfellow Bros LLC	Copy of Record GoodfellowBrosLLC Wednesday July 14 2021

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.

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8C3eytnJLglxXKLrwgilurnfUZ3udtjB8GWS7UpwGGyyUv2ooulPSfmIMiyX0V5PpyvgK0Pcta/cOrhAiXpx1ARDU86H
+drV3wqwokBnsv0=



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: 06/01/2021 - 06/30/2021

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-T	6/1/21	2.12	M
1-W	6/2/21	1.26	M
1-Th	6/3/21	2.57	M
1-F	6/4/21	4.78	M
1-Sa	6/5/21	M	M
2-Su	6/6/21	M	M
2-M	6/7/21	2.88	M
2-T	6/8/21	4.78	M
2-W	6/9/21	1.81	M
2-Th	6/10/21	1.71	M
2-F	6/11/21	1.23	M
2-Sa	6/12/21	M	M
3-Su	6/13/21	M	M
3-M	6/14/21	3.68	M
3-T	6/15/21	2.73	M
3-W	6/16/21	2.04	M
3-Th	6/17/21	1.77	M
3-F	6/18/21	1.54	M
3-Sa	6/19/21	M	M
4-Su	6/20/21	C	C
5-Su	6/27/21	C	C
Minimum			M BM: >= 6.5 (RO)
Maximum		4.78 BM: <= 25 (RO)	M BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles



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: 06/01/2021 - 06/30/2021

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-T	6/1/21	C	C
2-Su	6/6/21	C	C
3-Su	6/13/21	C	C
4-Su	6/20/21	C	C
5-Su	6/27/21	C	C
Minimum			BM: >= 6.5 (RO)
Maximum		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 06/01/2021 - 06/30/2021

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)		pH	
		Measured NTU Weekly Grab	Standard Units Weekly Grab	Measured NTU Weekly Grab	Standard Units Weekly Grab
		C1	C1	C2	C2
1-T	6/1/21	C	C	C	C
2-Su	6/6/21	C	C	C	C
3-Su	6/13/21	C	C	C	C
4-Su	6/20/21	C	C	C	C
5-Su	6/27/21	C	C	C	C
Minimum			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	5	Check Dams
	5	Silt Fence
	5	Straw Wattles

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.

Kyle Williams

7/14/2021 1:35:54 PM

Signature

Date

Washington Department of Ecology
Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1785866 - 8/12/2021
10:15:45 AM**

Company Name	Signer Name	System Name
King County Solid Waste Division	Jennifer Keune	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for King County Solid Waste Division	Copy of Record KingCountySolidWasteDivision Thursday August 12 2021

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



9phjv2XIYOIRyQwQ4f2pwtvuZi3FaCtUIFbupnkI2h
+TUVBngBQPhfXO90ykB5qMMx2H8O9gK3usFF16mUMRoxoQfiENhaxTLpmegOTfg7c=



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: 04/01/2021 - 06/30/2021

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
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	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
5-M	4/26/21	A	No	A	3.41	8.8	0.009	<0.481	<9.62	<0.481	<0.481	2.32
Minimum												
Average	A			A								
	BM: <= 25			BM: <= 14								
Maximum												
Month 1 Average					3.41	8.8	0.009	<0.481	<9.62	<0.481	<0.481	2.32
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average					M	M	M	M	M	M	M	M
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average					M	M	M	M	M	M	M	M
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110

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



Week	Monitoring Point	pH Standard Units Quarterly Grab
		GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
5-M	4/26/21	7
Minimum		7
		>= 6.0 (RO)
Average		
Maximum		7
		<= 9.0 (RO)
Month 1 Average		
Month 2 Average		
Month 3 Average		



Permit Number: WAR000756

Permittee: CEDAR HILLS REGIONAL LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 04/01/2021 - 06/30/2021

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
5-M	4/26/21	A	No	A	2.36	0.8	0.0042	<0.481	<9.62	<0.481	<0.481	7.63
Minimum												
Average		A BM: <= 25		A BM: <= 14								
Maximum												
Month 1 Average					2.36 <= 37	0.8 <= 27	0.0042 <= 4.9	<0.505 <= 16	<9.43 <= 71	<0.481 <= 14	<0.481 <= 15	7.63 <= 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



Week	Monitoring Point	PH Standard Units Quarterly Grab N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
5-M	4/26/21	7.78
Minimum	7.78 >= 6.0 (RO)	
Average		
Maximum	7.78 <= 9.0 (RO)	
Month 1 Average		
Month 2 Average		
Month 3 Average		



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: 04/01/2021 - 06/30/2021

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
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	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
5-M	4/26/21	A	No	A	<2	4.6	0.0065	<0.476	<9.52	<0.476	<0.476	2.49
Minimum												
Average	A			A								
	BM: <= 25			BM: <= 14								
Maximum												
Month 1 Average					<2	4.6	0.0065	<0.476	<9.52	<0.476	<0.476	2.49
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average					M	M	M	M	M	M	M	M
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average					M	M	M	M	M	M	M	M
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 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.

Jennifer Keune

8/12/2021 10:15:43 AM

Signature

Date



Week	Monitoring Point	pH Standard Units Quarterly Grab
		SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
5-M	4/26/21	6.97
Minimum		6.97 ≥ 6.0 (RO)
Average		
Maximum		6.97 ≤ 9.0 (RO)
Month 1 Average		
Month 2 Average		
Month 3 Average		

Leachate Field and Analytical Data

Leachate Monitoring Activities 2nd Quarter 2021

Station ID	Date	Activity	Sample ID	Comment
LS-A567	4/8/2021	Special Investigation	L567210408I	
LS-A567	5/13/2021	Special Investigation	L567210513I	
LS-A567	6/3/2021	Special Investigation	L567210603I2	
LS-A567	6/3/2021	Special Investigation	L567210603I	
LS-A8	4/8/2021	Special Investigation	LA81210408I	
LS-A8	6/3/2021	Special Investigation	LA81210603I2	
LS-A8	6/3/2021	Special Investigation	LA81210603I	
LS-CSW	4/8/2021	Special Investigation	LCSW210408I	
LS-LEPS	4/7/2021	Monthly Characterization Sample	LEPS210407M	
LS-LEPS	4/7/2021	Permit Sample	LEPS210407P	
LS-LEPS	4/13/2021	Permit Sample	LEPS210413P	
LS-LEPS	4/20/2021	Permit Sample	LEPS210420P	
LS-LEPS	4/27/2021	Permit Sample	LEPS210427P	
LS-LEPS	5/4/2021	Permit Sample	LEPS210504P	
LS-LEPS	5/12/2021	Monthly Characterization Sample	LEPS210512M	
LS-LEPS	5/12/2021	Permit Sample	LEPS210512P	
LS-LEPS	5/18/2021	Permit Sample	LEPS210518P	
LS-LEPS	5/25/2021	Permit Sample	LEPS210525P	
LS-LEPS	6/2/2021	Monthly Characterization Sample	LEPS210602M	
LS-LEPS	6/2/2021	Permit Sample	LEPS210602P	
LS-LEPS	6/3/2021	Special Investigation	LEPS210603I2	
LS-LEPS	6/8/2021	Permit Sample	LEPS210608P	
LS-LEPS	6/15/2021	Permit Sample	LEPS210615P	
LS-LEPS	6/22/2021	Permit Sample	LEPS210622P	
LS-LEPS	6/30/2021	Permit Sample	LEPS210630P	
LS-PS1A	4/8/2021	Special Investigation	LP1A210408I	
LS-PS1A	6/3/2021	Special Investigation	LP1A210603I2	
LS-PS1A	6/3/2021	Special Investigation	LP1A210603I	
LS-PS2A	4/7/2021	Monthly Characterization Sample	LP2A210407M	
LS-PS2A	5/13/2021	Monthly Characterization Sample	LP2A210513M	
LS-PS2A	5/13/2021	Special Investigation	LP1A210513I	
LS-PS2A	6/2/2021	Monthly Characterization Sample	LP2A210602M	
LS-PS4	4/8/2021	Special Investigation	LP4-210408I	
LS-PS4	5/13/2021	Special Investigation	LP4-210513I	
LS-PS4	6/3/2021	Special Investigation	LP4-210603I2	
LS-PS4	6/3/2021	Special Investigation	LP4-210603I	
LS-PS4	6/3/2021	QA/QC Sample	LP4-210603D	
LS-V1A	4/7/2021	Monthly Characterization Sample	LV1A210407M	
LS-V1A	5/12/2021	Monthly Characterization Sample	LV1A210512M	
LS-V1A	6/2/2021	Monthly Characterization Sample	LV1A210602M	
LS-V1A	6/3/2021	Special Investigation	LV1A210603I2	
LS-46N	4/7/2021	Monthly Characterization Sample	L46N210407M	
LS-46N	4/7/2021	QA/QC Sample	L46N210407D	
LS-46N	5/13/2021	Monthly Characterization Sample	L46N210513M	
LS-46N	6/2/2021	Monthly Characterization Sample	L46N210602M	
FIELD BLANK	5/13/2021	QA/QC Sample	LP1A210513F	
FIELD BLANK	6/3/2021	QA/QC Sample	LP4-210603F2	

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Field Parameter
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	pH (Field) (std. Units)	Specific Conductance (Field) (umho/cm)	Temperature (Field) (° C)
LS-A567	L567210513I	5/13/2021	8.16	24716	30.8
LS-A567	L567210603I	6/3/2021	8.09	22179	31.6
LS-A567	L567210603I2	6/3/2021	8.09	22179	31.6
LS-A81	LA81210408I	4/8/2021	7.21	21507	7.4
LS-A81	LA81210603I	6/3/2021	7.44	19500	17.9
LS-A81	LA81210603I2	6/3/2021	7.44	19500	17.9
LS-CSW	LCSW210408I	4/8/2021	7.93	549	9.5
LS-LEPS	LEPS210407M	4/7/2021	7.96	5536	11.3
LS-LEPS	LEPS210407P	4/7/2021	7.96	5536	11.3
LS-LEPS	LEPS210413P	4/13/2021	7.54	4950	12
LS-LEPS	LEPS210420P	4/20/2021	8.38	8233	15.5
LS-LEPS	LEPS210427P	4/27/2021	7.98	6373	14.1
LS-LEPS	LEPS210504P	5/4/2021	8.34	6955	14.8
LS-LEPS	LEPS210512M	5/12/2021	8.38	8233	15.5
LS-LEPS	LEPS210512P	5/12/2021	8.38	8233	15.5
LS-LEPS	LEPS210518P	5/18/2021	8.25	8540	16.1
LS-LEPS	LEPS210525P	5/25/2021	8.47	6843	15.2
LS-LEPS	LEPS210602M	6/2/2021	8.21	9079	19.3
LS-LEPS	LEPS210602P	6/2/2021	8.21	9079	19.3
LS-LEPS	LEPS210608P	6/8/2021	8.47	9297	17
LS-LEPS	LEPS210615P	6/15/2021	9.71	8889	17.8
LS-LEPS	LEPS210622P	6/22/2021	8.52	8382	23.6
LS-LEPS	LEPS210630P	6/30/2021	8.48	10206	24.9
LS-MH46N	L46N210407M	4/7/2021	7.1	7025	24.2
LS-MH46N	L46N210513M	5/13/2021	6.96	8486	26.3
LS-MH46N	L46N210602M	6/2/2021	7.14	9501	26.3
LS-PS1A	LP1A210408I	4/8/2021	7.62	1207	12.5
LS-PS1A	LP1A210513I	5/13/2021	7.79	3373	13.9
LS-PS1A	LP1A210603I	6/3/2021	7.88	8228	19.4
LS-PS1A	LP1A210603I2	6/3/2021	7.88	8228	19.4
LS-PS2A	LP2A210407M	4/7/2021	7.1	115.1	9.1
LS-PS2A	LP2A210513M	5/13/2021	7.08	346.5	12.8
LS-PS2A	LP2A210602M	6/2/2021	7.11	408.5	13.5
LS-PS4	LP4-210408I	4/8/2021	7.19	557	9.8
LS-PS4	LP4-210513I	5/13/2021	7.58	1457	13.6
LS-PS4	LP4-210603I	6/3/2021	7.68	2262	15.3
LS-PS4	LP4-210603I2	6/3/2021	7.68	2262	15.3
LS-V1A	LV1A210407M	4/7/2021	7.37	9553	12
LS-V1A	LV1A210512M	5/12/2021	8.13	20900	23.2
LS-V1A	LV1A210602M	6/2/2021	8.25	11740	29.4
LS-V1A	LV1A210603I2	6/3/2021	8.27	18930	26.2

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Conventional Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Alkalinity, Bicarbonate Mg/L (mg/l)	Alkalinity, Carbonate Mg/L (mg/L)	Alkalinity, Total (As Caco3) Mg/L (mg/L)	Ammonia As N Mg/L (mg/L)	Biological Oxygen Demand - 5 Day Mg/L (mg/L)	Chemical Oxygen Demand Mg/L (mg/L)	Chloride Mg/L (CFU/100mL)	Coliforms, Fecal Cfu/100ml (CFU/100mL)	Coliforms, Total Cfu/100ml (mg/L)	Cyanide Mg/L (mg/L)	Fixed Suspended Solids Mg/L (mg/L)
LS-A567	L567210513I	5/13/2021	9870	1 U	9870	2030	2100	6910 S	2560				18.8
LS-A567	L567210513I	5/13/2021											
LS-A567	L567210603I	6/3/2021	9530	1 U	9530	2000	1980	5680 S	2620				4.4
LS-A567	L567210603I	6/3/2021											
LS-A81	LA81210408I	4/8/2021	9450	1 U	9450	1660	20600	27000 S	2060				70
LS-A81	LA81210408I	4/8/2021											
LS-A81	LA81210603I	6/3/2021	8370	1 U	8370	1490	16800	30200 S	1780				8.6 T
LS-A81	LA81210603I	6/3/2021											
LS-CSW	LCSW210408I	4/8/2021	221	1 U	221	21.3	19.8	117	48.7				1.7 T
LS-CSW	LCSW210408I	4/8/2021											
LS-LEPS	LEPS210407M	4/7/2021								9200	80000 C		
LS-LEPS	LEPS210407M	4/7/2021			2380	391	538	1650	494			0.008 SU	
LS-LEPS	LEPS210407M	4/7/2021											
LS-LEPS	LEPS210512M	5/12/2021								770	4500		
LS-LEPS	LEPS210512M	5/12/2021			3300	571	159	1630	772			0.008 SU	
LS-LEPS	LEPS210512M	5/12/2021											
LS-LEPS	LEPS210602M	6/2/2021								300	4200		
LS-LEPS	LEPS210602M	6/2/2021			3920	700	151	1630	968			0.008 SU	
LS-LEPS	LEPS210602M	6/2/2021											
LS-MH46N	L46N210407M	4/7/2021								1 U	1 U		
LS-MH46N	L46N210407M	4/7/2021			2300	432	52.4	967	1080			0.008 SU	
LS-MH46N	L46N210407M	4/7/2021											
LS-MH46N	L46N210513M	5/13/2021								1 U	1 U		
LS-MH46N	L46N210513M	5/13/2021			2550	515	58	1340	1260			0.008 SU	
LS-MH46N	L46N210513M	5/13/2021											
LS-MH46N	L46N210602M	6/2/2021								1 U	30		

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Conventional Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Alkalinity, Bicarbonate Mg/L (mg/l)	Alkalinity, Carbonate Mg/L (mg/L)	Alkalinity, Total (As Caco3) Mg/L (mg/L)	Ammonia As N Mg/L (mg/L)	Biological Oxygen Demand - 5 Day Mg/L (mg/L)	Chemical Oxygen Demand Mg/L (mg/L)	Chloride Mg/L (CFU/100mL)	Coliforms, Fecal Cfu/100ml (CFU/100mL)	Coliforms, Total Cfu/100ml (mg/L)	Cyanide Mg/L (mg/L)	Fixed Suspended Solids Mg/L (mg/L)
LS-MH46N	L46N210602M	6/2/2021			2890	571	44.9	1400	1470			0.011 ST	
LS-MH46N	L46N210602M	6/2/2021											
LS-PS1A	LP1A210408I	4/8/2021	407	1 U	407	67.5	26.2	181	129				1.1 T
LS-PS1A	LP1A210408I	4/8/2021											
LS-PS1A	LP1A210513I	5/13/2021	1080	1 U	1080	217	56.1	446	339				0.73 U
LS-PS1A	LP1A210513I	5/13/2021											
LS-PS1A	LP1A210603I	6/3/2021	3000	1 U	3000	620	122	1170	1000				3.3 T
LS-PS1A	LP1A210603I	6/3/2021											
LS-PS2A	LP2A210407M	4/7/2021								1 U	1		
LS-PS2A	LP2A210407M	4/7/2021			43.5	3.18	3.24	18 T	2.44			0.002 U	
LS-PS2A	LP2A210407M	4/7/2021											
LS-PS2A	LP2A210513M	5/13/2021								1 U	1 U		
LS-PS2A	LP2A210513M	5/13/2021			82.8	18.5	5.23	30	13.7			0.002 U	
LS-PS2A	LP2A210513M	5/13/2021											
LS-PS2A	LP2A210602M	6/2/2021								1 U	200		
LS-PS2A	LP2A210602M	6/2/2021			86.3	20.6	6.5	30.7	20.3			0.002 U	
LS-PS2A	LP2A210602M	44349.42361											
LS-PS4	LP4-210408I	44294.34722	254	1 U	254	26	31.5	142	30.3				78.1
LS-PS4	LP4-210408I	44294.34722											
LS-PS4	LP4-210513I	44329.40625	445	1 U	445	97.8	140	315	79.2				28
LS-PS4	LP4-210513I	44329.40625											
LS-PS4	LP4-210603I	44350.41319	878	1 U	878	178	345	631	136				8.5
LS-PS4	LP4-210603I	44350.41319											
LS-V1A	LV1A210407M	44293.47569								56000	440000		
LS-V1A	LV1A210407M	44293.47569			3330	639	3070	4450	722			0.008 SU	
LS-V1A	LV1A210407M	44293.47569											
LS-V1A	LV1A210512M	44328.27778								140000	3000000 C		
LS-V1A	LV1A210512M	44328.27778			5500	1170	4780	8460	1250			0.011 ST	
LS-V1A	LV1A210512M	44328.27778											
LS-V1A	LV1A210602M	44349.33333								180000	3400000 C		
LS-V1A	LV1A210602M	44349.33333			6490	1430	5880	11300 S	1440			0.014 ST	
LS-V1A	LV1A210602M	44349.33333											

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Conventional Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Fluoride (Mg/L) (umho/cm)	Hardness (Mg/L) (mg/L)	Nitrate + Nitrite As N (Mg/L) (mg/L)	Phosphorus , Soluble Reactive (Mg/L) (mg/L)	Specific Conductance (umhos/Cm) (mg/L)	Sulfate (Mg/L) (mg/L)	Sulfide (Mg/L) (mg/L)	Total Dissolved Solids (Mg/L) (mg/L)	Total Fats, Oils & Grease (Mg/L) (mg/L)	Total Kjeldahl Nitrogen (Mg/L)	Total Organic Carbon (Mg/L)	Total Solids (Mg/L)	Total Suspended Solids (Mg/L)	Total Volatile Solids (Mg/L)	Volatile Suspended Solids (Mg/L)		
LS-A567	L567210513I	5/13/2021	1 U	540	0.2 U			29	1.6	11900				2060 S	2310 S	12100	91.9	4580	73.1
LS-A567	L567210513I	5/13/2021					20100												
LS-A567	L567210603I	6/3/2021	5 U	522	0.066 T			30.2	5.04	11500				2160 S	2250 S	12000	22.4	4480	18
LS-A567	L567210603I	6/3/2021					19100												
LS-A81	LA81210408I	4/8/2021	200 U	5630	0.02 U			866	3.54	21100				1840 S	11200 S	22100	168	11000	97.5
LS-A81	LA81210408I	4/8/2021					18900												
LS-A81	LA81210603I	6/3/2021	100 U	4610	0.02 U			171	12.3	16700				1590 S	9170 S	18300	60.5	8600	51.9
LS-A81	LA81210603I	6/3/2021					15900												
LS-CSW	LCSW210408I	4/8/2021	0.063 T	98.2	0.083			12.3	0.01 U	328				28.3	39.3	415	16.9	291	15.1
LS-CSW	LCSW210408I	4/8/2021					608												
LS-LEPS	LEPS210407M	4/7/2021																	
LS-LEPS	LEPS210407M	4/7/2021	0.51 T		0.1 U	0.0514		39.2	0.18 T		4.4 T			465	530		61.4	1370 B	52.9
LS-LEPS	LEPS210407M	4/7/2021					5780												
LS-LEPS	LEPS210512M	5/12/2021																	
LS-LEPS	LEPS210512M	5/12/2021	0.2 U		0.1 U	0.168		47.5	0.32 T		3.6 T					286	1510	221	
LS-LEPS	LEPS210512M	5/12/2021					7490												
LS-LEPS	LEPS210602M	6/2/2021																	
LS-LEPS	LEPS210602M	6/2/2021	0.74 T		0.05 U	0.15 T		51.5	0.35 T		3.7 T			771	445		441	1660	359
LS-LEPS	LEPS210602M	6/2/2021					8730												
LS-MH46N	L46N210407M	4/7/2021																	
LS-MH46N	L46N210407M	4/7/2021	1.06		0.05 U	2.71		1.88	1.08		2.9 T			444	388		0.53 U	700 B	0.53 U
LS-MH46N	L46N210407M	4/7/2021					7290												
LS-MH46N	L46N210513M	5/13/2021																	
LS-MH46N	L46N210513M	5/13/2021	1 U		0.241	2.79		9.83	0.431		3 T			504	412		3	912	2.33
LS-MH46N	L46N210513M	5/13/2021					8320												
LS-MH46N	L46N210602M	6/2/2021																	

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Conventional Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Fluoride (umho/cm)	Hardness (mg/L)	Nitrate + Nitrite As N (mg/L)	Phosphorus, Soluble, Reactive (mg/L)	Specific Conductance (umhos/Cm)	Sulfate (mg/L)	Sulfide (mg/L)	Total Dissolved Solids (mg/L)	Total Fats, Oils & Grease (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Total Suspended Solids (mg/L)	Total Volatile Solids (mg/L)	Volatile Suspended Solids (mg/L)
LS-MH46N	L46N210602M	6/2/2021	1 T		0.05 U	3.2		3.9 T	0.521		2.2 T	611	478		1	984	1
LS-MH46N	L46N210602M	6/2/2021					9010										
LS-PS1A	LP1A210408I	4/8/2021	0.11 T	82.5	1.07			9.86	0.0558	483		74.5	57.9	562	6.12	223	5.06
LS-PS1A	LP1A210408I	4/8/2021					1290										
LS-PS1A	LP1A210513I	5/13/2021	0.16 T	143	1/1/1900			11.5	0.0438	1230		219	134	1240	5.84	271	5.26
LS-PS1A	LP1A210513I	5/13/2021					3190										
LS-PS1A	LP1A210603I	6/3/2021	1 U	327	0.05 U			17.9	0.45	3260		769	384	3340	15.4	1200	12.1
LS-PS1A	LP1A210603I	6/3/2021					7970										
LS-PS2A	LP2A210407M	4/7/2021															
LS-PS2A	LP2A210407M	4/7/2021	0.0899		1/1/1900	1/0/1900		8.98	0.01 T		2 U	4.65	7.3		2.8	89 B	1.3
LS-PS2A	LP2A210407M	4/7/2021					131										
LS-PS2A	LP2A210513M	5/13/2021															
LS-PS2A	LP2A210513M	5/13/2021	0.042 T		1/3/1900	1/0/1900		35.7	0.018 T		1.9 U	17.6	9.93		1.2	46	0.8 T
LS-PS2A	LP2A210513M	5/13/2021					343										
LS-PS2A	LP2A210602M	6/2/2021	0.0416		1/3/1900	1/0/1900		52.1	0.019 T		1.8 U	19.4	12.1		0.64 T	55.3	0.64 T
LS-PS2A	LP2A210602M	44349.42361					420										
LS-PS4	LP4-210408I	44294.34722	0.077 T	136	1/0/1900			11.5	0.05 U	279		30.9	33.4	404	95.6	129 B	17.5
LS-PS4	LP4-210408I	44294.34722					617										
LS-PS4	LP4-210513I	44329.40625	0.077 T	174	1/0/1900			12.5	0.071 T	516		103	93.4	585	50.9	200	22.9
LS-PS4	LP4-210513I	44329.40625					1100										
LS-PS4	LP4-210603I	44350.41319	0.33 T	199	1/0/1900			15.9	0.13 T	903		390	219	953	52.5	404	44
LS-PS4	LP4-210603I	44350.41319					2250										
LS-V1A	LV1A210407M	44293.47569															
LS-V1A	LV1A210407M	44293.47569	10 U		0.27 T	1.85		47.8	0.65 T		5.4 T	732	1680		164	2850 B	100
LS-V1A	LV1A210407M	44293.47569					8080										
LS-V1A	LV1A210512M	44328.27778															
LS-V1A	LV1A210512M	44328.27778	10 U		0.1 U	3.03		66.1	6.09		9.7	1160	2930		423	3830	200
LS-V1A	LV1A210512M	44328.27778					12300										
LS-V1A	LV1A210602M	44349.33333															
LS-V1A	LV1A210602M	44349.33333	20 U		0.05 U	3.07		78	7.76		25.5 S	1520 S	3980 S		735	4730	341
LS-V1A	LV1A210602M	44349.33333					13800										

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Metal Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	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)
LS-A567	L567210513I	5/13/2021	0.504	0.0242	0.343	0.469	0.000998 U	0.000499 U	58.3	0.235
LS-A567	L567210603I	6/3/2021	0.575	0.0229	0.357	0.444	0.001 U	0.0005 U	57.4	0.217
LS-A81	LA81210408I	4/8/2021	0.88	0.0261	0.0538	0.259	0.000988 U	0.000564	1780	0.185
LS-A81	LA81210603I	6/3/2021	0.853	0.0279	0.0732	0.316	0.000991 U	0.000574	1380	0.161
LS-CSW	LCSW210408I	4/8/2021	0.108	0.003 U	0.00573	0.0297	0.000998 U	0.000499 U	25.4	0.00322
LS-LEPS	LEPS210407P	4/7/2021	0.562	0.0171	0.137	0.0907	0.000999 U	0.0005 U	116	0.0643
LS-LEPS	LEPS210413P	4/13/2021	0.321	0.015	0.119	0.0867	0.00102 U	0.000508 U	115	0.0614
LS-LEPS	LEPS210427P	4/27/2021	0.658	0.0146	0.118	0.0845	0.000997 U	0.000499 U	106	0.076
LS-LEPS	LEPS210504P	5/4/2021	0.593	0.0169	0.126	0.0551	0.00101 U	0.000505 U	80.2	0.0835
LS-LEPS	LEPS210512P	5/12/2021	0.597	0.015	0.139	0.0581	0.00101 U	0.000504 U	84.3	0.0881
LS-LEPS	LEPS210518P	5/18/2021	0.684	0.0157	0.144	0.0597	0.00103 U	0.000515 U	83.5	0.0926
LS-LEPS	LEPS210525P	5/25/2021	0.291	0.0172	0.155	0.0295	0.000996 U	0.000498 U	58	0.103
LS-LEPS	LEPS210602P	6/2/2021	0.504	0.0185	0.166	0.0596	0.001 U	0.000501 U	80.1	0.109
LS-LEPS	LEPS210608P	6/8/2021	0.468	0.017	0.158	0.0353	0.000985 U	0.000492 U	59	0.104
LS-LEPS	LEPS210615P	6/15/2021	0.411	0.018	0.174	0.0376	0.000992 U	0.000496 U	62.9	0.109
LS-LEPS	LEPS210622P	6/22/2021	0.369	0.0158	0.157	0.0507	0.000995 U	0.000498 U	71.8	0.107
LS-LEPS	LEPS210630P	6/30/2021	0.473	0.0156	0.163	0.06	0.00099 U	0.000495 U	74.8	0.0969
LS-MH46N	L46N210407M	4/7/2021	0.0504 U	0.00302 U	0.0797	0.271	0.00101 U	0.000504 U	68.9	0.0623
LS-MH46N	L46N210513M	5/13/2021	0.0502 U	0.00301 U	0.091	0.353	0.001 U	0.000502 U	78	0.0756
LS-MH46N	L46N210602M	6/2/2021	0.0504 U	0.00302 U	0.098	0.378	0.00101 U	0.000504 U	84.4	0.0833
LS-PS1A	LP1A210408I	4/8/2021	0.0497 U	0.00396	0.0204	0.0371	0.000995 U	0.000497 U	19.5	0.00673
LS-PS1A	LP1A210513I	5/13/2021	0.0502 U	0.0113	0.0589	0.0939	0.001 U	0.000502 U	31.1	0.0157
LS-PS1A	LP1A210603I	6/3/2021	0.13	0.0205	0.164	0.253	0.00101 U	0.000505 U	68.1	0.0428
LS-PS2A	LP2A210407M	4/7/2021	0.072	0.00297 U	0.00143	0.00518	0.000991 U	0.000496 U	9.6	0.00198 U
LS-PS2A	LP2A210513M	5/13/2021	0.0492 U	0.00755	0.00928	0.00738	0.000984 U	0.000492 U	13.2	0.00197 U
LS-PS2A	LP2A210602M	6/2/2021	0.0497 U	0.0061	0.0054	0.0156	0.000994 U	0.000497 U	16.2	0.00199 U
LS-PS4	LP4-210408I	4/8/2021	3.76	0.00528	0.0292	0.0529	0.000986 U	0.000493 U	31.8	0.00715
LS-PS4	LP4-210513I	5/13/2021	0.957	0.0165	0.131	0.0454	0.000989 U	0.000494 U	39.9	0.00745
LS-PS4	LP4-210603I	6/3/2021	0.249	0.0208	0.204	0.0477	0.00099 U	0.000495 U	45.6	0.0112
LS-V1A	LV1A210407M	4/7/2021	0.626	0.0158	0.143	0.143	0.001 U	0.000502 U	169	0.0917
LS-V1A	LV1A210512M	5/12/2021	5.71	0.0253	0.219	0.377	0.00101 U	0.000503 U	301	0.183
LS-V1A	LV1A210602M	6/2/2021	2.9 J	0.0337	0.3	0.231	0.00101 U	0.000504 U	296	0.176

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	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)
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Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Metal Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

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	L567210513I	5/13/2021	0.0671	0.0452	3.59	0.00262	95.7	0.294	0.0001 U	0.253
LS-A567	L567210603I	6/3/2021	0.069	0.0213	4.08	0.00234	92	0.28	0.0001 U	0.254
LS-A81	LA81210408I	4/8/2021	0.0603	0.0138	27.8	0.00383	289	21.5	0.0001 U	0.32
LS-A81	LA81210603I	6/3/2021	0.0547	0.0152	27.9	0.00401	283	10.9	0.0001 U	0.322
LS-CSW	LCSW210408I	4/8/2021	0.00197	0.00746	1.23	0.0019	8.45	0.315	0.0001 U	0.0057
LS-LEPS	LEPS210407P	4/7/2021	0.0165	0.00611	9.2	0.00116	39.4	1.06	0.0001 U	0.0665
LS-LEPS	LEPS210413P	4/13/2021	0.0158	0.00555	8.15	0.00105	40.8	1.03	0.0001 U	0.0659
LS-LEPS	LEPS210427P	4/27/2021	0.0182	0.00656	8.3	0.00125	44.5	0.904	0.0001 U	0.0756
LS-LEPS	LEPS210504P	5/4/2021	0.0202	0.007	8.01	0.0011	49.7	0.443	0.0001 U	0.0837
LS-LEPS	LEPS210512P	5/12/2021	0.0223	0.00702	7.92	0.00118	51.4	0.549	0.0001 U	0.0916
LS-LEPS	LEPS210518P	5/18/2021	0.0231	0.00645	7.79	0.0012	52.1	0.575	0.0001 U	0.0914
LS-LEPS	LEPS210525P	5/25/2021	0.024	0.00487	6.42	0.000996 U	55.2	0.21	0.0001 U	0.106
LS-LEPS	LEPS210602P	6/2/2021	0.0268	0.00669	6.73	0.00124	58.7	0.555	0.0001 U	0.116
LS-LEPS	LEPS210608P	6/8/2021	0.0254	0.00514	5.82	0.000985 U	59.1	0.3	0.0001 U	0.104
LS-LEPS	LEPS210615P	6/15/2021	0.0277	0.00519	6.62	0.000992 U	63.5	0.336	0.0001 U	0.114
LS-LEPS	LEPS210622P	6/22/2021	0.0244	0.00349	6.29	0.00138	63.4	0.483	0.0001 U	0.118
LS-LEPS	LEPS210630P	6/30/2021	0.0249	0.00498	6.71	0.00158	62.7	0.55	0.0001 U	0.11
LS-MH46N	L46N210407M	4/7/2021	0.0207	0.00202 U	2.3	0.00101 U	38.7	0.535	0.0001 U	0.0807
LS-MH46N	L46N210513M	5/13/2021	0.0263	0.00201 U	2.39	0.001 U	44.3	0.532	0.0001 U	0.107
LS-MH46N	L46N210602M	6/2/2021	0.0292	0.00201 U	2.45	0.00101 U	46.4	0.496	0.0001 U	0.113
LS-PS1A	LP1A210408I	4/8/2021	0.00297	0.00721	1.13	0.000995 U	8.2	0.309	0.0001 U	0.0112
LS-PS1A	LP1A210513I	5/13/2021	0.00825	0.00428	0.749	0.001 U	16	0.395	0.0001 U	0.0301
LS-PS1A	LP1A210603I	6/3/2021	0.0215	0.00483	2.95	0.00101 U	38	0.577	0.000264	0.0762
LS-PS2A	LP2A210407M	4/7/2021	0.000496 U	0.0146	1.44	0.000991 U	3.76	0.066	0.0001 U	0.00492
LS-PS2A	LP2A210513M	5/13/2021	0.00111	0.0108	1.01	0.000984 U	5.31	0.283	0.0001 U	0.00922
LS-PS2A	LP2A210602M	6/2/2021	0.00084	0.00992	1.53	0.000994 U	6.64	0.155	0.0001 U	0.00809
LS-PS4	LP4-210408I	4/8/2021	0.00262	0.0178	4.89	0.00316	13.7	0.459	0.0001 U	0.0076
LS-PS4	LP4-210513I	5/13/2021	0.00297	0.00997	3.44	0.00121	17.9	0.892	0.0001 U	0.0106
LS-PS4	LP4-210603I	6/3/2021	0.00422	0.00598	3.02	0.00108	20.6	1.05	0.0001 U	0.014
LS-V1A	LV1A210407M	4/7/2021	0.0221	0.00798	11.5	0.0018	55.1	2.02	0.0001 U	0.0873
LS-V1A	LV1A210512M	5/12/2021	0.0446	0.0326	37.9	0.00633	100	4.5	0.0001 U	0.173
LS-V1A	LV1A210602M	6/2/2021	0.0472	0.0172	28.7	0.00418	108	3.31	0.0001 U	0.182

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

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)
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Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill --- Leachate Metal Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)	Thallium, total (mg/L)	Tin, total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
LS-A567	L567210513I	5/13/2021	831	0.00499 U	0.000399 U	2730 D	0.000998 U	0.0436	0.152	0.115
LS-A567	L567210603I	6/3/2021	757	0.005 U	0.0004 U	2560 D	0.00075 U	0.0402	0.165	0.098
LS-A81	LA81210408I	4/8/2021	818	0.0088	0.000395 U	1840	0.000988 U	0.0195	0.0321	1.95
LS-A81	LA81210603I	6/3/2021	748	0.00885	0.000396 U	1710	0.000743 U	0.0178	0.0492	2.27
LS-CSW	LCSW210408I	4/8/2021	14.9	0.00499 U	0.000399 U	50.1	0.000998 U	0.00499 U	0.00191	0.0207
LS-LEPS	LEPS210407P	4/7/2021	178	0.005 U	0.0004 U	500	0.000999 U	0.0083	0.0196	0.12
LS-LEPS	LEPS210413P	4/13/2021	179	0.00508 U	0.000406 U	504	0.00102 U	0.00812	0.0191 D	0.103
LS-LEPS	LEPS210427P	4/27/2021	203	0.00499 U	0.000399 U	576	0.000997 U	0.0078	0.0226	0.122
LS-LEPS	LEPS210504P	5/4/2021	242	0.00505 U	0.000404 U	667	0.00101 U	0.00798	0.0263	0.129
LS-LEPS	LEPS210512P	5/12/2021	258	0.00504 U	0.000403 U	721	0.00101 U	0.0079	0.0292	0.156
LS-LEPS	LEPS210518P	5/18/2021	272	0.00515 U	0.000412 U	751	0.00103 U	0.009	0.0306	0.162
LS-LEPS	LEPS210525P	5/25/2021	311	0.00498 U	0.000398 U	830	0.000996 U	0.0104	0.032 D	0.112
LS-LEPS	LEPS210602P	6/2/2021	328	0.00501 U	0.000401 U	936	0.001 U	0.0077	0.035	0.184
LS-LEPS	LEPS210608P	6/8/2021	323	0.00492 U	0.000394 U	895	0.000985 U	0.0102	0.0348	0.133
LS-LEPS	LEPS210615P	6/15/2021	357	0.00496 U	0.000397 U	1000	0.000744 U	0.00927	0.0377	0.167
LS-LEPS	LEPS210622P	6/22/2021	340	0.00498 U	0.000398 U	957	0.000746 U	0.00671	0.0351	0.199
LS-LEPS	LEPS210630P	6/30/2021	344	0.00495 U	0.000396 U	966	0.000742 U	0.00538 J	0.0362	0.24
LS-MH46N	L46N210407M	4/7/2021	241	0.00504 U	0.000403 U	810	0.00101 U	0.00504 U	0.0794	0.00504 U
LS-MH46N	L46N210513M	5/13/2021	275	0.00502 U	0.000402 U	897	0.001 U	0.00502 U	0.0932	0.0186
LS-MH46N	L46N210602M	6/2/2021	308	0.00504 U	0.000403 U	1050	0.000755 U	0.00504 U	0.117	0.00504 U
LS-PS1A	LP1A210408I	4/8/2021	29.9	0.00497 U	0.000398 U	115	0.000995 U	0.00497 U	0.00779	0.0141
LS-PS1A	LP1A210513I	5/13/2021	77.8	0.00502 U	0.000402 U	287	0.001 U	0.00502 U	0.0176	0.011
LS-PS1A	LP1A210603I	6/3/2021	208	0.00505 U	0.000404 U	788	0.000757 U	0.00505 U	0.0533	0.0399
LS-PS2A	LP2A210407M	4/7/2021	1.67	0.00496 U	0.000396 U	3.9	0.000991 U	0.00496 U	0.00254	0.0147
LS-PS2A	LP2A210513M	5/13/2021	4.99	0.00492 U	0.000393 U	14	0.000984 U	0.00492 U	0.00146	0.0104
LS-PS2A	LP2A210602M	6/2/2021	6.71	0.00497 U	0.000398 U	20.9	0.000746 U	0.00497 U	0.00123	0.0189
LS-PS4	LP4-210408I	4/8/2021	10.1	0.00493 U	0.000394 U	32.4	0.000986 U	0.00493 U	0.00673	0.0527
LS-PS4	LP4-210513I	5/13/2021	24.8	0.00494 U	0.000395 U	78.3	0.000989 U	0.00494 U	0.00469	0.0424
LS-PS4	LP4-210603I	6/3/2021	45.7	0.00495 U	0.000396 U	140	0.000742 U	0.00495 U	0.00507	0.049
LS-V1A	LV1A210407M	4/7/2021	262	0.00502 U	0.000402 U	766	0.001 U	0.0121	0.03	0.218
LS-V1A	LV1A210512M	5/12/2021	464	0.00503 U	0.000402 U	1310	0.00101 U	0.0224	0.0598	0.864
LS-V1A	LV1A210602M	6/2/2021	552	0.00504 U	0.000403 U	1550	0.000756 U	0.0224	0.0592	0.855

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)	Thallium, total (mg/L)	Tin, total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
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Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

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	LEPS210407M	4/7/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	LEPS210512M	5/12/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	LEPS210602M	6/2/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	L46N210407M	4/7/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	L46N210513M	5/13/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	L46N210602M	6/2/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.174 JT	0.1 U	0.1 U	0.1 U
LS-PS2A	LP2A210407M	4/7/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
LS-PS2A	LP2A210513M	5/13/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
LS-PS2A	LP2A210602M	6/2/2021	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
LS-V1A	LV1A210407M	4/7/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	LV1A210512M	5/12/2021	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
LS-V1A	LV1A210602M	6/2/2021	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	6.25 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

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	LEPS210407M	4/7/2021	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	833 D
LS-LEPS	LEPS210512M	5/12/2021	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LEPS	LEPS210602M	6/2/2021	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-MH46N	L46N210407M	4/7/2021	25 U	1 U	2.22	1 U	1 U	1 U	1 U	9.6	1 U	2.5 U
LS-MH46N	L46N210513M	5/13/2021	25 U	1 U	1.83 JT	1 U	1 U	1 U	1 U	7.71	1 U	2.5 U
LS-MH46N	L46N210602M	6/2/2021	2.5 U	0.1 U	1.16	0.1 U	0.1 U	0.1 U	0.1 U	4.46	0.1 U	3.19
LS-PS2A	LP2A210407M	4/7/2021	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.17 JT	0.1 U	1.87
LS-PS2A	LP2A210513M	5/13/2021	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.159 JT	0.1 U	0.25 U
LS-PS2A	LP2A210602M	6/2/2021	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	2.37
LS-V1A	LV1A210407M	4/7/2021	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	6680 D
LS-V1A	LV1A210512M	5/12/2021	250 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	29700 D
LS-V1A	LV1A210602M	6/2/2021	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	11200 D
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	62.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	6.25 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	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

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	2-Hexanone (ug/L)	2-Methyl-1- propanol (ug/L)	3-Chloro- propene (ug/L)	4-Methyl-2- Pentanone (ug/L)	Acetone (ug/L)	Acetonitrile (ug/L)	Acrolein (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)
LS-LEPS	LEPS210407M	4/7/2021	5 U	50 U	1 U	25 U	2680 D	50 U	25 U	0.35 U	1 U
LS-LEPS	LEPS210512M	5/12/2021	13.4	50 U	1 U	25 U	41.9 JT	50 U	25 U	0.35 U	1 U
LS-LEPS	LEPS210602M	6/2/2021	5 U	50 U	1 U	25 U	107	50 U	25 U	0.35 U	1 U
LS-MH46N	L46N210407M	4/7/2021	5 U	50 U	1 U	25 U	27.5 JT	50 U	25 U	0.35 U	3.73
LS-MH46N	L46N210513M	5/13/2021	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	2.97
LS-MH46N	L46N210602M	6/2/2021	0.5 U	5 U	0.1 U	2.5 U	12.4	5 U	2.5 U	0.035 U	1.73
LS-PS2A	LP2A210407M	4/7/2021	0.5 U	5 U	0.1 U	2.5 U	3.69 JT	5 U	2.5 U	0.035 U	0.1 U
LS-PS2A	LP2A210513M	5/13/2021	0.5 U	5 U	0.1 U	2.5 U	3.24 JT	5 U	2.5 U	0.035 U	0.1 U
LS-PS2A	LP2A210602M	6/2/2021	0.5 U	5 U	0.1 U	2.5 U	7.73	5 U	2.5 U	0.035 U	0.1 U
LS-V1A	LV1A210407M	4/7/2021	8.6 JT	174	1 U	33.9 JT	8310 D	50 U	25 U	1.88	1 U
LS-V1A	LV1A210512M	5/12/2021	50 U	500 U	10 U	250 U	36100 D	500 U	250 U	3.5 U	10 U
LS-V1A	LV1A210602M	6/2/2021	22.4	479	1 U	105	10900 D	50 U	25 U	0.35 U	1 U
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	12.5 U	125 U	2.5 U	62.5 U	62.5 U	125 U	62.5 U	0.875 U	2.5 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	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

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Bromochloro-	Bromodichloro-	Bromoform	Bromo-	Carbon	Carbon	Chloro-	Chloro-dibromo-	Chloroethane
			methane	methane		methane	Disulfide	Tetrachloride	benzene	methane	
			74-97-5	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	124-48-1	75-00-3
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
LS-LEPS	LEPS210407M	4/7/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	LEPS210512M	5/12/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	LEPS210602M	6/2/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-MH46N	L46N210407M	4/7/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	2.08	5 U	1 U
LS-MH46N	L46N210513M	5/13/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1.71 JT	5 U	1 U
LS-MH46N	L46N210602M	6/2/2021	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.976	0.5 U	0.1 U
LS-PS2A	LP2A210407M	4/7/2021	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
LS-PS2A	LP2A210513M	5/13/2021	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
LS-PS2A	LP2A210602M	6/2/2021	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
LS-V1A	LV1A210407M	4/7/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-V1A	LV1A210512M	5/12/2021	10 U	25 U	50 U	10 U	10 U	25 U	10 U	50 U	10 U
LS-V1A	LV1A210602M	6/2/2021	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	2.5 U	6.25 U	12.5 U	2.5 U	2.5 U	6.25 U	2.5 U	12.5 U	2.5 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	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

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

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	LEPS210407M	4/7/2021	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	LEPS210512M	5/12/2021	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	LEPS210602M	6/2/2021	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-MH46N	L46N210407M	4/7/2021	1 U	2.5 U	1 U	1.92 JT	2.5 U	1 U	1 U	42.5	47.5
LS-MH46N	L46N210513M	5/13/2021	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	32	32.1
LS-MH46N	L46N210602M	6/2/2021	0.1 U	0.25 U	0.1 U	0.525	0.25 U	0.1 U	0.1 U	16.8	14.7
LS-PS2A	LP2A210407M	4/7/2021	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
LS-PS2A	LP2A210513M	5/13/2021	0.1 U	0.25 GU	0.1 U	0.1 U	0.25 U	0.1 U	0.1 GU	0.1 U	0.1 U
LS-PS2A	LP2A210602M	6/2/2021	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
LS-V1A	LV1A210407M	4/7/2021	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	2.24
LS-V1A	LV1A210512M	5/12/2021	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U
LS-V1A	LV1A210602M	6/2/2021	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	2.5 U	6.25 U	2.5 U	2.5 U	6.25 U	2.5 U	2.5 U	2.5 U	2.5 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	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

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

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	LEPS210407M	4/7/2021	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
LS-LEPS	LEPS210512M	5/12/2021	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
LS-LEPS	LEPS210602M	6/2/2021	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
LS-MH46N	L46N210407M	4/7/2021	1 U	2.5 U	1 U	25 U	1.65 JT	5 U	1.07 JT	1 U
LS-MH46N	L46N210513M	5/13/2021	1 U	2.5 U	1 U	25 U	1.26 JT	5 U	1 U	1 U
LS-MH46N	L46N210602M	6/2/2021	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.519	0.1 U
LS-PS2A	LP2A210407M	4/7/2021	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
LS-PS2A	LP2A210513M	5/13/2021	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
LS-PS2A	LP2A210602M	6/2/2021	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U
LS-V1A	LV1A210407M	4/7/2021	1 U	2.5 U	1 U	25 U	1.25 JT	5 U	1 U	1 U
LS-V1A	LV1A210512M	5/12/2021	10 U	25 U	10 U	250 U	10 U	50 U	10 U	10 U
LS-V1A	LV1A210602M	6/2/2021	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	2.5 U	6.25 U	2.5 U	62.5 U	2.5 U	12.5 U	2.5 U	2.5 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

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	LEPS210407M	4/7/2021	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	LEPS210512M	5/12/2021	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	LEPS210602M	6/2/2021	1 U	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-MH46N	L46N210407M	4/7/2021	2.81	1 U	5 U	5 U	1 U	1 U	1 U	4.1
LS-MH46N	L46N210513M	5/13/2021	1.83 JT	1 U	5 U	5 U	1 U	1 U	1 U	2.27
LS-MH46N	L46N210602M	6/2/2021	1.18	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	1.39
LS-PS2A	LP2A210407M	4/7/2021	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 GU
LS-PS2A	LP2A210513M	5/13/2021	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 GU
LS-PS2A	LP2A210602M	6/2/2021	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
LS-V1A	LV1A210407M	4/7/2021	5.2	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	LV1A210512M	5/12/2021	10 U	10 U	50 U	50 U	10 U	10 U	10 U	1 U
LS-V1A	LV1A210602M	6/2/2021	12.7	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
VOA TRIP BLANK	4/6/2021	VTRP210407X	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	4/6/2021	VTRP210407Y	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	5/12/2021	VTRP210513Y	2.5 U	2.5 U	12.5 U	12.5 U	2.5 U	2.5 U	2.5 U	0.25 U
VOA TRIP BLANK	6/1/2021	VTRP210602Y	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	6/1/2021	VTRP210602Z	0.1 U	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U

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Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

		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	AROCLOR 1232	AROCLOR 1242
		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	11141-16-5	53469-21-9
Site	Date	Sample ID	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	LEPS210407M	4/7/2021	0.5 U	0.5 U	1.81	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U
LS-LEPS	LEPS210512M	5/12/2021	0.5 U	1 U	1.42	0.025 GU	0.025 GU	0.025 GU	0.025 GU	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.0323
LS-LEPS	LEPS210602M	6/2/2021	0.5 U	1 U	1 U	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.025 U	0.025 U	0.025 U	0.025 U
LS-MH46N	L46N210407M	4/7/2021	0.5 U	0.67	1 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.0798	0.025 U	0.134
LS-MH46N	L46N210513M	5/13/2021	0.5 U	0.695	1 U	0.025 GU	0.025 GU	0.025 GU	0.025 GU	0.025 U	0.025 GU	0.025 U	0.0478 J	0.025 U	0.13
LS-MH46N	L46N210602M	6/2/2021	0.5 U	0.737	1 U	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.025 U	0.075 U	0.025 U	0.121
LS-PS2A	LP2A210407M	4/7/2021	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	0.025 U	0.025 U
LS-PS2A	LP2A210513M	5/13/2021	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	0.025 U	0.025 U
LS-PS2A	LP2A210602M	6/2/2021	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	0.025 U	0.025 U
LS-V1A	LV1A210407M	4/7/2021	0.5 U	1.5 U	2.16	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.0622
LS-V1A	LV1A210512M	5/12/2021	0.5 GU	2.5 GU	2.56 G	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.025 U	0.2 U	0.025 U	0.0779
LS-V1A	LV1A210602M	6/2/2021	0.5 GU	2.5 GU	3.36 G	0.1 GU	0.1 GU	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.025 U	0.025 U	0.025 U	0.367 J

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

		Chemical_Name	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	BETA BHC	DELTA BHC	DIELDRIN	DINOSEB	ENDOSULFAN I	ENDOSULFAN II	ENDOSULFAN SULFATE	ENDRIN
		CAS_RN	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	1031-07-8	72-20-8
Site	Date	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	LEPS210407M	4/7/2021	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 GU	0.025 U	0.5 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-LEPS	LEPS210512M	5/12/2021	0.025 U	0.025 U	0.025 U	0.1 GU	0.025 U	0.025 GU	0.5 U	0.1 U	0.025 U	0.025 U	0.025 GU
LS-LEPS	LEPS210602M	6/2/2021	0.025 U	0.025 U	0.025 U	0.1 U	0.1 GU	0.1 GU	1 U	0.1 U	0.1 U	0.1 U	0.1 GU
LS-MH46N	L46N210407M	4/7/2021	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 GU	0.025 U	0.5 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-MH46N	L46N210513M	5/13/2021	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 GU	0.5 U	0.025 U	0.025 U	0.025 U	0.025 GU
LS-MH46N	L46N210602M	6/2/2021	0.025 U	0.025 U	0.025 U	0.1 U	0.1 GU	0.1 GU	0.5 U	0.1 U	0.1 U	0.1 U	0.1 GU
LS-PS2A	LP2A210407M	4/7/2021	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	0.01 U	0.01 U
LS-PS2A	LP2A210513M	5/13/2021	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	0.01 U	0.01 U
LS-PS2A	LP2A210602M	6/2/2021	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	0.01 U	0.01 U
LS-V1A	LV1A210407M	4/7/2021	0.025 U	0.0358	0.025 U	0.025 GU	0.025 GU	0.025 U	0.5 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-V1A	LV1A210512M	5/12/2021	0.025 U	0.0324	0.025 U	0.1 GU	0.1 U	0.1 GU	0.5 GU	0.1 U	0.1 U	0.1 U	0.1 GU
LS-V1A	LV1A210602M	6/2/2021	0.025 U	0.0478 J	0.025 U	0.1 U	0.1 GU	0.1 GU	0.5 GU	0.1 U	0.1 U	0.1 U	0.1 GU

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from April 01, 2021 to June 30, 2021
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Natalya Usova (206) 263-0608

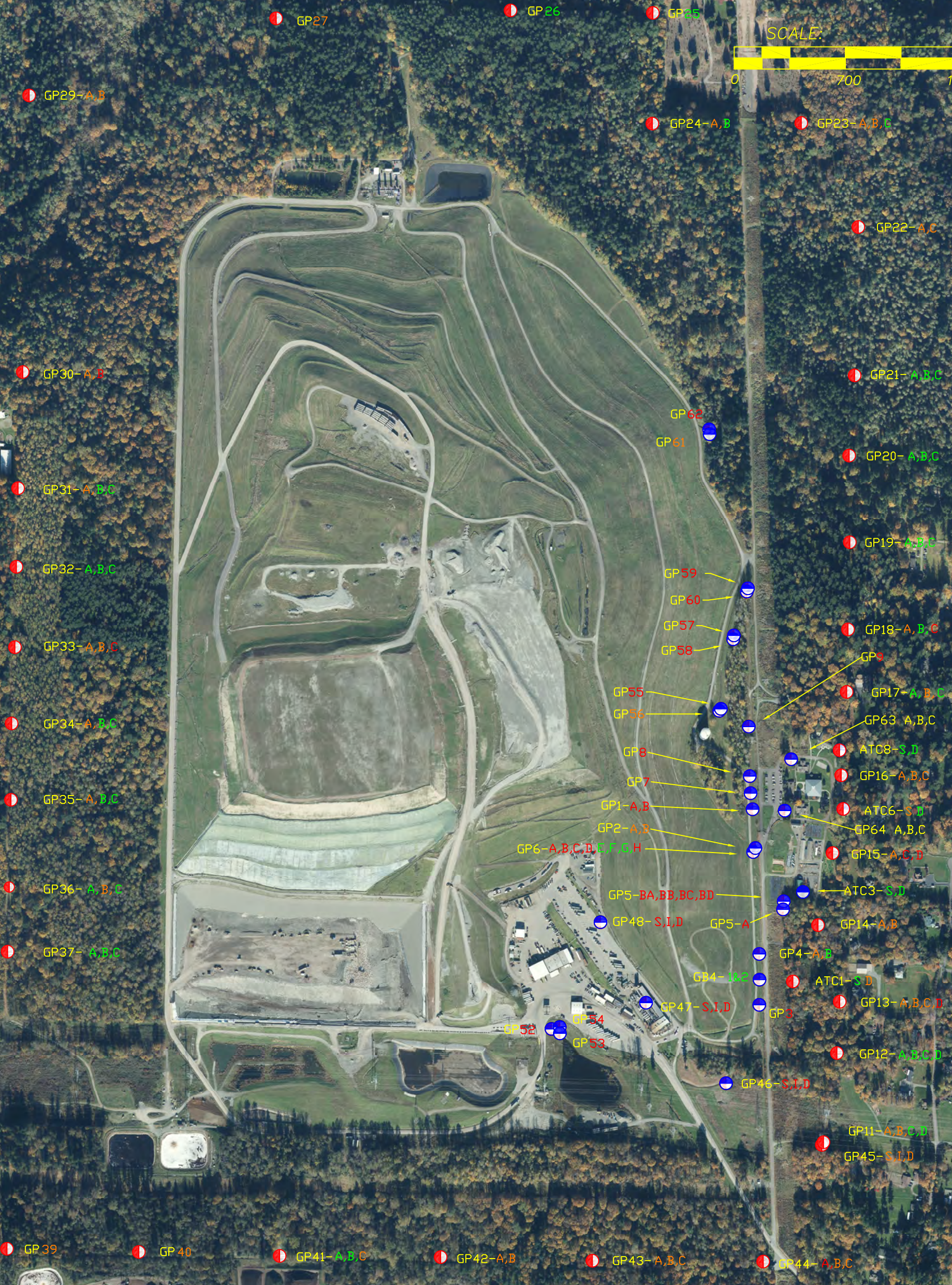
Site	Date	Chemical_Name CAS_RN Sample ID	ENDRIN	HEPTACHLOR	HEPTACHLOR	ISODRIN	LINDANE	METHOXYCHLOR	Total Aroclors	TOXAPHENE	trans-
			ALDEHYDE 7421-93-4 ug/l	76-44-8 ug/l	EPOXIDE 1024-57-3 ug/l	465-73-6 ug/l	(GAMMA BHC) 58-89-9 ug/l	72-43-5 ug/l	T_AROCLOR ug/l	8001-35-2 ug/l	Chlordane 5103-74-2 ug/l
LS-LEPS	LEPS210407M	4/7/2021	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U	0.025 U	2.5 U	0.025 GU
LS-LEPS	LEPS210512M	5/12/2021	0.025 GU	0.025 GU	0.025 U	0.025 GU	0.025 U	0.125 U	0.0323	2.5 U	0.025 GU
LS-LEPS	LEPS210602M	6/2/2021	0.1 GU	0.1 U	0.1 GU	0.1 U	0.1 U	0.5 U	0.025 U	10 U	0.1 GU
LS-MH46N	L46N210407M	4/7/2021	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U	0.2138	2.5 U	0.025 GU
LS-MH46N	L46N210513M	5/13/2021	0.025 GU	0.025 GU	0.025 U	0.025 GU	0.025 U	0.125 U	0.1778	2.5 U	0.025 GU
LS-MH46N	L46N210602M	6/2/2021	0.1 GU	0.1 U	0.1 GU	0.1 U	0.1 U	0.5 U	0.121	10 U	0.1 GU
LS-PS2A	LP2A210407M	4/7/2021	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	LP2A210513M	5/13/2021	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	LP2A210602M	6/2/2021	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	LV1A210407M	4/7/2021	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U	0.098	2.5 U	0.025 GU
LS-V1A	LV1A210512M	5/12/2021	0.1 GU	0.1 GU	0.1 U	0.1 GU	0.1 U	0.5 U	0.1103	10 U	0.1 GU
LS-V1A	LV1A210602M	6/2/2021	0.1 GU	0.1 U	0.1 GU	0.1 U	0.1 U	0.5 U	0.4148	10 U	0.1 GU

See Data Qualifier List for Qualifier Information.

Landfill Gas Monitoring Data

Compliance Probes

- INTERIOR LFG MONITORING PROBES
- MONITORING PROBES AT PROPERTY BOUNDARY



CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
April 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	4/13/2021 11:03	0.0	0.0	20.3	0	0	
ATC-1S	4/13/2021 11:02	0.0	0.0	20.3	0	0.13	
ATC-6D	4/13/2021 12:05	0.0	0.6	6.1	0	-0.01	
ATC-6S	4/13/2021 12:04	0.0	0.1	19.9	0	0.08	
ATC-8D	4/13/2021 11:57	0.0	1.3	17.7	0	-0.03	
ATC-8S	4/13/2021 11:56	0.0	0.2	19.3	0	0.07	
GP-11A	4/13/2021 10:52	0.0	0.1	20.1	0	0.1	
GP-11B	4/13/2021 10:53	0.0	0.0	20.2	0	-0.1	
GP-11C	4/13/2021 10:54	0.0	0.0	20.2	0	-0.14	
GP-11D	4/13/2021 10:55	0.0	0.1	20.2	0	0.07	
GP-12A	4/13/2021 11:10	0.0	0.1	20.4	0	0.11	
GP-12B	4/13/2021 11:11	0.0	0.0	20.4	0	0.11	
GP-12C	4/13/2021 11:12	0.0	0.1	19.2	0	1.37	
GP-12D	4/13/2021 11:13	0.0	0.1	20.3	0	-0.03	
GP-13A	4/13/2021 11:16	0.0	0.1	20.4	0	0.14	
GP-13B	4/13/2021 11:17	0.0	0.1	20.4	0	0.11	
GP-13C	4/13/2021 11:19	0.0	0.0	20.5	0	0.17	
GP-13D	4/13/2021 11:20	0.0	0.0	20.5	0	-1.23	
GP-14A	4/13/2021 11:24	0.0	0.1	20.5	0	-0.27	
GP-14B	4/13/2021 11:25	0.0	0.0	20.5	0	-0.35	
GP-15A	4/13/2021 11:44	0.0	0.1	20.3	0	0.03	
GP-15C	4/13/2021 11:45	0.0	0.4	18.0	0	0.07	
GP-15D	4/13/2021 11:46	0.0	0.1	20.2	0	-1.15	
GP-16A	4/13/2021 11:59	0.0	0.1	19.8	0	0.06	
GP-16B	4/13/2021 12:00	0.0	0.1	19.9	0	-0.75	
GP-16C	4/13/2021 12:01	0.0	0.1	20.0	0	-1.32	
GP-17A	4/13/2021 14:47	0.0	0.0	0.0	0	0	NR H2O
GP-17B	4/13/2021 14:48	0.0	0.6	17.0	0	0.06	
GP-17C	4/13/2021 14:50	0.0	0.0	20.1	0	-0.44	
GP-18A	4/13/2021 14:53	0.0	0.0	0.0	0	0	NR H2O
GP-18B	4/13/2021 14:55	0.0	0.2	13.8	0	0.17	
GP-18C	4/13/2021 14:56	0.0	0.1	19.4	0	-0.08	
GP-19A	4/13/2021 14:59	0.0	0.0	20.0	0	0.13	
GP-19B	4/13/2021 15:00	0.0	0.5	15.3	0	0.11	
GP-19C	4/13/2021 15:01	0.0	0.0	20.0	0	0.12	
GP-20A	4/13/2021 15:03	0.0	0.0	20.1	0	0.13	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
April 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-20B	4/13/2021 15:05	0.0	0.2	17.7	0	0.28	
GP-20C	4/13/2021 15:06	0.0	0.2	7.6	0	0.3	
GP-21A	4/13/2021 15:08	0.0	0.3	19.5	0	0.12	
GP-21B	4/13/2021 15:09	0.0	0.1	9.3	0	0.03	
GP-21C	4/13/2021 15:10	0.0	0.0	0.0	0	0	NR Flo Fail
GP-22A	4/13/2021 15:13	0.0	0.3	20.1	0	-9.83	
GP-22C	4/13/2021 15:14	0.0	1.0	1.5	0	0.42	
GP-23A	4/13/2021 15:18	0.0	0.0	20.3	0	0.1	
GP-23B	4/13/2021 15:19	0.0	0.0	20.4	0	0.11	
GP-23C	4/13/2021 15:20	0.0	0.0	20.5	0	0.37	
GP-24A	4/13/2021 15:24	0.0	4.5	7.0	0	0.11	
GP-24B	4/13/2021 15:25	0.0	0.4	19.6	0	0.2	
GP-25	4/13/2021 15:28	0.0	2.4	13.8	0	0.1	
GP-26	4/13/2021 15:31	0.0	0.7	18.0	0	0.3	
GP-27	4/13/2021 15:33	0.0	6.4	8.2	0	0.1	
GP-29A	4/13/2021 15:36	0.0	5.1	10.1	0	0.1	
GP-29B	4/13/2021 15:37	0.0	0.6	19.8	0	0.12	
GP-30A	4/13/2021 9:43	0.0	2.1	17.2	0	0.02	
GP-30B	4/13/2021 9:44	0.0	0.1	20.0	0	-0.91	
GP-31A	4/13/2021 9:48	0.0	0.0	0.0	0	0	NR H2O
GP-31B	4/13/2021 9:51	0.0	0.1	19.8	0	-0.44	
GP-31C	4/13/2021 9:52	0.0	0.1	19.7	0	0.01	
GP-32A	4/13/2021 9:55	0.0	0.1	19.8	0	0.03	
GP-32B	4/13/2021 9:56	0.0	0.2	19.7	0	0.03	
GP-32C	4/13/2021 9:57	0.0	0.3	19.6	0	-0.03	
GP-33A	4/13/2021 9:59	0.0	0.1	19.8	0	0.06	
GP-33B	4/13/2021 10:00	0.0	0.1	19.8	0	-0.01	
GP-33C	4/13/2021 10:01	0.0	0.1	19.8	0	-1.11	
GP-34A	4/13/2021 10:03	0.0	0.0	0.0	0	0	NR H2O
GP-34B	4/13/2021 10:05	0.0	0.1	19.9	0	-0.03	
GP-34C	4/13/2021 10:06	0.0	0.1	19.9	0	-1.02	
GP-35A	4/13/2021 10:08	0.0	0.1	19.9	0	0.08	
GP-35B	4/13/2021 10:09	0.0	0.1	19.9	0	0.07	
GP-35C	4/13/2021 10:10	0.0	0.1	20.0	0	-0.01	
GP-36A	4/13/2021 10:13	0.0	0.1	19.5	0	0.06	
GP-36B	4/13/2021 10:13	0.0	0.0	0.0	0	0	NR H2O

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
April 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-36C	4/13/2021 10:15	0.0	0.1	19.9	0	-0.12	
GP-37A	4/13/2021 10:17	0.0	0.0	0.0	0	0	NR H2O
GP-37B	4/13/2021 10:18	0.0	0.0	0.0	0	0	NR Flo Fail
GP-37C	4/13/2021 10:19	0.0	0.1	19.6	0	-0.81	
GP-39	4/13/2021 10:23	0.0	0.7	17.7	0	0.11	
GP-40	4/13/2021 10:26	0.0	0.1	17.5	0	0.1	
GP-41A	4/13/2021 10:29	0.0	0.1	19.9	0	0.11	
GP-41B	4/13/2021 10:30	0.0	0.1	19.6	0	0.25	
GP-41C	4/13/2021 10:31	0.0	0.1	19.9	0	-0.03	
GP-42A	4/13/2021 10:33	0.0	0.0	0.0	0	0	NR H2O
GP-42B	4/13/2021 10:35	0.0	0.4	18.2	0	-0.3	
GP-43A	4/13/2021 10:38	0.0	0.0	0.0	0	0	NR Flo Fail
GP-43B	4/13/2021 10:39	0.0	0.1	19.9	0	0.04	
GP-43C	4/13/2021 10:40	0.0	0.1	20.0	0	0.08	
GP-44A	4/13/2021 10:44	0.0	0.0	19.9	0	0.16	
GP-44B	4/13/2021 10:45	0.0	0.1	19.0	0	0.07	
GP-44C	4/13/2021 10:46	0.0	0.1	20.0	0	0.1	
GP-45D	4/13/2021 10:51	0.0	0.0	20.1	0	-0.23	
GP-45I	4/13/2021 10:50	0.0	0.0	20.0	0	0.09	
GP-45S	4/13/2021 10:49	0.0	0.1	20.0	0	0.13	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
May 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	5/11/2021 13:24	0	0.2	19.8	0	0.08	
ATC-1S	5/11/2021 13:22	0	0.1	21	0	0.09	H2O @45 secs
ATC-6D	5/11/2021 14:35	0	0.2	18.2	0	0	
ATC-6S	5/11/2021 14:33	0	1.1	18.1	0	0	
ATC-8D	5/11/2021 14:46	0	2.5	16.4	0	0.08	
ATC-8S	5/11/2021 14:44	0	0.2	18.2	0	0.15	
GP-11A	5/11/2021 13:10	0	0.1	20.8	0	0.56	
GP-11B	5/11/2021 13:11	0	0	20.9	0	0.5	
GP-11C	5/11/2021 13:12	0	0	21	0	0.43	
GP-11D	5/11/2021 13:14	0	0	21	0	0.1	
GP-12A	5/11/2021 13:49	0	0	20.6	0	0	
GP-12B	5/11/2021 13:51	0	0	20.6	0	0	
GP-12C	5/11/2021 13:52	0	0.2	18.4	0	-14.74	
GP-12D	5/11/2021 13:53	0	0.2	20.4	0	0.16	
GP-13A	5/11/2021 13:30	0	0	21.2	0	0	
GP-13B	5/11/2021 13:33	0	0.1	20.6	0	0.1	
GP-13C	5/11/2021 13:34	0	0	20.7	0	0.02	
GP-13D	5/11/2021 13:36	0	0	20.7	0	0.16	
GP-14A	5/11/2021 14:01	0	0	20.3	0	0.07	
GP-14B	5/11/2021 14:02	0	0	20.4	0	-0.02	
GP-15A	5/11/2021 15:02	0	0	20.2	0	0.09	
GP-15C	5/11/2021 15:03	0	0.4	17.7	0	0.09	
GP-15D	5/11/2021 15:04	0	0	20.3	0	-1.08	
GP-16A	5/11/2021 14:39	0	1.1	16.8	0	0.07	
GP-16B	5/11/2021 14:40	0	0.1	20.1	0	0	
GP-16C	5/11/2021 14:41	0	0.1	20.2	0	0.28	
GP-17A	5/11/2021 9:15	0	0.1	20.6	0	-0.21	
GP-17B	5/11/2021 9:17	0	0.8	17.4	0	0	
GP-17C	5/11/2021 9:18	0	0.1	20.5	0	-0.42	
GP-18A	5/11/2021 9:21	0	1.7	13.7	0	0.32	
GP-18B	5/11/2021 9:23	0	0.4	14	0	0.17	
GP-18C	5/11/2021 9:24	0	0.1	20.3	0	-0.39	
GP-19A	5/11/2021 9:28	0	0.1	20.4	0	0.03	
GP-19B	5/11/2021 9:29	0	0.6	15.8	0	0	
GP-19C	5/11/2021 9:31	0	0.1	20.4	0	0.02	
GP-20A	5/11/2021 9:34	0	0.1	20.4	0	0.05	
GP-20B	5/11/2021 9:36	0	0.3	18.7	0	0	
GP-20C	5/11/2021 9:37	0	0.2	7.1	0	0.4	
GP-21A	5/11/2021 9:41	0	0.1	20.3	0	0.09	
GP-21B	5/11/2021 9:42	0	0.1	9.7	0	0.03	
GP-21C	5/11/2021 9:43	0	0.2	15.7	0	0.37	Pump flow fail @20secs
GP-22A	5/11/2021 9:47	0	0.5	20	0	-5.43	
GP-22C	5/11/2021 9:49	0	1.2	1.6	0	-0.21	
GP-23A	5/11/2021 9:53	0	0.1	20.6	0	0.04	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
May 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-23B	5/11/2021 9:55	0	0.1	20.7	0	0.02	
GP-23C	5/11/2021 9:56	0	0.1	20.8	0	0	
GP-24A	5/11/2021 10:00	0	5.6	9.1	0	0	
GP-24B	5/11/2021 10:02	0	0.3	20.3	0	0.05	
GP-25	5/11/2021 10:05	0	2.9	15.5	0	0.04	
GP-26	5/11/2021 10:08	0	0.7	19.4	0	0.06	
GP-27	5/11/2021 10:11	0	7.6	8.4	0	0.04	
GP-29A	5/11/2021 10:16	0	1.9	17.6	0	0	
GP-29B	5/11/2021 10:18	0	0.7	20.6	0	0.06	
GP-30A	5/11/2021 10:26	0	2.1	18.4	0	0.05	
GP-30B	5/11/2021 10:27	0	1.1	19.4	0	-0.24	
GP-31A	5/11/2021 10:31	0	0	0	0	0	NR H2O
GP-31B	5/11/2021 10:32	0	0.2	17.9	0	0	
GP-31C	5/11/2021 10:34	0	0.1	20.9	0	0.06	
GP-32A	5/11/2021 10:37	0	0.2	20.9	0	0	
GP-32B	5/11/2021 10:38	0	0.3	20.7	0	0.15	
GP-32C	5/11/2021 10:40	0	0.2	20.8	0	0.07	
GP-33A	5/11/2021 10:43	0	1.9	18	0	0	
GP-33B	5/11/2021 10:44	0	0.1	21	0	0	
GP-33C	5/11/2021 10:46	0	0.1	21	0	-0.45	
GP-34A	5/11/2021 10:48	0	0	0	0	0	NR H2O
GP-34B	5/11/2021 10:49	0	0.1	20.9	0	0	
GP-34C	5/11/2021 10:51	0	0.1	21	0	-0.28	
GP-35A	5/11/2021 10:54	0	0	0	0	0	NR H2O
GP-35B	5/11/2021 10:55	0	0.1	21	0	0.07	
GP-35C	5/11/2021 10:57	0	0.1	20.9	0	0	
GP-36A	5/11/2021 11:00	0	0.3	4.2	0	0.12	
GP-36B	5/11/2021 11:01	0	0.1	20.8	0	-0.03	
GP-36C	5/11/2021 11:03	0	0.3	13.6	0	0	
GP-37A	5/11/2021 11:07	0	0	0	0	0	NR H2O
GP-37B	5/11/2021 11:08	0	0	20.8	0	0.38	Pump flow fail @20secs
GP-37C	5/11/2021 11:09	0	0.5	1.8	0	0.14	
GP-39	5/11/2021 11:15	0	1.5	17.6	0	0	
GP-40	5/11/2021 11:19	0	0.1	17.3	0	0	
GP-41A	5/11/2021 11:23	0	0.1	20.6	0	0	
GP-41B	5/11/2021 11:25	0	0.1	20.4	0	0.16	
GP-41C	5/11/2021 11:26	0	0.1	20.5	0	0	
GP-42A	5/11/2021 12:09	0	0	0	0	0	NR H2O
GP-42B	5/11/2021 12:11	0	0.9	17	0	0.32	
GP-43A	5/11/2021 12:14	0	0.2	18.7	0	0.04	Pump flow fail @10secs
GP-43B	5/11/2021 12:15	0	0	20.6	0	0.14	
GP-43C	5/11/2021 12:17	0	0.1	20.6	0	0	
GP-44A	5/11/2021 12:20	0	0.1	20.7	0	0.13	
GP-44B	5/11/2021 12:22	0	0.1	20.4	0	-0.97	

CEDAR HILLS REGIONAL LANDFILL
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Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-44C	5/11/2021 12:23	0	0	20.7	0	0	
GP-45D	5/11/2021 13:08	0	0	20.9	0	0.38	
GP-45I	5/11/2021 13:06	0	0	20.8	0	0	
GP-45S	5/11/2021 13:05	0	0	20.7	0	0.11	

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Compliance Probes

June 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	6/10/2021 10:42	0.0	0.1	20.5	0.0	-0.02	
ATC-1S	6/10/2021 10:42	0.0	0.1	20.7	0.0	-0.01	
ATC-6D	6/10/2021 13:16	0.0	0.3	19.9	0.0	-0.01	
ATC-6S	6/10/2021 13:15	0.0	0.9	19.7	0.0	0.05	
ATC-8D	6/10/2021 13:07	0.0	1.9	18.3	0.0	0.08	
ATC-8S	6/10/2021 13:06	0.0	0.2	19.8	0.0	0.03	
GP-11A	6/10/2021 10:31	0.0	0.7	19.5	0.0	0.03	
GP-11B	6/10/2021 10:32	0.0	0.1	20.7	0.0	-0.43	
GP-11C	6/10/2021 10:33	0.0	0.1	20.8	0.0	-0.51	
GP-11D	6/10/2021 10:33	0.0	0.1	20.8	0.0	0.09	
GP-12A	6/10/2021 10:58	0.0	0.1	21.0	0.0	0.03	
GP-12B	6/10/2021 10:59	0.0	0.1	21.0	0.0	-0.02	
GP-12C	6/10/2021 10:59	0.0	0.1	20.9	0.0	-11.02	
GP-12D	6/10/2021 11:00	0.0	0.1	20.8	0.0	-0.03	
GP-13A	6/10/2021 10:51	0.0	0.9	20.0	0.0	0.01	
GP-13B	6/10/2021 10:52	0.0	0.1	20.7	0.0	0.09	
GP-13C	6/10/2021 10:53	0.0	0.1	20.9	0.0	-0.04	
GP-13D	6/10/2021 10:53	0.0	0.1	20.9	0.0	-1.75	
GP-14A	6/10/2021 11:06	0.0	0.1	21.0	0.0	-0.54	
GP-14B	6/10/2021 11:07	0.0	0.1	21.0	0.0	-0.58	
GP-15A	6/10/2021 11:24	0.0	0.1	20.5	0.0	0	
GP-15C	6/10/2021 11:25	0.0	0.5	18.5	0.0	-0.03	
GP-15D	6/10/2021 11:26	0.0	0.1	20.5	0.0	-0.9	
GP-16A	6/10/2021 13:10	0.0	2.0	18.7	0.0	0.08	
GP-16B	6/10/2021 13:11	0.0	0.1	20.3	0.0	-1.73	
GP-16C	6/10/2021 13:11	0.0	0.1	20.4	0.0	-1.77	
GP-17A	6/10/2021 14:26	0.0	0.1	20.1	0.0	0.02	
GP-17B	6/10/2021 14:27	0.0	0.7	17.6	0.0	0.01	
GP-17C	6/10/2021 14:27	0.0	0.1	20.0	0.0	-1.52	
GP-18A	6/10/2021 14:31	0.0	1.9	14.9	0.0	0.05	
GP-18B	6/10/2021 14:32	0.0	0.3	17.8	0.0	0.03	
GP-18C	6/10/2021 14:32	0.0	0.2	19.5	0.0	-1.69	
GP-19A	6/10/2021 14:35	0.0	0.1	20.0	0.0	0.05	
GP-19B	6/10/2021 14:36	0.0	0.6	15.9	0.0	0.02	
GP-19C	6/10/2021 14:37	0.0	0.1	20.0	0.0	0.03	
GP-20A	6/10/2021 14:41	0.0	0.3	19.6	0.0	0.05	
GP-20B	6/10/2021 14:42	0.0	0.3	15.7	0.0	0.05	
GP-20C	6/10/2021 14:43	0.0	0.2	6.3	0.0	0.43	
GP-21A	6/10/2021 14:46	0.0	0.1	19.8	0.0	0.02	
GP-21B	6/10/2021 14:47	0.0	0.1	9.7	0.0	0.06	
GP-21C	6/10/2021 14:48	0.0	0.1	19.9	0.0	0.01	

CEDAR HILLS REGIONAL LANDFILL

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June 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-22A	6/10/2021 14:51	0.0	2.2	14.2	0.0	0.07	
GP-22C	6/10/2021 14:52	0.0	1.3	1.4	0.0	-0.46	
GP-23A	6/10/2021 14:58	0.0	0.1	20.1	0.0	0.07	
GP-23B	6/10/2021 14:59	0.0	0.1	20.2	0.0	0.01	
GP-23C	6/10/2021 15:00	0.0	0.1	20.2	0.0	0.07	
GP-24A	6/10/2021 15:03	0.0	5.7	12.0	0.0	0.06	
GP-24B	6/10/2021 15:04	0.0	0.2	20.0	0.0	-0.69	
GP-25	6/10/2021 15:07	0.0	3.3	16.6	0.0	0.03	
GP-26	6/10/2021 15:10	0.0	0.6	19.3	0.0	0.03	
GP-27	6/10/2021 15:22	0.0	9.0	7.8	0.0	0.07	
GP-29A	6/10/2021 15:26	0.0	1.7	17.5	0.0	0.39	
GP-29B	6/10/2021 15:27	0.0	0.6	19.9	0.0	0.06	
GP-30A	6/10/2021 8:45	0.0	2.4	18.1	0.0	-0.12	
GP-30B	6/10/2021 8:46	0.0	1.2	20.2	0.0	-0.92	
GP-31A	6/10/2021 9:10	4.4	14.2	1.5	88.0	0.03	
GP-31B	6/10/2021 9:11	0.0	0.5	19.6	0.0	-0.73	
GP-31C	6/10/2021 9:12	0.0	0.3	20.3	0.0	0.04	
GP-32A	6/10/2021 9:15	0.0	0.3	20.4	0.0	-0.05	
GP-32B	6/10/2021 9:16	0.0	0.3	20.6	0.0	0.03	
GP-32C	6/10/2021 9:16	0.0	0.4	20.6	0.0	-0.05	
GP-33A	6/10/2021 9:19	0.0	2.0	19.2	0.0	0.03	
GP-33B	6/10/2021 9:19	0.0	0.2	20.6	0.0	0	
GP-33C	6/10/2021 9:20	0.0	0.1	20.9	0.0	-1.22	
GP-34A	6/10/2021 9:23	0.0	0.4	20.8	0.0	-0.16	
GP-34B	6/10/2021 9:24	0.0	0.1	20.7	0.0	0.05	
GP-34C	6/10/2021 9:25	0.0	0.1	20.9	0.0	-1.3	
GP-35A	6/10/2021 9:27	0.0	0.3	20.7	0.0	0.01	
GP-35B	6/10/2021 9:28	0.0	0.2	20.8	0.0	-0.01	
GP-35C	6/10/2021 9:29	0.0	0.1	20.9	0.0	-0.03	
GP-36A	6/10/2021 9:31	0.0	0.3	13.9	0.0	0.03	
GP-36B	6/10/2021 9:32	0.0	0.2	19.5	0.0	-0.03	
GP-36C	6/10/2021 9:33	0.0	0.1	20.6	0.0	-1.61	
GP-37A	6/10/2021 9:37	0.0	0.2	20.7	0.0	0.05	
GP-37B	6/10/2021 9:37	0.0	0.1	20.9	0.0	0.39	
GP-37C	6/10/2021 9:38	0.0	0.2	20.7	0.0	-1.86	
GP-39	6/10/2021 9:43	0.0	1.3	19.4	0.0	0.03	
GP-40	6/10/2021 9:47	0.0	0.2	19.3	0.0	0.03	
GP-41A	6/10/2021 9:50	0.0	6.6	14.2	0.0	0.3	
GP-41B	6/10/2021 9:51	0.0	0.4	19.7	0.0	0.03	
GP-41C	6/10/2021 9:52	0.0	0.2	20.7	0.0	-0.02	
GP-42A	6/10/2021 9:57	0.0	0.3	20.7	0.0	-0.11	

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Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-42B	6/10/2021 9:58	0.0	0.2	20.7	0.0	-0.68	
GP-43A	6/10/2021 10:01	0.0	0.4	19.9	0.0	0.49	
GP-43B	6/10/2021 10:02	0.0	0.1	20.7	0.0	0.02	
GP-43C	6/10/2021 10:03	0.0	0.1	20.8	0.0	-0.08	
GP-44A	6/10/2021 10:06	0.0	0.1	20.7	0.0	0.03	
GP-44B	6/10/2021 10:07	0.0	0.2	20.6	0.0	-0.48	
GP-44C	6/10/2021 10:08	0.0	0.1	20.7	0.0	0.02	
GP-45D	6/10/2021 10:29	0.0	0.1	20.8	0.0	-0.57	
GP-45I	6/10/2021 10:28	0.0	0.1	20.8	0.0	-0.03	
GP-45S	6/10/2021 10:27	0.0	0.1	20.7	0.0	-0.03	

Interior Probes

CEDAR HILLS REGIONAL LANDFILL

Landfill Gas Interior Probes

April 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	4/13/2021 11:41	0.0	0.1	20.3	0	-0.04	
ATC-3S	4/13/2021 11:40	0.0	0.1	20.4	0	0.01	
GP-1A	4/14/2021 21:23	0.0	0.3	20.9	0	0.02	„
GP-1B	4/14/2021 21:25	0.0	0.1	21.0	0	0.04	„
GP-2A	4/14/2021 21:48	0.1	6.8	6.2	2	0.01	„
GP-2B	4/14/2021 21:50	0.1	0.1	21.0	2	-0.01	„
GP-3	4/14/2021 22:07	0.1	10.0	9.1	2	-0.01	„
GP-46D	4/14/2021 22:20	0.1	0.1	21.0	2	1.03	„
GP-46I	4/14/2021 22:18	2.3	0.3	18.6	46	0.39	„
GP-46S	4/14/2021 22:16	0.1	0.2	18.6	2	0.01	„
GP-47D	4/13/2021 12:25	0	0.5	18.4	0	0.1	
GP-47I	4/13/2021 12:24	51.8	22.3	0	>>>>	-0.67	
GP-47S	4/13/2021 12:23	0	0	20.2	0	-0.49	
GP-48D	4/14/2021 22:31	0.1	0.2	20.9	2	-0.13	„
GP-48I	4/14/2021 22:30	0.6	9.4	1.0	12	1.23	„
GP-48S	4/14/2021 22:28	0.1	0.5	17.5	2	-0.03	„
GP-4A	4/14/2021 21:56	0.1	0.1	21.0	2	-0.15	„
GP-4B	4/14/2021 21:58	0.1	0.1	21.0	2	-0.03	„
GP-52	4/13/2021 12:17	0.0	0.0	20.1	0	0.03	
GP-53	4/13/2021 12:18	0.0	0.5	18.8	0	0.06	
GP-54	4/13/2021 12:19	0.0	0.0	20.2	0	0.03	
GP-55	4/14/2021 21:10	0.0	0.2	20.7	0	-0.72	„
GP-56	4/14/2021 21:08	0.0	0.2	20.7	0	-0.08	„
GP-57	4/14/2021 21:04	30.9	15.6	8.4	>>>>	-11.05	„
GP-58	4/14/2021 21:02	0.0	16.7	14.0	0	-35.27	H2O
GP-59	4/14/2021 20:57	3.2	2.4	9.9	64	0.49	„
GP-5A	4/13/2021 11:31	0.0	0.0	20.5	0	-2.14	
GP-5BA	4/13/2021 11:32	0.0	0.2	20.3	0	0.14	
GP-5BB	4/13/2021 11:33	0.0	0.1	20.5	0	-2.09	
GP-5BC	4/13/2021 11:34	0.0	0.1	20.5	0	-2.02	
GP-5BD	4/13/2021 11:35	0.0	0.1	20.5	0	-1.74	
GP-60	4/14/2021 20:56	0.0	0.1	20.6	0	0.02	„
GP-61	4/14/2021 20:44	0.0	1.1	19.6	0	0.38	„
GP-62	4/14/2021 20:42	0.0	3.2	18.0	0	0.04	„
GP-63A	4/13/2021 11:50	0.0	0.1	20.0	0	0.03	
GP-63B	4/13/2021 11:51	0.0	0.1	19.5	0	0.11	
GP-63C	4/13/2021 11:52	0.0	0.0	20.0	0	-1.33	
GP-64A	4/13/2021 12:08	0.0	0.2	19.7	0	0.07	
GP-64B	4/13/2021 12:09	0.0	0.1	20.1	0	0.07	
GP-64C	4/13/2021 12:10	0.0	0.1	20.1	0	-1.55	

**CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
April 2021 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-6A	4/14/2021 21:28	0.0	0.1	21.0	0	1.10	„
GP-6B	4/14/2021 21:30	0.0	0.1	21.0	0	1.53	„
GP-6C	4/14/2021 21:31	0.0	0.1	21.0	0	1.56	„
GP-6D	4/14/2021 21:33	0.0	0.1	21.0	0	0.87	„
GP-6E	4/14/2021 21:35	0.0	0.2	20.1	0	1.58	„
GP-6F	4/14/2021 21:37	0.0	0.1	21.0	0	1.50	„
GP-6G	4/14/2021 21:38	0.0	1.2	14.2	0	1.66	„
GP-6H	4/14/2021 21:40	0.0	0.1	21.0	0	1.13	„
GP-7	4/14/2021 21:20	0.0	0.1	21.1	0	1.38	„
GP-8	4/14/2021 21:16	0.0	0.5	18.2	0	1.31	„
GP-9	4/14/2021 20:51	0.0	0.1	20.5	0	1.44	„
GP-B4-1	4/14/2021 22:01	0.1	3.0	17.8	2	0.84	„
GP-B4-2	4/14/2021 22:03	0.1	0.2	21.0	2	1.19	„

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
May 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	5/11/2021 14:57	0	0	0	0	0	NR H2O
ATC-3S	5/11/2021 14:57	0	0	20.2	0	-0.47	
GP-1A	5/14/2021 20:16	0.0	0.6	20.8	0	0	
GP-1B	5/14/2021 20:18	0.0	0.2	21.0	0	-0.05	
GP-2A	5/14/2021 21:48	0.0	7.9	8.2	0	0.06	
GP-2B	5/14/2021 21:49	0.0	0.2	20.1	0	-0.03	
GP-3	5/14/2021 22:00	0.0	11.3	11.2	0	-0.05	
GP-46D	5/14/2021 20:39	0.0	0.2	21.0	0	0.6	
GP-46I	5/14/2021 20:37	4.2	0.4	16.7	84	1.19	
GP-46S	5/14/2021 20:36	0.0	0.2	19.5	0	0.95	
GP-47D	5/11/2021 15:32	0	0.8	17.5	0	0.05	
GP-47I	5/11/2021 15:31	46.2	21.9	0.1	>>>>	0.87	
GP-47S	5/11/2021 15:30	0.7	2.6	13.7	14	1.09	
GP-48D	5/14/2021 22:05	3.8	9.2	0.8	76	-0.54	
GP-48I	5/14/2021 22:09	0.0	0.3	21.0	0	1.11	
GP-48S	5/14/2021 22:07	0.0	0.6	18.1	0	-0.03	
GP-4A	5/14/2021 21:53	0.0	9.4	6.4	0	-0.02	
GP-4B	5/14/2021 21:54	0.0	0.2	20.5	0	-0.02	
GP-52	5/11/2021 15:20	0	0.1	20.2	0	0.28	
GP-53	5/11/2021 15:22	0	0.3	19.5	0	0.44	
GP-54	5/11/2021 15:23	0	0	20.3	0	0.14	
GP-55	5/14/2021 20:06	0.0	0.4	20.4	0	0.01	
GP-56	5/14/2021 20:08	0.0	1.4	18.4	0	-0.12	
GP-57	5/14/2021 20:02	50.3	24.8	0.4	>>>>	-9.21	
GP-58	5/14/2021 20:04	0.0	0.0	0.0	0	0	Flow Fail
GP-59	5/14/2021 19:58	0.1	5.1	2.5	2	1.12	
GP-5A	5/11/2021 15:08	0	0	20.3	0	-0.39	
GP-5BA	5/11/2021 15:10	0	0.2	20	0	0.25	
GP-5BB	5/11/2021 15:12	0	0	20.3	0	-0.33	
GP-5BC	5/11/2021 15:13	0	0	20.4	0	-0.36	
GP-5BD	5/11/2021 15:14	0	0.1	20.4	0	-0.06	
GP-60	5/14/2021 20:00	0.0	0.2	20.5	0	-0.01	
GP-61	5/14/2021 19:48	0.0	1.7	19.6	0	0.41	
GP-62	5/14/2021 19:50	0.0	4.3	14.5	0	-0.01	
GP-63A	5/11/2021 14:50	0	0.2	20	0	0.09	
GP-63B	5/11/2021 14:51	0	0.1	19.9	0	0	
GP-63C	5/11/2021 14:52	0	0	20.3	0	0.25	
GP-64A	5/11/2021 14:24	0	0.2	20	0	0.11	
GP-64B	5/11/2021 14:25	0	1.2	16.5	0	0.13	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
May 2021 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-64C	5/11/2021 14:26	0	0.1	20.1	0	-0.13	
GP-6A	5/14/2021 20:20	0.0	0.2	21.0	0	0.37	
GP-6B	5/14/2021 20:22	0.0	0.2	21.0	0	0.9	
GP-6C	5/14/2021 20:24	0.0	0.2	21.0	0	0.94	
GP-6D	5/14/2021 20:25	0.0	0.2	21.0	0	1.07	
GP-6E	5/14/2021 20:27	0.0	0.3	20.4	0	1.03	
GP-6F	5/14/2021 20:29	0.0	0.2	21.0	0	0.85	
GP-6G	5/14/2021 20:30	0.0	1.3	13.8	0	1.02	
GP-6H	5/14/2021 20:32	0.0	0.2	21.0	0	0.51	
GP-7	5/14/2021 20:13	0.0	0.2	20.9	0	0.73	
GP-8	5/14/2021 20:11	0.0	0.8	17.2	0	0.91	
GP-9	5/14/2021 19:53	0.0	0.3	20.4	0	0.87	
GP-B4-1	5/14/2021 21:57	0.0	3.3	17.1	0	-0.03	
GP-B4-2	5/14/2021 21:58	0.0	1.2	19.5	0	-0.11	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
June 2021 Monitoring Data

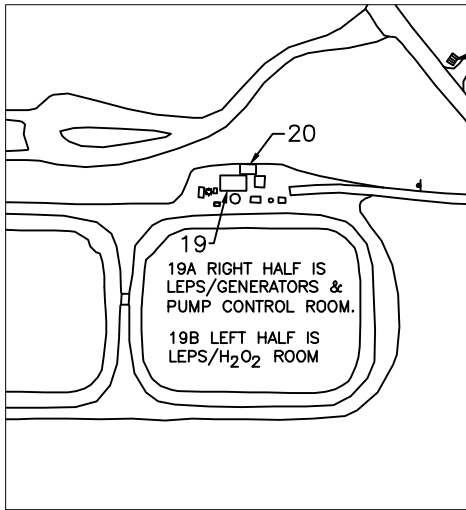
Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	6/10/2021 11:22	0.0	0.1	20.6	0	0.02	None
ATC-3S	6/10/2021 11:21	0.0	0.1	20.6	0	-0.01	None
GP-1A	6/20/2021 22:50	0.0	1.1	19.7	0.0	0.09	None
GP-1B	6/20/2021 22:52	0.0	0.1	20.7	0.0	0.06	None
GP-2A	6/20/2021 23:16	0.0	9.3	8.0	0.0	0.07	None
GP-2B	6/20/2021 23:17	0.0	0.2	20.6	0.0	0.05	None
GP-3	6/20/2021 23:35	0.0	12.0	12.0	0.0	-0.10	None
GP-46D	6/20/2021 23:44	0.0	0.1	20.9	0.0	0.86	None
GP-46I	6/20/2021 23:42	2.9	0.2	17.8	58.0	1.64	None
GP-46S	6/20/2021 23:40	0.0	0.1	18.5	0.0	0.06	None
GP-47D	6/10/2021 14:18	0.0	0.3	19.8	0	0.01	None
GP-47I	6/10/2021 14:17	42.6	19.1	3.1	>>>>	-1.36	None
GP-47S	6/10/2021 14:16	0.0	0.1	20.6	0	-1.31	None
GP-48D	6/20/2021 23:53	11.7	9.5	0.1	>>>>	1.17	None
GP-48I	6/20/2021 23:51	0.0	0.2	20.7	0.0	-0.03	None
GP-48S	6/20/2021 23:49	0.0	0.5	17.2	0.0	0.06	None
GP-4A	6/20/2021 23:24	0.0	0.1	20.8	0.0	0.06	None
GP-4B	6/20/2021 23:26	0.0	0.1	20.7	0.0	0.05	None
GP-52	6/10/2021 10:19	0.0	0.2	20.7	0	-0.03	None
GP-53	6/10/2021 10:21	0.0	0.3	20.0	0	-0.04	None
GP-54	6/10/2021 10:22	0.0	0.1	20.7	0	0.01	None
GP-55	6/20/2021 22:33	0.0	0.3	20.3	0.0	0.10	None
GP-56	6/20/2021 22:31	0.0	1.8	18.8	0.0	0.00	None
GP-57	6/20/2021 22:27	50.9	25.2	0.4	>>>>	-8.00	None
GP-58	6/20/2021 22:25	1.0	27.3	0.0	20.0	-0.01	None
GP-59	6/20/2021 22:20	22.6	7.2	1.9	>>>>	0.43	None
GP-5A	6/10/2021 11:16	0.0	0.1	20.7	0	-2.62	None
GP-5BA	6/10/2021 11:11	0.0	0.2	20.8	0	0.01	None
GP-5BB	6/10/2021 11:12	0.0	0.2	21.0	0	-2.61	None
GP-5BC	6/10/2021 11:13	0.0	0.1	21.0	0	-2.61	None
GP-5BD	6/10/2021 11:14	0.0	0.1	21.0	0	-2.48	None
GP-60	6/20/2021 22:18	0.0	0.1	20.5	0.0	0.01	None
GP-61	6/20/2021 22:08	0.0	1.5	19.6	0.0	0.78	None
GP-62	6/20/2021 22:06	0.0	3.8	15.2	0.0	0.52	None
GP-63A	6/10/2021 13:01	0.0	0.2	21.0	0.0	0.06	None
GP-63B	6/10/2021 13:02	0.0	0.1	19.7	0.0	0.07	None
GP-63C	6/10/2021 13:03	0.0	0.1	20.2	0.0	-1.65	None
GP-64A	6/10/2021 11:31	0.0	0.3	20.3	0.0	-0.03	None

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
June 2021 Monitoring Data

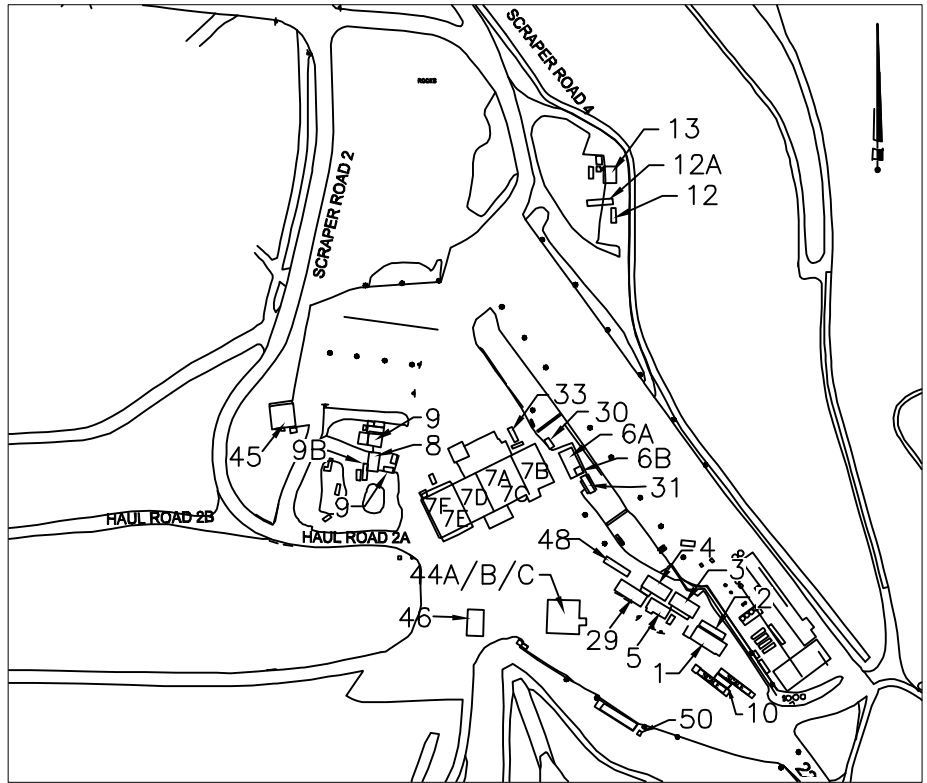
Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-64B	6/10/2021 11:33	0.0	1.5	17.0	0.0	0.04	None
GP-64C	44357.48264	0	0.1	20.4	0	-2.19	None
GP-06A	6/20/2021 22:58	0.0	0.1	20.6	0.0	1.30	None
GP-06B	6/20/2021 22:59	0.0	0.1	20.8	0.0	1.74	None
GP-06C	6/20/2021 23:01	0.0	0.1	20.8	0.0	1.70	None
GP-06D	6/20/2021 23:03	0.0	2.2	8.3	0.0	1.39	None
GP-06E	6/20/2021 23:05	0.0	0.2	19.8	0.0	1.67	None
GP-06F	6/20/2021 23:07	0.0	0.1	20.8	0.0	1.69	None
GP-06G	6/20/2021 23:08	0.0	1.2	12.9	0.0	1.37	None
GP-06H	6/20/2021 23:10	0.0	1.3	12.9	0.0	1.36	None
GP-7	44367.94931	0	0.5	19.1	0	1.41	None
GP-8	44367.94236	0	2.7	15.4	0	1.39	None
GP-9	44367.92639	0	0.2	20.4	0	1.41	None
GP-B4-1	44367.97917	0	3.3	17.1	0	1.05	None
GP-B4-2	44367.98056	0	2.1	18.7	0	1.3	None

On-Site Building Monitoring

Aeration Ponds

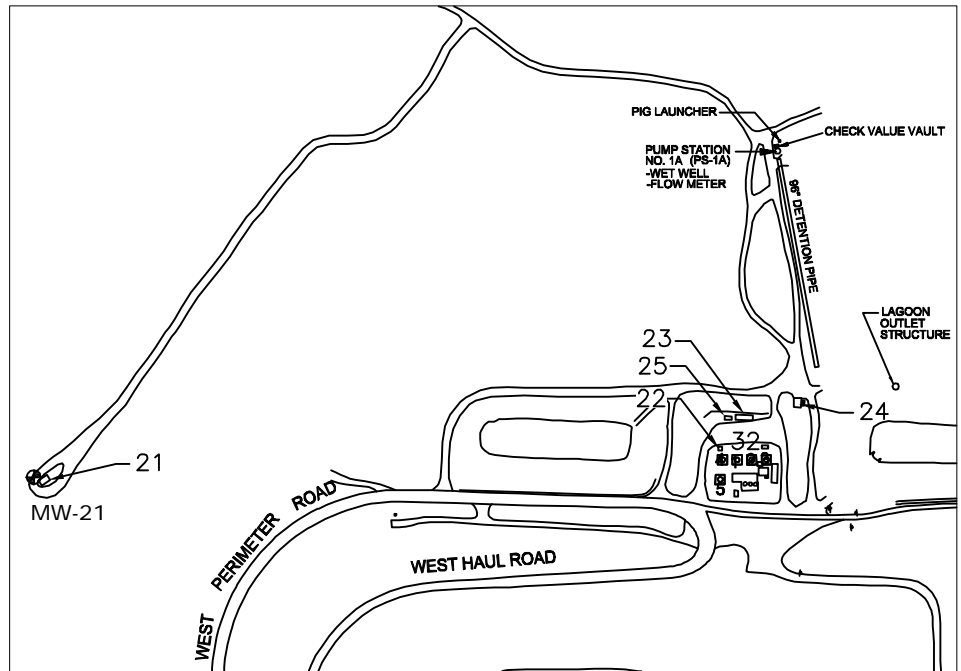


Shop and Office Buildings



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



Landfill Gas Structure Monitoring Location

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

DATE:	February 2012
DESIGNED BY:	
DRAWN BY:	
REVISED BY:	

PROJECT NO.

FIGURE NO.

**SECOND QUARTER
BUILDING MONITORING**



King County

INSTRUMENT: Place check by instrument used :

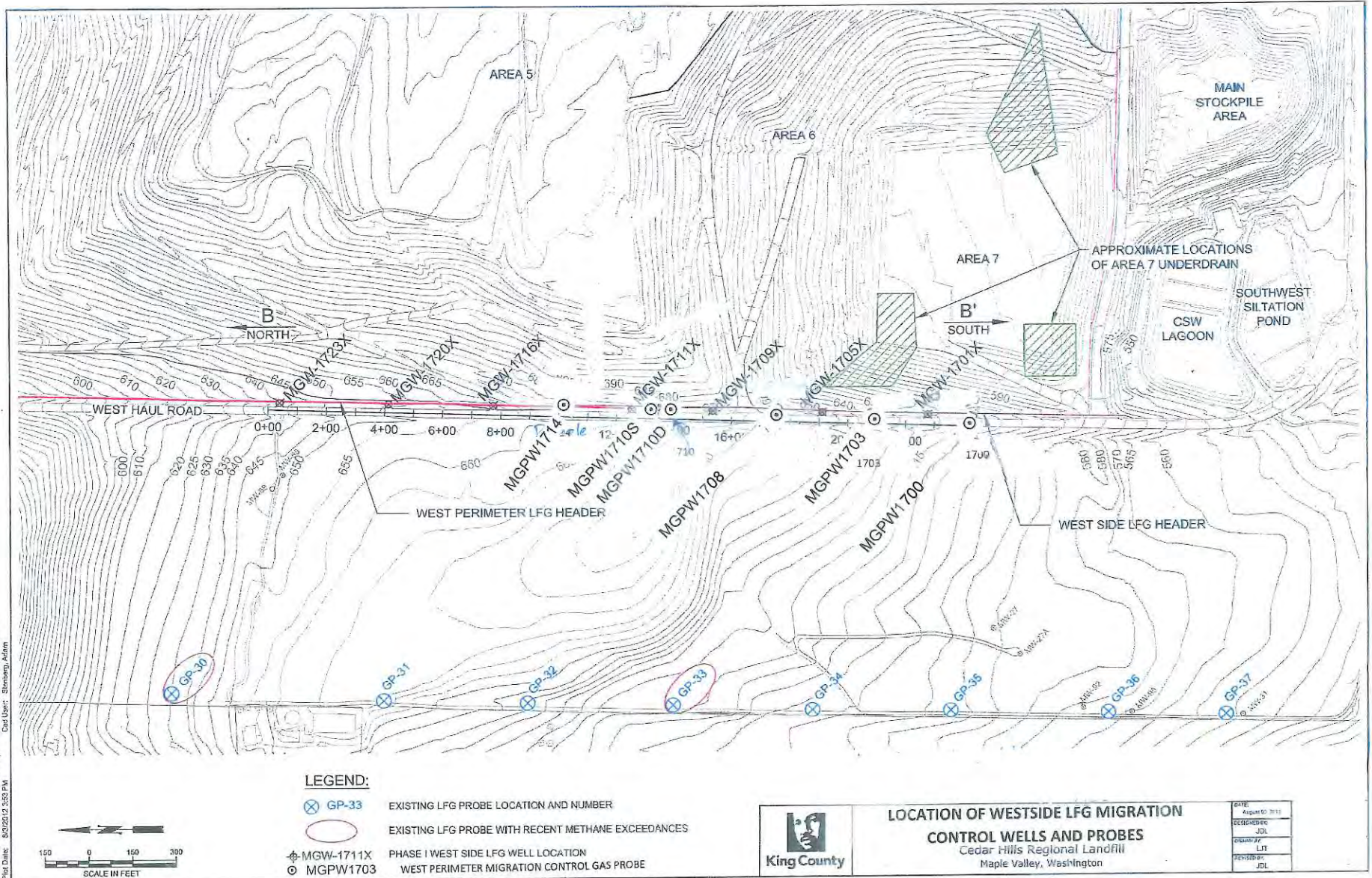
WEATHER: DATE: 04/28/21

OVERCAST TECH: DNS

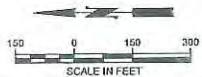
SEM 500 ×

ENVIS ID	BLDG #	DESCRIPTION	CH ₄ (ppm)	REMARKS	BAR PRESS (in. Hg)	TIME
GOC- 04/28/21	1	FRONT OFFICE				
GCR- 04/28/21	2	CONF ROOM			30.14	4:55 AM
GAO- 04/28/21	3	PAYROLL OFFICE				
GEO- 04/28/21	4	ENGR. OFFICE				
GLRC- 04/28/21	5	LUNCHROOM				
GSPC 04/28/21		SPOC				
GELO- 04/28/21	A 6A	DRY STORAGE	N/A	COMPLETELY OBSTRUCTED.		
GELO- 04/28/21	B 6B	ELECTRICIAN OFFICE				
GAP- 04/28/21		ACCOUNT PAYABLE				
GSO- 04/28/21	A 7A	SHOP OFFICE				
GPR- 04/28/21	B 7B	PARTS ROOM				
GMS- 04/28/21	C 7C	SHOP PIT AREA/BAY				
GTB- 04/28/21	D 7D	SHOP TIRE BAY				
GEW- 04/28/21	E 7E	EAST WELD SHOP				
GWV- 04/28/21	F 7F	WEST WELD SHOP				
GCS- 04/28/21	8	CARPENTER'S				
GSS- 04/28/21	9	WASTEWATER				
GSS- 04/28/21	B 9B	CARPENTER/STORAGE	N/A	BULD REMOVED		
GSH- 04/28/21	10	SCALEHOUSE				
GB13- 04/28/21	13	WW COMPRESSOR				
GB16- 04/28/21	16	GENERATOR				
GB19- 04/28/21	19	LEPS (P.S.# 5)				
GB19- 04/28/21	B 19B	LEPS/H2O2 ROOM	N/A	BULD REMOVED		
GB20- 04/28/21	20	LEPS ELEC PANALS				
GB21- 04/28/21	21	STORAGE(OLD PS 1)	N/A			
GB22- 04/28/21	22	STORAGE/N FLARE				
GB23- 04/28/21	23	LFGAS				
GB24- 04/28/21	24	NE GENERATOR BLDG				
GBWW- 04/28/21	30	WOMEN BRK RM				
GPWT- 04/28/21	PW	PRESSURE WASH RM				
GBRR- 04/28/21	RR	TRUCKWASH RR W				
GBSS- 04/28/21	SS	TRUCKWASH RR E				
GBZZ- 04/28/21	29	MANAGERS TRAILER				
GBPT- 04/28/21		CCG FASTER				
GCLS- 04/28/21		CHLORINE SHED		SMELL OF CHLORINE WITH 15 FT.		

Migration Probes



Path: S:\1003\1003\env\mon\CHRF\West Perimeter Migration Control.dwg
 Plot Date: 8/3/2012 9:53 PM
 User: Samsara Adam



CEDAR HILLS REGIONAL LANDFILL
West Perimeter Landfill Gas Migration Control Probes
Second Quarter 2021 Monitoring Data

Probe ID	Date	Time	Barometric			Static		Comments
			Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Pressure in INWC	
MGPW 1700	4/6/2021	8am	30.12	0	0.4	21	-0.06	
MGPW 1700	4/19/2021	11am	30.13	0	0.1	20.1	0.1	
MGPW 1700	5/14/2021	7:51am	30.04	0	0.2	20.1	0.01	
MGPW 1700	6/10/2021	3:40pm	30.05	0	0.3	20.7	0.04	
MGPW 1708	4/6/2021	8:10am	30.12	0	0.3	21	-0.06	
MGPW 1708	4/19/2021	10:48am	30.13	0	0.1	20.4	-1.78	
MGPW 1708	5/14/2021	8:02am	30.04	0	0.2	19.9	-1.02	
MGPW 1708	6/10/2021	3:35pm	30.05	0	0.2	20.9	-1.04	
MGPW 1710S	4/6/2021	8:12am	30.12	0	0.4	20.2	-0.69	
MGPW 1710S	4/19/2021	10:40AM	30.13	0	0.2	20.7	-1.69	
MGPW 1710S	5/14/2021	8:09am	30.04	0	0.1	20	-0.54	
MGPW 1710S	6/10/2021	3:31pm	30.05	0	0.2	20.9	-0.98	
MGPW 1710D	4/6/2021	8:16am	30.12	0	0.4	20.6	-0.76	
MGPW 1710D	4/19/2021	10:42A	30.13	0	0.1	20.7	-1.81	
MGPW 1710D	5/14/2021	8:11am	30.04	0	0.1	20.1	-0.97	
MGPW 1710D	6/10/2021	3:25pm	30.05	0	0.2	20.9	-0.99	
MGPW 1714	4/6/2021	8:20am	30.12	0	0.4	20	-0.96	
MGPW 1714	4/19/2021	10:38AM	30.15	0	0.2	20.6	-1.83	
MGPW 1714	5/14/2021	8:16am	30.04	0	0.1	20.2	-1.01	
MGPW 1714	6/10/2021	3:20pm	30.05	0	0.2	20.9	-0.97	

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)

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
4/1/21 0:11	1.984	91.6	23.01	8.67	29.16	0
4/1/21 0:28	5.549	150.4	12.5	9.76	29.16	0
4/1/21 0:33	9.19	163	7.722	9.22	29.16	0
4/1/21 0:57	8.77	168.2	6.574	9.25	29.13	0
4/1/21 1:02	8.3	165.6	7.052	9.28	29.13	0
4/1/21 1:15	7.969	158.7	8.47	9.28	29.13	0
4/1/21 1:36	6.699	150.1	6.588	9.91	29.13	0
4/1/21 1:55	7.009	143.9	6.719	10.1	29.12	0
4/1/21 2:06	7.538	142.8	8.04	10.48	29.12	0
4/1/21 2:24	8.21	151.7	12.43	10.35	29.12	0
4/1/21 2:40	8.13	147.7	11.78	10.33	29.12	0
4/1/21 2:57	8.91	140.9	13.07	10.59	29.1	0
4/1/21 3:10	7.236	149.6	12.32	10.36	29.1	0
4/1/21 3:23	6.926	155.2	10.14	10.34	29.1	0
4/1/21 3:42	6.706	161.2	10.27	10.26	29.1	0
4/1/21 3:56	6.203	189.6	16.28	9.5	29.09	0
4/1/21 4:02	6.745	192.4	7.382	8.87	29.09	0
4/1/21 4:29	7.451	201.1	6.243	8.67	29.09	0
4/1/21 4:38	8.62	198.6	7.442	7.663	29.09	0
4/1/21 4:47	7.253	183.3	11.11	7.405	29.1	0
4/1/21 5:03	5.395	165.8	8.57	7.783	29.1	0
4/1/21 5:16	4.266	157.5	12.5	7.852	29.1	0
4/1/21 5:32	4.011	159.5	13.36	8.13	29.1	0
4/1/21 5:49	4.026	156.5	23.09	8.48	29.11	0
4/1/21 6:08	4.005	162.3	21.64	8.81	29.11	0
4/1/21 6:26	5.639	202.4	21.94	8.02	29.11	0
4/1/21 6:31	5.224	186.8	15.38	8.8	29.11	0
4/1/21 6:58	4.665	180.6	24.68	8.97	29.12	0
4/1/21 7:03	5.425	229.5	13.15	9.03	29.12	0
4/1/21 7:16	4.726	216.1	7.089	8.85	29.12	0
4/1/21 7:39	4.571	210.5	14.68	9.44	29.12	0
4/1/21 7:48	5.832	202.3	15.65	9.02	29.14	0
4/1/21 8:13	5.605	180.3	17.95	9.63	29.14	0
4/1/21 8:17	6.319	171.8	15.83	9.88	29.14	0
4/1/21 8:31	6.045	172.6	14.68	9.86	29.14	0
4/1/21 8:47	5.796	186.4	12.85	10.05	29.13	0
4/1/21 9:07	6.067	165.2	15.49	10.61	29.13	0
4/1/21 9:22	7.403	188.4	16.6	10.7	29.13	0
4/1/21 9:35	5.361	178.6	15.23	11.01	29.13	0
4/1/21 9:58	7.366	187.9	20.88	11.25	29.15	0
4/1/21 10:09	8.64	200.2	18.95	11.2	29.15	0
4/1/21 10:18	6.362	206.8	16.46	11.49	29.15	0
4/1/21 10:35	9.27	230.3	10.53	11.52	29.15	0
4/1/21 10:53	10.73	223.7	13.09	11.61	29.15	0
4/1/21 11:00	9.87	237.6	11.81	11.88	29.15	0
4/1/21 11:15	6.946	235.1	19.74	12.4	29.15	0
4/1/21 11:37	7.485	235.3	17.63	12.54	29.15	0
4/1/21 11:56	7.846	223	39.9	12.83	29.12	0
4/1/21 12:09	9.59	245	17.98	13.06	29.12	0
4/1/21 12:15	10.03	229.7	25.17	13.02	29.12	0
4/1/21 12:31	10.69	281.2	14.89	12.84	29.12	0
4/1/21 12:52	7.217	271.1	20.4	12.59	29.13	0
4/1/21 13:00	9.76	247.5	19.62	13.03	29.13	0
4/1/21 13:18	9.15	241.3	19.85	12.99	29.13	0
4/1/21 13:38	7.813	234.9	33.06	13.29	29.13	0
4/1/21 13:53	8.81	262.7	11.96	13.38	29.13	0
4/1/21 14:14	6.275	288	18.33	13.63	29.13	0
4/1/21 14:28	9.57	252.1	16.92	13.61	29.13	0
4/1/21 14:30	9.36	263.4	30.72	13.51	29.13	0
4/1/21 14:46	7.753	265.2	20.92	13.09	29.1	0
4/1/21 15:10	6.933	272.3	18.96	13.13	29.1	0
4/1/21 15:18	7.56	299.1	14.04	12.85	29.1	0
4/1/21 15:31	5.357	306	34.17	12.69	29.1	0
4/1/21 15:46	3.912	330.1	24.96	12.71	29.11	0
4/1/21 16:05	3.583	292.8	24.58	12.89	29.11	0
4/1/21 16:18	2.252	220	32.31	12.89	29.11	0
4/1/21 16:41	2.095	343.3	37.57	12.8	29.11	0
4/1/21 16:52	3.343	311.2	19.51	12.8	29.09	0
4/1/21 17:04	2.731	308.6	16.2	12.66	29.09	0
4/1/21 17:18	2.643	311.5	12.71	12.59	29.09	0
4/1/21 17:44	1.882	350.8	17.92	12.42	29.09	0
4/1/21 17:58	4.282	25.94	14.75	11.73	29.09	0
4/1/21 18:00	4.157	32.1	16.23	11.32	29.09	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
4/1/21 18:26	5.866	16.77	8.59	11	29.09	0
4/1/21 18:31	6.115	17.35	7.092	10.79	29.09	0
4/1/21 18:51	4.723	24.77	9.31	10.36	29.09	0
4/1/21 19:14	4.821	25.42	6.552	10.17	29.09	0
4/1/21 19:28	4.089	16.45	9.63	9.91	29.09	0
4/1/21 19:34	4.724	28.45	12.52	9.55	29.09	0
4/1/21 19:59	4.177	24.42	7.918	9.08	29.1	0
4/1/21 20:00	5.122	20.9	5.99	9.04	29.1	0
4/1/21 20:20	5.213	27.03	9.84	8.72	29.1	0
4/1/21 20:37	3.753	15.92	13.05	8.57	29.1	0
4/1/21 20:46	0.683	36.88	22.11	8.37	29.11	0
4/1/21 21:10	1.842	27.2	23.34	8.21	29.11	0
4/1/21 21:28	3.322	51.94	11.45	7.816	29.11	0
4/1/21 21:35	3.422	89.4	19.09	7.713	29.11	0
4/1/21 21:59	5.612	148.8	7.853	7.434	29.12	0
4/1/21 22:08	6.242	144.4	5.427	6.899	29.12	0
4/1/21 22:19	5.868	143.7	6.594	6.796	29.12	0
4/1/21 22:38	4.487	173.7	13.28	6.69	29.12	0
4/1/21 22:50	3.416	174.4	10.61	6.62	29.15	0
4/1/21 23:14	3.132	155.5	12.94	6.582	29.15	0
4/1/21 23:20	4.108	189.1	12.82	6.69	29.15	0
4/1/21 23:30	4.034	206.9	5.571	6.594	29.15	0
4/1/21 23:45	3.154	194.7	9.11	6.39	29.16	0
4/2/21 0:14	3.296	213.6	4.52	6.433	29.16	0
4/2/21 0:15	2.781	160.5	34.03	6.144	29.16	0
4/2/21 0:41	3.7	171.1	9.22	5.743	29.16	0
4/2/21 0:53	5.496	177.4	7.199	5.17	29.16	0
4/2/21 1:03	4.884	147.5	15.48	4.988	29.16	0
4/2/21 1:16	3.324	145.2	9.82	4.656	29.16	0
4/2/21 1:34	3.664	134.6	6.085	4.642	29.16	0
4/2/21 1:52	3.878	150.5	16.77	4.774	29.17	0
4/2/21 2:09	4.492	160.4	13.31	4.838	29.17	0
4/2/21 2:15	3.566	148.6	8.29	4.808	29.17	0
4/2/21 2:37	3.098	146.8	9.66	5.088	29.17	0
4/2/21 2:59	3.601	150.1	9.77	4.709	29.19	0
4/2/21 3:01	6.424	144.6	6.111	4.681	29.19	0
4/2/21 3:16	6.944	142.2	5.862	4.815	29.19	0
4/2/21 3:37	6.682	143.3	4.743	4.63	29.19	0
4/2/21 3:50	5.901	146.7	6.45	4.583	29.2	0
4/2/21 4:02	5.394	135.4	6.445	4.606	29.2	0
4/2/21 4:24	5.367	133.9	6.195	4.744	29.2	0
4/2/21 4:31	5.843	133.3	5.536	4.749	29.2	0
4/2/21 4:50	5.991	135.8	6.999	4.823	29.19	0
4/2/21 5:04	6.996	146.8	6.141	4.784	29.19	0
4/2/21 5:15	7.279	151.1	6.996	4.694	29.19	0
4/2/21 5:42	7.045	144.1	5.62	4.663	29.19	0
4/2/21 5:57	6.558	135.7	6.261	4.709	29.23	0
4/2/21 6:01	5.302	125.1	8.56	4.767	29.23	0
4/2/21 6:28	5.382	114.6	8.17	4.78	29.23	0
4/2/21 6:39	5.719	118.9	6.589	5.307	29.23	0
4/2/21 6:59	5.689	121.9	9.66	5.667	29.23	0
4/2/21 7:11	5.442	130.1	9.52	5.838	29.23	0
4/2/21 7:25	5.616	129.8	8.88	6.056	29.23	0
4/2/21 7:42	6.192	123.9	8.62	6.348	29.23	0
4/2/21 7:57	6.177	134.8	10.66	6.593	29.24	0
4/2/21 8:06	6.601	144.2	13.92	6.846	29.24	0
4/2/21 8:19	6.965	170	13.11	6.949	29.24	0
4/2/21 8:36	6.157	187.1	10.1	6.999	29.24	0
4/2/21 8:53	5.661	193.8	17.29	7.227	29.23	0
4/2/21 9:05	4.496	222	19.54	7.466	29.23	0
4/2/21 9:16	4.449	217.3	21.27	7.796	29.23	0
4/2/21 9:42	3.978	195.5	23.6	8.26	29.23	0
4/2/21 9:58	3.988	206.7	21.12	8.67	29.25	0
4/2/21 10:06	4.007	194.8	39.32	9.22	29.25	0
4/2/21 10:20	4.381	198.9	22.98	9.26	29.25	0
4/2/21 10:42	5.247	201.4	19.22	9.26	29.25	0
4/2/21 10:58	4.515	158.4	27.06	10.06	29.25	0
4/2/21 11:04	4.915	232.4	31.67	10.04	29.25	0
4/2/21 11:25	7.617	209.7	32.32	10.52	29.25	0
4/2/21 11:31	5.904	190.7	25.1	10.74	29.25	0
4/2/21 11:45	5.254	232.2	23.72	10.96	29.25	0
4/2/21 12:14	3.468	198.5	39.64	11.22	29.25	0
4/2/21 12:22	8.77	251.8	16.44	10.97	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
4/2/21 12:41	6.729	255.4	18.72	10.95	29.25	0
4/2/21 12:45	5.301	268.3	33.03	11.09	29.26	0
4/2/21 13:13	7.498	254	22.72	11.32	29.26	0
4/2/21 13:16	6.999	282.1	23.17	11.42	29.26	0
4/2/21 13:44	7.41	295.6	27.29	11.71	29.26	0
4/2/21 13:57	9.25	255	25.81	11.64	29.28	0
4/2/21 14:09	7.922	216.9	30.16	11.37	29.28	0
4/2/21 14:29	5.72	246.8	19.21	11.47	29.28	0
4/2/21 14:33	4.752	223.6	48.53	11.52	29.28	0
4/2/21 14:59	1.611	95	33.66	11.82	29.27	0
4/2/21 15:04	4.257	230.1	25.66	12.49	29.27	0
4/2/21 15:20	6.997	208.8	29.04	12.27	29.27	0
4/2/21 15:44	5.908	185.1	26.04	12.11	29.27	0
4/2/21 15:52	6.831	221.3	21.75	12.16	29.27	0
4/2/21 16:10	5.225	188.7	21.24	12.19	29.27	0
4/2/21 16:15	2.654	161.7	59.26	12.08	29.27	0
4/2/21 16:42	2.547	133.7	76.79	12.18	29.27	0
4/2/21 16:45	5.234	234.8	18.09	12.21	29.27	0
4/2/21 17:00	5.603	242.5	14.98	12.12	29.27	0
4/2/21 17:22	5.343	237.9	16.56	12.09	29.27	0
4/2/21 17:32	6.717	231.1	9.76	11.96	29.27	0
4/2/21 17:47	5.639	235.8	10.81	11.83	29.27	0
4/2/21 18:05	4.206	252.6	12.65	11.6	29.27	0
4/2/21 18:22	3.171	262.7	9.67	11.28	29.27	0
4/2/21 18:35	2.434	267.6	7.205	11.1	29.27	0
4/2/21 18:59	2.433	243.1	7.302	11.07	29.27	0
4/2/21 19:03	2.128	227.6	2.497	10.96	29.27	0
4/2/21 19:29	1.488	76.31	75.02	10.4	29.27	0
4/2/21 19:34	1.978	68.87	7.51	9.7	29.27	0
4/2/21 19:59	1.903	69.63	8.52	9.64	29.28	0
4/2/21 20:12	2.817	72.03	9.24	9.15	29.28	0
4/2/21 20:29	2.66	71.28	8.7	8.67	29.28	0
4/2/21 20:30	1.892	59.58	11.28	8.44	29.28	0
4/2/21 20:50	1.834	65.25	13.64	8.47	29.29	0
4/2/21 21:00	2.235	77.46	4.94	8.37	29.29	0
4/2/21 21:15	1.628	52.55	7.396	8.29	29.29	0
4/2/21 21:36	1.533	297.9	55.32	7.816	29.29	0
4/2/21 21:50	2.735	306.2	7.423	7.719	29.26	0
4/2/21 22:13	2.701	290.5	6.423	7.703	29.26	0
4/2/21 22:15	2.107	314	7.95	7.859	29.26	0
4/2/21 22:36	1.097	305.5	17	7.568	29.26	0
4/2/21 22:54	2.313	336.3	5.575	7.45	29.29	0
4/2/21 23:02	1.559	6.345	13.86	6.788	29.29	0
4/2/21 23:25	1.306	125.3	58.11	6.696	29.29	0
4/2/21 23:35	2.49	166.7	9.2	6.817	29.29	0
4/2/21 23:56	1.265	188.2	23.32	6.776	29.28	0
4/3/21 0:14	1.445	158.8	18.15	6.651	29.28	0
4/3/21 0:28	3.057	141.9	3.258	6.76	29.28	0
4/3/21 0:44	3.708	152.4	7.848	6.818	29.28	0
4/3/21 0:45	3.788	154.5	10.35	6.465	29.3	0
4/3/21 1:00	3.58	126.5	15.71	6.502	29.3	0
4/3/21 1:15	2.61	114.7	8.17	6.584	29.3	0
4/3/21 1:43	3.883	140.9	8.83	6.573	29.3	0
4/3/21 1:45	3.889	151.3	5.685	6.353	29.29	0
4/3/21 2:13	3.38	138	4.82	6.488	29.29	0
4/3/21 2:16	3.113	138.5	7.276	6.518	29.29	0
4/3/21 2:33	2.467	145.9	8.54	6.527	29.29	0
4/3/21 2:46	1.512	158.9	19.8	6.302	29.3	0
4/3/21 3:07	2.097	140.5	16.82	6.385	29.3	0
4/3/21 3:28	3.45	121.7	5.926	6.19	29.3	0
4/3/21 3:37	4.782	137.7	4.507	5.936	29.3	0
4/3/21 3:54	4.87	156.2	9.16	5.885	29.29	0
4/3/21 4:11	5.292	174.7	7.543	5.387	29.29	0
4/3/21 4:15	4.339	155.9	8.67	5.651	29.29	0
4/3/21 4:43	4.438	154.6	9.12	5.628	29.29	0
4/3/21 4:59	5.406	153.4	10.47	5.843	29.28	0
4/3/21 5:00	5.903	138.4	6.753	5.483	29.28	0
4/3/21 5:18	4.811	138.9	4.792	5.675	29.28	0
4/3/21 5:30	4.228	138.3	6.318	6.02	29.28	0
4/3/21 5:52	4.47	149.7	7.977	6.145	29.3	0
4/3/21 6:02	4.081	142	7.393	6.179	29.3	0
4/3/21 6:29	3.912	150.7	5.87	6.03	29.3	0
4/3/21 6:43	5.212	159.5	7.177	6.206	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
4/3/21 6:48	5.885	154.9	7.744	6.372	29.28	0
4/3/21 7:00	4.783	170	11.7	6.549	29.28	0
4/3/21 7:27	5.211	182.9	9.45	6.461	29.28	0
4/3/21 7:42	6.084	183.9	7.972	6.619	29.28	0
4/3/21 7:47	4.941	190.3	10.19	7.027	29.32	0
4/3/21 8:06	4.913	196.2	7.175	7.389	29.32	0
4/3/21 8:18	5.057	196.5	11.46	7.995	29.32	0
4/3/21 8:31	3.336	141.8	26.15	8.7	29.32	0
4/3/21 8:50	2.239	147.5	25.53	9.48	29.33	0
4/3/21 9:07	2.92	128.9	24.68	10.01	29.33	0
4/3/21 9:25	3.775	112.8	17.54	10.49	29.33	0
4/3/21 9:42	3.492	161.8	51.54	11.24	29.33	0
4/3/21 9:57	4.771	157.5	27.42	11.78	29.34	0
4/3/21 10:01	4.573	146.9	25.03	12.41	29.34	0
4/3/21 10:26	5.563	166.1	20.48	13	29.34	0
4/3/21 10:35	5.789	205.2	28.8	13	29.34	0
4/3/21 10:49	5.237	197	24.45	13.32	29.32	0
4/3/21 11:06	4.893	211.7	40.78	13.88	29.32	0
4/3/21 11:16	6.075	179.1	23.12	13.9	29.32	0
4/3/21 11:32	6.152	191.4	29.64	14.43	29.32	0
4/3/21 11:45	6.456	204.2	19.38	14.67	29.33	0
4/3/21 12:08	6.773	168.9	17.29	15.1	29.33	0
4/3/21 12:26	6.086	174.9	21.19	15.61	29.33	0
4/3/21 12:44	5.094	191.7	47.15	15.99	29.33	0
4/3/21 12:45	6.211	177.5	20.75	16.02	29.3	0
4/3/21 13:02	8.42	201.7	14.52	16.19	29.3	0
4/3/21 13:25	8.86	220.2	25.53	16.44	29.3	0
4/3/21 13:37	7.146	231.9	24.79	16.73	29.3	0
4/3/21 13:58	7.732	230.3	28.02	16.35	29.32	0
4/3/21 14:06	9.6	262.5	18.38	16.41	29.32	0
4/3/21 14:29	9.23	246.9	17.93	16.24	29.32	0
4/3/21 14:41	9.83	225.5	18.96	15.99	29.32	0
4/3/21 14:53	8.59	237	16.49	15.93	29.31	0
4/3/21 15:05	7.77	222.5	17.05	16.07	29.31	0
4/3/21 15:19	8.09	233.5	22.58	15.96	29.31	0
4/3/21 15:44	9.22	244.8	9.29	15.87	29.31	0
4/3/21 15:57	8.36	238.1	16.93	15.88	29.3	0
4/3/21 16:10	12.85	238.8	10.3	15.53	29.3	0
4/3/21 16:20	11.11	229.3	9.75	15.37	29.3	0
4/3/21 16:37	9.06	229	11.27	15.28	29.3	0
4/3/21 16:51	8.3	241.7	12.15	15.03	29.31	0
4/3/21 17:00	5.199	234.4	13.62	14.86	29.31	0
4/3/21 17:24	6.337	222.6	12.97	14.75	29.31	0
4/3/21 17:43	7.838	215.8	9.96	14.57	29.31	0
4/3/21 17:46	7.951	216.7	9.28	14.4	29.32	0
4/3/21 18:03	6.707	201.4	10.33	14.2	29.32	0
4/3/21 18:27	6.268	208.7	14.01	13.9	29.32	0
4/3/21 18:32	5.343	217.6	15.52	13.53	29.32	0
4/3/21 18:49	4.673	214.4	12.19	13.39	29.33	0
4/3/21 19:03	4.586	187.1	13.67	13.23	29.33	0
4/3/21 19:20	3.811	198.5	17.89	13.22	29.33	0
4/3/21 19:39	5.807	215.5	14.89	13.02	29.33	0
4/3/21 19:55	7.366	226.9	8.24	12.76	29.35	0
4/3/21 20:01	6.977	239.1	16.08	12.56	29.35	0
4/3/21 20:15	5.538	250.3	19.65	12.35	29.35	0
4/3/21 20:34	6.864	232.6	8.69	12.14	29.35	0
4/3/21 20:46	5.489	235.5	8.51	11.83	29.36	0
4/3/21 21:04	3.106	214.7	10.45	11.53	29.36	0
4/3/21 21:17	1.772	287.9	62.93	11.41	29.36	0
4/3/21 21:34	0.988	36.68	12.98	11.22	29.36	0
4/3/21 21:55	1.128	152.4	43.62	11.19	29.34	0
4/3/21 22:11	4.676	53.01	41.09	10.11	29.34	0
4/3/21 22:17	6.423	31.34	10.19	8.57	29.34	0
4/3/21 22:44	6.986	22.65	9.12	8.19	29.34	0
4/3/21 22:50	9.05	24.08	8.86	7.849	29.35	0
4/3/21 23:12	7.521	18.51	10.72	7.819	29.35	0
4/3/21 23:28	11.37	21.57	8.47	7.615	29.35	0
4/3/21 23:43	13.03	19.65	9.2	7.346	29.35	0.01
4/3/21 23:50	12.49	21.02	9.64	7.048	29.35	0
4/4/21 0:06	11.95	22.26	9.28	6.985	29.35	0.01
4/4/21 0:29	11.64	20.13	10.67	7.041	29.35	0
4/4/21 0:41	14.65	15.25	11.87	6.719	29.35	0
4/4/21 0:52	14.04	14.34	10.74	6.374	29.37	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
4/4/21 1:11	12.43	13.1	13	6.076	29.37	0
4/4/21 1:19	10.46	20.19	13.87	5.965	29.37	0.01
4/4/21 1:37	9.31	3.465	25.02	6.058	29.37	0
4/4/21 1:58	9.93	15.21	16.44	5.98	29.39	0
4/4/21 2:13	13.98	26.28	11.95	6.045	29.39	0
4/4/21 2:17	15.26	22.76	10.66	6.151	29.39	0
4/4/21 2:30	15.73	25.42	12.23	6.131	29.39	0
4/4/21 2:48	15.1	23.1	12.89	6.126	29.35	0
4/4/21 3:04	14.17	23.75	13.3	6.113	29.35	0
4/4/21 3:15	14.56	21.56	13.54	6.006	29.35	0
4/4/21 3:30	12.37	20.98	17.78	6.009	29.35	0
4/4/21 3:51	9.46	18.65	17.41	5.94	29.37	0
4/4/21 4:03	9.73	31.01	23.57	5.919	29.37	0
4/4/21 4:25	9.76	28.93	17.15	5.714	29.37	0
4/4/21 4:44	9.61	27.18	23.84	5.65	29.37	0
4/4/21 4:49	9	25.35	20.79	5.444	29.37	0
4/4/21 5:04	7.866	12.27	23.73	5.274	29.37	0
4/4/21 5:22	7.304	9.77	28.93	5.329	29.37	0
4/4/21 5:40	10.43	8.93	15.48	5.231	29.37	0
4/4/21 5:47	10.16	354.9	18.29	5.146	29.4	0
4/4/21 6:03	10.02	9.13	15.67	4.869	29.4	0
4/4/21 6:15	7.036	25.11	20.98	4.866	29.4	0
4/4/21 6:36	7.96	349	20.75	5.114	29.4	0
4/4/21 6:51	6.254	20.07	28.97	4.965	29.39	0
4/4/21 7:02	5.624	9.18	30.26	5.098	29.39	0
4/4/21 7:16	3.768	338.2	28.49	5.258	29.39	0
4/4/21 7:37	5.004	331	14.73	5.575	29.39	0
4/4/21 7:49	7.239	324.7	23.55	5.648	29.41	0
4/4/21 8:12	6.973	324.2	19.59	5.732	29.41	0
4/4/21 8:15	5.92	353.3	16.36	5.782	29.41	0
4/4/21 8:35	6.673	5.157	17.58	5.785	29.41	0
4/4/21 8:55	5.73	20.03	18.99	5.926	29.41	0
4/4/21 9:03	5.378	11.14	23.13	6.041	29.41	0
4/4/21 9:17	4.607	14.4	22.65	6.312	29.41	0
4/4/21 9:34	5.302	336.6	20.89	6.467	29.41	0
4/4/21 9:55	8.1	322.7	8.22	6.563	29.43	0
4/4/21 10:06	8.12	327.9	15.67	6.766	29.43	0
4/4/21 10:18	5.967	316.8	13.34	6.926	29.43	0
4/4/21 10:41	6.263	308.6	13.67	6.82	29.43	0
4/4/21 10:46	7.782	318.2	7.915	6.714	29.43	0
4/4/21 11:10	6.407	289.9	36.02	6.685	29.43	0
4/4/21 11:25	4.985	311.5	13.65	6.823	29.43	0
4/4/21 11:39	5.843	302.9	9.29	7.113	29.43	0
4/4/21 11:54	7.881	310.1	8.45	6.943	29.43	0.01
4/4/21 12:06	7.518	315	11.16	6.804	29.43	0
4/4/21 12:20	6.202	2.368	20.14	7.139	29.43	0
4/4/21 12:36	6.35	324	23.83	7.484	29.43	0
4/4/21 12:50	4.118	5.311	21.6	7.561	29.42	0
4/4/21 13:04	4.275	303.5	40.56	8.06	29.42	0
4/4/21 13:25	5.381	15.11	32.41	7.999	29.42	0
4/4/21 13:42	7.604	29.14	16.68	7.728	29.42	0
4/4/21 13:59	8.21	6.429	17.03	7.865	29.4	0
4/4/21 14:12	9.81	5.948	14.14	7.95	29.4	0
4/4/21 14:23	10.46	351.2	18.02	8.01	29.4	0
4/4/21 14:31	8.92	7.443	17.6	8.15	29.4	0
4/4/21 14:57	10.49	17.2	17.46	8.37	29.4	0
4/4/21 15:14	13.03	24.39	10.16	8.52	29.4	0
4/4/21 15:17	12.13	21.31	16.72	7.834	29.4	0
4/4/21 15:35	13.92	18.39	13.8	7.267	29.4	0
4/4/21 15:50	15.28	9.38	12.79	7.235	29.41	0
4/4/21 16:09	13.96	14.74	12.15	7.063	29.41	0
4/4/21 16:15	13.07	358.1	14.59	7.026	29.41	0
4/4/21 16:30	12.12	11.67	11.59	6.862	29.41	0
4/4/21 16:45	9.05	11.96	13.07	7.041	29.4	0
4/4/21 17:00	8.88	1.047	15.54	7.161	29.4	0
4/4/21 17:27	8.1	340.3	14.8	7.247	29.4	0
4/4/21 17:38	7.41	337.1	16.13	7.131	29.4	0
4/4/21 17:48	6.998	339.4	11.46	7.266	29.39	0
4/4/21 18:06	6.429	336.8	12.39	7.226	29.39	0
4/4/21 18:18	7.218	343.3	12.48	6.962	29.39	0
4/4/21 18:44	9.4	324.5	8.34	6.633	29.39	0
4/4/21 18:59	8.77	328.5	8.31	6.39	29.39	0
4/4/21 19:03	9.03	324.4	7.037	5.977	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
4/4/21 19:19	8.28	326.6	5.594	5.632	29.39	0
4/4/21 19:44	8.3	333.2	7.099	5.465	29.39	0
4/4/21 19:48	8.42	342.9	7.589	5.444	29.4	0
4/4/21 20:02	8.57	346.8	10.42	5.441	29.4	0
4/4/21 20:15	7.757	349.2	8.96	5.19	29.4	0
4/4/21 20:39	8.36	348.6	11.32	5.173	29.4	0
4/4/21 20:51	9.61	343.4	11.51	4.789	29.39	0
4/4/21 21:05	10.83	355.4	12.61	5.167	29.39	0
4/4/21 21:15	7.446	7.676	9.98	4.59	29.39	0
4/4/21 21:44	7.575	359.8	12.55	4.813	29.39	0
4/4/21 21:45	5.844	13.9	10.94	4.516	29.39	0
4/4/21 22:04	5.208	12.56	9.28	4.344	29.39	0
4/4/21 22:19	3.727	13.7	7.3	4.083	29.39	0
4/4/21 22:33	3.279	16.27	6.54	4.019	29.39	0
4/4/21 22:48	0.823	28.87	9.73	3.764	29.41	0
4/4/21 23:12	0.022	58.96	0.071	4.196	29.41	0
4/4/21 23:20	0.223	89.4	37.88	4.285	29.41	0
4/4/21 23:32	0.24	190.5	20.11	4.471	29.41	0
4/4/21 23:56	0.432	113	28.18	4.391	29.4	0
4/5/21 0:12	1.694	156.1	25.86	4.276	29.4	0
4/5/21 0:18	0.755	151.2	37.99	3.422	29.4	0
4/5/21 0:44	1.869	166.2	20.48	4.239	29.4	0
4/5/21 0:54	1.596	99.8	42.46	3.763	29.38	0
4/5/21 1:14	1.883	111.5	77.13	3.295	29.38	0
4/5/21 1:19	1.774	16.29	57.59	3.32	29.38	0
4/5/21 1:36	1.28	157.5	26.35	3.151	29.38	0
4/5/21 1:46	2.111	239	20.32	2.64	29.39	0
4/5/21 2:02	2.795	263.7	36.89	2.73	29.39	0
4/5/21 2:29	3.949	220.8	4.324	2.484	29.39	0
4/5/21 2:30	3.905	225.3	6.514	2.978	29.39	0
4/5/21 2:46	1.218	140.9	39.31	2.005	29.41	0
4/5/21 3:07	2.3	154	12.38	1.277	29.41	0
4/5/21 3:20	2.242	95.9	11.59	1.227	29.41	0
4/5/21 3:35	2.143	113.2	18.06	1.879	29.41	0
4/5/21 3:59	1.391	131.9	32.31	2.071	29.42	0
4/5/21 4:02	2.866	210.8	6.619	2.488	29.42	0
4/5/21 4:27	2.695	187.6	11.97	2.326	29.42	0
4/5/21 4:39	3.624	163.4	7.825	2.017	29.42	0
4/5/21 4:45	2.037	139.1	18	1.985	29.4	0
4/5/21 5:14	1.938	141.8	14.89	1.92	29.4	0
4/5/21 5:25	2.919	136.6	36.39	1.843	29.4	0
4/5/21 5:30	3.62	152.1	8.48	1.612	29.4	0
4/5/21 5:54	3.647	147.1	14.11	1.964	29.41	0
4/5/21 6:11	4.031	161.4	12.33	1.868	29.41	0
4/5/21 6:21	3.221	170.7	20.17	2.696	29.41	0
4/5/21 6:43	4.514	182.7	10.88	2.833	29.41	0
4/5/21 6:47	5.531	184.3	8.98	2.364	29.43	0
4/5/21 7:14	6.068	198.7	10.37	2.076	29.43	0
4/5/21 7:15	5.282	233.7	38.29	2.082	29.43	0
4/5/21 7:44	4.056	278.9	20.83	2.561	29.43	0
4/5/21 7:47	4.545	239.1	16.92	3.126	29.43	0
4/5/21 8:08	4.02	218.6	12.71	3.652	29.43	0
4/5/21 8:17	1.73	239.2	33.34	4.697	29.43	0
4/5/21 8:37	1.604	274.1	34.69	5.519	29.43	0
4/5/21 8:48	3.129	222	54.26	5.877	29.42	0
4/5/21 9:06	3.358	228.1	20.53	5.924	29.42	0
4/5/21 9:18	2.957	283.9	25.38	6.382	29.42	0
4/5/21 9:44	2.503	129.8	69.88	6.812	29.42	0
4/5/21 9:50	3.754	269.7	32.66	6.977	29.42	0
4/5/21 10:06	3.954	288.9	38.29	7.394	29.42	0
4/5/21 10:24	5.403	307.9	51.1	7.925	29.42	0
4/5/21 10:34	3.699	266.9	57.18	7.822	29.42	0
4/5/21 10:51	3.836	310.8	59.36	8.51	29.42	0
4/5/21 11:07	7.065	255.4	20.92	8.44	29.42	0
4/5/21 11:26	4.568	339.2	52.85	9.18	29.42	0
4/5/21 11:36	5.994	292.3	48.17	9	29.42	0
4/5/21 11:58	6.679	258.2	43.68	9.59	29.42	0
4/5/21 12:13	4.823	280.3	63.77	9.63	29.42	0
4/5/21 12:20	6.597	287.4	27.01	9.74	29.42	0
4/5/21 12:30	4.96	297.6	33.88	9.88	29.42	0
4/5/21 12:48	5.661	284.7	44.13	10.3	29.41	0
4/5/21 13:13	6.606	246.8	18.01	10.65	29.41	0
4/5/21 13:21	4.902	308.7	42.89	10.74	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
4/5/21 13:43	5.867	311.1	33.35	11.2	29.41	0
4/5/21 13:45	5.024	276.6	38.86	11.36	29.38	0
4/5/21 14:09	5.298	298.8	57.5	11.26	29.38	0
4/5/21 14:21	4.906	343.8	24.41	11.35	29.38	0
4/5/21 14:39	5.081	316.4	55.36	11.5	29.38	0
4/5/21 14:55	4.329	288.3	53.23	11.77	29.35	0
4/5/21 15:01	3.703	297.8	30.12	12	29.35	0
4/5/21 15:21	5.491	316.9	19.98	12.12	29.35	0
4/5/21 15:31	4.841	300.3	27.73	11.93	29.35	0
4/5/21 15:53	5.693	299.3	30.93	12.17	29.34	0
4/5/21 16:11	4.158	296.9	31.31	12.2	29.34	0
4/5/21 16:16	5.627	291.9	23.15	12.18	29.34	0
4/5/21 16:38	5.433	298.6	19.54	12.18	29.34	0
4/5/21 16:45	4.973	293.1	15.83	12.08	29.32	0
4/5/21 17:04	3.457	327.3	22.16	12.23	29.32	0
4/5/21 17:25	5.671	298.4	15.79	11.97	29.32	0
4/5/21 17:41	6.364	308.9	14.71	11.53	29.32	0
4/5/21 17:46	5.584	295.5	10.44	11.42	29.32	0
4/5/21 18:04	4.603	314.7	21.06	11.06	29.32	0
4/5/21 18:17	3.221	342.2	8.45	10.61	29.32	0
4/5/21 18:37	2.977	337.6	8.9	10.27	29.32	0
4/5/21 18:59	2.841	315.2	4.205	10.09	29.32	0
4/5/21 19:10	3.448	327	9.41	9.75	29.32	0
4/5/21 19:24	2.784	348.1	15	9.56	29.32	0
4/5/21 19:30	2.438	23	11.28	8.93	29.32	0
4/5/21 19:46	2.37	34.31	4.794	8.28	29.33	0
4/5/21 20:14	2.396	46.67	2.476	8.21	29.33	0
4/5/21 20:25	4.035	52.09	4.505	7.919	29.33	0
4/5/21 20:32	3.434	67.81	9.53	7.771	29.33	0
4/5/21 20:45	1.511	70.37	2.952	7.278	29.31	0
4/5/21 21:12	0.834	101.4	31.35	7.673	29.31	0
4/5/21 21:18	0.536	204.6	38.44	7.845	29.31	0
4/5/21 21:44	2.07	150	46.93	7.53	29.31	0
4/5/21 21:46	8.9	225.4	12.33	5.77	29.34	0
4/5/21 22:00	5.545	190.4	14.68	6.26	29.34	0
4/5/21 22:19	3.977	121.7	27.55	5.287	29.34	0
4/5/21 22:38	4.438	105.3	12.14	4.239	29.34	0
4/5/21 22:55	4.832	134.9	20.84	4.52	29.35	0
4/5/21 23:12	5.241	162.4	18.66	4.909	29.35	0
4/5/21 23:25	5.691	167.9	8.25	5.103	29.35	0
4/5/21 23:30	5.375	163.2	8.25	4.96	29.35	0
4/5/21 23:58	4.131	142.1	7.363	4.542	29.34	0
4/6/21 0:07	4.754	144.5	7.315	4.579	29.34	0
4/6/21 0:28	4.996	160.4	5.625	4.511	29.34	0
4/6/21 0:39	4.604	159.9	5.708	4.643	29.34	0
4/6/21 0:53	4.852	153.3	7.316	4.416	29.33	0
4/6/21 1:10	4.26	144.3	6.608	4.155	29.33	0
4/6/21 1:15	4.244	154.6	5.082	3.89	29.33	0
4/6/21 1:31	4.064	146.2	5.879	3.836	29.33	0
4/6/21 1:49	3.989	140.6	3.644	3.918	29.33	0
4/6/21 2:07	4.4	155	6.367	3.72	29.33	0
4/6/21 2:15	3.304	156.5	11.17	3.699	29.33	0
4/6/21 2:44	2.873	145.3	7.55	3.734	29.33	0
4/6/21 2:46	3.477	130.7	6.458	3.854	29.33	0
4/6/21 3:14	2.659	129.5	9.08	3.87	29.33	0
4/6/21 3:21	2.801	156.3	7.738	3.944	29.33	0
4/6/21 3:44	3.555	177.6	3.363	3.753	29.33	0
4/6/21 4:00	4.169	184.6	5.595	3.165	29.35	0
4/6/21 4:00	4.258	167.9	8.12	2.642	29.35	0
4/6/21 4:24	3.761	150.7	6.355	2.539	29.35	0
4/6/21 4:42	3.207	150.2	4.353	2.623	29.35	0
4/6/21 4:46	2.681	155	10.29	2.77	29.35	0
4/6/21 5:14	2.537	146.9	15.55	2.783	29.35	0
4/6/21 5:21	3.372	125.6	3.154	2.799	29.35	0
4/6/21 5:36	2.911	122.8	5.921	2.803	29.35	0
4/6/21 5:47	2.695	128.4	4.95	2.899	29.34	0
4/6/21 6:00	1.661	99.5	21.6	2.684	29.34	0
4/6/21 6:29	1.007	79	9.31	2.584	29.34	0
4/6/21 6:37	2.488	161.7	17.7	2.951	29.34	0
4/6/21 6:45	1.173	120.8	22.63	3.496	29.33	0
4/6/21 7:05	0.521	121.6	12.96	3.754	29.33	0
4/6/21 7:29	0.399	90.5	11.69	4.923	29.33	0
4/6/21 7:44	0.353	84.9	19.61	5.427	29.33	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
4/6/21 7:56	1.114	237.5	33.96	5.422	29.33	0
4/6/21 8:08	3.09	219.2	9.53	4.975	29.33	0
4/6/21 8:28	3.428	225.6	14.41	5.209	29.33	0
4/6/21 8:30	2.673	214.8	28.64	5.676	29.33	0
4/6/21 8:58	2.012	228.5	27.4	6.182	29.32	0
4/6/21 9:05	3.033	190.1	20.96	6.565	29.32	0
4/6/21 9:19	1.725	248.5	75.95	7.449	29.32	0
4/6/21 9:35	2.311	246.7	54.51	7.732	29.32	0
4/6/21 9:50	3.421	249.4	39.58	8.22	29.33	0
4/6/21 10:02	5.398	273.3	18.88	8.65	29.33	0
4/6/21 10:19	3.964	248	27.65	9.1	29.33	0
4/6/21 10:30	5.053	250.6	36.89	9.21	29.33	0
4/6/21 10:48	3.419	297.3	39.9	9.97	29.29	0
4/6/21 11:09	3.439	309.5	29.3	10.52	29.29	0
4/6/21 11:28	3.627	267.1	45.71	10.91	29.29	0
4/6/21 11:40	4.429	300.1	58.48	11.28	29.29	0
4/6/21 11:46	4.687	299.9	25.28	11.52	29.29	0
4/6/21 12:03	6.168	287.1	20.29	11.89	29.29	0
4/6/21 12:15	5.276	290.8	39.77	12.11	29.29	0
4/6/21 12:37	4.714	263.9	52.88	12.5	29.29	0
4/6/21 12:51	6.193	279.5	31.92	12.91	29.27	0
4/6/21 13:09	5.878	289	24.52	13.26	29.27	0
4/6/21 13:15	6.644	283	30.49	13.47	29.27	0
4/6/21 13:38	3.534	284.8	41.26	13.85	29.27	0
4/6/21 13:52	5.169	302.5	28.9	14.22	29.26	0
4/6/21 14:10	7.819	301.2	22.38	14.22	29.26	0
4/6/21 14:19	5.207	293	20.3	14.1	29.26	0
4/6/21 14:33	5.966	286.5	20.16	14.37	29.26	0
4/6/21 14:47	4.688	286	65.15	14.38	29.24	0
4/6/21 15:01	6.298	326.9	13.77	14.56	29.24	0
4/6/21 15:23	4.782	323.1	12.65	14.71	29.24	0
4/6/21 15:44	4.395	292.3	25.84	14.79	29.24	0
4/6/21 15:58	4.879	305.1	23.74	14.95	29.22	0
4/6/21 16:01	6.28	285	17.8	14.76	29.22	0
4/6/21 16:15	5.615	306.7	10.58	14.77	29.22	0
4/6/21 16:37	5.755	307.9	11.63	14.58	29.22	0
4/6/21 16:47	6.641	309.6	12.22	14.3	29.21	0
4/6/21 17:04	6.615	310.7	10.88	14.15	29.21	0
4/6/21 17:23	5.609	308.4	12.54	13.97	29.21	0
4/6/21 17:37	6.585	315.9	9.29	13.48	29.21	0
4/6/21 17:47	5.812	312.8	4.767	13.1	29.22	0
4/6/21 18:04	5.082	303.4	6.368	12.74	29.22	0
4/6/21 18:17	4.011	291.5	5.872	12.68	29.22	0
4/6/21 18:32	3.713	286	2.546	12.57	29.22	0
4/6/21 18:49	3.722	292.8	5.825	12.34	29.23	0
4/6/21 19:02	1.97	327.6	37.86	12	29.23	0
4/6/21 19:19	2.363	33.46	3.039	11.44	29.23	0
4/6/21 19:44	2.16	47.48	6.135	11.03	29.23	0
4/6/21 19:54	2.134	65.74	14.02	10.38	29.21	0
4/6/21 20:02	1.946	74.03	4.273	10.22	29.21	0
4/6/21 20:25	1.528	81.7	2.067	10.25	29.21	0
4/6/21 20:44	2.718	98.4	7.05	9.74	29.21	0
4/6/21 20:57	3.801	109.9	4.903	9.12	29.21	0
4/6/21 21:13	3.228	128.1	17.96	9.36	29.21	0
4/6/21 21:25	3.748	164.1	23.49	9.67	29.21	0
4/6/21 21:44	8.11	219.9	18.13	8.44	29.21	0
4/6/21 21:45	8.55	206.8	8.12	8.58	29.2	0
4/6/21 22:00	5.483	179.4	11.6	8.68	29.2	0
4/6/21 22:24	3.703	90.5	18.94	7.168	29.2	0
4/6/21 22:42	4.324	107.7	10.33	6.866	29.2	0
4/6/21 22:47	5.163	130.8	17.31	6.957	29.22	0
4/6/21 23:06	5.918	169.8	8.91	6.902	29.22	0
4/6/21 23:26	5.87	169.9	9.7	6.974	29.22	0
4/6/21 23:41	6.335	157	8.37	6.671	29.22	0
4/6/21 23:45	5.719	142.9	7.756	6.609	29.21	0
4/7/21 0:10	4.99	147.4	7.602	6.654	29.21	0
4/7/21 0:24	5.434	167.2	10.41	6.622	29.21	0
4/7/21 0:42	5.463	180	7.565	6.419	29.21	0
4/7/21 0:45	4.846	172.2	7.093	6.372	29.23	0
4/7/21 1:00	3.706	161.8	8.24	6.198	29.23	0
4/7/21 1:16	4.059	177.2	11.09	5.939	29.23	0
4/7/21 1:32	4.409	189.4	8.35	6.122	29.23	0
4/7/21 1:48	5.045	182.6	4.774	5.806	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
4/7/21 2:12	5.543	185.4	5.222	5.53	29.21	0
4/7/21 2:18	5.108	181.9	8.02	4.834	29.21	0
4/7/21 2:35	5.88	170.6	5.732	5.023	29.21	0
4/7/21 2:52	6.586	170	7.244	4.792	29.22	0
4/7/21 3:04	7.124	169	7.954	4.468	29.22	0
4/7/21 3:16	6.47	173.9	7.941	4.416	29.22	0
4/7/21 3:33	7.687	188.8	6.118	4.204	29.22	0
4/7/21 3:48	7.542	189	6.532	4.162	29.25	0
4/7/21 4:14	6.132	184.9	8.45	4.264	29.25	0
4/7/21 4:21	8.17	188.3	7.115	4.363	29.25	0
4/7/21 4:44	8.66	168.5	9.89	4.129	29.25	0
4/7/21 4:50	9.24	154.8	6.603	4.067	29.24	0
4/7/21 5:04	8.92	158.6	7.016	3.956	29.24	0
4/7/21 5:26	7.725	153.2	8.63	3.915	29.24	0
4/7/21 5:44	6.907	171.5	12.42	4.017	29.24	0
4/7/21 5:51	8.26	155.3	8.11	4.052	29.24	0
4/7/21 6:11	7.115	170.8	12.47	4.244	29.24	0
4/7/21 6:21	8.28	188.1	9.2	4.414	29.24	0
4/7/21 6:39	6.765	192.1	8.14	4.513	29.24	0
4/7/21 6:57	8.44	180.4	11.17	4.607	29.26	0
4/7/21 7:11	9.82	178	11.79	4.84	29.26	0
4/7/21 7:18	11.2	160.4	9.82	4.994	29.26	0
4/7/21 7:41	10.74	149.8	10.36	4.902	29.26	0
4/7/21 7:54	9.99	150.5	8.9	5.053	29.26	0
4/7/21 8:03	10.92	159.7	10.84	5.254	29.26	0
4/7/21 8:16	9.92	164.4	12.14	5.399	29.26	0
4/7/21 8:36	9.22	169.5	11.82	5.69	29.26	0
4/7/21 8:49	9.41	173.3	11.43	6.129	29.25	0
4/7/21 9:05	11.16	174.4	12.41	6.256	29.25	0
4/7/21 9:16	10.37	175.3	11.29	6.536	29.25	0
4/7/21 9:30	10.09	191.4	7.74	6.647	29.25	0
4/7/21 9:48	12.88	208.6	14.03	7.064	29.25	0
4/7/21 10:12	14.98	217.3	9.76	7.25	29.25	0
4/7/21 10:22	15.83	222.2	9.28	7.346	29.25	0
4/7/21 10:39	13.93	221.7	10.19	7.424	29.25	0
4/7/21 10:47	16.19	215.5	11.67	7.356	29.26	0
4/7/21 11:05	13.11	199.4	8.46	7.503	29.26	0
4/7/21 11:22	13.24	208.7	12.16	7.422	29.26	0
4/7/21 11:37	11.42	200.2	10.23	7.275	29.26	0
4/7/21 11:59	9.71	193.5	10.37	7.4	29.26	0
4/7/21 12:08	12.39	204.9	9.67	7.784	29.26	0
4/7/21 12:23	14	209.3	9.49	7.802	29.26	0
4/7/21 12:41	12.92	220.8	9.79	7.979	29.26	0
4/7/21 12:53	13.78	214.2	8.24	7.779	29.25	0
4/7/21 13:13	12.6	223.4	10.97	7.542	29.25	0
4/7/21 13:26	11.5	216.7	12.01	7.536	29.25	0.01
4/7/21 13:30	11.98	209.3	9.08	7.402	29.25	0
4/7/21 13:45	8.82	237.6	12.33	7.317	29.24	0.01
4/7/21 14:08	11.59	220.1	11.96	7.022	29.24	0.01
4/7/21 14:15	10.39	205.5	13.9	6.792	29.24	0.01
4/7/21 14:43	10.24	195	11.86	6.881	29.24	0
4/7/21 14:49	11.99	245.1	12.78	6.426	29.25	0.01
4/7/21 15:06	13.28	243.3	9.7	6.103	29.25	0.01
4/7/21 15:15	9.08	223.4	10.02	6.216	29.25	0.01
4/7/21 15:30	5.15	192.9	28.84	6.355	29.25	0
4/7/21 15:46	4.523	185.3	18.63	6.394	29.23	0
4/7/21 16:05	7.663	197.7	23.28	6.52	29.23	0
4/7/21 16:21	7.756	176.9	14.17	6.58	29.23	0
4/7/21 16:41	7.433	172.6	14.98	6.665	29.23	0
4/7/21 16:55	8.27	195.4	15.81	6.725	29.22	0
4/7/21 17:12	8.81	197	15.87	6.84	29.22	0
4/7/21 17:27	7.969	182.4	20.12	6.79	29.22	0
4/7/21 17:31	9.13	189.6	10.58	6.772	29.22	0
4/7/21 17:49	10.42	193.5	10.39	6.733	29.22	0
4/7/21 18:05	13.77	204.3	8.77	6.749	29.22	0
4/7/21 18:29	10.95	200.8	12.79	6.429	29.22	0.01
4/7/21 18:40	12.3	205.7	8.69	6.408	29.22	0
4/7/21 18:48	13.04	205.5	8.61	6.302	29.19	0.01
4/7/21 19:13	12.14	208.5	9.31	6.201	29.19	0
4/7/21 19:20	11.51	211.2	8.98	6.14	29.19	0
4/7/21 19:33	12.76	206.5	7.936	6.147	29.19	0
4/7/21 19:52	12.18	207.2	7.627	6.088	29.22	0
4/7/21 20:11	12.92	204.8	7.925	6.014	29.22	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
4/7/21 20:29	12.92	202.9	7.527	5.93	29.22	0.01
4/7/21 20:35	13.37	209.9	7.792	5.868	29.22	0
4/7/21 20:49	14.35	210	9.14	5.87	29.19	0.01
4/7/21 21:00	13.25	205.3	9.26	5.756	29.19	0
4/7/21 21:22	10.76	201.7	8.22	5.661	29.19	0
4/7/21 21:31	10.03	200.3	8.66	5.639	29.19	0.01
4/7/21 21:53	9.22	190.3	9.58	5.561	29.21	0.01
4/7/21 22:04	10.27	183.5	8.21	5.519	29.21	0.01
4/7/21 22:15	10.38	178.8	9.81	5.509	29.21	0.01
4/7/21 22:41	12.58	190.9	10.43	5.508	29.21	0.01
4/7/21 22:50	11.77	213.3	9.1	5.536	29.17	0
4/7/21 23:03	15.08	211	10.8	5.45	29.17	0.03
4/7/21 23:28	14.96	260.1	17.75	4.804	29.17	0.05
4/7/21 23:34	14.13	222.9	20.98	4.339	29.17	0.06
4/7/21 23:51	10.49	193.3	12.07	4.517	29.2	0
4/8/21 0:00	6.365	160.3	17.9	4.449	29.2	0
4/8/21 0:22	4.906	166.5	25.23	4.457	29.2	0
4/8/21 0:42	5.959	183.1	19.21	4.636	29.2	0
4/8/21 1:00	5.634	199.6	18.14	4.777	29.22	0
4/8/21 1:08	10.4	217.4	10.96	5.016	29.22	0
4/8/21 1:27	13.21	220.3	10.13	5.123	29.22	0
4/8/21 1:38	14.81	228.4	8.05	5.172	29.22	0
4/8/21 1:49	13.35	229.7	11.37	5.053	29.22	0.01
4/8/21 2:05	10.26	299.1	72.94	4.144	29.22	0
4/8/21 2:15	5.96	10.64	15.52	2.72	29.22	0.01
4/8/21 2:32	4.738	37.49	9.41	1.897	29.22	0.01
4/8/21 2:48	2.804	52.5	8.17	1.777	29.26	0.02
4/8/21 3:12	2.797	54.46	10.61	1.777	29.26	0.01
4/8/21 3:18	3.643	32.12	13.4	1.929	29.26	0.01
4/8/21 3:42	1.715	53.41	13.22	1.894	29.26	0.03
4/8/21 3:53	1.729	177.7	54.7	1.918	29.28	0.02
4/8/21 4:13	2.765	57.46	15.26	1.802	29.28	0
4/8/21 4:24	4.269	95.7	18.95	1.648	29.28	0.01
4/8/21 4:34	4.67	126.9	17.09	1.507	29.28	0
4/8/21 4:53	3.718	123.1	18.07	1.644	29.3	0
4/8/21 5:14	3.911	144.1	28.77	1.684	29.3	0
4/8/21 5:15	4.965	100.6	11.43	1.778	29.3	0
4/8/21 5:43	3.659	94.9	16.27	1.477	29.3	0.02
4/8/21 5:59	3.382	35.29	20.16	1.363	29.33	0.01
4/8/21 6:00	3.357	41.31	7.377	1.513	29.33	0.01
4/8/21 6:29	4.515	65.74	8.35	1.604	29.33	0.01
4/8/21 6:30	3.603	84.7	13.92	1.774	29.33	0
4/8/21 6:46	2.448	85.6	10.22	1.895	29.36	0
4/8/21 7:02	1.271	97.2	30.14	2.176	29.36	0
4/8/21 7:22	3.983	171	16.54	2.803	29.36	0
4/8/21 7:41	5.018	176.3	11.92	3.235	29.36	0
4/8/21 7:56	4.197	106.9	26.2	3.472	29.39	0
4/8/21 8:09	4.8	120.4	12.87	3.504	29.39	0
4/8/21 8:17	4.37	120.9	19.58	3.876	29.39	0
4/8/21 8:41	6.294	140.3	10.73	4.037	29.39	0
4/8/21 8:59	7.177	155.6	14.26	4.542	29.43	0
4/8/21 9:06	8.27	193	10.74	5.085	29.43	0
4/8/21 9:21	8.3	186.4	11.51	5.226	29.43	0
4/8/21 9:30	7.298	156.3	17.02	5.847	29.43	0
4/8/21 9:47	5.389	150.5	23.05	5.924	29.44	0
4/8/21 10:00	5.675	128.4	19.23	6.663	29.44	0
4/8/21 10:18	4.381	191	20.27	6.124	29.44	0
4/8/21 10:44	4.532	142.8	25.43	6.899	29.44	0
4/8/21 10:57	4.496	121	26.85	7.109	29.46	0
4/8/21 11:01	4.482	119.1	19.19	6.994	29.46	0
4/8/21 11:27	3.116	108.4	61.48	8.23	29.46	0
4/8/21 11:31	2.844	127.3	41.79	7.754	29.46	0
4/8/21 11:48	2.716	112.7	36.77	7.864	29.48	0
4/8/21 12:13	3.959	59.63	25.47	7.638	29.48	0
4/8/21 12:15	3.033	74.67	18.49	7.573	29.48	0
4/8/21 12:40	2.583	295.9	33.46	8.24	29.48	0
4/8/21 12:55	2.459	231.8	38.36	8.76	29.47	0
4/8/21 13:05	4.878	206.6	34.67	8.99	29.47	0
4/8/21 13:17	4.657	193.9	32.31	8.94	29.47	0
4/8/21 13:42	3.299	215.9	59.2	9.75	29.47	0
4/8/21 14:00	3.14	221.4	37.81	9.27	29.46	0
4/8/21 14:00	5.27	178.4	18.85	9.7	29.46	0
4/8/21 14:28	3.414	209.7	35.49	9.87	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
4/8/21 14:31	5.406	201.7	21.79	9.54	29.46	0
4/8/21 14:59	1.8	152.1	54.5	9.99	29.46	0
4/8/21 15:14	2.765	72.13	33.98	9.81	29.46	0
4/8/21 15:17	3.479	175.9	43.29	9.66	29.46	0
4/8/21 15:32	2.829	219.5	37.13	9.97	29.46	0
4/8/21 15:59	1.83	109.7	66.31	10.57	29.48	0
4/8/21 16:00	3.841	225.9	31.89	10	29.48	0
4/8/21 16:15	0.846	88.4	66.04	9.92	29.48	0
4/8/21 16:41	1.625	115.3	37.21	9.82	29.48	0
4/8/21 17:00	3.387	163.6	25.41	10.84	29.47	0
4/8/21 17:02	6.135	214	37.29	10.72	29.47	0
4/8/21 17:28	8.92	292.3	17.27	10.82	29.47	0
4/8/21 17:40	9.55	272.7	13.45	10.46	29.47	0
4/8/21 17:45	8.31	265.5	14.35	10.22	29.46	0
4/8/21 18:14	8.49	275	10.61	9.85	29.46	0
4/8/21 18:20	8.54	265.3	7.495	9.3	29.46	0
4/8/21 18:42	7.614	266.3	10.54	8.93	29.46	0
4/8/21 18:49	8.33	256.5	7.394	8.62	29.46	0
4/8/21 19:05	8.62	255	6.522	8.37	29.46	0
4/8/21 19:17	7.389	252.5	6.104	8.2	29.46	0
4/8/21 19:38	7.7	248.1	6.853	8.02	29.46	0
4/8/21 19:48	8.17	245.7	6.924	7.785	29.47	0
4/8/21 20:12	8.45	241.3	7.699	7.568	29.47	0
4/8/21 20:20	7.914	248.8	7.171	7.228	29.47	0
4/8/21 20:37	8.68	251.4	8.11	6.943	29.47	0
4/8/21 20:45	7.597	247.8	8.49	6.68	29.48	0
4/8/21 21:07	6.577	235	8.91	6.479	29.48	0
4/8/21 21:15	5.797	216.7	9.11	6.212	29.48	0
4/8/21 21:38	4.799	193.2	13.44	5.863	29.48	0
4/8/21 21:50	5.168	199.6	7.176	5.559	29.48	0
4/8/21 22:10	5.247	197.3	11.74	5.439	29.48	0
4/8/21 22:17	4.731	189.9	8.87	5.174	29.48	0
4/8/21 22:39	5.473	187.9	9.84	4.929	29.48	0
4/8/21 22:54	4.682	183.2	8.29	4.86	29.46	0
4/8/21 23:02	4.096	154.8	18.86	4.234	29.46	0
4/8/21 23:27	4.206	174.6	12.53	4.499	29.46	0
4/8/21 23:41	5.974	178.2	6.886	4.214	29.46	0
4/8/21 23:46	6.653	174.7	10.22	3.968	29.46	0
4/9/21 0:01	3.971	128.8	11.82	3.448	29.46	0
4/9/21 0:15	3.376	122.1	6.364	3.452	29.46	0
4/9/21 0:33	3.237	129.1	5.411	3.429	29.46	0
4/9/21 0:45	2.25	110.4	11	3.162	29.46	0
4/9/21 1:13	2.38	115	9.3	3.106	29.46	0
4/9/21 1:23	2.357	113.1	11.21	3.292	29.46	0
4/9/21 1:42	4.223	118	12.57	3.041	29.46	0
4/9/21 1:53	5.218	131.2	6.604	3.176	29.42	0
4/9/21 2:12	5.531	133.6	5.323	3.071	29.42	0
4/9/21 2:16	5.207	130.1	5.679	2.992	29.42	0
4/9/21 2:33	5.005	128.4	6	3.004	29.42	0
4/9/21 2:46	4.56	130.1	5.894	2.971	29.39	0
4/9/21 3:13	4.019	145.4	7.706	2.903	29.39	0
4/9/21 3:20	5.143	151.5	7.841	2.514	29.39	0
4/9/21 3:31	5.395	153.1	8.32	2.191	29.39	0
4/9/21 3:46	4.255	150.9	6.408	2.285	29.39	0
4/9/21 4:04	3.726	146.8	8.24	2.115	29.39	0
4/9/21 4:29	2.975	146.1	13.63	2.013	29.39	0
4/9/21 4:42	4.342	162.1	18.91	1.767	29.39	0
4/9/21 4:54	5.891	167.9	11.91	1.577	29.39	0
4/9/21 5:13	6.496	176	8.42	1.611	29.39	0
4/9/21 5:24	6.835	154.5	10.09	1.542	29.39	0
4/9/21 5:30	5.499	157.2	6.959	1.316	29.39	0
4/9/21 5:49	5.853	162.2	7.107	1.104	29.39	0
4/9/21 6:11	5.381	149.3	7.329	1.308	29.39	0
4/9/21 6:20	6.397	155.8	8.5	1.372	29.39	0
4/9/21 6:41	6.351	157.4	7.109	1.761	29.39	0
4/9/21 6:46	5.949	149	8.75	2.277	29.38	0
4/9/21 7:14	6.124	151.7	7.224	2.49	29.38	0
4/9/21 7:17	6.389	149.4	8.07	2.804	29.38	0
4/9/21 7:43	7.607	150.7	10.43	3.859	29.38	0
4/9/21 7:47	8.25	156.3	10.8	4.284	29.38	0
4/9/21 8:11	9.09	158.5	14.63	4.748	29.38	0
4/9/21 8:15	8.66	170.3	16.9	4.732	29.38	0
4/9/21 8:36	9.49	159.6	11.28	5.127	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
4/9/21 8:49	9.41	172.4	12.89	5.374	29.38	0
4/9/21 9:01	8.8	192.7	18.28	5.402	29.38	0
4/9/21 9:23	9.52	183.6	17.4	6.315	29.38	0
4/9/21 9:43	10.5	188.6	15.56	6.332	29.38	0
4/9/21 9:45	11.7	198.2	13.33	6.373	29.38	0
4/9/21 10:08	11.96	199.3	13.78	6.704	29.38	0
4/9/21 10:15	12.75	206.1	9.82	6.906	29.38	0
4/9/21 10:39	13.66	221.6	9.56	7.092	29.38	0
4/9/21 10:49	10.93	213.6	15.18	7.376	29.35	0
4/9/21 11:06	12.7	213.5	15.6	7.532	29.35	0
4/9/21 11:26	9.19	206	14.91	7.877	29.35	0
4/9/21 11:39	10.67	237.2	17.03	7.998	29.35	0
4/9/21 11:55	14.03	226	9.72	8.02	29.35	0
4/9/21 12:00	11.92	228.7	9.71	8.06	29.35	0
4/9/21 12:18	10.82	238.4	14.63	8.23	29.35	0
4/9/21 12:38	11.01	253.4	13.12	8.07	29.35	0
4/9/21 12:49	11.16	236.3	14.73	8.22	29.34	0
4/9/21 13:00	10.07	230.8	13.36	8.31	29.34	0
4/9/21 13:21	10.65	237.6	15.09	8.36	29.34	0
4/9/21 13:44	10.19	232	13.12	8.21	29.34	0
4/9/21 13:55	13.28	226.2	9.07	8.18	29.31	0
4/9/21 14:02	11.98	242	8.65	8.19	29.31	0
4/9/21 14:19	11.55	239	12.26	8.19	29.31	0
4/9/21 14:31	11.21	230.7	14.69	8.15	29.31	0
4/9/21 14:56	13.95	233.8	10.52	8.21	29.27	0
4/9/21 15:02	15.54	238.3	8.18	8.13	29.27	0
4/9/21 15:22	13.91	233.8	10.09	8.01	29.27	0
4/9/21 15:32	13.01	227.4	9.56	7.985	29.27	0
4/9/21 15:52	11.36	232.7	10.39	7.958	29.26	0
4/9/21 16:12	11.84	242.9	7.83	7.945	29.26	0
4/9/21 16:19	11.95	244.3	6.824	7.871	29.26	0
4/9/21 16:36	11.09	243	11.9	7.656	29.26	0
4/9/21 16:57	10.65	239.4	15.27	7.468	29.25	0
4/9/21 17:00	9.17	221.3	14.91	7.527	29.25	0
4/9/21 17:25	10.79	215.8	9.17	7.578	29.25	0
4/9/21 17:35	11.68	217.1	8.43	7.517	29.25	0
4/9/21 17:57	11.17	220.9	10.96	7.259	29.25	0
4/9/21 18:06	10.66	212	8.4	7.165	29.25	0
4/9/21 18:26	13.42	218.4	10.12	6.969	29.25	0
4/9/21 18:33	12.76	212.6	9.73	6.422	29.25	0
4/9/21 18:47	10.69	195.8	9.23	6.032	29.24	0
4/9/21 19:00	8.21	188.1	8.75	5.88	29.24	0
4/9/21 19:27	11.22	184.1	8.48	5.776	29.24	0
4/9/21 19:34	12.21	185.5	8.64	5.699	29.24	0
4/9/21 19:50	13.24	186.1	7.6	5.635	29.22	0
4/9/21 20:06	12.42	188.7	8.48	5.634	29.22	0
4/9/21 20:20	11.03	179.6	8.44	5.566	29.22	0
4/9/21 20:42	10.04	163	10.15	5.364	29.22	0
4/9/21 20:58	10.44	154.6	6.886	5.185	29.22	0
4/9/21 21:14	11.19	154	8.32	5.124	29.22	0
4/9/21 21:29	11.36	158.1	8.64	5.211	29.22	0
4/9/21 21:31	11.03	156.6	7.234	5.235	29.22	0
4/9/21 21:53	11.69	165.5	8.97	5.32	29.2	0.01
4/9/21 22:07	11.33	172.6	9.01	5.391	29.2	0
4/9/21 22:17	10.68	178.1	8.97	5.512	29.2	0
4/9/21 22:36	14.08	185.6	10.8	5.885	29.2	0
4/9/21 22:54	16.55	196.1	8.47	6.099	29.16	0
4/9/21 23:05	15.79	208.5	9	5.865	29.16	0.03
4/9/21 23:15	14.28	204.1	8.8	5.567	29.16	0
4/9/21 23:37	15.74	208.9	9.06	5.487	29.16	0
4/9/21 23:55	14.66	220.5	7.393	5.243	29.2	0.01
4/10/21 0:12	17.87	209.2	10.42	5.15	29.2	0.01
4/10/21 0:15	17.69	201.9	7.422	4.987	29.2	0
4/10/21 0:31	16.87	200.5	9.14	4.822	29.2	0
4/10/21 0:54	17.18	197.3	8.27	4.553	29.2	0
4/10/21 1:07	15.53	198.8	9.37	4.476	29.2	0
4/10/21 1:17	12.58	198.6	10.71	4.466	29.2	0
4/10/21 1:30	8.82	179.4	12.54	4.322	29.2	0
4/10/21 1:57	10.77	183.4	14.1	4.253	29.19	0
4/10/21 2:14	10.84	201.8	10.3	4.278	29.19	0
4/10/21 2:26	14.66	184.8	9.8	4.322	29.19	0
4/10/21 2:39	15.3	183.7	7.95	4.23	29.19	0
4/10/21 2:51	16.51	189.2	9.17	4.128	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
4/10/21 3:08	15.61	195.6	7.96	3.989	29.18	0
4/10/21 3:16	13.94	203.7	9.6	4.054	29.18	0
4/10/21 3:33	14.88	213.2	11.4	4.212	29.18	0
4/10/21 3:57	15.06	213.4	12.15	4.124	29.21	0
4/10/21 4:06	13.97	219.2	11.3	3.975	29.21	0
4/10/21 4:17	12.38	227.1	9.85	3.8	29.21	0
4/10/21 4:31	8.5	237.5	12.77	3.615	29.21	0
4/10/21 4:48	10.4	231	9.22	3.389	29.25	0
4/10/21 5:14	7.855	236.9	11.21	3.318	29.25	0
4/10/21 5:17	9.92	228.6	10.87	3.268	29.25	0
4/10/21 5:31	11.82	217.9	8.02	3.238	29.25	0
4/10/21 5:46	8.64	220.9	9.87	3.245	29.28	0
4/10/21 6:00	4.975	236	15.27	3.264	29.28	0
4/10/21 6:17	3.66	313.6	76.17	2.939	29.28	0
4/10/21 6:40	3.669	41.5	17.01	2.042	29.28	0
4/10/21 6:59	3.154	42.12	13.38	1.951	29.31	0
4/10/21 7:00	2.648	32.21	13.89	2.109	29.31	0
4/10/21 7:27	1.307	135.5	79.4	2.514	29.31	0
4/10/21 7:44	4.682	211.9	15	3.076	29.31	0
4/10/21 7:54	7.785	237.4	13.31	3.303	29.33	0
4/10/21 8:10	9.84	229	18.18	3.584	29.33	0
4/10/21 8:20	11.62	222.1	10.09	3.871	29.33	0
4/10/21 8:40	10.4	233.6	12.5	4.019	29.33	0
4/10/21 8:46	8.41	251.6	11.17	4.099	29.33	0
4/10/21 9:14	8.4	246.7	10.48	4.238	29.33	0
4/10/21 9:17	9.47	242.1	10.88	4.442	29.33	0
4/10/21 9:41	6.905	252.1	15.31	4.486	29.33	0
4/10/21 9:58	3.737	294.1	68.47	4.529	29.37	0
4/10/21 10:04	5.496	38.42	12.45	4.084	29.37	0
4/10/21 10:26	6.231	34.89	16.08	5.072	29.37	0
4/10/21 10:32	6.996	23.2	11.88	4.138	29.37	0
4/10/21 10:57	5.826	22.32	17.22	5.694	29.37	0
4/10/21 11:00	3.755	20.34	40.82	5.868	29.37	0
4/10/21 11:28	3.278	0.087	43.8	6.921	29.37	0
4/10/21 11:34	6.638	343.2	48.41	7.24	29.37	0
4/10/21 11:51	6.495	340.7	44.09	7.096	29.37	0
4/10/21 12:06	8.59	347.3	18.26	7.719	29.37	0
4/10/21 12:22	8.77	327.2	20.08	7.9	29.37	0
4/10/21 12:43	8.75	306.5	22.08	8.05	29.37	0
4/10/21 12:52	10.51	278.7	16.58	8.02	29.4	0
4/10/21 13:14	10.11	344.1	18.11	8.31	29.4	0
4/10/21 13:16	9.89	324.7	20.79	8.64	29.4	0
4/10/21 13:30	10.68	312.8	22.3	8.53	29.4	0
4/10/21 13:46	9.69	294.6	19.29	8.41	29.39	0
4/10/21 14:06	10.62	287	10.53	7.865	29.39	0
4/10/21 14:20	9.34	280.1	12.44	7.771	29.39	0
4/10/21 14:43	8.95	252.1	9.43	7.753	29.39	0
4/10/21 14:57	10.16	255.2	8.79	7.918	29.42	0
4/10/21 15:06	9.05	257.1	17.21	8.31	29.42	0
4/10/21 15:23	9.49	285.9	13.19	8.71	29.42	0
4/10/21 15:43	10.75	317.9	26.49	8.92	29.42	0
4/10/21 15:49	11.28	6.693	15.45	7.703	29.43	0
4/10/21 16:02	13.34	0.497	14.35	7.37	29.43	0
4/10/21 16:22	10.89	346	16.77	7.508	29.43	0
4/10/21 16:31	10.03	356.3	16.49	7.605	29.43	0
4/10/21 16:48	8.8	12.1	13.52	7.249	29.44	0
4/10/21 17:07	8.98	0.518	17.42	7.129	29.44	0
4/10/21 17:24	11.33	3.361	13.83	6.902	29.44	0
4/10/21 17:44	7.735	2.981	12.85	6.796	29.44	0
4/10/21 17:52	9.61	3.88	12.47	6.834	29.46	0
4/10/21 18:14	9.75	10.75	14.11	6.691	29.46	0
4/10/21 18:19	14.26	8.2	11.3	6.421	29.46	0
4/10/21 18:42	13.93	3.773	14.56	6.192	29.46	0
4/10/21 18:45	11.79	1.826	12.55	6.013	29.46	0
4/10/21 19:02	9.87	5.766	14.45	5.806	29.46	0
4/10/21 19:21	9.25	4.72	12.2	5.648	29.46	0
4/10/21 19:32	8.08	10.19	11.14	5.47	29.46	0
4/10/21 19:49	7.923	14.46	10.51	5.459	29.47	0
4/10/21 20:03	6.099	356.2	11.71	5.433	29.47	0
4/10/21 20:24	5.678	347.6	11.58	5.33	29.47	0
4/10/21 20:42	4.663	349.5	13.77	5.109	29.47	0
4/10/21 20:46	2.134	1.46	19.21	4.641	29.48	0
4/10/21 21:00	0	0	0	4.44	29.48	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
4/10/21 21:28	0.072	59.23	2.919	4.456	29.48	0
4/10/21 21:40	0.651	101.1	15.5	4.625	29.48	0
4/10/21 21:51	0.792	86.9	8.39	4.531	29.5	0
4/10/21 22:13	1.369	103.4	7.335	4.437	29.5	0
4/10/21 22:24	1.852	88.9	34.76	3.986	29.5	0
4/10/21 22:31	2.272	77.74	27.74	3.184	29.5	0
4/10/21 22:54	2.709	91.7	15.18	2.725	29.49	0
4/10/21 23:02	2.315	72.53	27.05	2.142	29.49	0
4/10/21 23:25	2.456	51.74	13.82	1.923	29.49	0
4/10/21 23:38	2.391	53.45	9.58	2.216	29.49	0
4/10/21 23:45	1.129	36.46	1.23	1.996	29.49	0
4/11/21 0:14	1.521	344.5	30.15	2.219	29.49	0
4/11/21 0:18	2.377	161.8	18.57	1.735	29.49	0
4/11/21 0:43	1.619	132.6	31.31	1.726	29.49	0
4/11/21 0:51	2.801	176.6	8.91	1.258	29.51	0
4/11/21 1:04	2.784	138.9	11.23	1.297	29.51	0
4/11/21 1:29	1.936	104.9	18.12	1.877	29.51	0
4/11/21 1:35	3.429	93.9	5.65	1.069	29.51	0
4/11/21 1:45	2.072	95	3.822	1.456	29.5	0
4/11/21 2:03	1.841	112.2	10.85	1.489	29.5	0
4/11/21 2:22	2.613	145.1	17.09	1.644	29.5	0
4/11/21 2:31	2.042	122.3	20.2	1.235	29.5	0
4/11/21 2:48	2.143	118.7	14.16	1.178	29.51	0
4/11/21 3:06	2.311	101.9	7.173	0.679	29.51	0
4/11/21 3:17	2.608	130	6.547	0.678	29.51	0
4/11/21 3:31	2.553	141.4	8.83	0.661	29.51	0
4/11/21 3:45	1.81	136.3	7.744	0.693	29.53	0
4/11/21 4:09	1.926	189.8	19.06	0.657	29.53	0
4/11/21 4:29	2.785	177.2	9.72	0.203	29.53	0
4/11/21 4:30	4.194	175.5	5.42	0.137	29.53	0
4/11/21 4:51	4.748	185.3	6.352	-0.061	29.51	0
4/11/21 5:00	2.928	186.5	8.76	-0.363	29.51	0
4/11/21 5:29	1.757	169.3	26.01	-0.172	29.51	0
4/11/21 5:30	1.238	128	12.97	-0.003	29.51	0
4/11/21 5:46	0.164	29.24	2.765	-0.176	29.55	0
4/11/21 6:01	0.166	31.58	4.012	0.605	29.55	0
4/11/21 6:28	1.53	184.7	20.36	0.408	29.55	0
4/11/21 6:43	2.368	200.9	8.4	0.253	29.55	0
4/11/21 6:45	0.541	188.1	19.79	1.133	29.54	0
4/11/21 7:11	1.032	124.7	11.07	2.512	29.54	0
4/11/21 7:26	2.275	158.9	19.34	2.291	29.54	0
4/11/21 7:31	2.74	182	12.4	2.384	29.54	0
4/11/21 7:54	2.325	168.4	17.14	3.227	29.55	0
4/11/21 8:11	1.797	208.8	30.7	3.665	29.55	0
4/11/21 8:20	2.028	235.4	21.05	3.987	29.55	0
4/11/21 8:31	1.64	253.8	34.67	4.849	29.55	0
4/11/21 8:58	2.437	279.1	24.03	5.317	29.55	0
4/11/21 9:08	4.176	287.8	15.31	5.797	29.55	0
4/11/21 9:26	4.976	52.31	32.08	6.03	29.55	0
4/11/21 9:44	4.156	334.2	33.97	6.593	29.55	0
4/11/21 9:55	5.464	358.5	29.86	6.882	29.55	0
4/11/21 10:14	7.636	39.87	16.27	7.305	29.55	0
4/11/21 10:22	11.23	36.9	12.73	7.066	29.55	0
4/11/21 10:30	11.5	29.03	11.79	7.058	29.55	0
4/11/21 10:48	10.32	28.13	11.67	7.59	29.53	0
4/11/21 11:02	10	30.51	16.08	7.727	29.53	0
4/11/21 11:15	9.65	36.9	18.05	7.76	29.53	0
4/11/21 11:40	10.03	32.59	17.01	8.07	29.53	0
4/11/21 11:59	8.58	41.46	22.83	8.33	29.51	0
4/11/21 12:04	9.66	28.96	14.77	7.776	29.51	0
4/11/21 12:15	7.803	357.2	33.14	9.1	29.51	0
4/11/21 12:33	10.48	353	22.12	8.27	29.51	0
4/11/21 12:56	8.05	2.634	28.32	9.29	29.51	0
4/11/21 13:07	10.16	334.6	29.35	9.29	29.51	0
4/11/21 13:25	10.75	357.1	28.59	9.8	29.51	0
4/11/21 13:35	12.08	334.3	20.47	10.06	29.51	0
4/11/21 13:56	11.74	322.4	19.01	10.23	29.5	0
4/11/21 14:11	8.78	5.275	28.36	10.16	29.5	0
4/11/21 14:18	10.57	353.9	22.94	10.41	29.5	0
4/11/21 14:35	11.21	350.8	25.22	10.39	29.5	0
4/11/21 14:51	9.35	9.57	21.61	10.37	29.49	0
4/11/21 15:10	8.81	350.6	28.63	10.7	29.49	0
4/11/21 15:17	8.99	350	27.24	10.66	29.49	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
4/11/21 15:39	9.71	339.5	16.37	10.91	29.49	0
4/11/21 15:50	11.36	333	14.12	10.57	29.46	0
4/11/21 16:06	10.65	337.7	16.24	10.69	29.46	0
4/11/21 16:20	10.07	329.2	17.98	10.58	29.46	0
4/11/21 16:44	12.13	334.4	13.28	10.44	29.46	0
4/11/21 16:51	11.75	336.2	16.07	10.29	29.47	0
4/11/21 17:08	12.47	329.5	12.08	10.01	29.47	0
4/11/21 17:18	11.8	325	9.89	9.84	29.47	0
4/11/21 17:43	8.89	340.5	16.68	9.73	29.47	0
4/11/21 17:53	9.76	347.3	15.71	9.34	29.45	0
4/11/21 18:06	10.12	345.3	17.02	8.91	29.45	0
4/11/21 18:18	9.29	338.1	15.03	8.43	29.45	0
4/11/21 18:35	9.22	329.1	16.25	7.961	29.45	0
4/11/21 18:54	6.819	304.4	19.74	7.548	29.47	0
4/11/21 19:04	4.673	289.8	20.69	7.205	29.47	0
4/11/21 19:26	6.104	293.5	14.85	6.972	29.47	0
4/11/21 19:30	5.361	311.6	12.46	6.719	29.47	0
4/11/21 19:57	6.345	331.8	14.5	6.506	29.46	0
4/11/21 20:02	4.724	324.7	21.37	6.288	29.46	0
4/11/21 20:29	4.979	332	25.92	6.311	29.46	0
4/11/21 20:36	2.766	1.185	30.79	6.136	29.46	0
4/11/21 20:47	2.415	9.63	44.26	5.994	29.48	0
4/11/21 21:04	2.768	34.86	28.76	5.84	29.48	0
4/11/21 21:26	1.635	85.5	39.12	5.625	29.48	0
4/11/21 21:44	2.901	57.64	38.78	5.471	29.48	0
4/11/21 21:45	3.276	61.91	24.44	5.332	29.49	0
4/11/21 22:06	3.897	38.83	23.74	5.282	29.49	0
4/11/21 22:24	4.216	45.63	17.05	5.366	29.49	0
4/11/21 22:36	4.597	50.17	15.3	5.342	29.49	0
4/11/21 22:57	4.237	26.48	19.52	5.08	29.49	0
4/11/21 23:01	4.413	51.82	37.9	4.854	29.49	0
4/11/21 23:18	2.489	52	31.61	4.502	29.49	0
4/11/21 23:38	3.132	89.6	26.57	3.982	29.49	0
4/11/21 23:58	4.994	58.22	28.24	4.142	29.48	0
4/12/21 0:05	8.22	39.47	12.11	4.319	29.48	0
4/12/21 0:19	6.445	47.63	34.42	3.877	29.48	0
4/12/21 0:31	4.692	67.28	14.77	3.753	29.48	0
4/12/21 0:47	3.647	87.2	15.89	3.311	29.47	0
4/12/21 1:00	3.115	130.2	17.7	3.345	29.47	0
4/12/21 1:15	2.583	191.4	31.52	3.239	29.47	0
4/12/21 1:30	2.246	245.5	9.55	2.12	29.47	0
4/12/21 1:56	2.999	330.8	20.53	1.877	29.47	0
4/12/21 2:11	4.89	332.7	7.944	2.312	29.47	0
4/12/21 2:17	5.232	348.7	13.22	1.875	29.47	0
4/12/21 2:30	3.443	2.898	7.73	1.802	29.47	0
4/12/21 2:56	2.233	349.7	6.807	1.967	29.48	0
4/12/21 3:00	2.257	342.4	8.36	2.056	29.48	0
4/12/21 3:29	1.972	350.2	15.27	1.716	29.48	0
4/12/21 3:43	2.914	24.91	9.97	2.139	29.48	0
4/12/21 3:52	3.675	23.61	8.96	1.956	29.45	0
4/12/21 4:05	3.366	32.62	9.5	1.76	29.45	0
4/12/21 4:21	2.361	49.89	9.78	1.353	29.45	0
4/12/21 4:33	2.666	44.46	9.47	1.341	29.45	0
4/12/21 4:58	2.742	66.33	9.68	1.352	29.44	0
4/12/21 5:14	3.631	39.61	8.21	0.637	29.44	0
4/12/21 5:17	3.603	49.9	8.63	0.2	29.44	0
4/12/21 5:43	3.987	41.38	7.361	-0.443	29.44	0
4/12/21 5:59	5.706	42.48	8.87	-0.679	29.47	0
4/12/21 6:06	9.5	38.9	8.8	-0.481	29.47	0
4/12/21 6:17	7.291	48.98	11.29	0.013	29.47	0
4/12/21 6:34	7.871	31.16	10.75	0.46	29.47	0
4/12/21 6:48	6.769	25.24	8.18	0.944	29.46	0
4/12/21 7:00	2.975	46.24	14.89	1.678	29.46	0
4/12/21 7:23	2.34	74.62	14.42	2.54	29.46	0
4/12/21 7:30	2.207	93.2	31.69	3.241	29.46	0
4/12/21 7:51	3.412	62.15	29.41	3.693	29.47	0
4/12/21 8:03	2.161	18.95	52.09	4.209	29.47	0
4/12/21 8:20	2.518	229.9	31.92	5.231	29.47	0
4/12/21 8:32	2.518	20.18	22.27	6.685	29.47	0
4/12/21 8:53	5.737	35.8	14.43	7.171	29.45	0
4/12/21 9:07	8.03	33.49	9.26	7.45	29.45	0
4/12/21 9:23	10.94	29.62	10	7.708	29.45	0
4/12/21 9:39	13.51	33.13	8.02	7.824	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
4/12/21 9:57	11.36	26.07	11.92	8.6	29.43	0
4/12/21 10:06	12.61	17.71	11.72	8.84	29.43	0
4/12/21 10:20	12.24	355.6	16.73	9.56	29.43	0
4/12/21 10:36	10.86	5.519	15.47	10.25	29.43	0
4/12/21 10:47	13.28	8.04	13.51	10.08	29.44	0
4/12/21 11:05	15.05	11.34	13.52	10.37	29.44	0
4/12/21 11:24	16.21	19.08	13.06	10.66	29.44	0
4/12/21 11:32	15.31	16.87	12.19	11.11	29.44	0
4/12/21 11:58	14.9	19.93	13.48	11.59	29.42	0
4/12/21 12:12	16.54	19.95	12.1	11.81	29.42	0
4/12/21 12:15	16.67	19.75	12.61	12.16	29.42	0
4/12/21 12:38	16.05	13.49	13.51	12.65	29.42	0
4/12/21 12:55	15.24	19.15	12.97	12.82	29.41	0
4/12/21 13:13	16.38	14.27	12.24	13.15	29.41	0
4/12/21 13:20	18.31	15.1	10.23	13.14	29.41	0
4/12/21 13:43	17.88	11.97	13.67	13.55	29.41	0
4/12/21 13:57	18.38	9.55	15.56	13.72	29.38	0
4/12/21 14:01	16.53	8.3	13.42	14	29.38	0
4/12/21 14:20	17.68	1.79	15.93	14.2	29.38	0
4/12/21 14:33	14.47	3.126	14.62	14.76	29.38	0
4/12/21 14:52	16.73	355.7	15.56	14.87	29.38	0
4/12/21 15:01	16.7	2.373	12.47	14.68	29.38	0
4/12/21 15:17	17.05	9.68	13.67	14.62	29.38	0
4/12/21 15:30	18.32	13.29	14.74	14.54	29.38	0
4/12/21 15:58	18.61	18.97	12.74	14.52	29.39	0
4/12/21 16:02	16.91	18.28	12.2	14.47	29.39	0
4/12/21 16:29	15.4	18.81	12.83	14.54	29.39	0
4/12/21 16:30	17.22	13.97	11.21	14.37	29.39	0
4/12/21 16:55	14.76	17.3	12.73	14.26	29.41	0
4/12/21 17:09	15.62	6.26	12.7	14.06	29.41	0
4/12/21 17:22	15.19	6.342	16.87	13.91	29.41	0
4/12/21 17:31	14.88	11.33	13.21	13.77	29.41	0
4/12/21 17:49	12.38	14.19	12.52	13.77	29.39	0
4/12/21 18:03	9.35	61.51	30.94	13.67	29.39	0
4/12/21 18:17	6.977	77.77	17.14	13.71	29.39	0
4/12/21 18:43	6.704	56.67	16.84	13.17	29.39	0
4/12/21 18:50	9.66	36.24	9.8	12.32	29.42	0
4/12/21 19:02	7.023	33.87	9.24	11.77	29.42	0
4/12/21 19:16	5.518	33.1	11.38	11.58	29.42	0
4/12/21 19:30	6.036	15.55	9.97	10.99	29.42	0
4/12/21 19:55	6.148	8.2	7.218	10.46	29.41	0
4/12/21 20:02	5.549	9.95	11.43	9.81	29.41	0
4/12/21 20:24	3.503	37.91	27.54	9.42	29.41	0
4/12/21 20:36	4.433	22.9	16.92	9.25	29.41	0
4/12/21 20:46	1.76	41.33	37.08	8.85	29.42	0
4/12/21 21:08	1.262	326.3	49.08	9.63	29.42	0
4/12/21 21:25	2.52	346.5	29.23	10.45	29.42	0
4/12/21 21:40	3.753	23.06	10.97	9.73	29.42	0
4/12/21 21:55	3.827	14.87	8.89	8.62	29.45	0
4/12/21 22:06	3.719	16.31	10.43	8.45	29.45	0
4/12/21 22:20	4.865	9.96	9.67	8.42	29.45	0
4/12/21 22:43	4.738	23.75	8	8.08	29.45	0
4/12/21 22:57	7.993	32.32	7.66	7.455	29.46	0
4/12/21 23:02	8.02	42.24	7.743	7.03	29.46	0
4/12/21 23:26	7.596	42.36	9.74	6.058	29.46	0
4/12/21 23:33	8.21	51.84	7.31	6.368	29.46	0
4/12/21 23:46	8.72	46.65	7.196	6.817	29.46	0
4/13/21 0:09	6.91	50.35	8.45	7.444	29.46	0
4/13/21 0:16	5.606	61.79	8.66	8.27	29.46	0
4/13/21 0:44	5.519	50.11	10.31	7.346	29.46	0
4/13/21 0:57	8.61	44.86	10.51	5.604	29.47	0
4/13/21 1:00	10.23	34.21	6.063	5.603	29.47	0
4/13/21 1:28	8.47	33.07	7.091	5.292	29.47	0
4/13/21 1:38	7.49	43.45	9.47	5.33	29.47	0
4/13/21 1:49	6.651	57.55	8.74	5.03	29.47	0
4/13/21 2:00	3.734	84.4	33.43	5.277	29.47	0
4/13/21 2:22	4.177	122.5	31.31	7.223	29.47	0
4/13/21 2:44	4.384	39.99	29.57	5.658	29.47	0
4/13/21 2:58	5.349	28.8	12.45	4.111	29.47	0
4/13/21 3:12	6.732	32.19	8.53	3.732	29.47	0
4/13/21 3:15	6.87	28.38	6.416	4.031	29.47	0
4/13/21 3:30	6.335	26.01	5.48	4.058	29.47	0
4/13/21 3:53	6.227	19.96	7.177	4.106	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
4/13/21 4:12	6.851	26.16	8.98	3.99	29.47	0
4/13/21 4:23	7.407	30.11	8.81	2.978	29.47	0
4/13/21 4:41	7.27	34.94	10.56	2.475	29.47	0
4/13/21 4:46	6.92	36.56	9.98	2.736	29.48	0
4/13/21 5:07	6.99	30.9	9.14	2.516	29.48	0
4/13/21 5:15	5.432	26.21	11.13	2.85	29.48	0
4/13/21 5:33	5.366	26.07	9.4	3.001	29.48	0
4/13/21 5:47	4.685	32.5	12.47	3.735	29.49	0
4/13/21 6:14	4.163	39.35	15.97	3.834	29.49	0
4/13/21 6:28	4.83	24.55	6.571	4.091	29.49	0
4/13/21 6:34	4.893	22.47	6.33	4.061	29.49	0
4/13/21 6:54	5.622	16.63	9.21	5.094	29.5	0
4/13/21 7:01	4.413	16.23	10.08	5.641	29.5	0
4/13/21 7:16	2.281	43.18	29.31	5.897	29.5	0
4/13/21 7:44	1.635	128.4	41.52	8.93	29.5	0
4/13/21 7:48	3.314	29.73	22.84	7.485	29.51	0
4/13/21 8:12	3.54	14.18	15.57	8.59	29.51	0
4/13/21 8:29	4.081	15.01	16.66	8.92	29.51	0
4/13/21 8:42	5.593	30.05	9.52	10.05	29.51	0
4/13/21 8:58	4.104	27.67	21.96	10.73	29.49	0
4/13/21 9:07	6.111	50.97	21.44	11.17	29.49	0
4/13/21 9:23	7.361	48.87	22.39	11.74	29.49	0
4/13/21 9:38	10.12	27.2	12.8	12.23	29.49	0
4/13/21 9:59	8.05	37.59	17.01	12.65	29.5	0
4/13/21 10:02	7.777	52.27	21.21	12.82	29.5	0
4/13/21 10:25	8.21	32.99	29.02	13.02	29.5	0
4/13/21 10:41	9.57	42.04	36.22	13.33	29.5	0
4/13/21 10:51	11.4	14.06	21.93	13.37	29.48	0
4/13/21 11:09	9.32	27.27	21.93	13.56	29.48	0
4/13/21 11:27	11.65	9.49	13.62	14.17	29.48	0
4/13/21 11:30	8.98	1.762	37.04	14.27	29.48	0
4/13/21 11:52	10.42	13.62	14.18	14.71	29.46	0
4/13/21 12:10	9.99	1.39	21.98	15.12	29.46	0
4/13/21 12:16	11.29	10.73	18.44	14.99	29.46	0
4/13/21 12:34	12.4	10.74	15.58	15.25	29.46	0
4/13/21 12:59	8.48	14.75	33.94	15.64	29.44	0
4/13/21 13:00	10.77	31.46	19.48	15.38	29.44	0
4/13/21 13:23	11.43	15.12	25.63	16.05	29.44	0
4/13/21 13:39	12.4	18.28	20.07	15.82	29.44	0
4/13/21 13:53	12.75	3.692	25.04	16.18	29.44	0
4/13/21 14:08	13.85	357.8	21.33	16.21	29.44	0
4/13/21 14:17	16.47	0.62	21.62	16.27	29.44	0
4/13/21 14:31	10.95	21.46	21.71	16.22	29.44	0
4/13/21 14:58	12.11	1.047	21.64	16.34	29.41	0
4/13/21 15:02	10.46	347.6	24.77	16.31	29.41	0
4/13/21 15:23	15.53	327.9	12.96	16.08	29.41	0
4/13/21 15:43	18.24	325.2	12.43	15.77	29.41	0
4/13/21 15:51	19.95	331.8	12.42	15.73	29.4	0
4/13/21 16:09	19.82	339.8	11.61	15.61	29.4	0
4/13/21 16:15	17.05	339.2	15.34	15.54	29.4	0
4/13/21 16:44	16.79	335.4	12.6	15.34	29.4	0
4/13/21 16:53	15.95	345	14.81	15.23	29.41	0
4/13/21 17:04	13.71	339.9	11.05	15.11	29.41	0
4/13/21 17:17	15.03	345.8	14.23	14.77	29.41	0
4/13/21 17:36	14.53	348.4	14.16	14.65	29.41	0
4/13/21 17:48	16.43	349.1	12.7	14.39	29.41	0
4/13/21 18:03	15.36	0.466	13.37	14.02	29.41	0
4/13/21 18:25	15.23	6.415	11.29	13.66	29.41	0
4/13/21 18:31	15.08	5.156	10.21	13.39	29.41	0
4/13/21 18:52	15.4	10.06	8.88	13.04	29.42	0
4/13/21 19:10	14.26	19.79	7.82	12.71	29.42	0
4/13/21 19:23	15.47	20.89	7.832	12.7	29.42	0
4/13/21 19:35	13.6	29.42	9.69	12.44	29.42	0
4/13/21 19:52	12.45	39.04	10.68	12.03	29.43	0
4/13/21 20:08	10.63	39.62	9.64	11.48	29.43	0
4/13/21 20:29	11.38	40.4	10.08	11.44	29.43	0
4/13/21 20:31	12.78	36.94	10.04	11.5	29.43	0
4/13/21 20:58	11.62	37.12	14.07	11.42	29.4	0
4/13/21 21:01	8.02	47.16	19.25	11.29	29.4	0
4/13/21 21:17	7.022	67.39	18.44	10.95	29.4	0
4/13/21 21:34	10.75	42.57	14.12	10.74	29.4	0
4/13/21 21:46	9.15	29.41	8.9	10.33	29.43	0
4/13/21 22:00	6.013	49.72	14.11	10.06	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
4/13/21 22:28	5.686	41.78	10.33	9.73	29.43	0
4/13/21 22:38	6.386	42.98	11.15	9.84	29.43	0
4/13/21 22:59	7.392	54.96	8.52	9.42	29.42	0
4/13/21 23:12	8.4	47.9	9.54	8.86	29.42	0
4/13/21 23:25	9.99	43.02	7.917	8.72	29.42	0
4/13/21 23:39	10.02	39.46	8.43	8.5	29.42	0
4/13/21 23:45	4.632	32.21	10.27	7.5	29.4	0
4/14/21 0:07	3.754	34.23	12.04	7.171	29.4	0
4/14/21 0:22	4.678	22.65	10.09	7.28	29.4	0
4/14/21 0:34	4.19	32.75	8.98	6.994	29.4	0
4/14/21 0:59	4.014	44.6	10.15	6.22	29.39	0
4/14/21 1:13	5.583	60.36	8.99	5.178	29.39	0
4/14/21 1:16	2.447	72.57	21.88	5.888	29.39	0
4/14/21 1:31	1.909	96.8	60.9	5.87	29.39	0
4/14/21 1:46	0.631	340.6	39.62	6.004	29.39	0
4/14/21 2:12	1.297	14.9	12.53	5.716	29.39	0
4/14/21 2:23	2.66	54.31	15.28	5.864	29.39	0
4/14/21 2:36	3.083	62.03	6.081	5.552	29.39	0
4/14/21 2:59	4.238	49.21	7.095	5.049	29.38	0
4/14/21 3:11	4.916	35.13	10.24	4.318	29.38	0
4/14/21 3:18	4.715	46.69	10	4.116	29.38	0
4/14/21 3:43	4.533	33.27	9.85	3.892	29.38	0
4/14/21 3:59	4.975	31.72	8.37	3.702	29.39	0
4/14/21 4:00	5.025	29.62	8.23	4.026	29.39	0
4/14/21 4:28	5.065	23.7	8.94	3.612	29.39	0
4/14/21 4:34	4.969	19.58	9.43	4.239	29.39	0
4/14/21 4:47	4.365	33.4	8.71	3.686	29.39	0
4/14/21 5:13	5.35	37.63	9.25	3.203	29.39	0
4/14/21 5:25	5.197	31.24	8.47	3.091	29.39	0
4/14/21 5:31	6.189	27.86	9.1	2.954	29.39	0
4/14/21 5:55	7.39	31.49	9.44	2.432	29.39	0
4/14/21 6:02	6.989	30.27	11.32	2.472	29.39	0
4/14/21 6:16	6.019	15.54	8.7	3.523	29.39	0
4/14/21 6:42	3.719	5.69	16.5	5.35	29.39	0
4/14/21 6:49	3.001	4.121	13.76	5.903	29.4	0
4/14/21 7:08	4.279	16.57	12.24	6.931	29.4	0
4/14/21 7:22	3.749	26.76	17.19	7.213	29.4	0
4/14/21 7:37	4.507	37.6	13.83	6.856	29.4	0
4/14/21 7:45	3.149	48.1	9.03	7.895	29.38	0
4/14/21 8:13	1.696	40.98	35.08	9.86	29.38	0
4/14/21 8:18	3.093	12.18	20.26	10.57	29.38	0
4/14/21 8:39	2.966	13.58	33.28	11.29	29.38	0
4/14/21 8:56	6.141	35.91	10	11.48	29.38	0
4/14/21 9:13	7.537	35.93	9.54	11.61	29.38	0
4/14/21 9:23	8.38	31.29	11.11	11.83	29.38	0
4/14/21 9:35	9.67	32.41	9.84	12	29.38	0
4/14/21 9:52	9.64	30.1	9.75	12.21	29.36	0
4/14/21 10:10	8.99	32.14	9.22	12.68	29.36	0
4/14/21 10:23	8.75	33.9	11.55	12.98	29.36	0
4/14/21 10:43	9.9	32.74	8.82	13.57	29.36	0
4/14/21 10:47	10.99	31.89	9	13.66	29.35	0
4/14/21 11:00	10.22	37.63	11.58	14	29.35	0
4/14/21 11:15	10.04	34.24	10.75	14.37	29.35	0
4/14/21 11:31	10.81	28.24	10.88	15.05	29.35	0
4/14/21 11:50	10.26	27.81	13.31	15.25	29.31	0
4/14/21 12:06	10.11	326.7	13.94	16.15	29.31	0
4/14/21 12:19	9.94	306	16.65	16.24	29.31	0
4/14/21 12:31	8.9	306.4	30.93	16.5	29.31	0
4/14/21 12:54	6.378	20.83	24.16	16.73	29.32	0
4/14/21 13:02	7.249	10.48	22.95	16.93	29.32	0
4/14/21 13:15	6.838	8.91	22.24	17.05	29.32	0
4/14/21 13:36	7.047	18.86	23.56	17.19	29.32	0
4/14/21 13:59	9.83	352.2	21.86	17.52	29.29	0
4/14/21 14:01	10.75	353.3	19.35	17.58	29.29	0
4/14/21 14:26	8.87	351.3	28.95	17.66	29.29	0
4/14/21 14:44	10.27	2.564	16.2	17.64	29.29	0
4/14/21 14:45	13.42	2.542	18.41	17.6	29.26	0
4/14/21 15:01	7.723	2.615	29.94	17.85	29.26	0
4/14/21 15:20	9.2	338.9	18.82	18.42	29.26	0
4/14/21 15:33	8.81	349.3	29.14	18.3	29.26	0
4/14/21 15:47	6.672	349.5	18.38	18.36	29.26	0
4/14/21 16:03	6.948	13.02	14.56	18.26	29.26	0
4/14/21 16:28	8.42	3.988	18.98	18.3	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
4/14/21 16:33	9.3	8.53	20.43	18	29.26	0
4/14/21 16:45	9.7	346.4	12.52	18.35	29.25	0
4/14/21 17:13	8.5	353.5	19.9	18.3	29.25	0
4/14/21 17:28	8.39	350	19.31	18.2	29.25	0
4/14/21 17:39	8.72	353.8	14.84	18.05	29.25	0
4/14/21 17:46	7.273	350.8	19.75	17.83	29.25	0
4/14/21 18:00	3.669	341.2	36.17	17.67	29.25	0
4/14/21 18:19	3.359	352.9	31.56	17.24	29.25	0
4/14/21 18:37	6.791	12.13	24.1	16.46	29.25	0
4/14/21 18:53	9.31	9.25	16.84	16.06	29.25	0
4/14/21 19:04	9.32	14.14	9.64	15.38	29.25	0
4/14/21 19:25	9.61	3.428	11.19	15.16	29.25	0
4/14/21 19:38	9.28	352.5	12.82	14.91	29.25	0
4/14/21 19:46	9.88	8.07	7.906	14.8	29.25	0
4/14/21 20:02	10.05	7.292	10.52	14.63	29.25	0
4/14/21 20:25	10.56	9.37	12.91	14.34	29.25	0
4/14/21 20:40	10.86	14.91	8.67	14.31	29.25	0
4/14/21 20:52	10.2	17.04	11.88	14.18	29.27	0
4/14/21 21:10	9.05	15.18	10.97	13.99	29.27	0
4/14/21 21:26	9.37	28.91	6.964	13.14	29.27	0
4/14/21 21:31	6.081	43.76	18.86	12.88	29.27	0
4/14/21 21:49	3.824	66.18	16.25	13.05	29.26	0
4/14/21 22:02	2.251	127.2	40.65	12.52	29.26	0
4/14/21 22:18	3.744	191.7	7.058	12.15	29.26	0
4/14/21 22:30	1.724	94.9	51	11.14	29.26	0
4/14/21 22:45	0.319	53.16	11.73	10.41	29.25	0
4/14/21 23:14	1.158	78.78	4.183	9.91	29.25	0
4/14/21 23:29	1.227	83.8	17.61	10.11	29.25	0
4/14/21 23:30	1.241	102.7	13.16	10.71	29.25	0
4/14/21 23:59	1.991	20.5	43.7	10.97	29.27	0
4/15/21 0:08	0.956	208.3	67.64	10.59	29.27	0
4/15/21 0:25	1.43	3.85	17.72	10.79	29.27	0
4/15/21 0:34	3.491	3.173	13.74	10.43	29.27	0
4/15/21 0:47	4.02	123.8	24.82	8.59	29.26	0
4/15/21 1:00	4.048	137.5	7.436	9.8	29.26	0
4/15/21 1:20	2.769	135.6	10.54	10.39	29.26	0
4/15/21 1:33	2.486	122	12.23	10.38	29.26	0
4/15/21 1:56	0.82	62.67	9.01	9.82	29.26	0
4/15/21 2:14	0.872	59.19	20.75	9.61	29.26	0
4/15/21 2:15	1.658	153.3	39.58	9.77	29.26	0
4/15/21 2:34	1.023	196.2	13.78	9.53	29.26	0
4/15/21 3:00	0.331	141.7	28.81	10.09	29.28	0
4/15/21 3:09	1.477	100.7	61.66	10.3	29.28	0
4/15/21 3:23	1.235	27.63	13.24	9.19	29.28	0
4/15/21 3:43	2.351	58.96	35.78	8.72	29.28	0
4/15/21 3:57	3.11	52.79	52.19	9.15	29.27	0
4/15/21 4:00	2.128	3.907	30.4	8.5	29.27	0
4/15/21 4:21	4.115	49.51	8.01	7.795	29.27	0
4/15/21 4:37	4.521	49.16	11.78	7.82	29.27	0
4/15/21 4:51	4.722	30.95	6.435	7.412	29.28	0
4/15/21 5:06	5.209	23.82	9.46	7.083	29.28	0
4/15/21 5:15	3.423	48.03	12.31	7.622	29.28	0
4/15/21 5:44	3.813	327.8	58.51	8.17	29.28	0
4/15/21 5:45	1.806	357.2	18.02	7.571	29.3	0
4/15/21 6:02	2.703	35.57	14.33	7.32	29.3	0
4/15/21 6:25	4.311	37.07	8.96	7.288	29.3	0
4/15/21 6:32	4.212	38.08	9.42	7.067	29.3	0
4/15/21 6:46	2.194	46.1	8.42	9.23	29.31	0
4/15/21 7:14	2.301	36.28	18.15	9.85	29.31	0
4/15/21 7:19	4.091	27.01	5.731	8.8	29.31	0
4/15/21 7:35	3.361	42.11	9.86	9.85	29.31	0
4/15/21 7:51	3.933	34.95	10.62	10.55	29.31	0
4/15/21 8:02	3.166	60.37	50.59	11.84	29.31	0
4/15/21 8:15	3.037	90.2	33.66	13.23	29.31	0
4/15/21 8:44	2.95	47.62	14.72	13.13	29.31	0
4/15/21 8:45	2.287	33.91	14.91	13.96	29.3	0
4/15/21 9:07	3.157	27.92	16.26	14.86	29.3	0
4/15/21 9:15	2.131	28.59	25.12	15.97	29.3	0
4/15/21 9:37	2.668	31.04	27.57	16.99	29.3	0
4/15/21 9:51	3.075	6.294	21.2	17.68	29.31	0
4/15/21 10:02	2.774	34.61	14.3	18.19	29.31	0
4/15/21 10:29	1.937	344.3	50.61	18.89	29.31	0
4/15/21 10:31	6.146	276.7	9.22	19.08	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
4/15/21 10:55	5.358	278.5	13.89	19.39	29.31	0
4/15/21 11:05	4.78	281.9	24.04	19.74	29.31	0
4/15/21 11:18	5.599	285.8	30.17	20.16	29.31	0
4/15/21 11:36	6.916	283.4	18.75	20.17	29.31	0
4/15/21 11:48	6.564	290.9	16.15	20.51	29.28	0
4/15/21 12:10	9.01	303.7	16.93	20.81	29.28	0
4/15/21 12:28	7.764	308.6	23.61	21.09	29.28	0
4/15/21 12:34	10.18	342.5	32.23	21.21	29.28	0
4/15/21 12:53	9.05	329.2	16.2	21.45	29.28	0
4/15/21 13:07	8.62	324	23.43	21.61	29.28	0
4/15/21 13:25	8.32	356.2	22.78	22.19	29.28	0
4/15/21 13:36	6.929	18.74	19.56	22.27	29.28	0
4/15/21 13:50	6.272	5.965	23.45	22.54	29.25	0
4/15/21 14:10	8.63	20.01	22.2	22.37	29.25	0
4/15/21 14:19	9.27	6.129	23.45	22.49	29.25	0
4/15/21 14:42	11.78	18.04	15.34	22.02	29.25	0
4/15/21 14:59	11.73	17.08	13	22.3	29.26	0
4/15/21 15:08	10.18	358	15.15	22.79	29.26	0
4/15/21 15:18	11.77	6.014	15.14	22.56	29.26	0
4/15/21 15:33	12.52	14.66	15.1	22.3	29.26	0
4/15/21 15:57	14.24	2.327	15.42	22.33	29.25	0
4/15/21 16:12	13.14	11.81	13.64	22.11	29.25	0
4/15/21 16:18	15.13	14.19	10.83	21.86	29.25	0
4/15/21 16:33	15.95	14.26	10.61	21.73	29.25	0
4/15/21 16:50	16.46	15.52	9.77	21.64	29.25	0
4/15/21 17:10	15.68	20.14	10.05	21.54	29.25	0
4/15/21 17:29	13.78	17.92	9.33	21.45	29.25	0
4/15/21 17:30	14.14	10.97	10.42	21.3	29.25	0
4/15/21 17:46	14.07	11.83	9.5	21.25	29.26	0
4/15/21 18:07	14.49	11.92	10.09	20.92	29.26	0
4/15/21 18:16	14.92	14.06	10.87	20.76	29.26	0
4/15/21 18:32	15.9	21.4	8.16	20.29	29.26	0
4/15/21 18:49	13.7	23.8	9.79	19.85	29.25	0
4/15/21 19:08	12.29	24.91	10.7	19.49	29.25	0
4/15/21 19:15	8.81	32.56	13.87	19.28	29.25	0
4/15/21 19:34	7.565	31.23	15.26	18.78	29.25	0
4/15/21 19:58	7.567	39.47	15.74	18.43	29.29	0
4/15/21 20:04	9.4	37.02	11.3	18.19	29.29	0
4/15/21 20:21	9.75	41.04	11.6	17.81	29.29	0
4/15/21 20:35	10.1	40.17	12.36	17.76	29.29	0
4/15/21 20:46	9	50.4	14.81	17.6	29.31	0
4/15/21 21:12	8.05	58.36	15.26	17.38	29.31	0
4/15/21 21:15	9.21	52.5	12.51	17.87	29.31	0
4/15/21 21:32	8.23	58.29	18.65	17.52	29.31	0
4/15/21 21:46	5.078	78.39	15.32	17.09	29.31	0
4/15/21 22:07	2.349	127.3	31.58	17.06	29.31	0
4/15/21 22:16	2.193	169.3	30.6	16.76	29.31	0
4/15/21 22:37	3.42	186.1	21.71	15.29	29.31	0
4/15/21 22:45	3.2	210.6	10.57	14.1	29.32	0
4/15/21 23:00	1.985	203.6	15.9	13.44	29.32	0
4/15/21 23:15	1.6	183.4	37.37	13.35	29.32	0
4/15/21 23:32	1.031	79.74	8.58	13.18	29.32	0
4/15/21 23:52	1.278	63.44	13.81	13.15	29.33	0
4/16/21 0:03	1.091	270.6	46.01	12.94	29.33	0
4/16/21 0:20	2.123	209.2	24.91	12.76	29.33	0
4/16/21 0:30	0.949	174.7	12.97	12.75	29.33	0
4/16/21 0:54	1.217	139.9	5.559	13.21	29.33	0
4/16/21 1:11	1.329	145.1	11.65	13.11	29.33	0
4/16/21 1:29	2.676	171.1	11.09	12.78	29.33	0
4/16/21 1:43	3.744	171.7	7.19	12.42	29.33	0
4/16/21 1:53	2.114	147.9	21.28	12.88	29.35	0
4/16/21 2:08	2.562	50.73	19.74	12.71	29.35	0
4/16/21 2:17	2.401	57.53	32.58	11.74	29.35	0
4/16/21 2:34	2.242	113.2	29.05	12.44	29.35	0
4/16/21 2:59	1.761	97.7	26.62	12	29.33	0
4/16/21 3:12	2.545	119	36.12	11.05	29.33	0
4/16/21 3:29	2.483	102.3	32.69	11.79	29.33	0
4/16/21 3:34	3.657	80	8.88	11.26	29.33	0
4/16/21 3:46	2.274	74.16	13.54	11.7	29.34	0
4/16/21 4:05	3.193	44.68	6.984	11.35	29.34	0
4/16/21 4:15	2.948	49.2	8.29	10.71	29.34	0
4/16/21 4:36	2.144	21.72	13.05	10.34	29.34	0
4/16/21 4:57	0.727	5.774	0.846	10.38	29.36	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
4/16/21 5:02	0.689	25.43	14.68	9.45	29.36	0
4/16/21 5:27	2.35	308.2	23.98	10.16	29.36	0
4/16/21 5:38	3.066	300.4	32.69	12.36	29.36	0
4/16/21 5:53	1.347	330.7	28.36	11.17	29.37	0
4/16/21 6:14	0.556	354.8	5.178	12.14	29.37	0
4/16/21 6:23	1.789	13.09	9.99	12.26	29.37	0
4/16/21 6:30	0.735	28.2	10.97	13.19	29.37	0
4/16/21 6:59	0.302	15.08	30.54	14.17	29.41	0
4/16/21 7:06	0.623	3.764	26.84	13.51	29.41	0
4/16/21 7:25	2.013	5.871	5.649	13.45	29.41	0
4/16/21 7:41	2.18	351.9	18.66	14.32	29.41	0
4/16/21 7:52	2.278	352.3	21.74	14.71	29.4	0
4/16/21 8:07	2.157	22.79	24.57	14.9	29.4	0
4/16/21 8:30	1.744	354.9	25.45	16.5	29.4	0
4/16/21 8:34	3.534	359.6	24	16.79	29.4	0
4/16/21 8:50	4.28	5.944	25.98	16.78	29.42	0
4/16/21 9:04	4.328	2.158	12.32	18	29.42	0
4/16/21 9:15	2.823	13.94	18	19.06	29.42	0
4/16/21 9:38	1.882	35.7	56.15	20.44	29.42	0
4/16/21 9:57	3.387	95.8	57.91	21.09	29.42	0
4/16/21 10:08	6.459	110.5	26.53	21.76	29.42	0
4/16/21 10:28	8.1	120.8	22.57	22.29	29.42	0
4/16/21 10:37	8.91	124.1	20.26	22.51	29.42	0
4/16/21 10:47	7.865	128.9	24.18	22.71	29.41	0
4/16/21 11:05	6.236	131	33.56	22.98	29.41	0
4/16/21 11:17	9.52	151.9	28.77	23.05	29.41	0
4/16/21 11:32	6.601	104.7	27.38	23.55	29.41	0
4/16/21 11:59	5.344	103.9	32.49	23.75	29.38	0
4/16/21 12:00	8.17	123.1	21.97	23.87	29.38	0
4/16/21 12:20	9.52	138.2	16.18	23.73	29.38	0
4/16/21 12:40	6.994	108.9	49.75	24.08	29.38	0
4/16/21 12:59	5.056	28.62	33.91	24.11	29.38	0
4/16/21 13:00	3.929	314.3	56.57	24.31	29.38	0
4/16/21 13:28	4.982	301.3	75.39	24.71	29.38	0
4/16/21 13:33	4.578	86.2	59.83	24.42	29.38	0
4/16/21 13:52	6.205	94.6	71.18	24.94	29.35	0
4/16/21 14:04	3.661	163.1	45.42	25.14	29.35	0
4/16/21 14:22	5.95	12.59	39.43	24.94	29.35	0
4/16/21 14:40	8.11	23.62	30.23	24.89	29.35	0
4/16/21 14:47	7.818	2.226	20.65	25.11	29.34	0
4/16/21 15:00	7.928	21.53	13.37	24.66	29.34	0
4/16/21 15:28	4.441	346.9	36.59	25.33	29.34	0
4/16/21 15:38	8.31	5.79	14.23	25.16	29.34	0
4/16/21 15:49	9.95	15.25	21	24.84	29.34	0
4/16/21 16:03	9.64	20.29	20.16	24.6	29.34	0
4/16/21 16:19	8.92	23.96	23.23	24.46	29.34	0
4/16/21 16:30	9.33	27.7	10.89	24.18	29.34	0
4/16/21 16:52	11.83	22.38	9.41	23.67	29.34	0
4/16/21 17:10	12.92	14.89	11.15	23.21	29.34	0
4/16/21 17:24	12.92	11.08	10.83	23.13	29.34	0
4/16/21 17:36	14.83	13.45	9.11	22.75	29.34	0
4/16/21 17:50	15	9.21	8.63	22.52	29.32	0
4/16/21 18:05	13.03	6.876	11.72	22.41	29.32	0
4/16/21 18:19	11.6	10.38	10.54	22.06	29.32	0
4/16/21 18:31	12.93	13.37	10.04	21.69	29.32	0
4/16/21 18:54	12.47	24.6	9.69	21.38	29.32	0
4/16/21 19:00	11.57	29.89	10.7	20.97	29.32	0
4/16/21 19:16	6.319	45.57	22.89	20.14	29.32	0
4/16/21 19:44	4.657	99.6	51.85	19.69	29.32	0
4/16/21 19:54	8.39	31.12	9.5	20.07	29.35	0
4/16/21 20:00	5.886	43.08	8.69	19.85	29.35	0
4/16/21 20:29	7.74	42.84	7.545	18.62	29.35	0
4/16/21 20:30	6.278	42.67	7.72	18.55	29.35	0
4/16/21 20:46	4.424	60.86	12.99	18.5	29.35	0
4/16/21 21:14	4.235	58.13	6.294	18.52	29.35	0
4/16/21 21:21	5.09	81.7	17.08	16.82	29.35	0
4/16/21 21:31	3.097	124.5	16.03	15.84	29.35	0
4/16/21 21:48	1.283	103.5	26.35	16.09	29.34	0
4/16/21 22:12	2.531	82.8	14.74	15.8	29.34	0
4/16/21 22:20	3.321	96	28.96	15.73	29.34	0
4/16/21 22:38	3.005	147.6	8.2	14.69	29.34	0
4/16/21 22:58	2.591	128.2	11.4	15.19	29.35	0
4/16/21 23:06	2.584	117.5	19.63	14.68	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
4/16/21 23:20	2.877	104.3	5.338	14.05	29.35	0
4/16/21 23:31	3.41	119.8	9.82	13.94	29.35	0
4/16/21 23:59	2.867	131.2	8.52	14.35	29.35	0
4/17/21 0:05	4.022	165.5	10.41	14.06	29.35	0
4/17/21 0:18	3.308	142.1	25.96	13.76	29.35	0
4/17/21 0:43	3.524	98.3	15.5	13.28	29.35	0
4/17/21 0:47	2.918	118.9	18.51	12.2	29.36	0
4/17/21 1:01	2.974	139.5	24.74	13.19	29.36	0
4/17/21 1:16	1.646	90.1	40.08	12.37	29.36	0
4/17/21 1:44	1.554	206	79.27	12.22	29.36	0
4/17/21 1:45	2.346	208.3	46.35	12.78	29.36	0
4/17/21 2:13	1.975	124.1	24.94	12.77	29.36	0
4/17/21 2:27	3.461	77.06	10.11	11.64	29.36	0
4/17/21 2:39	4.241	91.6	10.55	11.59	29.36	0
4/17/21 2:57	4.136	123	12.73	11.7	29.37	0
4/17/21 3:09	5.403	124.3	8.18	12.7	29.37	0
4/17/21 3:19	4.573	109.5	11.53	11.85	29.37	0
4/17/21 3:40	4.052	113	9.55	11.98	29.37	0
4/17/21 3:45	3.458	121	10.25	12.68	29.35	0
4/17/21 4:02	2.138	85.7	19.8	12.61	29.35	0
4/17/21 4:29	2.893	63.24	9.31	11.89	29.35	0
4/17/21 4:34	3.361	55.39	10.3	11.1	29.35	0
4/17/21 4:46	3.361	92.2	15.31	10.75	29.37	0
4/17/21 5:12	3.296	67.9	8.59	10.69	29.37	0
4/17/21 5:25	3.868	71.12	10.92	10.77	29.37	0
4/17/21 5:31	3.368	70.43	12.66	11.49	29.37	0
4/17/21 5:45	2.25	34.26	11.34	11.71	29.39	0
4/17/21 6:06	1.072	39.93	10.6	11.46	29.39	0
4/17/21 6:26	0.905	352.4	45.73	11.39	29.39	0
4/17/21 6:45	2.533	268.3	13.82	12.29	29.39	0
4/17/21 6:53	4.392	255.9	7.653	12.51	29.39	0
4/17/21 7:01	2.76	259.7	11.89	13.08	29.39	0
4/17/21 7:18	1.344	195.8	42.43	14.35	29.39	0
4/17/21 7:38	2.183	202.4	23.58	15.1	29.39	0
4/17/21 7:45	1.467	111.4	69.55	15.17	29.41	0
4/17/21 8:01	1.149	51.04	27.23	15.77	29.41	0
4/17/21 8:20	1.41	16.41	41.07	16.82	29.41	0
4/17/21 8:37	1.388	32.97	27.29	17.03	29.41	0
4/17/21 8:45	1.538	11.06	18.87	17.56	29.4	0
4/17/21 9:13	1.223	50.24	29.41	18.04	29.4	0
4/17/21 9:15	1.858	283.7	27.02	18.4	29.4	0
4/17/21 9:33	1.734	291.9	26.98	19.2	29.4	0
4/17/21 9:47	1.539	339	32.16	20.04	29.4	0
4/17/21 10:12	2.08	303.2	26.62	20.6	29.4	0
4/17/21 10:21	3.104	293.6	27.18	20.56	29.4	0
4/17/21 10:34	2.893	303.3	21.82	21.12	29.4	0
4/17/21 10:57	4.957	288.3	18.15	21.46	29.41	0
4/17/21 11:00	6.437	276.4	10.75	21.63	29.41	0
4/17/21 11:25	6.118	276.8	13.62	21.96	29.41	0
4/17/21 11:37	5.747	276	10.61	22.12	29.41	0
4/17/21 11:55	7.652	273.3	10.67	22.28	29.38	0
4/17/21 12:02	8.53	271.7	10.84	22.09	29.38	0
4/17/21 12:15	6.187	274.5	14.01	22.66	29.38	0
4/17/21 12:36	5.815	268.5	12.56	23.06	29.38	0
4/17/21 12:49	5.638	282.6	17.19	23.29	29.39	0
4/17/21 13:02	6.221	277	18.08	23.64	29.39	0
4/17/21 13:18	6.032	278	25.62	23.78	29.39	0
4/17/21 13:31	6.836	284	16.86	24.09	29.39	0
4/17/21 13:57	7.115	287.4	22.2	24.28	29.36	0
4/17/21 14:14	7.178	271.4	29.81	24.43	29.36	0
4/17/21 14:15	7.556	304.6	23.63	24.73	29.36	0
4/17/21 14:39	7.013	305.8	18.66	24.75	29.36	0
4/17/21 14:57	7.259	291.7	14.25	25	29.35	0
4/17/21 15:05	6.157	301.1	12.72	25.21	29.35	0
4/17/21 15:19	6.235	304.6	10.83	25.37	29.35	0
4/17/21 15:37	6.785	293.1	18.25	25.37	29.35	0
4/17/21 15:59	7.017	292.3	12.23	25.55	29.35	0
4/17/21 16:10	7.826	291	13.73	25.53	29.35	0
4/17/21 16:22	7.507	293.8	10.46	25.58	29.35	0
4/17/21 16:42	7.851	299.2	10.78	25.41	29.35	0
4/17/21 16:52	8.85	292	9.05	25.28	29.34	0
4/17/21 17:00	7.067	304.2	13.13	25.21	29.34	0
4/17/21 17:17	6.614	326.9	10.31	24.88	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
4/17/21 17:30	5.848	317.9	7.151	24.73	29.34	0
4/17/21 17:49	4.738	324.5	11.18	24.56	29.33	0
4/17/21 18:00	1.802	16.94	8.46	24.16	29.33	0
4/17/21 18:28	1.994	5.721	8.49	24.26	29.33	0
4/17/21 18:34	3.185	356.6	9.71	23.54	29.33	0
4/17/21 18:50	2.457	21.83	8.38	23.04	29.31	0
4/17/21 19:05	2.758	6.454	9.01	22.57	29.31	0
4/17/21 19:23	2.693	345.9	9.5	22.46	29.31	0
4/17/21 19:41	2.528	2.597	12.32	21.36	29.31	0
4/17/21 19:55	3.173	14.28	17.05	20.81	29.33	0
4/17/21 20:02	3.389	32.54	9.87	20.38	29.33	0
4/17/21 20:27	4.376	52.51	4.487	20.09	29.33	0
4/17/21 20:31	3.798	79.88	16.92	19.03	29.33	0
4/17/21 20:51	4.112	130.1	24.44	18.77	29.35	0
4/17/21 21:14	3.482	176.9	8.14	19.19	29.35	0
4/17/21 21:25	4.001	159.6	8.49	18.6	29.35	0
4/17/21 21:30	3.503	155	4.81	18.04	29.35	0
4/17/21 21:47	3.385	176.4	11.62	17.64	29.35	0
4/17/21 22:13	4.846	214.9	7.798	16.14	29.35	0
4/17/21 22:18	5.32	223.3	3.526	15.94	29.35	0
4/17/21 22:41	4.91	215.5	7.296	15.79	29.35	0
4/17/21 22:59	5.23	204.1	3.656	15.43	29.35	0
4/17/21 23:13	6.538	208.3	2.131	14.68	29.35	0
4/17/21 23:16	6.052	202	6.069	14.35	29.35	0
4/17/21 23:42	5.584	185.9	5.153	14.61	29.35	0
4/17/21 23:45	3.995	144.2	29.68	14.26	29.36	0
4/18/21 0:10	3.815	107	6.128	13.83	29.36	0
4/18/21 0:19	3.248	102.6	9.54	14.11	29.36	0
4/18/21 0:30	2.073	98.6	3.468	13.53	29.36	0
4/18/21 0:46	1.658	106.9	4.456	13.9	29.35	0
4/18/21 1:13	2.415	155.4	33.12	14.58	29.35	0
4/18/21 1:27	4.887	214.1	9.49	13.39	29.35	0
4/18/21 1:30	4.63	195.1	8.31	13.16	29.35	0
4/18/21 1:50	3.889	206.8	9.87	13.09	29.34	0
4/18/21 2:08	5.035	196.4	4.421	12.62	29.34	0
4/18/21 2:21	5.05	184.3	7.561	12.28	29.34	0
4/18/21 2:36	4.162	156.4	6.301	12.74	29.34	0
4/18/21 2:50	3.458	133.3	7.745	12.62	29.36	0
4/18/21 3:13	4.252	163.5	13.04	12.79	29.36	0
4/18/21 3:25	5.477	185	7.252	12.63	29.36	0
4/18/21 3:44	5.087	176.1	4.938	12.42	29.36	0
4/18/21 3:49	5.077	165.1	6.15	12.43	29.35	0
4/18/21 4:00	4.458	152.2	5.465	12.67	29.35	0
4/18/21 4:27	3.88	179	12.11	12.23	29.35	0
4/18/21 4:32	4.414	173.8	9.33	12.01	29.35	0
4/18/21 4:54	3.968	168.2	6.231	12.02	29.34	0
4/18/21 5:13	2.89	172.7	7.554	12.05	29.34	0
4/18/21 5:15	1.799	176.5	35.59	11.39	29.34	0
4/18/21 5:39	3.144	31.13	21.47	10.53	29.34	0
4/18/21 5:45	3.092	1.716	5.646	10.45	29.33	0
4/18/21 6:02	1.271	11.37	7.299	11.29	29.33	0
4/18/21 6:20	0.381	25.4	1.373	12.18	29.33	0
4/18/21 6:44	2.015	154.6	50.58	12.66	29.33	0
4/18/21 6:47	3.765	180.1	7.713	12.68	29.35	0
4/18/21 7:13	4.433	202.7	7.15	12.38	29.35	0
4/18/21 7:22	5.148	207.4	8.74	12.79	29.35	0
4/18/21 7:30	4.346	206.6	5.486	13.55	29.35	0
4/18/21 7:53	3.615	206.4	8.97	14.24	29.34	0
4/18/21 8:00	2.872	192.5	18.72	14.81	29.34	0
4/18/21 8:20	2.126	177.8	13.26	15.73	29.34	0
4/18/21 8:41	2.243	162.2	20.64	16.96	29.34	0
4/18/21 8:56	2.911	216.5	23.05	17.33	29.34	0
4/18/21 9:14	3.009	221.1	21.17	17.87	29.34	0
4/18/21 9:29	2.893	241.8	20.96	18.57	29.34	0
4/18/21 9:43	2.958	228.7	21.98	19.28	29.34	0
4/18/21 9:54	2.823	218.4	18.79	19.85	29.33	0
4/18/21 10:04	3.282	187.8	25.27	20.19	29.33	0
4/18/21 10:17	3.969	167.5	35.71	20.72	29.33	0
4/18/21 10:33	3.887	208.6	26.84	21.28	29.33	0
4/18/21 10:47	4.084	263.3	33.72	21.57	29.35	0
4/18/21 11:07	3.252	314.9	55.62	22.06	29.35	0
4/18/21 11:23	3.503	232.7	60.54	22.09	29.35	0
4/18/21 11:36	6.246	202.5	13.47	22.63	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
4/18/21 11:48	6.511	213.3	12.7	22.84	29.32	0
4/18/21 12:02	6.07	207.4	18.19	23.13	29.32	0
4/18/21 12:21	6.76	211.7	19.53	23.47	29.32	0
4/18/21 12:31	6.202	242.8	27.44	23.56	29.32	0
4/18/21 12:50	5.972	284.9	40.7	23.9	29.32	0
4/18/21 13:10	6.972	289.1	21.04	24	29.32	0
4/18/21 13:22	6.934	262.5	17.54	24.16	29.32	0
4/18/21 13:36	6.441	262.3	36.37	24.24	29.32	0
4/18/21 13:46	5.28	253.2	23.02	24.59	29.32	0
4/18/21 14:01	6.73	281.9	26.36	24.34	29.32	0
4/18/21 14:23	6.411	264	36.06	24.46	29.32	0
4/18/21 14:36	7.529	243.1	37.88	24.59	29.32	0
4/18/21 14:52	6.726	234.7	34.26	24.84	29.29	0
4/18/21 15:12	10.37	218.3	20.02	24.52	29.29	0
4/18/21 15:27	7.295	264.3	22.64	24.67	29.29	0
4/18/21 15:31	7.323	247.7	23.15	24.66	29.29	0
4/18/21 15:53	8.06	265	22.23	24.57	29.27	0
4/18/21 16:08	7.1	288.6	11.83	24.52	29.27	0
4/18/21 16:18	7.368	268	20.67	24.75	29.27	0
4/18/21 16:34	6.853	285	20.12	24.86	29.27	0
4/18/21 16:53	10.47	276.2	9.54	24.68	29.25	0
4/18/21 17:01	8.99	267.6	11.59	24.74	29.25	0
4/18/21 17:29	10.13	260.9	13.21	24.64	29.25	0
4/18/21 17:43	12.97	261.9	9.35	24.15	29.25	0
4/18/21 17:53	13.48	262.7	8.2	23.64	29.25	0
4/18/21 18:00	11.46	265.3	9.67	23.23	29.25	0
4/18/21 18:15	10.29	267.7	8.26	22.73	29.25	0
4/18/21 18:36	9.37	276.5	8.36	22.04	29.25	0
4/18/21 18:48	9.19	268.3	10.41	21.27	29.26	0
4/18/21 19:04	9.42	262.2	7.502	20.52	29.26	0
4/18/21 19:21	8.8	258.7	7.696	20.04	29.26	0
4/18/21 19:30	5.996	255.4	13.26	19.46	29.26	0
4/18/21 19:54	7.021	229.8	11.59	19.12	29.3	0
4/18/21 20:02	6.5	213.6	10.37	18.4	29.3	0
4/18/21 20:25	8.49	220.8	8.08	17.83	29.3	0
4/18/21 20:33	6.925	208.3	10.4	17.27	29.3	0
4/18/21 20:57	7.369	203.1	8.11	16.69	29.3	0
4/18/21 21:02	5.914	206.1	9.33	16.65	29.3	0
4/18/21 21:25	2.759	120	19.69	16.11	29.3	0
4/18/21 21:44	4.242	135.8	8.3	16.22	29.3	0
4/18/21 21:47	6.821	173.1	13.28	15.31	29.32	0
4/18/21 22:05	8.01	164.1	6.874	14.72	29.32	0
4/18/21 22:15	6.649	152.4	12.12	15.11	29.32	0
4/18/21 22:30	3.171	138.1	12.94	15.01	29.32	0
4/18/21 22:45	1.909	127.6	26.26	14.89	29.33	0
4/18/21 23:04	1.942	108.9	10.51	14.8	29.33	0
4/18/21 23:27	1.181	79.3	26.67	14.38	29.33	0
4/18/21 23:38	1.626	55.47	7.156	14.19	29.33	0
4/18/21 23:54	1.751	147.5	43.55	14.84	29.35	0
4/19/21 0:14	4.203	197.1	16.27	14.33	29.35	0
4/19/21 0:20	6.052	191.8	14.03	13.93	29.35	0
4/19/21 0:38	2.477	151	25.36	13.43	29.35	0
4/19/21 0:55	1.848	115.6	48.7	13.17	29.37	0
4/19/21 1:07	3.852	194.6	12.61	13.12	29.37	0
4/19/21 1:16	2.947	180.2	6.674	12.85	29.37	0
4/19/21 1:40	3.218	148.1	15.6	12.64	29.37	0
4/19/21 1:59	4.569	147.2	15.7	12.05	29.35	0
4/19/21 2:11	6.059	163.8	6.363	11.36	29.35	0
4/19/21 2:16	5.452	153.6	5.434	11.03	29.35	0
4/19/21 2:35	4.113	159.8	7.525	10.91	29.35	0
4/19/21 2:45	2.686	130.5	11.71	10.86	29.38	0
4/19/21 3:08	3.002	118.8	10.02	11.32	29.38	0
4/19/21 3:15	2.799	167.8	15.81	11.77	29.38	0
4/19/21 3:44	3.715	219.6	13.42	12.02	29.38	0
4/19/21 3:45	4.054	256.4	11.26	11.68	29.39	0
4/19/21 4:02	3.514	265.3	4.475	11.41	29.39	0
4/19/21 4:19	2.939	253.2	3.164	11.37	29.39	0
4/19/21 4:44	2.73	218.5	38.06	10.79	29.39	0
4/19/21 4:51	4.822	196.2	6.991	8.71	29.39	0
4/19/21 5:00	1.327	181.3	14.6	9.03	29.39	0
4/19/21 5:24	2.782	329.5	9.99	9.81	29.39	0
4/19/21 5:30	1.189	2.301	39.24	9.57	29.39	0
4/19/21 5:45	0.605	310	58.08	8.99	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
4/19/21 6:03	0.457	73.98	8.58	10.27	29.41	0
4/19/21 6:25	1.12	149	5.469	10.21	29.41	0
4/19/21 6:30	1.464	125.1	30.01	11.08	29.41	0
4/19/21 6:45	0.984	50.81	7.913	12.11	29.4	0
4/19/21 7:02	0.871	257.8	79.18	12.02	29.4	0
4/19/21 7:25	1.706	8.58	21.29	12.65	29.4	0
4/19/21 7:34	2.247	311.9	13.39	13.39	29.4	0
4/19/21 7:56	2.014	293	35.29	13.88	29.43	0
4/19/21 8:11	2.107	238.6	22.13	14.09	29.43	0
4/19/21 8:16	1.09	218.6	91.1	15.14	29.43	0
4/19/21 8:35	1.769	310	52.69	15.6	29.43	0
4/19/21 8:59	2.04	320.2	24.78	16.17	29.43	0
4/19/21 9:14	2.418	326.7	79.08	17.06	29.43	0
4/19/21 9:23	9.48	165	26.9	17.39	29.43	0
4/19/21 9:34	9.94	174.4	34.23	17.63	29.43	0
4/19/21 9:55	6.898	232.6	50.89	17.21	29.42	0
4/19/21 10:14	8.43	189.7	33.67	17.75	29.42	0
4/19/21 10:15	8.57	164.1	25.28	18.38	29.42	0
4/19/21 10:38	11.45	167.8	11.5	18.8	29.42	0
4/19/21 10:50	8.51	167.2	21.78	18.91	29.42	0
4/19/21 11:07	8.32	165.6	17.51	19.32	29.42	0
4/19/21 11:17	8.45	157.3	18.99	19.4	29.42	0
4/19/21 11:32	5.74	166.4	28.11	19.99	29.42	0
4/19/21 11:46	4.208	190.6	42.76	19.92	29.41	0
4/19/21 12:14	5.764	175.3	69.37	20.2	29.41	0
4/19/21 12:22	7.229	194.1	48.3	20.55	29.41	0
4/19/21 12:35	6.135	214.4	27.09	20.74	29.41	0
4/19/21 12:47	7.694	199.5	24	20.82	29.4	0
4/19/21 13:00	4.642	254.2	30.65	21.04	29.4	0
4/19/21 13:21	6.908	274	16.5	20.83	29.4	0
4/19/21 13:33	6.555	276.3	24.25	20.6	29.4	0
4/19/21 13:59	6.308	280.1	19.27	20.94	29.38	0
4/19/21 14:02	7.917	248.1	29.03	20.83	29.38	0
4/19/21 14:23	8.14	283.9	12.39	21.03	29.38	0
4/19/21 14:42	6.777	293.9	15.95	21.48	29.38	0
4/19/21 14:58	6.283	302.7	22.31	21.18	29.37	0
4/19/21 15:01	5.705	262.6	22.16	21.19	29.37	0
4/19/21 15:16	3.231	208.4	59.61	21.45	29.37	0
4/19/21 15:32	4.108	329.9	44.48	21.71	29.37	0
4/19/21 15:49	4.538	43.48	32.61	21.38	29.36	0
4/19/21 16:00	2.057	305.9	51.93	22.41	29.36	0
4/19/21 16:23	3.637	344.1	31.53	22.08	29.36	0
4/19/21 16:40	6.117	290.8	32.93	22.07	29.36	0
4/19/21 16:52	8.54	275	12.94	21.61	29.34	0
4/19/21 17:08	9.86	284.1	8.69	21.27	29.34	0
4/19/21 17:16	8.98	278.1	10.3	20.98	29.34	0
4/19/21 17:39	8.92	273	7.781	20.59	29.34	0
4/19/21 17:51	8.19	287.4	8.48	20.14	29.32	0
4/19/21 18:04	6.799	301.3	5.966	19.68	29.32	0
4/19/21 18:18	5.173	300	6.01	19.5	29.32	0
4/19/21 18:30	3.508	275	13.71	19.3	29.32	0
4/19/21 18:54	3.486	227.1	9.07	19.08	29.32	0
4/19/21 19:00	3.339	212.1	8.64	18.88	29.32	0
4/19/21 19:19	3.032	158.6	47.77	18.22	29.32	0
4/19/21 19:31	1.691	114.7	17.88	17.69	29.32	0
4/19/21 19:56	2.509	130.5	22.39	17.1	29.35	0
4/19/21 20:13	2.276	141.9	20.24	16.98	29.35	0
4/19/21 20:18	3.269	133.2	13.42	17.16	29.35	0
4/19/21 20:35	4.193	127.7	12.72	16.5	29.35	0
4/19/21 20:58	4.168	150.2	16.72	16.08	29.34	0
4/19/21 21:08	5.219	144.1	15.45	15.35	29.34	0
4/19/21 21:27	6.963	124.9	8.46	15.11	29.34	0
4/19/21 21:41	7.823	136.6	10.98	15.37	29.34	0
4/19/21 21:59	8.82	141.8	10.31	15.35	29.36	0
4/19/21 22:14	8.89	144.4	9.85	15.21	29.36	0
4/19/21 22:15	6.162	141	10.06	14.71	29.36	0
4/19/21 22:39	6.102	154.7	10.95	14.4	29.36	0
4/19/21 22:47	5.071	111.3	14.39	13.89	29.37	0
4/19/21 23:14	4.732	122.8	17.5	13.26	29.37	0
4/19/21 23:15	5.054	142.8	8.9	13.91	29.37	0
4/19/21 23:37	5.57	136.1	8.45	13.84	29.37	0
4/19/21 23:58	6.484	133.1	8.81	13.58	29.38	0
4/20/21 0:01	6.339	140.2	11.05	13.55	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
4/20/21 0:21	6.268	146.1	12.91	13.44	29.38	0
4/20/21 0:37	6.104	135.6	12.46	13.24	29.38	0
4/20/21 0:46	5.716	131.9	10.15	12.89	29.38	0
4/20/21 1:10	5.696	139.5	11.41	12.7	29.38	0
4/20/21 1:19	5.024	132.4	11.79	12.57	29.38	0
4/20/21 1:37	4.613	121.8	10.91	12.28	29.38	0
4/20/21 1:48	2.848	89	20.11	11.78	29.36	0
4/20/21 2:14	2.506	50.14	7.735	11.29	29.36	0
4/20/21 2:17	2.888	54.47	4.55	11.01	29.36	0
4/20/21 2:39	3.273	53.63	11.35	10.31	29.36	0
4/20/21 2:59	2.777	51.23	6.139	11.05	29.38	0
4/20/21 3:07	4.184	17.98	6.703	11.99	29.38	0
4/20/21 3:29	3.771	26.12	7.086	11.35	29.38	0
4/20/21 3:30	2.716	47.59	22.01	10.69	29.38	0
4/20/21 3:51	4.004	16.86	9.05	11.17	29.39	0
4/20/21 4:07	2.704	38.59	11.57	10.61	29.39	0
4/20/21 4:22	2.606	49.25	11.1	10.5	29.39	0
4/20/21 4:36	0.838	182.1	41.98	10.35	29.39	0
4/20/21 4:58	2.49	138.8	24.75	10.84	29.39	0
4/20/21 5:00	4.332	166.7	6.594	10.61	29.39	0
4/20/21 5:16	1.456	92.2	24.49	9.9	29.39	0
4/20/21 5:42	1.797	179.3	6.315	9.58	29.39	0
4/20/21 5:55	3.035	163	8.94	10.07	29.4	0
4/20/21 6:05	2.288	148.6	22.97	10.85	29.4	0
4/20/21 6:23	1.622	151.8	27.43	11.26	29.4	0
4/20/21 6:40	2.051	150.4	31.46	10.82	29.4	0
4/20/21 6:58	1.248	53.46	45.67	11.89	29.38	0
4/20/21 7:02	2.738	215.5	20.39	11.02	29.38	0
4/20/21 7:22	3.839	194.6	14.88	11.64	29.38	0
4/20/21 7:32	3.837	185.1	14.66	12.13	29.38	0
4/20/21 7:48	3.561	194.1	12.94	12.48	29.39	0
4/20/21 8:02	2.315	164.7	25.79	13.47	29.39	0
4/20/21 8:15	1.416	124.2	22.75	14.9	29.39	0
4/20/21 8:42	1.926	16.86	37.84	15.42	29.39	0
4/20/21 8:50	1.514	333.1	22.43	15.69	29.39	0
4/20/21 9:04	2.961	314.1	16.86	15.95	29.39	0
4/20/21 9:22	2.917	326.1	31.39	16.24	29.39	0
4/20/21 9:34	1.796	2.946	43.5	16.64	29.39	0
4/20/21 9:52	3.086	184.4	51.82	16.81	29.4	0
4/20/21 10:14	2.642	280.5	67.93	17.23	29.4	0
4/20/21 10:15	4.46	321.8	52.08	17.46	29.4	0
4/20/21 10:42	3.681	355.3	33.27	18.04	29.4	0
4/20/21 10:57	5.907	305.6	27.78	18.52	29.39	0
4/20/21 11:14	6.55	284	28.34	18.58	29.39	0
4/20/21 11:23	8.58	290	22.59	18.7	29.39	0
4/20/21 11:40	8.94	291.8	12.99	18.78	29.39	0
4/20/21 11:49	8.28	307.7	14.54	19.29	29.35	0
4/20/21 12:01	9.88	294.7	13.29	19.24	29.35	0
4/20/21 12:26	9.26	291.9	13.23	19.39	29.35	0
4/20/21 12:30	8.95	300.3	21.51	19.85	29.35	0
4/20/21 12:55	7.259	339.8	23.86	20.39	29.34	0
4/20/21 13:07	7.692	323.2	67.63	20.2	29.34	0
4/20/21 13:18	7.695	17.13	29.48	20.16	29.34	0
4/20/21 13:34	8.01	23.61	14.38	20.27	29.34	0
4/20/21 13:53	6.925	42.25	23.28	20.3	29.31	0
4/20/21 14:07	6.896	353.1	36.65	20.7	29.31	0
4/20/21 14:22	9.26	322.1	24.84	20.95	29.31	0
4/20/21 14:34	9.92	331.6	23.6	20.85	29.31	0
4/20/21 14:52	10.89	318	18.89	20.96	29.3	0
4/20/21 15:13	11.4	316.3	19.83	20.97	29.3	0
4/20/21 15:16	12.07	317.2	8.25	20.79	29.3	0
4/20/21 15:31	10.41	312.4	13.66	20.87	29.3	0
4/20/21 15:45	11.41	309.5	12.48	20.73	29.28	0
4/20/21 16:09	9.39	309	12.63	20.97	29.28	0
4/20/21 16:19	11.73	306.8	12.55	20.72	29.28	0
4/20/21 16:32	11.52	302.5	11.25	20.57	29.28	0
4/20/21 16:46	11.08	321.8	15.19	20.27	29.27	0
4/20/21 17:06	9.49	331	17.11	20.18	29.27	0
4/20/21 17:22	10.18	328.5	14.25	20.02	29.27	0
4/20/21 17:30	9.3	331.9	8.73	19.73	29.27	0
4/20/21 17:49	8.35	342.3	15.24	19.47	29.28	0
4/20/21 18:01	7.438	338.2	13.33	19.18	29.28	0
4/20/21 18:29	7.351	323.4	8.8	18.8	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
4/20/21 18:31	6.823	318.9	6.906	18.48	29.28	0
4/20/21 18:57	6.59	304.5	6.291	18.12	29.27	0
4/20/21 19:13	7.219	302.5	5.883	17.69	29.27	0
4/20/21 19:19	7.182	293.2	8.24	17.44	29.27	0
4/20/21 19:34	4.833	295.8	15.77	17.49	29.27	0
4/20/21 19:56	2.282	43.04	86.4	16.89	29.27	0
4/20/21 20:06	2.959	69.61	10.31	15.72	29.27	0
4/20/21 20:18	2.365	65.92	11.6	15.4	29.27	0
4/20/21 20:38	3.085	70.67	13.91	15.23	29.27	0
4/20/21 20:59	3.662	73.29	11.42	14.63	29.27	0
4/20/21 21:14	6.281	51.6	13.08	14.1	29.27	0
4/20/21 21:28	7.785	40.15	7.2	14.05	29.27	0
4/20/21 21:36	6.454	42.56	13.34	13.79	29.27	0
4/20/21 21:51	6.707	52.84	12.23	13.38	29.28	0
4/20/21 22:00	5.683	41.3	5.218	13.16	29.28	0
4/20/21 22:22	6.092	32.59	6.434	12.98	29.28	0
4/20/21 22:30	3.31	21.83	21.42	12.52	29.28	0
4/20/21 22:49	3.124	29.51	8.75	12.62	29.27	0
4/20/21 23:02	2.312	32.69	8	12.31	29.27	0
4/20/21 23:24	1.291	34.6	3.921	11.77	29.27	0
4/20/21 23:39	0.373	36.33	4.728	11.58	29.27	0
4/20/21 23:52	2.088	65.14	8.64	11.85	29.29	0
4/21/21 0:08	1.905	80.8	16.09	11.59	29.29	0
4/21/21 0:20	2.247	110	23.76	11.79	29.29	0
4/21/21 0:44	2.156	125.6	71.19	11.93	29.29	0
4/21/21 0:48	4.382	185	15.68	11.1	29.29	0
4/21/21 1:09	4.075	158.4	5.147	10.72	29.29	0
4/21/21 1:23	3.952	134.5	7.655	10.48	29.29	0
4/21/21 1:35	4.416	155.7	12.31	10.65	29.29	0
4/21/21 1:59	4.668	172.7	9.36	10.42	29.27	0
4/21/21 2:00	4.902	154.6	10.21	10.32	29.27	0
4/21/21 2:24	4.294	154.3	7.25	10.31	29.27	0
4/21/21 2:30	4.626	165.4	6.185	10	29.27	0
4/21/21 2:45	4.241	177.2	7.132	9.78	29.26	0
4/21/21 3:14	3.816	175	19.2	9.8	29.26	0
4/21/21 3:28	5.32	205.5	9.32	8.9	29.26	0
4/21/21 3:37	6.035	176.2	7.291	9	29.26	0
4/21/21 3:46	4.626	179.2	7.078	8.55	29.26	0
4/21/21 4:00	2.291	175.2	9.2	8.69	29.26	0
4/21/21 4:28	2.142	132.6	6.86	9.14	29.26	0
4/21/21 4:30	2.749	113.9	16.15	9.51	29.26	0
4/21/21 4:48	0.579	56.78	4.087	8.76	29.28	0
4/21/21 5:14	0.082	100	14.93	8.7	29.28	0
4/21/21 5:15	1.956	170.1	4.101	8.89	29.28	0
4/21/21 5:35	2.285	155.2	10.67	9.03	29.28	0
4/21/21 5:48	2.522	159.1	2.563	9.07	29.29	0
4/21/21 6:00	0.543	143.3	5.228	9.93	29.29	0
4/21/21 6:25	1.878	159.8	19.17	9.45	29.29	0
4/21/21 6:39	3.583	202.5	5.225	8.9	29.29	0
4/21/21 6:46	3.165	211.8	9.95	9.35	29.3	0
4/21/21 7:12	2.016	209.7	12.16	10.37	29.3	0
4/21/21 7:23	1.771	216.7	30.95	11.37	29.3	0
4/21/21 7:44	2.64	148.9	25.86	12.61	29.3	0
4/21/21 7:57	3.302	180.1	15.84	12.16	29.31	0
4/21/21 8:07	3.621	203.6	15.49	12.37	29.31	0
4/21/21 8:27	4.088	194.5	12.93	13.02	29.31	0
4/21/21 8:38	4.622	213.7	13.5	13.33	29.31	0
4/21/21 8:45	3.076	221.2	30.71	14.07	29.27	0
4/21/21 9:00	2.427	218.2	33.14	14.47	29.27	0
4/21/21 9:17	2.844	268.4	24.32	15.18	29.27	0
4/21/21 9:43	2.962	234.2	35.53	15.69	29.27	0
4/21/21 9:45	2.587	232.9	32.92	16.13	29.25	0
4/21/21 10:05	2.747	9.26	53.47	16.73	29.25	0
4/21/21 10:22	2.722	299	64.2	17.41	29.25	0
4/21/21 10:33	5.003	355.7	31.66	17.61	29.25	0
4/21/21 10:46	3.987	285.5	31.88	17.76	29.25	0
4/21/21 11:06	4.004	255.9	33.48	17.89	29.25	0
4/21/21 11:23	3.435	302.5	43.16	18.58	29.25	0
4/21/21 11:44	6.848	280.9	15.88	18.91	29.25	0
4/21/21 11:55	7.814	270.9	14.19	19.01	29.21	0
4/21/21 12:02	7.81	293.5	23.93	19.51	29.21	0
4/21/21 12:15	7.956	303.5	16.53	19.58	29.21	0
4/21/21 12:44	8.41	291.6	15.02	19.62	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
4/21/21 12:56	9.21	297.1	14.1	20.16	29.22	0
4/21/21 13:14	10.1	301.7	11.44	20.24	29.22	0
4/21/21 13:20	10.45	308.4	13.02	20.38	29.22	0
4/21/21 13:31	10.69	288.5	10.03	20.32	29.22	0
4/21/21 13:57	10.14	283.3	11.06	20.65	29.2	0
4/21/21 14:01	9.08	295.2	12.72	20.84	29.2	0
4/21/21 14:18	9.81	293.5	13.64	21.09	29.2	0
4/21/21 14:44	9.46	284.9	19.91	21.03	29.2	0
4/21/21 14:59	12.36	288.3	12.36	20.84	29.16	0
4/21/21 15:00	11.42	286.2	10.41	20.82	29.16	0
4/21/21 15:26	12.04	289.1	8.04	20.88	29.16	0
4/21/21 15:43	11.33	301.3	8.97	20.94	29.16	0
4/21/21 15:46	10.74	298.4	11.17	20.91	29.13	0
4/21/21 16:03	9.68	296.8	8.76	20.82	29.13	0
4/21/21 16:16	9.04	288.4	14.23	20.76	29.13	0
4/21/21 16:32	11.34	291.8	8.18	20.41	29.13	0
4/21/21 16:50	9.85	295.3	10.54	20.14	29.14	0
4/21/21 17:06	8.88	311.6	10.04	19.7	29.14	0
4/21/21 17:23	9.41	307.2	8.76	19.37	29.14	0
4/21/21 17:39	7.068	308.9	6.756	19.31	29.14	0
4/21/21 17:47	7.13	313.1	8.69	19.35	29.11	0
4/21/21 18:12	6.688	310.6	10.46	18.94	29.11	0
4/21/21 18:17	5.753	306.7	8.07	18.77	29.11	0
4/21/21 18:43	5.861	291.5	6.014	18.86	29.11	0
4/21/21 18:46	6.577	298.3	5.606	18.15	29.1	0
4/21/21 19:07	7.158	298.2	5.859	17.59	29.1	0
4/21/21 19:22	6.017	311.6	11.09	17.17	29.1	0
4/21/21 19:43	5.521	342.4	7.278	16.85	29.1	0
4/21/21 19:46	5.535	348.6	13.76	16.6	29.09	0
4/21/21 20:10	3.559	351.3	13.62	16.26	29.09	0
4/21/21 20:24	2.915	338.8	7.508	16.76	29.09	0
4/21/21 20:38	3.216	309.9	24.21	16.52	29.09	0
4/21/21 20:53	4.066	25.45	14.91	16.3	29.1	0
4/21/21 21:00	3.888	4.192	13.62	16.01	29.1	0
4/21/21 21:22	3.628	32.99	9.04	15.61	29.1	0
4/21/21 21:44	2.831	169.3	86.6	15.08	29.1	0
4/21/21 21:49	8.01	202.8	12.9	13.58	29.07	0
4/21/21 22:02	5.816	177.8	8.92	13.59	29.07	0
4/21/21 22:19	4.669	167.7	21.13	12.97	29.07	0
4/21/21 22:43	3.475	115.3	23.02	12.21	29.07	0
4/21/21 22:53	4.645	145.9	8.95	12.42	29.09	0
4/21/21 23:02	5.1	192	9.42	12.26	29.09	0
4/21/21 23:15	2.595	188.3	9.07	12.61	29.09	0
4/21/21 23:41	2.386	198	9.14	12.56	29.09	0
4/21/21 23:49	4.563	187	10.43	11.95	29.1	0
4/22/21 0:10	4.157	192.4	15.55	11.37	29.1	0
4/22/21 0:21	6.59	208.7	3.848	10.93	29.1	0
4/22/21 0:30	5.771	216.1	7.106	10.5	29.1	0
4/22/21 0:58	4.947	190.6	5.797	9.85	29.09	0
4/22/21 1:00	5.205	208.9	19.68	9.42	29.09	0
4/22/21 1:20	3.555	217.7	9.13	9.38	29.09	0
4/22/21 1:41	3.506	218.6	9.01	9.13	29.09	0
4/22/21 1:50	4.568	210.8	7.02	8.78	29.08	0
4/22/21 2:07	5.503	206.9	3.34	8.45	29.08	0
4/22/21 2:21	6.093	199.8	6.769	8.06	29.08	0
4/22/21 2:39	6.373	206.1	4.913	7.795	29.08	0
4/22/21 2:55	5.462	195.1	7.741	7.622	29.1	0
4/22/21 3:13	5.324	194.4	6.091	7.767	29.1	0
4/22/21 3:15	5.248	165.6	22	7.719	29.1	0
4/22/21 3:43	6.897	159.1	7.294	7.564	29.1	0
4/22/21 3:49	7.912	156.1	7.843	7.479	29.11	0
4/22/21 4:04	6.75	152.2	8.79	7.417	29.11	0
4/22/21 4:22	6.515	150.3	7.214	7.396	29.11	0
4/22/21 4:43	7.186	152.4	6.677	7.44	29.11	0
4/22/21 4:51	8.64	183.3	19.45	7.426	29.12	0
4/22/21 5:04	7.965	198.2	18.26	7.564	29.12	0
4/22/21 5:20	6.617	171.5	15.47	7.448	29.12	0
4/22/21 5:36	7.247	179.5	17.46	7.511	29.12	0
4/22/21 5:46	7.394	171.5	13.7	7.554	29.13	0
4/22/21 6:03	6.974	155.4	15.78	7.6	29.13	0
4/22/21 6:16	4.454	132	12.35	7.691	29.13	0
4/22/21 6:40	4.315	117.9	12.73	7.791	29.13	0
4/22/21 6:57	5.205	130.7	9.67	7.919	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
4/22/21 7:04	5.113	132.8	10.43	8.09	29.13	0
4/22/21 7:27	5.453	130.8	14.78	8.23	29.13	0
4/22/21 7:35	6.312	135.5	14.55	8.33	29.13	0
4/22/21 7:46	5.559	148.2	20.26	8.61	29.14	0
4/22/21 8:09	5.961	156	11.42	8.74	29.14	0
4/22/21 8:18	6.558	166.3	11.68	8.75	29.14	0
4/22/21 8:31	5.204	160.9	14.02	8.84	29.14	0
4/22/21 8:52	5.629	148.7	13.78	9.04	29.14	0
4/22/21 9:06	7.065	185.4	16.32	9.2	29.14	0
4/22/21 9:29	6.003	170.3	16.66	9.63	29.14	0
4/22/21 9:36	6.794	172.1	15.62	9.98	29.14	0
4/22/21 9:50	6.134	191.7	21.63	10.21	29.13	0
4/22/21 10:05	6.038	212.1	11	10.34	29.13	0
4/22/21 10:28	4.869	215.6	21.69	10.41	29.13	0
4/22/21 10:40	5.908	231.8	16.02	10.48	29.13	0
4/22/21 10:56	5.46	204.2	14.63	10.6	29.14	0
4/22/21 11:01	4.258	224.1	30.37	11.05	29.14	0
4/22/21 11:29	3.887	244.8	31.11	11.49	29.14	0
4/22/21 11:41	4.027	209.5	38.24	11.74	29.14	0
4/22/21 11:48	4.037	204.1	35.14	11.79	29.14	0
4/22/21 12:06	5.932	161.6	17.47	12.2	29.14	0
4/22/21 12:21	5.362	208.9	31.74	12.41	29.14	0
4/22/21 12:39	6.134	225.1	23.85	12.52	29.14	0
4/22/21 12:51	5.845	216.4	19.83	12.43	29.15	0
4/22/21 13:05	4.825	236.3	25.03	12.87	29.15	0
4/22/21 13:19	3.5	245	39.82	13.17	29.15	0
4/22/21 13:42	4.832	229.5	54.64	13.44	29.15	0
4/22/21 13:50	4.078	247.4	32.27	13.3	29.13	0
4/22/21 14:06	4.756	206.5	24.77	13.51	29.13	0
4/22/21 14:27	4.741	223	21.63	13.6	29.13	0
4/22/21 14:42	4.158	214	51.29	13.93	29.13	0
4/22/21 14:51	6.36	249.4	26.77	13.83	29.13	0
4/22/21 15:04	3.649	255	37.35	13.99	29.13	0
4/22/21 15:20	4.479	219.1	38.13	14.01	29.13	0
4/22/21 15:34	6.139	210.1	23.7	14.21	29.13	0
4/22/21 15:57	5.27	227.7	19.07	14.32	29.12	0
4/22/21 16:10	4.044	259.9	25.78	14.08	29.12	0
4/22/21 16:26	4.351	288.9	15.97	14.11	29.12	0
4/22/21 16:30	1.942	243.9	45.65	14.24	29.12	0
4/22/21 16:46	6.547	226.8	28.75	14.69	29.12	0
4/22/21 17:07	5.657	234.3	14.06	14.38	29.12	0
4/22/21 17:15	3.773	239.4	17.77	14.1	29.12	0
4/22/21 17:32	2.352	238.6	19.05	14.03	29.12	0
4/22/21 17:51	1.078	215.8	23.99	14.35	29.11	0
4/22/21 18:03	1.747	155.8	24.96	14.38	29.11	0
4/22/21 18:24	5.559	249.5	39.08	14.37	29.11	0
4/22/21 18:31	8.01	252	8.72	14.11	29.11	0
4/22/21 18:52	7.656	256.8	8.03	13.63	29.11	0
4/22/21 19:01	5.41	258	6.4	13.13	29.11	0
4/22/21 19:22	6.451	255.9	5.285	12.79	29.11	0
4/22/21 19:32	6.231	260.9	4.516	12.51	29.11	0
4/22/21 19:51	5.01	265.3	3.304	12.34	29.12	0
4/22/21 20:01	4.922	263.2	4.22	12.31	29.12	0
4/22/21 20:15	1.984	267.9	13.76	12.18	29.12	0
4/22/21 20:45	0.688	93.4	16.12	11.63	29.12	0
4/22/21 20:46	2.231	123.3	10.12	11.34	29.15	0
4/22/21 21:06	1.709	145.2	10	11.49	29.15	0
4/22/21 21:28	1.881	171.5	9.26	11.56	29.15	0
4/22/21 21:39	3.106	195	6.085	11.51	29.15	0
4/22/21 21:52	3.443	186.3	4.707	10.97	29.14	0
4/22/21 22:13	4.024	210.4	22.23	10.43	29.14	0
4/22/21 22:19	4.622	211.3	11.11	10.3	29.14	0
4/22/21 22:44	5.08	220.6	10.3	10.05	29.14	0
4/22/21 22:52	6.202	231.3	8.18	9.53	29.14	0
4/22/21 23:04	6.531	247.7	14.76	9.47	29.14	0
4/22/21 23:25	4.627	269.9	22	9.05	29.14	0
4/22/21 23:31	2.47	231.1	12.44	8.67	29.14	0
4/22/21 23:51	2.391	229.4	10.85	8.59	29.15	0
4/23/21 0:07	1.463	239.6	13.63	8.46	29.15	0
4/23/21 0:28	1.399	207.8	40.49	8.33	29.15	0
4/23/21 0:37	2.707	200.6	15.51	8.22	29.15	0
4/23/21 0:54	4.505	206.9	8.1	7.833	29.17	0
4/23/21 1:03	4.26	212.2	6.607	7.735	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
4/23/21 1:15	2.944	200.8	4.856	7.374	29.17	0
4/23/21 1:44	3.224	204.2	8.18	7.222	29.17	0
4/23/21 1:46	4.148	215.1	4.554	7.158	29.18	0
4/23/21 2:09	3.527	194.7	11.2	7.077	29.18	0
4/23/21 2:25	3.711	180.7	9.5	6.826	29.18	0
4/23/21 2:37	3.407	173.8	7.915	6.662	29.18	0
4/23/21 2:57	2.603	137.4	18.86	6.627	29.15	0
4/23/21 3:12	2.762	154.8	14.33	6.553	29.15	0
4/23/21 3:21	3.176	182.4	11.51	6.684	29.15	0
4/23/21 3:31	3.18	176.4	11.62	6.563	29.15	0
4/23/21 3:55	3.646	165	4.328	6.459	29.17	0
4/23/21 4:08	3.985	170.5	6.435	6.322	29.17	0
4/23/21 4:19	3.967	177.7	12.82	6.439	29.17	0
4/23/21 4:41	4.374	192.6	7.856	6.449	29.17	0
4/23/21 4:47	4.809	188.7	6.829	6.272	29.14	0
4/23/21 5:10	4.537	177.6	6.582	6.424	29.14	0
4/23/21 5:20	4.562	171.9	7.428	6.437	29.14	0
4/23/21 5:42	4.312	159.3	6.9	6.263	29.14	0
4/23/21 5:59	5.939	155.6	4.54	6.273	29.17	0
4/23/21 6:13	6.325	154.5	5.382	6.505	29.17	0
4/23/21 6:15	6.435	158.1	4.938	6.764	29.17	0
4/23/21 6:32	5.529	168.8	10.66	6.871	29.17	0
4/23/21 6:47	5.009	184.3	10.96	6.962	29.18	0
4/23/21 7:11	4.921	170.4	11.71	7.177	29.18	0
4/23/21 7:20	5.081	161.8	10.43	7.222	29.18	0
4/23/21 7:43	4.973	154.9	16.34	7.425	29.18	0
4/23/21 7:46	5.079	182.4	20.5	7.698	29.17	0
4/23/21 8:03	4.443	185.2	27.98	7.951	29.17	0
4/23/21 8:26	5.323	190.6	14.95	8.06	29.17	0
4/23/21 8:30	4.307	178.7	22.93	8.54	29.17	0
4/23/21 8:59	3.191	203.5	25.45	8.83	29.18	0
4/23/21 9:06	4.035	203.8	31.54	9.28	29.18	0
4/23/21 9:16	5.376	220.4	19.72	9.26	29.18	0
4/23/21 9:30	3.425	172.4	37.88	9.72	29.18	0
4/23/21 9:46	4.002	233.6	19.99	9.95	29.16	0
4/23/21 10:14	1.767	186.9	97.4	10.37	29.16	0
4/23/21 10:22	5.514	224.9	42.08	10.86	29.16	0
4/23/21 10:33	3.961	230.8	48.47	11.14	29.16	0
4/23/21 10:52	3.545	171	60.69	12.05	29.14	0
4/23/21 11:07	5.053	213.8	26.23	12.17	29.14	0
4/23/21 11:25	6.144	218.8	18.74	12.66	29.14	0
4/23/21 11:44	5.631	213.2	29.54	12.84	29.14	0
4/23/21 11:45	4.533	237.2	38.26	13.29	29.11	0
4/23/21 12:12	3.629	218.5	36.15	14.03	29.11	0
4/23/21 12:23	4.779	200.3	35.49	14.03	29.11	0
4/23/21 12:36	4.357	222.4	33.58	14.42	29.11	0
4/23/21 12:45	4.83	204.4	28.28	14.49	29.09	0
4/23/21 13:05	6.395	230.8	15.92	14.61	29.09	0
4/23/21 13:26	6.539	288.5	23.83	14.64	29.09	0
4/23/21 13:36	6.088	293.3	30.36	14.66	29.09	0
4/23/21 13:48	8.59	274.8	21.8	14.76	29.09	0
4/23/21 14:08	9.06	275.2	31.8	14.88	29.09	0
4/23/21 14:18	7.728	256.4	28.08	15.19	29.09	0
4/23/21 14:44	9.36	261.1	14.57	14.99	29.09	0
4/23/21 14:59	7.836	252.8	18.79	14.95	29.09	0
4/23/21 15:02	6.868	259.9	20.85	14.79	29.09	0
4/23/21 15:21	8.31	240.2	11.2	14.65	29.09	0
4/23/21 15:40	9.93	261.6	8.51	14.25	29.09	0
4/23/21 15:49	9.03	263.5	10.75	14.22	29.08	0
4/23/21 16:13	8.6	256.1	11.35	14.39	29.08	0
4/23/21 16:16	8.14	263.5	10.83	14.44	29.08	0
4/23/21 16:31	8.73	244.6	11.45	14.5	29.08	0
4/23/21 16:55	7.882	249.8	15.48	14.58	29.06	0
4/23/21 17:03	7.283	254.1	15.72	14.29	29.06	0
4/23/21 17:18	7.301	256.6	10.42	14.16	29.06	0
4/23/21 17:43	7.479	252.9	10.13	13.82	29.06	0
4/23/21 17:56	9.45	253	9.01	13.35	29.05	0
4/23/21 18:02	10.13	250.6	7.116	12.99	29.05	0
4/23/21 18:28	10.67	250.8	7.717	12.6	29.05	0
4/23/21 18:30	8.82	252.2	8.73	12.03	29.05	0
4/23/21 18:54	9.81	245.2	7.965	11.62	29.06	0
4/23/21 19:04	9.87	248.4	5.721	11.1	29.06	0
4/23/21 19:15	7.333	256.6	9.45	10.91	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
4/23/21 19:40	7.177	250.4	8.76	10.71	29.06	0
4/23/21 19:51	8.4	237.3	7.825	10.53	29.05	0
4/23/21 20:00	7.2	243.3	6.401	10.22	29.05	0
4/23/21 20:24	5.656	243.3	6.17	10.12	29.05	0
4/23/21 20:41	5.292	248.5	7.618	10.06	29.05	0
4/23/21 20:45	5.195	248.5	8.1	9.93	29.08	0
4/23/21 21:13	4.72	253.7	10.63	9.85	29.08	0
4/23/21 21:26	7.157	247.9	6.685	9.74	29.08	0
4/23/21 21:30	5.905	255.4	12.25	9.54	29.08	0
4/23/21 21:50	4.645	254.6	11.37	9.36	29.06	0
4/23/21 22:04	5.02	245.7	7.236	9.15	29.06	0
4/23/21 22:27	4.933	247	8.13	8.97	29.06	0
4/23/21 22:31	5.7	248.9	8.56	8.7	29.06	0
4/23/21 22:54	5.299	268.3	7.821	8.54	29.06	0
4/23/21 23:02	4.153	277.9	8.35	8.38	29.06	0
4/23/21 23:17	2.1	280	13.99	8.26	29.06	0
4/23/21 23:33	2.335	273.3	8.7	8.2	29.06	0
4/23/21 23:55	2.982	254.1	25.34	8.21	29.05	0.01
4/24/21 0:10	4.479	249.9	12.12	8.14	29.05	0
4/24/21 0:25	5.492	253.8	7.304	8.01	29.05	0
4/24/21 0:43	4.313	252.4	9.39	7.958	29.05	0
4/24/21 0:46	3.841	242.4	7.332	7.964	29.04	0
4/24/21 1:02	3.038	242.3	10.44	7.966	29.04	0.01
4/24/21 1:24	2.239	169.9	39.02	7.835	29.04	0
4/24/21 1:35	2.423	212	16.29	7.75	29.04	0.01
4/24/21 1:52	3.513	253.2	11.56	7.761	29.03	0
4/24/21 2:00	2.954	237.5	13.12	7.714	29.03	0.01
4/24/21 2:18	3.548	211.5	10.36	7.631	29.03	0.01
4/24/21 2:42	2.064	191.2	19.27	7.484	29.03	0.01
4/24/21 2:54	2.164	188.9	21.15	7.401	29.03	0.01
4/24/21 3:14	1.527	155.4	24.47	7.367	29.03	0
4/24/21 3:15	1.966	120.2	23.02	7.341	29.03	0
4/24/21 3:40	2.77	106.9	6.263	7.215	29.03	0.01
4/24/21 3:45	3.011	120.6	11.37	7.208	29.01	0
4/24/21 4:14	3.664	142.6	7.1	7.259	29.01	0
4/24/21 4:29	5.053	146.6	8.08	7.242	29.01	0.01
4/24/21 4:39	6.121	153.1	6.5	7.115	29.01	0
4/24/21 4:48	6.684	153	6.391	7.005	28.98	0.01
4/24/21 5:06	7.716	160.3	5.815	6.938	28.98	0
4/24/21 5:18	7.891	161.1	6.977	6.909	28.98	0
4/24/21 5:33	6.407	166.5	6.835	6.931	28.98	0.01
4/24/21 5:56	5.691	156.5	6.837	6.933	28.97	0.01
4/24/21 6:03	5.546	159	8.38	6.975	28.97	0
4/24/21 6:18	5.944	160.2	6.336	6.988	28.97	0.01
4/24/21 6:30	5.292	171.6	12.58	7.1	28.97	0
4/24/21 6:47	5.868	154.9	5.477	7.092	28.99	0.01
4/24/21 7:06	5.647	155.6	8.21	7.172	28.99	0.01
4/24/21 7:26	6.59	155.2	5.906	7.262	28.99	0.01
4/24/21 7:35	6.974	153.7	8.3	7.411	28.99	0
4/24/21 7:57	7.811	157.3	6.874	7.557	28.99	0.01
4/24/21 8:09	7.836	157.7	9	7.655	28.99	0
4/24/21 8:20	8.45	156.5	8.54	7.713	28.99	0.01
4/24/21 8:38	7.969	158.6	8.48	7.772	28.99	0.01
4/24/21 8:53	8.57	197	19.14	7.861	28.99	0.01
4/24/21 9:02	8.37	223.4	10.14	7.982	28.99	0
4/24/21 9:15	5.931	209.2	14.62	8.06	28.99	0
4/24/21 9:36	6.065	200.9	12.82	8.13	28.99	0.01
4/24/21 9:50	6.179	193.2	10.31	7.916	28.99	0.01
4/24/21 10:06	7.199	199.2	13.48	7.818	28.99	0.01
4/24/21 10:21	7.598	200.5	11.54	8.02	28.99	0.01
4/24/21 10:36	7.681	188.5	10.21	7.917	28.99	0
4/24/21 10:56	7.51	187.1	7.208	7.942	28.99	0.01
4/24/21 11:14	7.182	185.8	10.62	8.18	28.99	0
4/24/21 11:22	8.15	186.7	12.15	8.36	28.99	0
4/24/21 11:34	7.613	181.9	14.5	8.53	28.99	0
4/24/21 11:54	11.59	195.8	13.28	8.13	28.98	0.02
4/24/21 12:07	10.45	215.5	10.52	8.16	28.98	0.01
4/24/21 12:22	10.64	207.1	9.92	8.13	28.98	0.01
4/24/21 12:36	10.39	224.1	10.2	8.13	28.98	0
4/24/21 12:59	9.96	227.9	7.803	8.14	28.98	0.01
4/24/21 13:08	9.14	233.4	9.72	8.16	28.98	0
4/24/21 13:25	9.77	233.3	7.957	7.946	28.98	0.01
4/24/21 13:35	9.27	225.2	9.49	8.09	28.98	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
4/24/21 13:55	8.43	223.1	14.26	7.996	28.97	0.01
4/24/21 14:06	8.11	192	13.26	7.902	28.97	0.01
4/24/21 14:28	8.75	190	10.54	7.784	28.97	0
4/24/21 14:35	8.05	190.6	9.89	7.836	28.97	0.01
4/24/21 14:46	8.81	192	11.09	7.86	28.96	0
4/24/21 15:00	6.878	188.8	9.37	7.79	28.96	0.02
4/24/21 15:26	7.768	197.5	10.3	7.853	28.96	0
4/24/21 15:31	7.484	185.3	11.29	7.766	28.96	0.01
4/24/21 15:45	6.69	187.2	10.44	7.909	28.95	0.01
4/24/21 16:07	6.051	177.3	15.78	7.963	28.95	0
4/24/21 16:24	6.931	172.5	17.77	7.912	28.95	0
4/24/21 16:36	6.254	157.7	11.52	7.877	28.95	0.01
4/24/21 16:46	5.128	140.7	13.69	7.903	28.93	0
4/24/21 17:00	4.807	134.8	10.53	7.891	28.93	0
4/24/21 17:27	4.602	135.1	9.7	7.796	28.93	0.01
4/24/21 17:30	4.216	127.9	9.39	7.821	28.93	0
4/24/21 17:45	3.975	117.9	7.855	7.766	28.92	0
4/24/21 18:04	3.425	116.6	10.52	7.705	28.92	0
4/24/21 18:24	3.647	114.4	10.5	7.565	28.92	0.01
4/24/21 18:40	3.395	111.5	13.04	7.511	28.92	0
4/24/21 18:47	3.62	110.1	11.85	7.513	28.9	0
4/24/21 19:07	3.867	109	7.076	7.383	28.9	0
4/24/21 19:28	3.176	112	6.432	7.296	28.9	0
4/24/21 19:32	3.886	102	10.2	7.306	28.9	0
4/24/21 19:53	3.148	110.5	8.01	7.249	28.9	0.01
4/24/21 20:01	2.176	86.6	6.364	7.157	28.9	0
4/24/21 20:15	2.353	64.66	8.63	7.132	28.9	0
4/24/21 20:30	2.294	61.02	4.917	7.039	28.9	0
4/24/21 20:51	2.05	51.8	4.349	6.938	28.91	0
4/24/21 21:00	1.07	38.6	3.848	6.774	28.91	0.01
4/24/21 21:15	0	0	0	6.788	28.91	0
4/24/21 21:42	0.185	55	0.032	6.836	28.91	0
4/24/21 21:49	0.509	53.99	0.313	6.736	28.92	0
4/24/21 22:00	0	0	0	6.754	28.92	0.01
4/24/21 22:27	2.211	45.14	12.31	6.696	28.92	0.01
4/24/21 22:31	3.205	47.62	9.54	6.652	28.92	0.02
4/24/21 22:55	2.9	49.83	5.866	6.549	28.89	0
4/24/21 23:13	3.564	43.89	4.946	6.518	28.89	0
4/24/21 23:18	4.11	40.07	6.988	6.503	28.89	0.01
4/24/21 23:30	2.565	31.84	5.898	6.487	28.89	0
4/24/21 23:56	3.542	47.89	8.16	6.499	28.89	0.01
4/25/21 0:00	3.794	51.89	7.611	6.533	28.89	0.03
4/25/21 0:29	3.475	47.62	4.633	6.559	28.89	0.01
4/25/21 0:30	2.427	85.1	25.48	6.615	28.89	0.02
4/25/21 0:55	7.496	188.5	18.91	6.772	28.92	0.03
4/25/21 1:00	3.742	118.1	22.76	6.534	28.92	0.01
4/25/21 1:22	4.158	109.5	22.25	6.622	28.92	0
4/25/21 1:44	3.603	141.7	16.81	6.622	28.92	0
4/25/21 1:55	5.801	160.3	9.68	6.816	28.91	0
4/25/21 2:11	7.821	184.4	10.27	7.244	28.91	0
4/25/21 2:15	6.488	185.9	8.82	7.3	28.91	0.01
4/25/21 2:32	6.524	178.1	10.64	7.235	28.91	0
4/25/21 2:45	4.492	161	13.02	7.072	28.92	0
4/25/21 3:11	4.956	173.6	14.21	7.11	28.92	0
4/25/21 3:29	7.016	183.2	12.46	7.305	28.92	0
4/25/21 3:31	6.505	202.4	8.8	7.335	28.92	0
4/25/21 3:54	5.183	175.8	26.65	7.259	28.92	0
4/25/21 4:07	5.753	180.2	15.41	7.159	28.92	0
4/25/21 4:19	5.038	169.6	14.39	7.103	28.92	0
4/25/21 4:39	2.967	147.9	12.88	6.754	28.92	0
4/25/21 4:58	3.667	166.9	13.46	6.874	28.92	0
4/25/21 5:05	3.997	165.2	12.06	6.901	28.92	0
4/25/21 5:26	3.467	173.5	15.49	7.148	28.92	0
4/25/21 5:31	2.932	147.7	12.74	6.987	28.92	0
4/25/21 5:50	3.682	183	21.29	7.162	28.91	0
4/25/21 6:09	4.747	198.4	9.98	7.051	28.91	0
4/25/21 6:27	4.08	195.6	16.94	7.067	28.91	0
4/25/21 6:35	3.614	170.1	13.82	7.106	28.91	0
4/25/21 6:59	3.012	164.7	15.53	7.196	28.92	0
4/25/21 7:12	3.03	167.6	36.19	7.502	28.92	0
4/25/21 7:29	4.487	183	12.66	7.579	28.92	0
4/25/21 7:42	4.149	135.5	14.35	7.55	28.92	0
4/25/21 7:47	3.634	127.8	16.15	7.604	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
4/25/21 8:04	3.25	133.3	20.37	7.965	28.93	0
4/25/21 8:24	4.867	165.2	21.9	8.26	28.93	0
4/25/21 8:30	5.131	159	17.05	8.31	28.93	0
4/25/21 8:56	5.762	139.2	8.7	8.31	28.94	0
4/25/21 9:08	5.646	139	12.52	8.61	28.94	0
4/25/21 9:19	5.991	142.3	17.04	9.12	28.94	0
4/25/21 9:37	8.78	162.5	20.51	9.47	28.94	0
4/25/21 9:55	8.87	178.8	12.99	9.43	28.93	0
4/25/21 10:06	6.231	173.2	20.33	9.49	28.93	0
4/25/21 10:20	5.146	187.7	24.71	9.6	28.93	0
4/25/21 10:39	5.367	213.9	57.72	9.69	28.93	0
4/25/21 10:56	3.302	296.4	24.23	10.07	28.93	0
4/25/21 11:01	3.665	302	25.21	10.18	28.93	0
4/25/21 11:23	4.487	278.1	25.02	9.97	28.93	0
4/25/21 11:37	2.605	266.8	26.79	9.83	28.93	0
4/25/21 11:57	2.339	164.5	82	10.34	28.93	0
4/25/21 12:07	3.934	66.58	25.08	10.76	28.93	0
4/25/21 12:29	3.835	120.9	16.43	10.53	28.93	0
4/25/21 12:44	5.752	128.3	12.69	10.78	28.93	0
4/25/21 12:47	7.233	121	23.8	11.16	28.92	0
4/25/21 13:00	7.018	107.9	12.88	10.29	28.92	0
4/25/21 13:17	3.619	96.6	32.58	11.07	28.92	0
4/25/21 13:43	2.32	38.73	31.61	11.83	28.92	0
4/25/21 13:45	1.247	64.13	58.46	12.22	28.92	0
4/25/21 14:12	1.825	142.5	82.2	11.82	28.92	0
4/25/21 14:28	4.442	176.1	27.82	12.26	28.92	0
4/25/21 14:33	10.35	149.7	10.7	11.17	28.92	0
4/25/21 14:49	8.2	145.6	14.26	10.75	28.9	0
4/25/21 15:07	5.483	137.2	12.54	10.53	28.9	0
4/25/21 15:21	6.611	157.6	16.73	10.37	28.9	0
4/25/21 15:35	8.47	159	18.34	10.69	28.9	0
4/25/21 15:45	4.805	159.6	13.59	11.4	28.89	0
4/25/21 16:08	6.854	202.8	11.7	10.86	28.89	0
4/25/21 16:19	5.719	160.7	16.27	10.81	28.89	0
4/25/21 16:40	5.951	160.6	14.84	11.69	28.89	0
4/25/21 16:46	5.434	156.9	13.82	11.62	28.91	0
4/25/21 17:09	4.671	161.5	19.84	11.51	28.91	0
4/25/21 17:23	3.712	163.1	12.08	11.21	28.91	0
4/25/21 17:33	3.712	157	7.424	11.24	28.91	0
4/25/21 17:51	2.388	181.6	27.29	11.53	28.91	0
4/25/21 18:00	1.004	207	46.42	11.84	28.91	0
4/25/21 18:28	3.545	181.3	14.26	12.01	28.91	0
4/25/21 18:43	10.02	191.7	10.74	10.91	28.91	0
4/25/21 18:51	13.72	195.8	9.25	9.32	28.92	0
4/25/21 19:03	9.93	191	10.45	8.41	28.92	0
4/25/21 19:16	6.844	142.8	22.12	7.965	28.92	0
4/25/21 19:40	4.894	106.7	9.98	7.858	28.92	0
4/25/21 19:55	5.407	99.3	9.94	7.742	28.95	0
4/25/21 20:12	5.56	110.1	11.05	7.73	28.95	0
4/25/21 20:22	6.001	134.6	9.53	7.728	28.95	0
4/25/21 20:30	6.092	136.6	8.43	7.751	28.95	0
4/25/21 20:57	6.283	141.1	8.67	7.721	28.96	0
4/25/21 21:14	6.278	150.6	7.952	7.732	28.96	0
4/25/21 21:19	5.807	156	7.572	7.808	28.96	0
4/25/21 21:33	4.306	152.9	7.329	7.97	28.96	0
4/25/21 21:47	2.966	173.4	18.19	8.12	28.96	0
4/25/21 22:01	2.163	203.7	34.35	8.18	28.96	0
4/25/21 22:28	3.091	198.7	24.35	8.24	28.96	0
4/25/21 22:35	4.84	209.4	17.75	8.13	28.96	0
4/25/21 22:45	4.363	192.9	9.67	7.798	28.96	0
4/25/21 23:14	3.4	176.4	7.5	7.614	28.96	0
4/25/21 23:16	3.288	175.5	9.13	7.58	28.96	0.02
4/25/21 23:43	2.743	168.7	16.02	7.509	28.96	0.01
4/25/21 23:45	2.286	145.2	19.08	7.51	28.97	0
4/26/21 0:03	1.757	127.6	10.01	7.354	28.97	0
4/26/21 0:28	1.828	124	11.89	7.322	28.97	0
4/26/21 0:43	3.944	146.9	8.6	7.424	28.97	0
4/26/21 0:56	5.362	175.7	14.63	7.505	28.97	0
4/26/21 1:06	5.245	181.8	8.48	7.508	28.97	0
4/26/21 1:29	4.817	175.1	9.25	7.377	28.97	0
4/26/21 1:30	5.666	179.6	9.34	7.474	28.97	0
4/26/21 1:46	4.528	171.9	11.92	7.406	28.99	0
4/26/21 2:12	3.56	174.3	8.79	7.309	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
4/26/21 2:16	4.089	189.2	7.199	7.464	28.99	0
4/26/21 2:36	3.48	203.3	9.85	7.553	28.99	0
4/26/21 2:48	3.505	204.3	6.391	7.56	29.01	0
4/26/21 3:12	3.892	195.3	9.61	7.539	29.01	0
4/26/21 3:20	4.715	185.8	4.074	7.467	29.01	0
4/26/21 3:43	4.896	192.3	7.276	7.489	29.01	0
4/26/21 3:45	5.414	191.1	6.967	7.444	29.02	0
4/26/21 4:09	5.814	187.2	5.52	7.367	29.02	0
4/26/21 4:26	5.983	188.6	5.217	7.252	29.02	0
4/26/21 4:32	5.65	194.2	6.158	7.171	29.02	0
4/26/21 4:55	5.069	184.1	8.59	7.199	29.02	0
4/26/21 5:11	3.066	147.8	15.82	7.062	29.02	0
4/26/21 5:21	4.116	150.3	8.95	7.052	29.02	0
4/26/21 5:40	3.494	157.8	14	6.845	29.02	0
4/26/21 5:59	4.644	153.2	8.65	6.629	29.03	0
4/26/21 6:11	6.777	159.1	3.972	6.791	29.03	0
4/26/21 6:18	6.581	157.4	6.013	7.051	29.03	0
4/26/21 6:36	6.125	154.2	6.711	7.262	29.03	0
4/26/21 6:57	6.202	155.5	7.872	7.492	29.06	0
4/26/21 7:04	6.139	149.2	9.22	8.08	29.06	0
4/26/21 7:18	5.719	157.7	14.08	8.17	29.06	0
4/26/21 7:43	6.858	175.1	13.33	8.07	29.06	0
4/26/21 7:49	5.655	180.5	14.25	8.22	29.07	0
4/26/21 8:05	5.235	157.8	15.16	8.28	29.07	0
4/26/21 8:26	4.613	147.7	14.51	8.62	29.07	0
4/26/21 8:43	5.317	139.3	15.23	8.82	29.07	0
4/26/21 8:48	6.784	181.5	18.22	8.8	29.07	0
4/26/21 9:00	4.476	202.1	17.36	8.86	29.07	0
4/26/21 9:19	2.715	178.2	30.64	9.25	29.07	0
4/26/21 9:32	2.678	263.9	60	9.45	29.07	0
4/26/21 9:57	3.063	315.8	22.14	9.16	29.11	0
4/26/21 10:11	3.306	283.5	21.21	9.05	29.11	0
4/26/21 10:16	3.104	241.3	24.38	9.17	29.11	0
4/26/21 10:30	0.939	238.1	32.35	9.49	29.11	0
4/26/21 10:56	2.691	106.7	42.99	9.78	29.09	0
4/26/21 11:06	3.85	38.5	25.09	10.12	29.09	0
4/26/21 11:28	2.291	40.88	27.62	10.65	29.09	0
4/26/21 11:33	2.625	62.71	18.56	10.43	29.09	0
4/26/21 11:54	2.873	129.7	43.9	11.15	29.09	0
4/26/21 12:05	4.155	163.9	38.21	11.06	29.09	0
4/26/21 12:20	1.914	80.9	20.88	11.17	29.09	0
4/26/21 12:41	1.996	240.4	34.03	11.26	29.09	0
4/26/21 12:45	3.154	215.1	21.68	11.19	29.1	0
4/26/21 13:07	1.238	178	24.33	11.78	29.1	0
4/26/21 13:28	1.637	243.8	32.29	12.07	29.1	0
4/26/21 13:42	3.478	222.7	23.73	12.75	29.1	0
4/26/21 13:49	5.924	190.9	19.23	12.98	29.12	0
4/26/21 14:09	5.101	201.6	43.76	12.95	29.12	0
4/26/21 14:24	6.741	207.3	25.33	13.24	29.12	0
4/26/21 14:38	7.021	183.3	17.57	13.72	29.12	0
4/26/21 14:56	6.657	232.2	39.71	13.63	29.11	0
4/26/21 15:06	6.149	252.8	29.98	14.11	29.11	0
4/26/21 15:29	4.166	280.1	51.47	14.28	29.11	0
4/26/21 15:30	4.98	300	34.94	14.7	29.11	0
4/26/21 15:51	4.289	345.3	56.13	14.28	29.13	0
4/26/21 16:10	4.487	55.93	27.08	13.89	29.13	0
4/26/21 16:25	4.397	71.4	20.96	13.98	29.13	0
4/26/21 16:35	3.352	33.12	32.53	13.82	29.13	0
4/26/21 16:49	2.807	63.72	19.55	13.35	29.13	0
4/26/21 17:03	2.998	66.06	7.146	13.02	29.13	0
4/26/21 17:27	3.939	45.14	9.7	13.18	29.13	0
4/26/21 17:30	4.173	23.8	32.62	13.07	29.13	0
4/26/21 17:51	4.648	356.7	31.55	12.96	29.16	0
4/26/21 18:01	3.854	23.97	11.64	12.2	29.16	0
4/26/21 18:16	2.628	18.13	13.52	12.35	29.16	0
4/26/21 18:38	1.153	343.7	11.5	13.25	29.16	0
4/26/21 18:58	1.536	337.7	11.09	12.86	29.16	0
4/26/21 19:14	2.934	315.5	10.67	12.57	29.16	0
4/26/21 19:22	4.474	318.1	4.612	11.91	29.16	0
4/26/21 19:30	3.194	338.4	26.73	11.76	29.16	0
4/26/21 19:56	1.993	24.86	5.338	11.15	29.18	0
4/26/21 20:13	1.493	56.65	18.36	10.51	29.18	0
4/26/21 20:29	1.848	78.41	6.366	10.37	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
4/26/21 20:40	2.193	110	9.96	9.95	29.18	0
4/26/21 20:48	2.166	148.1	15.96	9.89	29.18	0
4/26/21 21:02	1.404	121.1	7.896	9.39	29.18	0
4/26/21 21:25	1.555	104.9	26.76	9.02	29.18	0
4/26/21 21:36	2.447	55.86	11.36	8.4	29.18	0
4/26/21 21:53	1.458	134.7	46.95	8.68	29.19	0
4/26/21 22:14	3.409	137.7	6.194	9.23	29.19	0
4/26/21 22:18	3.922	137.3	5.053	8.95	29.19	0
4/26/21 22:31	2.897	155.9	9.6	8.08	29.19	0
4/26/21 22:47	1.928	150.4	6.507	8.19	29.22	0
4/26/21 23:14	2.88	156.2	7.624	8.18	29.22	0
4/26/21 23:23	4.154	160	6.199	8.12	29.22	0
4/26/21 23:35	2.976	142.2	8.89	8.25	29.22	0
4/26/21 23:51	3.277	147.2	11.35	8.31	29.25	0
4/27/21 0:09	4.328	150.6	7.988	8.27	29.25	0
4/27/21 0:25	4.541	153.9	8.42	8.29	29.25	0
4/27/21 0:37	4.682	188.1	9.47	8.27	29.25	0
4/27/21 0:49	5.678	193.8	6.797	8.47	29.27	0
4/27/21 1:01	5.386	191.9	6.091	8.34	29.27	0
4/27/21 1:26	5.045	180.3	11.17	8.12	29.27	0
4/27/21 1:30	1.489	131.4	26.01	7.798	29.27	0
4/27/21 1:59	3.142	145.3	16.29	7.932	29.27	0
4/27/21 2:14	4.356	134.3	7.714	7.948	29.27	0
4/27/21 2:23	4.599	151.3	7.818	7.91	29.27	0
4/27/21 2:32	4.342	168.6	7.476	7.807	29.27	0
4/27/21 2:58	4.517	184.2	8.7	8.01	29.27	0
4/27/21 3:13	4.271	168.4	10.03	7.855	29.27	0
4/27/21 3:26	6.11	172.5	15.38	7.814	29.27	0
4/27/21 3:31	6.618	194.9	6.21	8	29.27	0
4/27/21 3:52	6.068	200.4	6.657	7.829	29.27	0
4/27/21 4:12	6.143	211.1	6.268	7.71	29.27	0
4/27/21 4:17	4.384	213.8	6.706	7.73	29.27	0
4/27/21 4:39	3.484	198.8	4.309	7.722	29.27	0
4/27/21 4:52	2.503	189.1	6.473	7.772	29.28	0
4/27/21 5:13	2.816	184.2	9.42	7.595	29.28	0
4/27/21 5:29	2.906	199.8	9.73	7.68	29.28	0
4/27/21 5:42	4.758	188.6	7.89	7.53	29.28	0
4/27/21 5:58	5.543	183.7	7.945	7.419	29.29	0
4/27/21 6:13	6.116	190.1	10.34	7.4	29.29	0
4/27/21 6:23	7.549	184.8	17.69	7.041	29.29	0
4/27/21 6:43	6.54	182	9.78	7.694	29.29	0
4/27/21 6:58	5.922	190.2	10.36	7.758	29.33	0
4/27/21 7:03	6.664	189.2	14.58	7.842	29.33	0
4/27/21 7:26	6.655	164.3	12.77	8.15	29.33	0
4/27/21 7:44	7.434	171.6	15.53	8.64	29.33	0
4/27/21 7:53	9.26	195.7	10.15	8.57	29.32	0
4/27/21 8:03	10.08	184.5	8.57	8.74	29.32	0
4/27/21 8:21	9.38	179.1	16.18	8.73	29.32	0
4/27/21 8:42	7.808	177.3	18	9	29.32	0
4/27/21 8:50	6.813	180.5	21.42	8.96	29.32	0
4/27/21 9:01	5.819	185	16.02	9	29.32	0
4/27/21 9:29	5.729	192.4	21.45	9.35	29.32	0
4/27/21 9:36	5.7	216.9	12.71	9.29	29.32	0
4/27/21 9:55	5.279	179.4	25.41	9.79	29.35	0
4/27/21 10:11	5.597	181.2	20.98	10.08	29.35	0
4/27/21 10:22	4.956	180	31.63	10.35	29.35	0
4/27/21 10:41	5.331	218.9	26.65	10.72	29.35	0
4/27/21 10:50	5.086	205.2	23.79	11.15	29.35	0
4/27/21 11:04	4.554	193.3	25.6	11.37	29.35	0
4/27/21 11:22	3.886	258.8	39.3	11.92	29.35	0
4/27/21 11:32	6.023	252.4	17.13	12.17	29.35	0
4/27/21 11:56	5.492	213.2	32.91	12.94	29.34	0
4/27/21 12:09	6.152	221.9	45.82	12.85	29.34	0
4/27/21 12:29	6.013	224.2	30.4	13.21	29.34	0
4/27/21 12:31	7.289	245.3	21.83	13.4	29.34	0
4/27/21 12:49	6.074	243.9	26.88	13.72	29.36	0
4/27/21 13:00	5.446	238.6	21.6	13.64	29.36	0
4/27/21 13:27	8.26	255.9	20.27	13.81	29.36	0
4/27/21 13:35	5.273	258	45.23	13.9	29.36	0
4/27/21 13:46	7.316	231	40.94	13.76	29.37	0
4/27/21 14:03	6.644	218.3	36.14	14.14	29.37	0
4/27/21 14:29	5.714	226.3	30.21	13.89	29.37	0
4/27/21 14:30	5.619	275.3	30.75	14.13	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
4/27/21 14:51	6.704	252.9	28.3	14.1	29.37	0
4/27/21 15:07	7.722	259.3	23.59	14.29	29.37	0
4/27/21 15:20	6.424	254.4	21.07	14.12	29.37	0
4/27/21 15:40	7.525	246.3	22.15	14.33	29.37	0
4/27/21 15:54	7.706	252.3	21.55	14.32	29.37	0
4/27/21 16:09	7.706	267.4	20.42	14.18	29.37	0
4/27/21 16:27	7.994	282.3	19	14.01	29.37	0
4/27/21 16:44	8.56	264.9	16.12	13.9	29.37	0
4/27/21 16:58	8.47	268.4	10.2	13.77	29.35	0
4/27/21 17:00	6.042	263.5	8.83	13.61	29.35	0
4/27/21 17:23	7.478	274.9	12.64	13.71	29.35	0
4/27/21 17:30	7.245	273.5	7.486	13.61	29.35	0
4/27/21 17:58	5.544	270.6	9.2	13.59	29.36	0
4/27/21 18:05	5.573	289.2	9.99	13.35	29.36	0
4/27/21 18:15	4.427	287.3	11.48	13.18	29.36	0
4/27/21 18:35	5.849	283.1	8.92	13.11	29.36	0
4/27/21 18:50	5.377	283.9	5.324	12.85	29.36	0
4/27/21 19:04	4.964	280.2	5.443	12.66	29.36	0
4/27/21 19:16	4.245	283.1	4.276	12.63	29.36	0
4/27/21 19:34	1.688	305.5	33.78	12.5	29.36	0
4/27/21 19:47	1.039	24.23	1.878	11.84	29.38	0
4/27/21 20:03	1.192	9.01	6.213	11.99	29.38	0
4/27/21 20:18	0.838	23.04	14.24	12.01	29.38	0
4/27/21 20:31	0.395	49.18	3.27	12.01	29.38	0
4/27/21 20:51	1.181	154.3	36.19	11.64	29.42	0
4/27/21 21:11	1.663	209.3	24.24	11.72	29.42	0
4/27/21 21:23	3.174	246.9	11.44	11.92	29.42	0
4/27/21 21:35	4.095	257.8	6.956	11.68	29.42	0
4/27/21 21:45	2.694	207.2	17.04	11.34	29.42	0
4/27/21 22:00	2.502	178.6	3.636	11.12	29.42	0
4/27/21 22:17	1.927	183	8.7	11.12	29.42	0
4/27/21 22:44	2.133	173.5	6.189	10.96	29.42	0
4/27/21 22:55	2.794	172.9	7.784	10.54	29.43	0
4/27/21 23:02	2.71	150.8	12.32	10.47	29.43	0
4/27/21 23:29	1.241	120.8	15.12	10.25	29.43	0
4/27/21 23:40	2.868	133.1	15.51	10.11	29.43	0
4/27/21 23:54	3.671	161	14.52	9.84	29.41	0
4/28/21 0:14	4.087	178.8	9.65	9.76	29.41	0
4/28/21 0:15	4.47	179.6	10.17	9.23	29.41	0
4/28/21 0:39	4.256	181	8.89	9.36	29.41	0
4/28/21 0:49	2.526	149.5	22.71	9.28	29.45	0
4/28/21 1:08	1.993	131.3	22.05	9.24	29.45	0
4/28/21 1:17	2.87	154	16.31	9.31	29.45	0
4/28/21 1:37	2.417	130	10.17	9.01	29.45	0
4/28/21 1:46	3.129	164.3	17.31	9.11	29.43	0
4/28/21 2:00	2.102	156.4	18.39	9.17	29.43	0
4/28/21 2:28	2.156	109.8	6.84	9.02	29.43	0
4/28/21 2:31	2.623	110.7	3.984	8.85	29.43	0
4/28/21 2:45	0.598	100.7	3.086	8.94	29.45	0
4/28/21 3:09	2.018	3.245	10.46	8.88	29.45	0
4/28/21 3:15	1.782	11.54	22.19	8.7	29.45	0
4/28/21 3:44	0.034	64.86	9.29	8.4	29.45	0
4/28/21 3:46	1.105	189.1	13.88	8.12	29.43	0
4/28/21 4:07	2.3	229.6	8.67	7.62	29.43	0
4/28/21 4:23	2.833	193.1	21.45	7.381	29.43	0
4/28/21 4:42	2.209	157.7	13.85	7.535	29.43	0
4/28/21 4:53	4	193.3	11.74	7.461	29.46	0
4/28/21 5:01	3.84	161.6	9.31	7.385	29.46	0
4/28/21 5:18	3.074	142	5.621	7.364	29.46	0
4/28/21 5:38	3.941	135.1	5.846	7.515	29.46	0
4/28/21 5:57	2.919	124.8	20.19	7.288	29.47	0
4/28/21 6:03	4.044	156.5	9.76	8.12	29.47	0
4/28/21 6:29	4.007	157.9	6.75	8.2	29.47	0
4/28/21 6:30	4.063	159.8	7.367	8.36	29.47	0
4/28/21 6:45	0.712	139.3	18.17	8.71	29.48	0
4/28/21 7:06	2.425	177.2	15	8.84	29.48	0
4/28/21 7:16	3.213	216.1	14.87	9.12	29.48	0
4/28/21 7:43	3.009	208	20.07	9.41	29.48	0
4/28/21 8:00	3.386	198.1	9.14	9.56	29.49	0
4/28/21 8:06	4.367	200.6	15.17	10.38	29.49	0
4/28/21 8:25	2.956	194	26.04	10.98	29.49	0
4/28/21 8:34	2.708	213.3	50.34	11.5	29.49	0
4/28/21 8:57	2.129	178.4	28.44	12.61	29.49	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
4/28/21 9:04	3.334	134.6	26.8	13.27	29.49	0
4/28/21 9:21	2.016	100.7	41.33	13.47	29.49	0
4/28/21 9:38	1.938	235.1	62.78	13.76	29.49	0
4/28/21 9:45	1.862	205.5	45.85	14.28	29.48	0
4/28/21 10:04	3.407	238	34.75	14.56	29.48	0
4/28/21 10:17	3.685	219	40.62	14.69	29.48	0
4/28/21 10:44	4.025	197.8	16.78	14.97	29.48	0
4/28/21 10:59	2.374	180.7	37.42	15.4	29.49	0
4/28/21 11:07	3.004	251.3	28.55	15.5	29.49	0
4/28/21 11:21	3.69	284.9	22.84	16.07	29.49	0
4/28/21 11:38	3.112	289.9	19.77	15.99	29.49	0
4/28/21 11:48	3.23	310.5	41.55	16.26	29.46	0
4/28/21 12:08	4.599	314.5	35.92	16.5	29.46	0
4/28/21 12:17	3.378	358.2	87.4	16.43	29.46	0
4/28/21 12:40	3.883	263.5	47.05	16.77	29.46	0
4/28/21 12:59	5.704	252.3	20.86	16.79	29.45	0
4/28/21 13:03	6.734	269	16.52	16.41	29.45	0
4/28/21 13:20	7.032	285.7	8.18	16.44	29.45	0
4/28/21 13:31	5.156	271.8	14.49	16.54	29.45	0
4/28/21 13:50	3.816	300	24.64	17.31	29.48	0
4/28/21 14:12	2.719	15.01	27.72	17.42	29.48	0
4/28/21 14:28	2.507	327.7	32.73	17.95	29.48	0
4/28/21 14:41	3.795	317.3	36.16	18.26	29.48	0
4/28/21 14:45	6.246	288	17.44	17.75	29.46	0
4/28/21 15:08	7.369	275.9	7.033	17.56	29.46	0
4/28/21 15:22	8.47	279.7	8.47	17.25	29.46	0
4/28/21 15:44	6.868	282	8.34	17.05	29.46	0
4/28/21 15:54	7.284	280.8	8.8	16.8	29.47	0
4/28/21 16:06	7.861	288.1	7.764	16.64	29.47	0
4/28/21 16:15	6.842	291.9	7.895	16.61	29.47	0
4/28/21 16:30	4.329	311.5	7.551	16.73	29.47	0
4/28/21 16:46	4.116	305.6	14.95	16.77	29.46	0
4/28/21 17:12	2.549	333.5	26.88	16.71	29.46	0
4/28/21 17:24	2.952	357.3	10.22	16.63	29.46	0
4/28/21 17:44	4.078	6.32	11.98	16.39	29.46	0
4/28/21 17:45	4.556	359.9	10.33	16.26	29.43	0
4/28/21 18:08	4.11	11.6	10.48	16.03	29.43	0
4/28/21 18:22	5.789	13.68	9.23	15.72	29.43	0
4/28/21 18:33	5.877	3.61	9.72	15.68	29.43	0
4/28/21 18:59	5.876	1.629	11.9	15.65	29.43	0
4/28/21 19:11	6.23	12.88	11.49	15.51	29.43	0
4/28/21 19:26	6.097	24.65	11.96	15.03	29.43	0
4/28/21 19:32	5.734	5.009	11.8	14.98	29.43	0
4/28/21 19:54	4.656	23.02	17.55	14.99	29.45	0
4/28/21 20:12	6.229	29.9	7.115	14.28	29.45	0
4/28/21 20:18	5.37	33.15	6.711	13.97	29.45	0
4/28/21 20:43	5.691	37.79	8.7	13.69	29.45	0
4/28/21 20:46	5.616	28.39	9.54	13.62	29.45	0
4/28/21 21:12	5.606	36.66	10.12	13.49	29.45	0
4/28/21 21:16	6.224	32.79	9	13.33	29.45	0
4/28/21 21:30	4.555	49.12	8.28	13.11	29.45	0
4/28/21 21:57	6.297	40.89	10.35	12.88	29.44	0
4/28/21 22:10	5.545	41.82	8.91	12.54	29.44	0
4/28/21 22:25	5.767	44.81	7.173	12.48	29.44	0
4/28/21 22:30	4.957	37.53	7.138	12.2	29.44	0
4/28/21 22:45	3.869	21.14	8.25	11.97	29.45	0
4/28/21 23:01	2.303	24.17	7.356	12	29.45	0
4/28/21 23:26	3.204	32.75	9.34	11.87	29.45	0
4/28/21 23:44	3.734	30.11	7.705	11.72	29.45	0
4/28/21 23:57	3.81	45.26	4.865	11.28	29.46	0
4/29/21 0:09	5.197	50.53	7.816	11.21	29.46	0
4/29/21 0:15	4.635	43.56	10.72	11.25	29.46	0
4/29/21 0:36	3.883	40.9	7.612	10.92	29.46	0
4/29/21 0:49	4.287	21.15	10.28	10.9	29.43	0
4/29/21 1:03	3.451	358.5	15.41	10.87	29.43	0
4/29/21 1:15	2.751	22.7	21.12	10.53	29.43	0
4/29/21 1:42	3.03	45.9	14.99	10.73	29.43	0
4/29/21 1:46	3.994	18.09	9.7	10.32	29.45	0
4/29/21 2:11	2.118	20.59	18.99	10.26	29.45	0
4/29/21 2:26	2.61	46.42	10.81	10.23	29.45	0
4/29/21 2:39	5.457	40.45	11.61	9.87	29.45	0
4/29/21 2:54	7.399	36	9.68	9.72	29.44	0
4/29/21 3:01	6.317	37.6	7.48	9.52	29.44	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
4/29/21 3:20	5.368	38.27	8.48	9.5	29.44	0
4/29/21 3:38	5.386	47.87	8.04	9.35	29.44	0
4/29/21 3:57	4.293	32.01	9.76	9.25	29.41	0
4/29/21 4:08	4.166	19.79	7.538	9.24	29.41	0
4/29/21 4:15	3.882	13.23	16.26	9.24	29.41	0
4/29/21 4:32	2.4	354.1	8.65	9.03	29.41	0
4/29/21 4:47	2.53	15.75	10.75	9.11	29.41	0
4/29/21 5:00	1.432	36.02	10.47	9.31	29.41	0
4/29/21 5:29	1.287	43.79	2.821	9.5	29.41	0
4/29/21 5:31	1.315	45.51	7.474	9.26	29.41	0
4/29/21 5:56	1.744	93.9	35.39	8.84	29.4	0
4/29/21 6:09	2.825	140.4	10.75	10.03	29.4	0
4/29/21 6:29	2.989	159.6	15.57	10.53	29.4	0
4/29/21 6:39	2.978	182.5	16.91	10.84	29.4	0
4/29/21 6:59	0.656	106.9	51.21	10.72	29.42	0
4/29/21 7:11	2.251	154.3	28.43	11.19	29.42	0
4/29/21 7:22	3.244	195.9	12.8	11.64	29.42	0
4/29/21 7:43	1.615	168.4	47.65	12.38	29.42	0
4/29/21 7:53	2.607	248.3	16.35	12.67	29.41	0
4/29/21 8:10	1.929	242.7	19.73	13.46	29.41	0
4/29/21 8:27	2.024	270.2	26.75	14.13	29.41	0
4/29/21 8:32	1.926	253.1	24.65	14.8	29.41	0
4/29/21 8:54	1.119	294.4	22.18	15.55	29.41	0
4/29/21 9:07	2.022	346.1	25.14	15.7	29.41	0
4/29/21 9:29	1.802	296.7	24.52	16.55	29.41	0
4/29/21 9:44	2.61	281.7	20.78	16.79	29.41	0
4/29/21 9:45	1.936	243.6	66.29	17.28	29.42	0
4/29/21 10:07	2.345	209.2	26.51	17.77	29.42	0
4/29/21 10:28	1.4	246.6	41.99	18.29	29.42	0
4/29/21 10:32	1.73	177.3	52.68	19.21	29.42	0
4/29/21 10:59	2.721	259.2	70.37	19.76	29.41	0
4/29/21 11:11	3.78	234.6	23.56	19.82	29.41	0
4/29/21 11:20	2.37	199.8	73.81	20.51	29.41	0
4/29/21 11:38	4.286	184.4	39.22	20.47	29.41	0
4/29/21 11:46	3.47	290.2	24.07	21.06	29.4	0
4/29/21 12:08	8.18	246.5	17.96	21	29.4	0
4/29/21 12:23	7.228	249.6	21.77	21.13	29.4	0
4/29/21 12:38	6.533	264.1	32.01	21.2	29.4	0
4/29/21 12:52	6.189	261.8	29.31	21.48	29.38	0
4/29/21 13:04	5.509	271.5	20.27	21.62	29.38	0
4/29/21 13:23	6.88	281.6	17.42	21.51	29.38	0
4/29/21 13:33	7.143	244.4	20.47	21.91	29.38	0
4/29/21 13:45	6.269	288.3	19.92	21.85	29.37	0
4/29/21 14:08	6.027	290.3	21.03	21.89	29.37	0
4/29/21 14:24	6.034	293.5	23.38	21.99	29.37	0
4/29/21 14:37	7.358	285.7	14.52	22.01	29.37	0
4/29/21 14:59	7.064	279.1	16	22.43	29.34	0
4/29/21 15:11	9.95	271.5	14.01	22.49	29.34	0
4/29/21 15:25	9.05	272.1	11.67	22.52	29.34	0
4/29/21 15:42	10.15	253	16.36	22.53	29.34	0
4/29/21 15:47	7.395	263.6	19.46	22.52	29.35	0
4/29/21 16:08	8.66	243.9	20.58	22.24	29.35	0
4/29/21 16:15	8.17	225	17.52	22.11	29.35	0
4/29/21 16:30	9.31	240.1	18.22	22.21	29.35	0
4/29/21 16:57	8.96	260.5	13.01	22.06	29.36	0
4/29/21 17:09	7.306	252.5	14.04	21.88	29.36	0
4/29/21 17:28	5.779	257.7	14.73	21.64	29.36	0
4/29/21 17:37	8.7	252.9	12.47	21.22	29.36	0
4/29/21 17:57	8.97	255.4	12.04	20.88	29.34	0
4/29/21 18:14	12.04	260.9	6.408	20.11	29.34	0
4/29/21 18:20	13.64	260.4	7.145	19.48	29.34	0
4/29/21 18:42	11.65	259.1	9.84	18.76	29.34	0
4/29/21 18:46	8.73	260.9	8.49	18.16	29.35	0
4/29/21 19:08	7.812	250.4	11.81	17.57	29.35	0
4/29/21 19:18	6.005	258	12.97	16.74	29.35	0
4/29/21 19:36	5.257	242	13.84	16.51	29.35	0
4/29/21 19:52	3.878	226.6	22.02	16.21	29.39	0
4/29/21 20:13	2.631	175.5	29.68	15.8	29.39	0
4/29/21 20:21	7.324	225.5	10.64	15.64	29.39	0
4/29/21 20:33	5.159	228.6	6.626	15.18	29.39	0
4/29/21 20:53	5.81	204.8	20.19	14.65	29.41	0
4/29/21 21:02	7.126	201.3	7.747	13.86	29.41	0
4/29/21 21:20	5.411	210.8	15.06	13.75	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
4/29/21 21:42	6.934	177.4	11.94	12.73	29.41	0
4/29/21 21:59	8.09	177.4	9.13	12.64	29.4	0
4/29/21 22:02	9.17	187.8	6.072	12.88	29.4	0
4/29/21 22:16	7.757	200.7	9.34	12.88	29.4	0
4/29/21 22:34	5.931	212.6	4.56	12.88	29.4	0
4/29/21 22:45	4.342	218.9	9.09	12.71	29.42	0
4/29/21 23:14	4.212	216.7	9.64	12.53	29.42	0
4/29/21 23:19	5.1	194.8	15.03	12.39	29.42	0
4/29/21 23:30	4.616	173	12.67	11.93	29.42	0
4/29/21 23:57	5.356	166.1	7.985	11.7	29.42	0
4/30/21 0:12	8.05	164	3.479	11.72	29.42	0
4/30/21 0:28	7.871	169.7	6.569	11.84	29.42	0
4/30/21 0:40	9.58	162.7	6.599	11.56	29.42	0
4/30/21 0:45	8.3	155.3	10.22	11.51	29.4	0
4/30/21 1:09	6.864	160.5	11.81	11.47	29.4	0
4/30/21 1:25	8.98	170.8	8.11	11.37	29.4	0
4/30/21 1:31	10.9	172.2	8.09	11.38	29.4	0
4/30/21 1:55	9.94	164.4	5.31	11.29	29.37	0
4/30/21 2:07	9.28	157	6.463	11.3	29.37	0
4/30/21 2:23	9.26	160.6	6.859	11.35	29.37	0
4/30/21 2:31	8.22	165.6	10.78	11.22	29.37	0
4/30/21 2:50	7.519	154.9	7.916	11.21	29.39	0
4/30/21 3:03	5.676	155.9	7.793	11.22	29.39	0
4/30/21 3:17	4.435	148	9.76	11.28	29.39	0
4/30/21 3:42	4.745	136.5	8.14	11.4	29.39	0
4/30/21 3:56	5.795	134	10.89	11.53	29.37	0
4/30/21 4:06	6.992	143.8	8.1	11.74	29.37	0
4/30/21 4:15	6.388	150.3	10.04	11.87	29.37	0
4/30/21 4:37	7.27	152.7	9.78	11.9	29.37	0
4/30/21 4:48	6.634	156.8	12.05	11.8	29.36	0
4/30/21 5:14	5.755	161	8.88	11.78	29.36	0
4/30/21 5:26	6.812	186.5	9.41	11.87	29.36	0
4/30/21 5:43	6.574	179.5	16.14	11.7	29.36	0
4/30/21 5:52	7.036	154.9	7.81	11.58	29.37	0
4/30/21 6:02	5.998	151.8	6.758	11.33	29.37	0
4/30/21 6:21	6.65	160.8	7.154	11.04	29.37	0
4/30/21 6:37	7.1	153.3	8.36	10.63	29.37	0
4/30/21 6:47	8.3	148	10.4	10.56	29.39	0.02
4/30/21 7:05	8.11	150.8	9.52	10.69	29.39	0
4/30/21 7:22	8.05	155.1	9.95	10.67	29.39	0.02
4/30/21 7:34	7.573	161.2	21.39	10.75	29.39	0.02
4/30/21 7:49	7.278	155.7	8.74	10.81	29.37	0.02
4/30/21 8:01	7.316	157.1	8.64	10.98	29.37	0
4/30/21 8:28	6.576	159.6	8.6	11.21	29.37	0.01
4/30/21 8:33	6.64	158.6	10.98	11.4	29.37	0
4/30/21 8:54	5.941	163.5	15.62	11.69	29.39	0
4/30/21 9:07	7.614	167.4	13.54	11.91	29.39	0.01
4/30/21 9:29	8.05	178.4	11.83	12.07	29.39	0.01
4/30/21 9:36	8.71	168.7	12.93	12.33	29.39	0
4/30/21 9:48	7.302	176.8	12.61	12.39	29.39	0
4/30/21 10:06	7.266	173.2	12.4	12.47	29.39	0
4/30/21 10:24	9.27	167	11.61	12.51	29.39	0
4/30/21 10:38	8.91	166.8	13.12	12.81	29.39	0
4/30/21 10:58	10.18	180.3	12.16	13.04	29.38	0
4/30/21 11:09	12.17	194.6	10.75	13.18	29.38	0
4/30/21 11:27	12.05	202.9	10.94	13.44	29.38	0
4/30/21 11:35	10.63	214.7	12.7	13.73	29.38	0
4/30/21 11:52	10.88	222.5	13.02	13.93	29.39	0
4/30/21 12:05	9.29	213.2	15.82	13.9	29.39	0
4/30/21 12:18	10.01	216.4	11.02	14.11	29.39	0
4/30/21 12:40	10.4	218.2	12.77	14.35	29.39	0
4/30/21 12:48	11.21	216.5	12.21	14.34	29.36	0
4/30/21 13:05	11.25	204.9	11.04	14.76	29.36	0
4/30/21 13:15	11.01	195.8	14.67	14.75	29.36	0
4/30/21 13:40	11.24	206.4	11.25	14.97	29.36	0
4/30/21 13:58	10.83	203.6	11.24	15.32	29.35	0
4/30/21 14:07	11.45	206.9	9.01	15.38	29.35	0
4/30/21 14:28	10.63	213.5	9.5	15.53	29.35	0
4/30/21 14:39	9.82	211.1	12.29	15.77	29.35	0
4/30/21 14:59	9.72	220.5	15.55	16.16	29.34	0
4/30/21 15:00	11.54	215.3	14.26	16.39	29.34	0
4/30/21 15:20	9.3	239.3	17.37	17.01	29.34	0
4/30/21 15:34	11.7	209.5	9.47	16.82	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
4/30/21 15:55	10.51	206.2	10.77	16.4	29.33	0
4/30/21 16:02	11.52	204.9	8.61	16.33	29.33	0
4/30/21 16:22	10.76	202.8	9.52	16.24	29.33	0
4/30/21 16:44	10.68	213.6	13.52	16.54	29.33	0
4/30/21 16:46	13.73	222.5	6.937	16.48	29.32	0
4/30/21 17:02	10.68	226.6	17.4	16.9	29.32	0
4/30/21 17:27	10.94	221.5	12.18	16.54	29.32	0
4/30/21 17:31	10.52	229.1	8.37	16.25	29.32	0
4/30/21 17:59	9.92	226	9.04	15.87	29.3	0
4/30/21 18:09	9.44	216.4	8.79	16.03	29.3	0
4/30/21 18:26	9.02	217.4	11.76	16.22	29.3	0
4/30/21 18:44	6.633	241.6	12.34	16.29	29.3	0
4/30/21 18:45	6.44	250.1	8.31	15.87	29.29	0
4/30/21 19:05	5.978	258.9	6.109	15.31	29.29	0
4/30/21 19:26	5.873	261.4	6.366	14.73	29.29	0
4/30/21 19:42	6.332	266.8	7.384	14.38	29.29	0
4/30/21 19:51	5.208	268	9.41	14.15	29.3	0
4/30/21 20:13	4.418	272.1	7.554	13.75	29.3	0
4/30/21 20:27	4.892	274.4	8.65	13.42	29.3	0
4/30/21 20:34	5.542	260.5	12.38	13.22	29.3	0
4/30/21 20:59	5.78	245.7	8.39	12.93	29.31	0
4/30/21 21:14	6.934	245.2	7.961	12.71	29.31	0
4/30/21 21:16	4.82	234.8	8.83	12.43	29.31	0
4/30/21 21:31	4.146	214.9	16.69	12.19	29.31	0
4/30/21 21:50	4.909	203.6	6.991	11.61	29.29	0
4/30/21 22:03	4.437	200	8.59	11.39	29.29	0
4/30/21 22:23	5.231	211.5	12.13	11.23	29.29	0
4/30/21 22:33	4.578	217.1	5.579	11.17	29.29	0
4/30/21 22:51	3.328	198.6	47.78	11.08	29.31	0
4/30/21 23:09	1.652	150.1	41.86	10.5	29.31	0
4/30/21 23:24	2.844	213.5	16.78	10.68	29.31	0
4/30/21 23:44	1.809	280.9	17.6	10.44	29.31	0
4/30/21 23:51	4.61	297.5	14.49	9.87	29.3	0
5/1/21 0:01	5.931	283.7	7.347	9.9	29.3	0
5/1/21 0:18	5.411	285.5	8.14	9.71	29.3	0
5/1/21 0:37	6.236	285.8	9.79	9.58	29.3	0
5/1/21 0:46	5.04	277.5	11.05	9.38	29.28	0
5/1/21 1:03	4.096	283	12.77	9.4	29.28	0
5/1/21 1:18	3.597	248.4	13.33	9.37	29.28	0
5/1/21 1:30	0.011	258.6	0.186	9.15	29.28	0
5/1/21 1:59	0.151	127.9	13.15	9.13	29.29	0
5/1/21 2:14	1.524	183.3	31.35	9.17	29.29	0
5/1/21 2:24	2.793	231.8	13.84	9.18	29.29	0
5/1/21 2:35	3.053	236.6	8.49	9.11	29.29	0
5/1/21 2:45	2.685	246.7	13.63	9.04	29.3	0
5/1/21 3:04	2.154	272	6.743	8.99	29.3	0
5/1/21 3:29	3.217	325.6	12.38	8.85	29.3	0
5/1/21 3:37	3.893	335.1	16.79	8.67	29.3	0
5/1/21 3:45	1.807	6.777	7.979	8.28	29.3	0
5/1/21 4:14	0.181	347.6	17.37	8.23	29.3	0
5/1/21 4:28	1.351	6.743	18.19	8.27	29.3	0
5/1/21 4:41	4.18	1.733	18.6	8.3	29.3	0
5/1/21 4:46	4.77	19.51	10.36	8.19	29.31	0.01
5/1/21 5:08	3.984	50.67	16.52	8.1	29.31	0
5/1/21 5:15	3.374	57.21	15.39	8.01	29.31	0
5/1/21 5:35	4.666	37.02	11.05	7.979	29.31	0
5/1/21 5:45	2.91	35.07	9.23	7.842	29.31	0
5/1/21 6:14	0.959	336.8	57.15	7.967	29.31	0
5/1/21 6:23	4.894	175.8	15.1	7.876	29.31	0
5/1/21 6:41	6.255	170.3	13.71	7.737	29.31	0
5/1/21 6:57	5.971	157.7	10.87	7.789	29.31	0
5/1/21 7:01	4.752	153.1	11.88	7.786	29.31	0
5/1/21 7:17	5.112	156.6	12.76	7.841	29.31	0
5/1/21 7:32	5.823	156.3	9.82	8.07	29.31	0
5/1/21 7:51	5.353	195.4	11.63	8.28	29.31	0
5/1/21 8:14	5.803	195.6	14.06	8.63	29.31	0
5/1/21 8:25	7.023	195.8	6.306	8.77	29.31	0
5/1/21 8:33	5.793	200	7.506	9.09	29.31	0
5/1/21 8:59	4.509	218.8	20.12	9.97	29.29	0
5/1/21 9:07	7.085	254.7	16.03	9.84	29.29	0
5/1/21 9:15	6.604	246.1	10.33	9.84	29.29	0
5/1/21 9:36	5.675	242.3	11.48	9.99	29.29	0
5/1/21 9:48	3.265	243.9	23.65	10.11	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
5/1/21 10:12	4.256	283.4	20.91	10.5	29.32	0
5/1/21 10:18	7.24	275.7	7.008	10.37	29.32	0
5/1/21 10:43	6.979	282.9	8.22	10.5	29.32	0
5/1/21 10:49	6.005	283.5	10.7	10.85	29.32	0
5/1/21 11:14	5.506	274.7	14.5	11.06	29.32	0
5/1/21 11:19	5.32	292.6	16.89	11.49	29.32	0
5/1/21 11:35	4.248	274.1	21.43	11.49	29.32	0
5/1/21 11:59	4.66	293.3	28.87	11.35	29.33	0
5/1/21 12:12	7.918	27.67	8.2	10.35	29.33	0
5/1/21 12:28	7.302	27.86	13.58	10.5	29.33	0
5/1/21 12:40	7.122	36.24	12.7	11.17	29.33	0
5/1/21 12:56	6.175	65.09	24.09	12.09	29.32	0
5/1/21 13:01	4.185	56.15	47.4	11.74	29.32	0
5/1/21 13:16	4.652	16.43	33.94	12.21	29.32	0
5/1/21 13:30	2.713	347.9	20.04	12.2	29.32	0
5/1/21 13:46	1.704	332.5	24.94	12.38	29.29	0
5/1/21 14:02	1.87	27.49	29.75	12.13	29.29	0
5/1/21 14:15	1.341	50.24	41.47	12.41	29.29	0
5/1/21 14:44	1.565	112.5	43.92	12.72	29.29	0
5/1/21 14:51	2.903	78.37	25.55	12.69	29.3	0
5/1/21 15:07	2.152	88.8	25.96	12.9	29.3	0
5/1/21 15:21	1.839	100.5	36.12	12.93	29.3	0
5/1/21 15:42	0.789	136.3	48.93	13.33	29.3	0
5/1/21 15:54	2.332	126.4	38.46	12.98	29.28	0
5/1/21 16:01	1.631	74.34	18.22	12.67	29.28	0
5/1/21 16:29	1.542	55.53	19.35	12.74	29.28	0
5/1/21 16:38	3.733	89.7	8.31	12.48	29.28	0
5/1/21 16:51	2.973	60.01	15.85	12.56	29.27	0
5/1/21 17:00	1.651	62.99	11.42	12.59	29.27	0
5/1/21 17:29	1.513	42.98	35.68	12.65	29.27	0
5/1/21 17:40	4.037	29.9	10.94	12.39	29.27	0
5/1/21 17:47	5.072	28.25	8.18	11.88	29.29	0
5/1/21 18:15	3.353	32.12	7.558	11.75	29.29	0
5/1/21 18:19	3.876	342.7	50.34	11.61	29.29	0
5/1/21 18:44	2.653	138.8	93	11.61	29.29	0
5/1/21 18:59	3.98	85.2	58.3	11.31	29.28	0
5/1/21 19:00	2.684	76.04	27.26	11.04	29.28	0
5/1/21 19:16	4.476	55.04	16.23	10.84	29.28	0
5/1/21 19:43	3.262	102.1	21.95	10.67	29.28	0
5/1/21 19:50	6.611	179.8	36.81	11.04	29.29	0
5/1/21 20:09	8.76	232.7	14.63	11.18	29.29	0
5/1/21 20:19	7.134	255.8	11.98	10.97	29.29	0
5/1/21 20:41	6.603	254	11.92	10.81	29.29	0
5/1/21 20:48	7.778	251.3	12.91	10.64	29.34	0
5/1/21 21:12	3.85	303.6	28.96	10.47	29.34	0
5/1/21 21:29	1.988	353.4	31.11	10.23	29.34	0
5/1/21 21:37	6.334	24.88	13.64	9.45	29.34	0
5/1/21 21:56	6.917	14.43	13.36	9.06	29.33	0
5/1/21 22:08	4.924	5.033	13	8.97	29.33	0
5/1/21 22:18	5.845	0.259	14.24	8.33	29.33	0.01
5/1/21 22:44	5.657	8.55	17.96	7.922	29.33	0
5/1/21 22:58	8.04	21.53	10.51	7.814	29.34	0
5/1/21 23:00	4.465	345.7	19.81	7.773	29.34	0
5/1/21 23:15	2.688	33.1	25.17	7.452	29.34	0
5/1/21 23:31	0.893	341.8	10.9	7.602	29.34	0
5/1/21 23:57	1.905	0.468	11.67	7.494	29.35	0
5/2/21 0:09	4.342	19.25	6.536	7.194	29.35	0
5/2/21 0:25	5.303	33.1	6.979	7.07	29.35	0
5/2/21 0:36	5.214	34.51	7.229	7.063	29.35	0
5/2/21 0:54	5.848	34.08	10.06	7.067	29.37	0
5/2/21 1:13	5.894	29.15	9.09	7.179	29.37	0
5/2/21 1:15	7.625	31.99	9.42	7.046	29.37	0
5/2/21 1:34	7.05	30.73	8.6	7.092	29.37	0
5/2/21 1:57	6.475	35.81	8.47	7.157	29.38	0
5/2/21 2:00	5.65	38.82	12.55	7.009	29.38	0
5/2/21 2:23	6.958	35.71	9.74	6.918	29.38	0
5/2/21 2:30	6.446	42.46	15.13	7.122	29.38	0
5/2/21 2:49	5.657	41.68	12.35	6.878	29.39	0
5/2/21 3:05	4.951	47.68	11.92	6.923	29.39	0
5/2/21 3:20	3.907	44.18	13.28	6.721	29.39	0
5/2/21 3:33	5.452	32.35	15.39	6.733	29.39	0
5/2/21 3:54	4.359	36.53	13.93	6.504	29.37	0
5/2/21 4:13	4.779	31.97	7.576	6.477	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
5/2/21 4:19	2.817	30.61	20.69	6.636	29.37	0
5/2/21 4:36	3.714	26.26	14.89	6.497	29.37	0
5/2/21 4:59	3.39	62.74	14.53	5.938	29.4	0
5/2/21 5:00	2.398	98	12.72	5.581	29.4	0
5/2/21 5:15	1.245	68.89	33.02	6.19	29.4	0
5/2/21 5:44	1.534	208.5	68.05	7.085	29.4	0
5/2/21 5:54	3.752	2.928	45.1	7.122	29.38	0
5/2/21 6:02	1.682	36.23	21.25	6.975	29.38	0
5/2/21 6:21	1.995	4.582	16.69	7.159	29.38	0
5/2/21 6:42	3.707	6.112	11.17	7.2	29.38	0
5/2/21 6:59	3.678	357.3	20.02	7.835	29.4	0
5/2/21 7:00	4.809	359	13.22	8.42	29.4	0
5/2/21 7:26	5.649	12.64	24.9	8.67	29.4	0
5/2/21 7:31	7.516	4.793	15.3	8.88	29.4	0
5/2/21 7:54	6.782	6.443	19.34	9.37	29.41	0
5/2/21 8:04	7.457	34.97	11.15	8.6	29.41	0
5/2/21 8:17	5.15	13.29	21.25	8.69	29.41	0
5/2/21 8:36	4.564	23.12	16.37	8.6	29.41	0
5/2/21 8:57	4.374	15.57	16.07	8.83	29.41	0
5/2/21 9:08	5.604	4.495	16.22	8.9	29.41	0
5/2/21 9:27	5.598	10.4	15.65	9.2	29.41	0
5/2/21 9:36	5.468	6.514	12.61	9.27	29.41	0
5/2/21 9:57	3.289	17.89	22.55	9.65	29.41	0
5/2/21 10:05	3.972	359.5	21.48	9.98	29.41	0
5/2/21 10:17	3.046	8.57	27.47	10.02	29.41	0
5/2/21 10:35	3.426	28.96	25.96	10.4	29.41	0
5/2/21 10:52	2.245	43.2	24.84	10.82	29.42	0
5/2/21 11:09	3.467	288.7	45.19	11.78	29.42	0
5/2/21 11:20	5.032	301.5	28.57	11.7	29.42	0
5/2/21 11:44	6.74	320	13.11	11.57	29.42	0
5/2/21 11:49	4.893	276.6	22.81	11.93	29.42	0
5/2/21 12:03	3.568	298.6	25.94	11.83	29.42	0
5/2/21 12:19	6.861	326.1	13.55	11.77	29.42	0
5/2/21 12:31	5.387	340.3	15.92	11.72	29.42	0
5/2/21 12:46	3.846	349	24.08	11.97	29.41	0
5/2/21 13:00	2.041	270.1	55.73	12.32	29.41	0
5/2/21 13:20	3.326	2.489	30.04	12.32	29.41	0
5/2/21 13:43	1.791	64.24	46.8	12.46	29.41	0
5/2/21 13:50	4.144	28.14	26.74	12.14	29.41	0
5/2/21 14:13	2.913	55.61	18.18	12.31	29.41	0
5/2/21 14:27	3.539	81.5	33.93	12.52	29.41	0
5/2/21 14:40	3.875	122.7	26.09	12.84	29.41	0
5/2/21 14:49	3.772	174.3	31.48	12.92	29.37	0
5/2/21 15:10	2.484	152.6	57.66	14.03	29.37	0
5/2/21 15:24	1.767	118.6	82.4	14.5	29.37	0
5/2/21 15:36	2.036	337.6	82.8	14.67	29.37	0
5/2/21 15:47	1.578	319.5	50.04	15.04	29.38	0
5/2/21 16:04	3.795	173.2	42.91	14.67	29.38	0
5/2/21 16:21	2.314	162.7	53.65	14.71	29.38	0
5/2/21 16:35	3.219	202.4	28.6	14.53	29.38	0
5/2/21 16:49	3.641	169	24.49	14.25	29.35	0
5/2/21 17:11	3.427	100.2	24.04	14.43	29.35	0
5/2/21 17:16	4.153	101.5	29.5	14.12	29.35	0
5/2/21 17:31	3.685	122.9	14.55	14.18	29.35	0
5/2/21 17:46	2.099	49.57	31.23	14.28	29.36	0
5/2/21 18:03	3.055	20.43	10.18	14.08	29.36	0
5/2/21 18:20	4.167	28.4	12.14	13.61	29.36	0
5/2/21 18:31	2.211	67.02	12.35	13.43	29.36	0
5/2/21 18:58	2.346	65.49	5.553	13.39	29.35	0
5/2/21 19:10	2.627	61.35	7.16	13.1	29.35	0
5/2/21 19:28	2.66	63.19	15.26	12.11	29.35	0
5/2/21 19:39	3.161	88.5	12.62	11.75	29.35	0
5/2/21 19:46	3.16	92.6	5.817	11.78	29.35	0
5/2/21 20:10	1.713	72.52	5.441	10.96	29.35	0
5/2/21 20:29	1.683	69.4	4.118	10.63	29.35	0
5/2/21 20:39	2.47	98.9	16.88	10.26	29.35	0
5/2/21 20:54	3.204	96.8	4.29	9.99	29.37	0
5/2/21 21:13	3.05	115.7	15.23	9.5	29.37	0
5/2/21 21:15	3.496	125	6.743	9.76	29.37	0
5/2/21 21:43	5.169	162.2	45.48	9.68	29.37	0
5/2/21 21:55	9.29	209.1	12.8	8.97	29.36	0
5/2/21 22:01	6.194	170.4	14.82	8.96	29.36	0
5/2/21 22:28	4.791	90.3	13.01	7.926	29.36	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
5/2/21 22:43	5.631	98.2	12.16	8.06	29.36	0
5/2/21 22:47	5.195	123.3	8.78	8.42	29.37	0
5/2/21 23:11	6.15	147.8	9.33	8.63	29.37	0
5/2/21 23:25	6.302	141.1	7.171	8.69	29.37	0
5/2/21 23:31	6.039	139.9	7.178	8.72	29.37	0
5/2/21 23:54	5.956	143.3	7.243	8.58	29.37	0
5/3/21 0:03	5.699	145.6	6.146	8.45	29.37	0
5/3/21 0:15	4.478	141.6	6.278	8.41	29.37	0
5/3/21 0:40	4.789	143.6	6.388	8.23	29.37	0
5/3/21 0:47	4.804	146.3	4.502	7.752	29.38	0
5/3/21 1:00	4.587	149.7	3.961	7.634	29.38	0
5/3/21 1:26	4.985	148.2	5.952	7.456	29.38	0
5/3/21 1:30	4.847	150.6	4.988	7.226	29.38	0
5/3/21 1:50	3.779	160.3	8.26	7.325	29.37	0
5/3/21 2:11	4.184	147.3	14.74	7.298	29.37	0
5/3/21 2:29	4.243	136.3	6.181	7.064	29.37	0
5/3/21 2:35	4.43	141.6	5.689	7.172	29.37	0
5/3/21 2:47	4.348	156.3	11.31	7.053	29.37	0
5/3/21 3:08	4.05	132	7.237	7.068	29.37	0
5/3/21 3:16	3.382	129.1	11.5	6.958	29.37	0
5/3/21 3:38	4	123.4	5.23	6.872	29.37	0
5/3/21 3:55	4.302	129.5	7.137	6.875	29.38	0
5/3/21 4:12	4.388	142.1	12.44	6.869	29.38	0
5/3/21 4:28	4.863	137.7	5.868	6.9	29.38	0
5/3/21 4:34	4.313	160.4	10.79	6.808	29.38	0
5/3/21 4:59	4.794	155.4	11	7.038	29.35	0
5/3/21 5:00	4.065	152.8	9.34	6.854	29.35	0
5/3/21 5:18	4.236	137.4	9.57	6.881	29.35	0
5/3/21 5:39	4.155	138.5	12.02	6.878	29.35	0
5/3/21 5:57	3.671	165.5	12.23	7.164	29.37	0
5/3/21 6:02	4.081	165.2	12.29	7.389	29.37	0
5/3/21 6:26	4.261	186.7	10.86	7.328	29.37	0
5/3/21 6:31	4.524	180.9	11.43	7.083	29.37	0
5/3/21 6:47	4.15	176.6	10.62	7.158	29.39	0
5/3/21 7:14	4.188	162.8	12.17	7.379	29.39	0
5/3/21 7:17	4.284	138.6	10.92	8.06	29.39	0
5/3/21 7:41	3.099	132.8	15.13	8.7	29.39	0
5/3/21 7:58	3.099	125.4	26.82	9.36	29.39	0
5/3/21 8:13	4.904	135.5	18.72	9.79	29.39	0
5/3/21 8:18	5.289	157.3	22.3	10.15	29.39	0
5/3/21 8:43	7.199	158.5	15.56	10.91	29.39	0
5/3/21 8:58	6.062	197.9	15.95	10.83	29.38	0
5/3/21 9:11	6.172	184.1	20.7	11.19	29.38	0
5/3/21 9:16	5.004	156.9	16	11.52	29.38	0
5/3/21 9:41	5.805	217.6	18.65	11.5	29.38	0
5/3/21 9:47	5.783	206.1	37.16	11.55	29.38	0
5/3/21 10:02	5.37	177	17.03	11.58	29.38	0
5/3/21 10:17	6.559	185.3	14.66	11.75	29.38	0
5/3/21 10:40	5.787	168.7	18.83	11.65	29.38	0
5/3/21 10:47	6.256	187.9	16.95	11.91	29.38	0
5/3/21 11:00	5.741	187	16.34	11.83	29.38	0
5/3/21 11:15	5.243	155.7	20.35	11.97	29.38	0
5/3/21 11:32	5.666	181.2	19.11	12.25	29.38	0
5/3/21 11:59	4.565	167.1	47.64	12.36	29.37	0
5/3/21 12:01	6.237	172.6	14.32	12.25	29.37	0
5/3/21 12:28	5.661	155.4	29.8	12.71	29.37	0
5/3/21 12:31	4.44	202.5	25.11	12.56	29.37	0
5/3/21 12:54	5.957	194.7	31.34	13.11	29.35	0
5/3/21 13:01	7.145	190.5	12.52	12.73	29.35	0
5/3/21 13:27	5.473	184.4	11.81	12.73	29.35	0
5/3/21 13:33	5.982	187.4	11.42	12.74	29.35	0
5/3/21 13:47	5.725	203	13.54	12.62	29.35	0
5/3/21 14:01	4.546	235.9	14.23	12.32	29.35	0
5/3/21 14:19	5.959	228.2	11.79	12.12	29.35	0.01
5/3/21 14:31	5.5	250	6.246	11.59	29.35	0.01
5/3/21 14:54	5.112	241.4	11.99	11.21	29.36	0.01
5/3/21 15:12	4.782	234.8	9.43	10.93	29.36	0.02
5/3/21 15:19	4.561	224.2	8.72	10.77	29.36	0.02
5/3/21 15:44	3.714	196.1	10	10.65	29.36	0.03
5/3/21 15:59	4.395	182.3	8.51	10.68	29.36	0.02
5/3/21 16:03	3.034	137.4	20.22	10.79	29.36	0
5/3/21 16:20	3.623	122.7	10.46	10.67	29.36	0.01
5/3/21 16:39	4.751	126.1	12.58	10.67	29.36	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
5/3/21 16:50	4.61	140.3	10.02	10.63	29.34	0
5/3/21 17:12	4.788	140.6	11.72	10.58	29.34	0.01
5/3/21 17:17	4.629	137.1	11.22	10.65	29.34	0
5/3/21 17:41	4.24	122.3	8.19	10.65	29.34	0
5/3/21 17:59	3.576	116.3	21.69	10.61	29.35	0.01
5/3/21 18:11	4.825	134.7	8.76	10.61	29.35	0
5/3/21 18:17	4.413	131.6	9.63	10.63	29.35	0
5/3/21 18:44	3.857	126.7	7.418	10.68	29.35	0.01
5/3/21 18:45	3.861	114.2	14.57	10.6	29.32	0
5/3/21 19:06	4.112	103.9	7.895	10.46	29.32	0
5/3/21 19:19	3.893	109.7	7.297	10.42	29.32	0
5/3/21 19:35	4.19	114.1	9.48	10.39	29.32	0
5/3/21 19:51	3.951	125	11.61	10.43	29.35	0
5/3/21 20:06	5.316	120.8	9.17	10.4	29.35	0
5/3/21 20:18	4.541	110.4	11.13	10.3	29.35	0
5/3/21 20:35	3.514	93.9	12.91	10.23	29.35	0
5/3/21 20:58	3.456	101.5	9.87	10.21	29.33	0
5/3/21 21:00	2.945	122	17.43	10.23	29.33	0.01
5/3/21 21:28	3.084	107.4	10.6	10.22	29.33	0
5/3/21 21:35	3.917	113.5	9	10.2	29.33	0.01
5/3/21 21:47	4.189	126.1	8.05	10.24	29.35	0
5/3/21 22:05	2.921	119.9	12.58	10.25	29.35	0
5/3/21 22:28	1.875	117.6	23.85	10.27	29.35	0.01
5/3/21 22:36	1.267	72.16	71.43	10.36	29.35	0.02
5/3/21 22:47	2.277	186.8	36.89	10.41	29.34	0.02
5/3/21 23:07	3.104	173.7	22.4	10.43	29.34	0
5/3/21 23:15	2.752	180.4	10.67	10.47	29.34	0.01
5/3/21 23:41	2.574	213.7	27.65	10.62	29.34	0
5/3/21 23:51	3.399	240	12.46	10.72	29.35	0
5/4/21 0:13	4.469	239.7	10.46	10.75	29.35	0
5/4/21 0:19	5.119	239.4	9.5	10.73	29.35	0.01
5/4/21 0:44	5.559	243.8	8.03	10.69	29.35	0
5/4/21 0:56	6.76	238.8	8.95	10.61	29.35	0
5/4/21 1:02	7.951	244.2	8.12	10.49	29.35	0
5/4/21 1:16	6.966	247.3	7.557	10.48	29.35	0
5/4/21 1:30	6.696	251.4	9.04	10.44	29.35	0
5/4/21 1:59	6.424	254.7	10.26	10.4	29.36	0
5/4/21 2:00	6.92	249.2	8.91	10.33	29.36	0
5/4/21 2:20	7.528	253.2	7.282	10.27	29.36	0
5/4/21 2:35	5.482	261.7	10.74	10.23	29.36	0
5/4/21 2:55	5.584	251.5	8.02	10.22	29.38	0.03
5/4/21 3:01	4.798	247.2	9.22	10.23	29.38	0.01
5/4/21 3:18	5.84	242.6	9.41	10.17	29.38	0
5/4/21 3:34	4.512	241.6	10.63	10.14	29.38	0
5/4/21 3:49	6.06	260.6	18.24	10.01	29.36	0.05
5/4/21 4:01	4.476	258.3	21.23	9.93	29.36	0.04
5/4/21 4:16	3.407	264.4	9.05	9.98	29.36	0.01
5/4/21 4:34	3.756	257.8	12.05	10	29.36	0
5/4/21 4:58	2.971	347.7	63.06	9.91	29.39	0
5/4/21 5:06	9.18	354.2	13.09	9.71	29.39	0
5/4/21 5:16	9.28	3.319	15.44	9.35	29.39	0
5/4/21 5:36	10.3	19.13	7.925	9.14	29.39	0.01
5/4/21 5:58	8.37	22.75	11.1	9.07	29.4	0
5/4/21 6:08	7.678	16.31	14.49	8.89	29.4	0
5/4/21 6:22	9.2	24.82	12.18	8.65	29.4	0
5/4/21 6:43	9.93	29.01	10.2	8.68	29.4	0
5/4/21 6:56	9.56	25.78	7.527	8.61	29.41	0
5/4/21 7:04	9.07	18.43	11.13	8.82	29.41	0
5/4/21 7:19	8.59	23.47	12.22	9.18	29.41	0
5/4/21 7:33	6.322	15.58	10.75	9.27	29.41	0
5/4/21 7:59	5.279	13.95	10.73	9.32	29.43	0
5/4/21 8:07	6.997	7.263	12.18	9.15	29.43	0
5/4/21 8:19	8.05	4.244	12.32	9.41	29.43	0
5/4/21 8:32	9.12	341.8	10.85	9.9	29.43	0
5/4/21 8:50	7.141	338.8	14.3	9.97	29.42	0
5/4/21 9:00	7.403	322.2	11.97	10.05	29.42	0
5/4/21 9:20	7.688	323.6	11.99	10.13	29.42	0
5/4/21 9:43	6.109	339	12.1	10.6	29.42	0
5/4/21 9:55	7.201	328.9	9.48	11.2	29.43	0
5/4/21 10:01	6.06	325.8	10.85	11.43	29.43	0
5/4/21 10:23	5.206	332.1	30.49	11.82	29.43	0
5/4/21 10:42	5.513	17.8	23.26	12.08	29.43	0
5/4/21 10:47	7.09	31.91	17.73	12.09	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
5/4/21 11:01	4.915	11.21	28.58	11.84	29.45	0
5/4/21 11:22	5.275	351	24.13	12.06	29.45	0
5/4/21 11:30	4.533	326.3	16.79	12.68	29.45	0
5/4/21 11:56	3.339	339.4	42.03	13.21	29.44	0
5/4/21 12:13	5.611	14.86	22.6	13.29	29.44	0
5/4/21 12:16	5.35	331.4	17.73	13.13	29.44	0
5/4/21 12:34	3.193	323.2	22.42	13.56	29.44	0
5/4/21 12:59	3.394	278.9	20.11	14.29	29.43	0
5/4/21 13:06	5.064	324.8	26.48	13.95	29.43	0
5/4/21 13:15	4.847	305.7	23.06	14.3	29.43	0
5/4/21 13:43	4.834	316.8	20.78	14.36	29.43	0
5/4/21 13:49	6.631	291	27.07	15.23	29.41	0
5/4/21 14:01	8.04	305.8	13.22	14.5	29.41	0
5/4/21 14:27	7.189	296.7	22.52	15.12	29.41	0
5/4/21 14:34	7.328	341	28.45	14.79	29.41	0
5/4/21 14:46	7.301	325.3	20.7	15.12	29.4	0
5/4/21 15:08	6.662	303.3	20.82	15.72	29.4	0
5/4/21 15:27	6.51	298.5	23.63	15.94	29.4	0
5/4/21 15:39	5.469	307.6	34.44	16.19	29.4	0
5/4/21 15:58	6.901	333.1	18.47	16.03	29.41	0
5/4/21 16:04	6.993	287.6	21.45	16.43	29.41	0
5/4/21 16:24	6.319	303.4	26.06	16.17	29.41	0
5/4/21 16:38	6.618	277.9	11.42	16.17	29.41	0
5/4/21 16:53	5.126	301.3	29	16.08	29.4	0
5/4/21 17:08	5.459	346.3	28.75	15.87	29.4	0
5/4/21 17:22	6.706	12.25	12.96	15.33	29.4	0
5/4/21 17:35	6.691	12.55	17.89	15.28	29.4	0
5/4/21 17:55	7.947	355	12.19	15.35	29.37	0
5/4/21 18:08	7.406	353.2	16.24	15.06	29.37	0
5/4/21 18:17	6.11	336.5	15.82	15.01	29.37	0
5/4/21 18:43	8.33	318.9	5.025	14.68	29.37	0
5/4/21 18:50	8.48	321	5.261	14.26	29.37	0
5/4/21 19:11	9.39	313.7	5.542	13.47	29.37	0
5/4/21 19:15	8.39	310.3	4.779	12.83	29.37	0
5/4/21 19:31	6.801	321.2	7.743	12.43	29.37	0
5/4/21 19:56	5.749	333.8	10.61	12.3	29.37	0
5/4/21 20:12	7.086	340.7	10.01	12.14	29.37	0
5/4/21 20:18	7.775	353.1	14.81	12.13	29.37	0
5/4/21 20:36	6.217	27.69	8.27	11.15	29.37	0
5/4/21 20:58	6.08	31.83	9.13	10.52	29.39	0
5/4/21 21:09	7.204	33.43	10.26	10.65	29.39	0
5/4/21 21:24	7.146	25.86	11.17	10.49	29.39	0
5/4/21 21:36	7.085	36.2	10.57	10.06	29.39	0
5/4/21 21:51	9.11	32.56	7.113	9.93	29.37	0
5/4/21 22:01	8.17	28.21	10.75	9.75	29.37	0
5/4/21 22:26	7.707	37.34	7.886	9.2	29.37	0
5/4/21 22:35	9.49	31.27	7.351	9.36	29.37	0
5/4/21 22:53	8.82	39.69	8.2	9.44	29.37	0
5/4/21 23:10	9.12	34.26	8.42	9.28	29.37	0
5/4/21 23:30	8.24	31.14	9.98	8.9	29.37	0
5/4/21 23:43	8.99	32.07	8.22	8.38	29.37	0
5/4/21 23:46	6.803	28.78	9.59	8.01	29.35	0
5/5/21 0:00	6.245	21.65	8.87	7.579	29.35	0
5/5/21 0:27	4.451	25.98	9.41	7.296	29.35	0
5/5/21 0:42	5.081	29.35	9.79	7.238	29.35	0
5/5/21 0:58	5.871	21.65	9.55	7.051	29.36	0
5/5/21 1:09	6.707	29.22	5.846	6.882	29.36	0
5/5/21 1:22	6.228	13.72	6.883	6.621	29.36	0
5/5/21 1:30	4.41	16.15	7.026	6.534	29.36	0
5/5/21 1:47	4.424	11.07	2.992	6.674	29.36	0
5/5/21 2:07	3.519	17.12	9.43	6.605	29.36	0
5/5/21 2:17	3.441	21.32	9.6	6.283	29.36	0
5/5/21 2:43	4.284	31.32	9.41	5.985	29.36	0
5/5/21 2:56	5.535	38.18	9.85	5.755	29.31	0
5/5/21 3:05	7.14	29.38	9.61	5.459	29.31	0
5/5/21 3:19	5.841	11.58	7.724	5.22	29.31	0
5/5/21 3:37	5.428	16.23	10.86	5.48	29.31	0
5/5/21 3:57	5.079	38.49	13.26	5.242	29.3	0
5/5/21 4:07	4.57	29.24	11.81	5.106	29.3	0
5/5/21 4:22	4.526	0.543	10.84	4.885	29.3	0
5/5/21 4:30	4.667	333.1	12.07	4.595	29.3	0
5/5/21 4:49	3.408	346.5	28.65	4.851	29.31	0
5/5/21 5:13	3.756	12.14	5.068	4.528	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
5/5/21 5:26	4.941	19.07	5.45	4.801	29.31	0
5/5/21 5:44	4.361	17.89	9.64	4.641	29.31	0
5/5/21 5:53	4.529	17.98	13.41	4.996	29.28	0
5/5/21 6:13	4.101	42.67	7.755	5.134	29.28	0
5/5/21 6:15	3.354	33.25	11.88	5.444	29.28	0
5/5/21 6:42	0.693	17.62	7.069	5.775	29.28	0
5/5/21 6:47	1.494	10.05	15.36	5.966	29.29	0
5/5/21 7:12	2.134	26.88	4.811	6.853	29.29	0
5/5/21 7:21	2.818	16.2	11.1	7.607	29.29	0
5/5/21 7:34	1.8	300.3	18.34	9.29	29.29	0
5/5/21 7:48	3.068	338.5	30.88	10.44	29.27	0
5/5/21 8:12	2.891	345.1	28.7	10.97	29.27	0
5/5/21 8:22	2.109	317.1	35.26	11.54	29.27	0
5/5/21 8:36	1.593	329.4	34.7	12.44	29.27	0
5/5/21 8:56	2.366	341.8	34.38	13.1	29.25	0
5/5/21 9:03	2.54	9.84	15.73	13.11	29.25	0
5/5/21 9:16	3.082	339	23.32	13.94	29.25	0
5/5/21 9:36	2.852	334	17.09	14.92	29.25	0
5/5/21 9:56	3.578	359.4	15.16	15.55	29.24	0
5/5/21 10:09	4.901	15.19	12.32	15.47	29.24	0
5/5/21 10:25	3.4	12.55	20.04	16.23	29.24	0
5/5/21 10:41	4.249	322.6	39.79	17.55	29.24	0
5/5/21 10:52	5.536	306.1	12.23	17.41	29.21	0
5/5/21 11:02	5.533	298.5	14.52	18.32	29.21	0
5/5/21 11:15	4.079	329.7	31.38	18.73	29.21	0
5/5/21 11:43	6.38	25.24	8.76	18.04	29.21	0
5/5/21 11:47	8.89	16.14	9.51	17.62	29.17	0
5/5/21 12:01	7.733	344.9	44.55	18.74	29.17	0
5/5/21 12:16	5.161	282.9	31.91	20.14	29.17	0
5/5/21 12:40	5.469	39.64	18.04	19.58	29.17	0
5/5/21 12:55	6.847	15.92	11.46	19.51	29.16	0
5/5/21 13:03	7.25	16.73	9.68	20.1	29.16	0
5/5/21 13:19	4.883	8.93	11.29	20.91	29.16	0
5/5/21 13:44	3.057	75.11	39.76	22.63	29.16	0
5/5/21 13:59	4.655	88.1	39.41	23.26	29.14	0
5/5/21 14:12	9.45	85	17.02	23.94	29.14	0
5/5/21 14:17	9.6	100.2	17.47	23.91	29.14	0
5/5/21 14:35	8.96	107.1	20.91	23.83	29.14	0
5/5/21 14:49	6.555	85.8	28.51	23.97	29.13	0
5/5/21 15:11	5.204	79.19	25.85	24.32	29.13	0
5/5/21 15:29	5.312	113.5	19.92	24.34	29.13	0
5/5/21 15:38	10.24	113.3	16.07	24.13	29.13	0
5/5/21 15:59	10.19	112	14.21	24.22	29.08	0
5/5/21 16:09	11.11	109.9	15.21	23.91	29.08	0
5/5/21 16:22	11.2	109.4	13.36	23.93	29.08	0
5/5/21 16:34	9.27	101.6	17.01	23.71	29.08	0
5/5/21 16:54	10.41	109.9	16.59	23.56	29.08	0
5/5/21 17:11	10.5	109.3	12.85	23.49	29.08	0
5/5/21 17:22	11.34	105	14.44	23.46	29.08	0
5/5/21 17:39	11.86	114.8	12.16	23.3	29.08	0
5/5/21 17:57	13.89	111.9	11.84	23.26	29.06	0
5/5/21 18:00	14.06	114	12.56	23.15	29.06	0
5/5/21 18:27	14.32	115.3	11.93	23.02	29.06	0
5/5/21 18:36	14.34	116.8	12.32	22.89	29.06	0
5/5/21 18:45	14.88	116.5	11.94	22.75	29.03	0
5/5/21 19:12	13.53	111.6	13.92	22.43	29.03	0
5/5/21 19:29	14.33	114.6	13.12	22.37	29.03	0
5/5/21 19:31	15.07	116.8	12.17	22.28	29.03	0
5/5/21 19:55	14.68	111.6	11.4	22.1	29.05	0
5/5/21 20:01	14.45	111.7	12.34	22.16	29.05	0
5/5/21 20:29	15.62	117	11.71	22.18	29.05	0
5/5/21 20:40	16.44	114.8	11.03	22.3	29.05	0
5/5/21 20:48	15.34	111.5	14.57	22.21	29.04	0
5/5/21 21:07	15.21	110.1	13.44	22.23	29.04	0
5/5/21 21:22	15.9	116.4	13.54	22.33	29.04	0
5/5/21 21:30	16.1	118.3	11.81	22.42	29.04	0
5/5/21 21:49	15.04	115.1	13.31	22.35	29.02	0
5/5/21 22:12	14.86	118.8	11.27	22.44	29.02	0
5/5/21 22:21	15.27	117.9	12.82	22.59	29.02	0
5/5/21 22:31	14.77	120.7	11.84	22.61	29.02	0
5/5/21 22:55	15.6	123.9	11.83	22.5	29.02	0
5/5/21 23:14	14.58	121.1	13.24	22.37	29.02	0
5/5/21 23:29	16.23	125.2	11.1	22.43	29.02	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
5/5/21 23:38	14.93	124	12.16	22.46	29.02	0
5/5/21 23:56	17.17	125.1	11.24	22.55	29.01	0
5/6/21 0:13	15.92	125.5	11.03	22.39	29.01	0
5/6/21 0:26	14.99	128.7	11.75	22.42	29.01	0
5/6/21 0:34	13.41	139	12.29	22.03	29.01	0
5/6/21 0:55	13.78	154.2	11.18	21.59	28.99	0
5/6/21 1:08	14.47	161.1	8.45	21.4	28.99	0
5/6/21 1:17	12.18	177.8	19.14	21	28.99	0
5/6/21 1:38	10.23	166.2	11.28	20.47	28.99	0
5/6/21 1:45	7.734	206.5	35.68	19.52	29	0
5/6/21 2:05	8.74	244.1	6.508	16.34	29	0
5/6/21 2:15	6.64	218.3	10.31	15.37	29	0
5/6/21 2:43	4.763	183.5	22.14	14.84	29	0
5/6/21 2:54	7.791	157.5	10.74	13.99	29.02	0
5/6/21 3:03	7.064	137.3	13.54	13.67	29.02	0
5/6/21 3:24	5.587	119.9	6.976	13.73	29.02	0
5/6/21 3:37	6.591	132.1	6.898	13.89	29.02	0
5/6/21 3:52	7.405	136	7.655	13.86	29.04	0
5/6/21 4:04	6.905	134.8	8.52	13.98	29.04	0
5/6/21 4:28	7.851	140.4	6.206	13.89	29.04	0
5/6/21 4:39	8.6	146.4	6.903	14	29.04	0
5/6/21 4:47	7.369	137.1	9.96	13.53	29.06	0
5/6/21 5:04	6.957	138.5	9.02	13.52	29.06	0
5/6/21 5:27	5.862	177.3	32.65	13.62	29.06	0
5/6/21 5:37	5.644	180.4	25.29	13.83	29.06	0
5/6/21 5:45	1.145	114.6	17.09	13.4	29.05	0
5/6/21 6:08	1.942	131.8	16.47	13.67	29.05	0
5/6/21 6:27	3.161	150	14.7	13.66	29.05	0
5/6/21 6:33	3.661	154.2	14.84	13.26	29.05	0
5/6/21 6:59	5.011	166.2	6.823	13.57	29.06	0
5/6/21 7:12	5.296	166	8.69	13.72	29.06	0
5/6/21 7:19	6.461	171.6	7.436	13.8	29.06	0
5/6/21 7:33	5.763	180.6	7.386	13.88	29.06	0
5/6/21 7:45	5.153	190.3	6.181	14.02	29.08	0
5/6/21 8:03	5.128	180	8.96	14.04	29.08	0
5/6/21 8:24	5.541	184.3	9.25	14.3	29.08	0
5/6/21 8:36	6.216	173.1	9.61	14.85	29.08	0
5/6/21 8:51	6.322	175	9.81	14.96	29.08	0
5/6/21 9:05	5.51	165.5	21.01	15.15	29.08	0
5/6/21 9:22	6.831	190.1	15.13	15.31	29.08	0
5/6/21 9:34	7.299	200.9	10.26	15.41	29.08	0
5/6/21 9:50	7.331	194.2	12.49	15.52	29.11	0
5/6/21 10:08	6.624	213.4	21.51	15.73	29.11	0
5/6/21 10:24	8.02	222.7	15.91	15.79	29.11	0
5/6/21 10:31	8.72	204.8	12.97	15.64	29.11	0
5/6/21 10:58	9.21	197.7	13.49	16.06	29.12	0
5/6/21 11:03	8.31	184.8	13.14	16.32	29.12	0
5/6/21 11:17	6.34	182.8	15.14	16.33	29.12	0
5/6/21 11:41	5.906	186.9	18.61	16.73	29.12	0
5/6/21 11:55	8.47	189.6	23.5	17.4	29.12	0
5/6/21 12:03	13.96	219.4	11.84	17.28	29.12	0
5/6/21 12:19	11.44	216.4	11.43	17.26	29.12	0
5/6/21 12:35	10.18	232.2	18.96	17.61	29.12	0
5/6/21 12:49	8.77	235.3	16.98	17.85	29.13	0
5/6/21 13:13	15.42	246.8	17.48	17.05	29.13	0
5/6/21 13:29	16.58	241.9	11.39	17.37	29.13	0
5/6/21 13:40	18.67	249.8	10.72	16.21	29.13	0
5/6/21 13:50	16.73	244.3	11.47	15.27	29.19	0
5/6/21 14:07	13.19	233.6	11.98	15.06	29.19	0
5/6/21 14:25	14.52	243.5	9.78	14.55	29.19	0
5/6/21 14:37	10.92	222.9	15.1	14.34	29.19	0
5/6/21 14:54	13.13	210.1	14.26	13.89	29.18	0
5/6/21 15:10	9.17	243.8	13.17	13.26	29.18	0.01
5/6/21 15:23	12.25	227.3	9.58	13.16	29.18	0
5/6/21 15:34	11.1	209.5	8.03	12.79	29.18	0.01
5/6/21 15:54	9.6	196.3	10.57	12.68	29.19	0
5/6/21 16:01	7.679	185.7	13.3	12.52	29.19	0
5/6/21 16:19	7.838	190.1	13.6	12.67	29.19	0
5/6/21 16:33	9.5	184.8	13.54	12.89	29.19	0
5/6/21 16:52	7.883	173	11.75	12.76	29.2	0
5/6/21 17:13	9.2	176.7	11.22	13.15	29.2	0
5/6/21 17:26	9.73	183.3	12.86	13	29.2	0
5/6/21 17:43	12	217.5	18.99	12.65	29.2	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
5/6/21 17:57	14.84	239.5	9.25	11.26	29.22	0.01
5/6/21 18:03	15.16	236.9	7.44	10.77	29.22	0
5/6/21 18:15	9.87	223.2	9.2	10.69	29.22	0
5/6/21 18:30	7.645	193.1	14.72	10.85	29.22	0
5/6/21 19:00	7.702	199.9	13.4	11.07	29.23	0
5/6/21 19:12	10.59	207.9	11.06	11.1	29.23	0
5/6/21 19:15	13.99	211.3	7.754	10.79	29.23	0
5/6/21 19:34	13.98	210.9	8.87	10.41	29.23	0
5/6/21 19:58	12.28	194.3	10.65	9.99	29.25	0
5/6/21 20:01	10.31	195.1	12.42	9.8	29.25	0
5/6/21 20:21	7.927	180.6	12.51	9.59	29.25	0
5/6/21 20:40	10.09	174.6	11.4	9.33	29.25	0
5/6/21 20:56	11.02	179.5	9.78	9.15	29.28	0
5/6/21 21:09	10.09	167.6	12.33	8.87	29.28	0
5/6/21 21:15	8.62	164.9	10.34	8.58	29.28	0
5/6/21 21:42	9.09	146.6	13.06	8.58	29.28	0
5/6/21 21:53	9.24	146.7	11.27	8.5	29.3	0
5/6/21 22:08	7.925	140.1	10.51	8.23	29.3	0
5/6/21 22:19	8.48	144.1	14.95	8.07	29.3	0
5/6/21 22:35	8.76	150.2	16.45	7.779	29.3	0
5/6/21 22:58	9.42	143.4	9.38	7.62	29.31	0
5/6/21 23:09	8.72	139.4	9.77	7.501	29.31	0
5/6/21 23:17	8.17	137	7.718	7.273	29.31	0
5/6/21 23:41	8.09	135.9	7.421	7.088	29.31	0
5/6/21 23:47	9.33	137.2	8.01	7.061	29.31	0
5/7/21 0:02	9.13	147.4	6.955	6.982	29.31	0
5/7/21 0:19	9.24	144.6	7.404	7.077	29.31	0
5/7/21 0:35	9	146.3	6.728	7.078	29.31	0
5/7/21 0:45	7.92	159.5	10.55	7.072	29.3	0
5/7/21 1:01	6.598	162.2	8.11	7.321	29.3	0
5/7/21 1:29	6.698	142.6	6.854	7.183	29.3	0
5/7/21 1:42	9.47	180.1	16.86	7.295	29.3	0.05
5/7/21 1:46	8.68	181.2	10.65	6.672	29.32	0.02
5/7/21 2:08	5.769	155.3	21.3	6.359	29.32	0
5/7/21 2:25	5.633	120.4	7.761	5.962	29.32	0
5/7/21 2:38	5.093	109.6	10.61	5.909	29.32	0
5/7/21 2:58	5.626	132.2	15.86	6.047	29.31	0
5/7/21 3:00	5.041	151.5	13.65	6.026	29.31	0
5/7/21 3:28	4.901	122.6	10.83	5.958	29.31	0
5/7/21 3:42	5.623	140.3	10.62	5.976	29.31	0
5/7/21 3:59	5.999	139.9	9.4	5.944	29.33	0
5/7/21 4:07	6.009	135.1	7.505	5.79	29.33	0
5/7/21 4:23	7.533	135.5	7.903	5.689	29.33	0
5/7/21 4:42	7.151	138.6	10.49	5.56	29.33	0
5/7/21 4:51	6.41	128	11.39	5.509	29.34	0
5/7/21 5:13	5.281	146.1	14.06	5.543	29.34	0.01
5/7/21 5:28	4.956	148.2	11.1	5.597	29.34	0
5/7/21 5:32	5.546	134.7	11.37	5.571	29.34	0
5/7/21 5:49	6.266	142.5	11	5.633	29.33	0
5/7/21 6:08	6.208	141.1	8.44	5.67	29.33	0.01
5/7/21 6:28	6.536	160.9	16.66	5.858	29.33	0
5/7/21 6:44	7.695	167.8	11.38	6.068	29.33	0
5/7/21 6:52	9.53	172.1	10.68	6.043	29.36	0
5/7/21 7:11	8.27	168.5	9.68	6.145	29.36	0
5/7/21 7:28	9.27	173.7	10.59	6.285	29.36	0
5/7/21 7:37	9.27	169	10.87	6.546	29.36	0
5/7/21 7:51	8.07	172.7	15.7	6.637	29.34	0
5/7/21 8:10	9.31	186.4	9.96	6.678	29.34	0
5/7/21 8:17	10.49	195.3	11.23	6.971	29.34	0
5/7/21 8:42	10.02	196.1	11.49	7.113	29.34	0
5/7/21 8:51	11.04	203.5	10.29	7.103	29.37	0
5/7/21 9:01	10.73	208.4	8.24	7.392	29.37	0
5/7/21 9:17	8.46	197.2	10.73	7.147	29.37	0
5/7/21 9:30	6.201	182.4	14.34	7.226	29.37	0
5/7/21 9:52	8.71	196.6	12.02	7.398	29.39	0
5/7/21 10:09	7.616	218.3	13.42	7.652	29.39	0
5/7/21 10:18	7.898	225.8	13.8	7.752	29.39	0
5/7/21 10:34	6.097	206.9	15.73	8.24	29.39	0
5/7/21 10:45	3.952	211.9	55.63	8.76	29.41	0
5/7/21 11:03	7.083	286.6	15.15	9.2	29.41	0
5/7/21 11:24	11.41	3.746	26.22	7.616	29.41	0
5/7/21 11:31	11.32	20.51	10.45	6.886	29.41	0
5/7/21 11:48	10.16	23.28	9.9	6.949	29.4	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
5/7/21 12:01	9.97	17.96	8.66	8.01	29.4	0
5/7/21 12:18	10.05	26.18	10.71	8.73	29.4	0
5/7/21 12:34	9.05	22.35	11.94	8.82	29.4	0
5/7/21 12:47	9.12	32.29	10.53	8.66	29.42	0
5/7/21 13:02	6.968	21.66	13.71	8.55	29.42	0
5/7/21 13:22	8.36	16.92	15.3	9.39	29.42	0
5/7/21 13:34	9.61	22.27	17.18	9.63	29.42	0
5/7/21 13:53	10.35	4.026	13.78	9.71	29.41	0
5/7/21 14:07	9.69	13.55	15.62	9.77	29.41	0
5/7/21 14:15	8.47	30.69	16.84	9.76	29.41	0
5/7/21 14:34	5.035	28.88	16.75	9.85	29.41	0
5/7/21 14:58	3.269	15.68	31.2	9.86	29.43	0
5/7/21 15:00	6.166	116.8	21.42	9.89	29.43	0
5/7/21 15:28	3.245	109	32.91	9.99	29.43	0
5/7/21 15:33	5.57	156.7	17.74	9.51	29.43	0
5/7/21 15:45	3.278	141.8	12.29	10.18	29.44	0
5/7/21 16:13	2.172	224.8	37.44	11.39	29.44	0
5/7/21 16:22	4.407	220.4	31.87	10.95	29.44	0
5/7/21 16:36	3.413	213.7	27.74	10.51	29.44	0
5/7/21 16:59	5.128	53.08	50.57	10.72	29.45	0
5/7/21 17:00	10.35	24.14	6.97	9.94	29.45	0
5/7/21 17:15	7.29	23.48	7.922	9.81	29.45	0
5/7/21 17:39	7.353	30.32	6.941	9.74	29.45	0
5/7/21 17:55	5.962	32.23	11.45	9.65	29.42	0
5/7/21 18:00	5.784	46.21	14.07	9.59	29.42	0
5/7/21 18:15	3.234	120	52.73	9.59	29.42	0
5/7/21 18:42	8.62	191.6	12.38	9.5	29.42	0
5/7/21 18:45	7.929	192	9.94	9.04	29.46	0
5/7/21 19:04	10.69	198.7	7.23	8.28	29.46	0
5/7/21 19:15	7.376	178.6	17.4	7.862	29.46	0
5/7/21 19:32	4.662	109.7	32.22	7.563	29.46	0
5/7/21 19:52	5.177	101.4	13.34	7.464	29.49	0
5/7/21 20:02	5.376	115.2	9.11	7.465	29.49	0
5/7/21 20:26	5.318	123	9.29	7.338	29.49	0.02
5/7/21 20:44	5.783	142.8	9.2	7.192	29.49	0.01
5/7/21 20:58	7.35	148.3	11.6	7.071	29.49	0.03
5/7/21 21:04	8.08	131.3	9.71	6.83	29.49	0.01
5/7/21 21:26	7.019	119.9	10.89	6.565	29.49	0
5/7/21 21:32	7.263	118.7	8.22	6.52	29.49	0
5/7/21 21:46	4.503	104.7	15.38	6.416	29.49	0
5/7/21 22:00	4.253	96	10.85	6.354	29.49	0
5/7/21 22:18	3.963	118.1	19.18	6.344	29.49	0
5/7/21 22:42	2.321	111.7	46.1	6.447	29.49	0
5/7/21 22:50	3.417	73.72	11.11	6.137	29.51	0
5/7/21 23:08	2.571	105.1	15.86	6.123	29.51	0
5/7/21 23:22	3.487	155.3	19.87	6.214	29.51	0
5/7/21 23:43	3.831	172	16.24	6.491	29.51	0
5/7/21 23:54	4.773	142	9.35	6.365	29.5	0
5/8/21 0:03	4.055	139	13.71	6.23	29.5	0
5/8/21 0:21	5.348	151.7	10.83	6.207	29.5	0
5/8/21 0:30	5.716	157.7	9.67	6.159	29.5	0
5/8/21 0:53	4.727	149.9	11.43	6.056	29.51	0
5/8/21 1:07	4.194	152.6	12.69	5.964	29.51	0
5/8/21 1:26	4.896	164.9	11.53	5.964	29.51	0
5/8/21 1:31	4.605	166.4	13.28	5.909	29.51	0
5/8/21 1:50	3.762	169.5	15.29	5.867	29.51	0
5/8/21 2:11	4.117	140.5	16.78	5.795	29.51	0
5/8/21 2:27	4.301	144.4	10.82	5.788	29.51	0
5/8/21 2:32	4.839	148.5	10.07	5.793	29.51	0
5/8/21 2:49	4.559	150	8.71	5.738	29.51	0
5/8/21 3:04	3.297	138.5	18.67	5.677	29.51	0
5/8/21 3:24	2.659	121.3	11.23	5.585	29.51	0
5/8/21 3:36	3.268	140.2	12.17	5.59	29.51	0
5/8/21 3:46	2.643	121	10.83	5.602	29.53	0
5/8/21 4:14	2.808	122.6	6.335	5.524	29.53	0
5/8/21 4:23	3.569	135	9.68	5.627	29.53	0
5/8/21 4:32	3.939	139.9	10.69	5.694	29.53	0
5/8/21 4:48	3.313	129.2	10.9	5.669	29.51	0
5/8/21 5:10	3.019	124.6	9.77	5.642	29.51	0
5/8/21 5:16	3.324	121.7	7.124	5.657	29.51	0
5/8/21 5:36	4.136	125.5	7.021	5.762	29.51	0
5/8/21 5:55	3.698	126	10.48	5.836	29.54	0
5/8/21 6:01	3.285	123.6	10.7	5.939	29.54	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
5/8/21 6:16	2.824	113.5	13.29	5.975	29.54	0
5/8/21 6:41	2.468	107.8	18.85	6.013	29.54	0
5/8/21 6:59	2.809	119.4	13.82	6.333	29.53	0
5/8/21 7:12	4.433	128.2	7.857	6.572	29.53	0
5/8/21 7:21	4.937	139.3	15.72	6.86	29.53	0
5/8/21 7:44	4.687	155.9	13.3	7.171	29.53	0
5/8/21 7:48	6.689	157.7	11.85	7.252	29.55	0
5/8/21 8:07	6.418	170.8	20.62	7.395	29.55	0
5/8/21 8:16	4.353	217.3	35.68	7.39	29.55	0
5/8/21 8:35	3.845	222.6	35.52	7.757	29.55	0
5/8/21 8:49	4.671	198.4	19.92	8.5	29.54	0
5/8/21 9:11	3.917	179.3	34.22	8.97	29.54	0
5/8/21 9:24	5.994	239.3	25.5	8.84	29.54	0
5/8/21 9:37	6.044	195	17.21	8.81	29.54	0
5/8/21 9:47	4.448	189.1	44.35	9.83	29.54	0
5/8/21 10:06	6.59	245.2	47.77	10.05	29.54	0
5/8/21 10:27	4.989	238.9	34.33	9.39	29.54	0
5/8/21 10:42	3.602	179.9	29.41	9.99	29.54	0
5/8/21 10:51	7.698	217	32.78	10.47	29.54	0
5/8/21 11:14	6.607	240.8	19.28	10.56	29.54	0
5/8/21 11:15	8.34	255.1	32.91	11.05	29.54	0
5/8/21 11:34	7.229	256.7	19.15	11.06	29.54	0
5/8/21 11:46	8.59	240.8	26.55	11.18	29.54	0
5/8/21 12:03	9.28	252.9	12.34	10.96	29.54	0
5/8/21 12:20	9.18	228.6	20.63	11.55	29.54	0
5/8/21 12:37	10.21	208	16.16	12.2	29.54	0
5/8/21 12:57	8.1	216.7	24.47	12.55	29.52	0
5/8/21 13:12	9.55	241.1	18.23	12.21	29.52	0
5/8/21 13:21	8.74	222.6	22.55	12.57	29.52	0
5/8/21 13:32	9.8	210.8	17.34	12.76	29.52	0
5/8/21 13:59	9.29	242.7	21.71	12.8	29.53	0
5/8/21 14:08	10.45	229.5	10.89	12.19	29.53	0
5/8/21 14:20	10.64	233.8	14.79	12.31	29.53	0
5/8/21 14:38	10.34	234.6	16.88	12.3	29.53	0
5/8/21 14:47	11.68	237.2	13.15	12.18	29.51	0
5/8/21 15:01	11.12	225.4	7.975	11.95	29.51	0
5/8/21 15:20	8.6	241.3	14.38	11.85	29.51	0
5/8/21 15:32	10	246.8	7.79	11.94	29.51	0
5/8/21 15:55	8.28	242.8	9.04	11.7	29.51	0
5/8/21 16:11	7.363	235.8	14.72	11.79	29.51	0
5/8/21 16:15	7.756	236.1	13.68	11.75	29.51	0
5/8/21 16:34	8.06	219.4	13.78	11.76	29.51	0
5/8/21 16:47	7.883	224.5	10.04	11.66	29.5	0
5/8/21 17:07	8.85	232.2	11.62	11.46	29.5	0
5/8/21 17:18	6.457	226.9	12.36	11.2	29.5	0
5/8/21 17:37	4.527	217.5	12.84	11.27	29.5	0
5/8/21 17:55	4.266	226.5	17.02	11.4	29.51	0
5/8/21 18:13	4.722	250.8	17.35	11.31	29.51	0
5/8/21 18:16	5.334	283.6	12.21	10.97	29.51	0
5/8/21 18:39	5.156	277.3	8.76	10.87	29.51	0
5/8/21 18:56	5.617	265.7	8.53	10.76	29.52	0
5/8/21 19:00	5.4	267.6	9.23	10.56	29.52	0
5/8/21 19:24	3.797	283.5	5.946	10.39	29.52	0
5/8/21 19:31	3.469	286.4	10.07	10.25	29.52	0
5/8/21 19:53	2.711	288.8	6.258	10.2	29.5	0
5/8/21 20:00	2.802	282.7	5.079	10.18	29.5	0
5/8/21 20:15	2.118	279.6	4.189	10.2	29.5	0
5/8/21 20:33	2.044	277.3	5.023	10.18	29.5	0
5/8/21 20:45	0.416	287.4	37.5	9.97	29.52	0
5/8/21 21:12	0.165	65.85	0.635	9.75	29.52	0
5/8/21 21:20	1.334	195.5	27.65	9.87	29.52	0
5/8/21 21:30	0.176	197.9	0.061	9.78	29.52	0
5/8/21 21:55	0.508	58.53	64.09	9.6	29.51	0
5/8/21 22:00	0.051	21.92	0.013	9.16	29.51	0
5/8/21 22:24	0.465	209.3	34.44	9.47	29.51	0
5/8/21 22:44	1.039	172	40.26	9.45	29.51	0
5/8/21 22:47	5.745	226.8	9.49	8.86	29.48	0
5/8/21 23:03	4.979	238.6	5.086	8.49	29.48	0
5/8/21 23:16	3.503	236	4.656	8.28	29.48	0.01
5/8/21 23:31	3.234	230.2	5.242	8.2	29.48	0
5/8/21 23:48	2.837	204.2	29.29	8.08	29.47	0
5/9/21 0:15	1.24	79.56	13.68	7.993	29.47	0
5/9/21 0:29	2.614	113.1	18.62	7.96	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
5/9/21 0:42	3.502	111.2	17.3	7.958	29.47	0
5/9/21 0:45	3.687	90.7	7.659	7.865	29.47	0
5/9/21 1:09	3.205	92.5	8.86	7.849	29.47	0
5/9/21 1:15	2.6	81.9	8.16	7.854	29.47	0
5/9/21 1:30	1.701	94.1	11.38	7.874	29.47	0
5/9/21 1:56	2.62	109.9	8.71	8.02	29.46	0
5/9/21 2:00	1.491	79.17	6.516	8.03	29.46	0
5/9/21 2:19	2.029	75.58	14.25	8.05	29.46	0
5/9/21 2:44	1.318	50.46	9.24	8.01	29.46	0
5/9/21 2:58	2.164	34.03	4.033	7.961	29.46	0
5/9/21 3:01	1.741	28.23	5.019	7.827	29.46	0
5/9/21 3:15	0.502	40.88	1.145	7.863	29.46	0
5/9/21 3:42	1.006	38.69	4.549	7.966	29.46	0
5/9/21 3:58	1.429	13.59	11.72	7.963	29.45	0
5/9/21 4:00	1.651	340.2	3.962	8	29.45	0
5/9/21 4:15	0.442	339.2	0.508	7.947	29.45	0
5/9/21 4:32	0.847	8.92	1.584	7.97	29.45	0
5/9/21 4:57	1.435	20.88	12.81	7.857	29.46	0
5/9/21 5:04	2.365	38.81	5.594	7.794	29.46	0
5/9/21 5:27	2.523	40.62	4.697	7.823	29.46	0
5/9/21 5:42	2.056	33.67	7.154	7.857	29.46	0
5/9/21 5:45	1.67	21.71	7.637	7.897	29.46	0
5/9/21 6:00	0.403	30.45	10.16	8.16	29.46	0
5/9/21 6:26	0.468	108.9	15.27	8.69	29.46	0
5/9/21 6:39	0.943	151.7	36.26	9.03	29.46	0
5/9/21 6:59	1.749	212	29.92	9.09	29.44	0
5/9/21 7:08	2.898	209.6	10.58	9.02	29.44	0
5/9/21 7:15	2.02	213.8	23.89	9.04	29.44	0
5/9/21 7:42	1.769	151.8	26.86	9.11	29.44	0
5/9/21 7:58	2.878	192.6	29.58	9.23	29.46	0
5/9/21 8:11	2.441	218.2	17.56	9.46	29.46	0
5/9/21 8:20	1.954	250.3	35.28	10.4	29.46	0
5/9/21 8:42	0.895	345	36.91	10.4	29.46	0
5/9/21 8:52	1.048	6.784	29.58	10.56	29.45	0
5/9/21 9:14	1.764	327.1	30.36	10.7	29.45	0
5/9/21 9:23	3.551	299.4	12.03	10.58	29.45	0
5/9/21 9:42	4.992	310.9	5.945	10.37	29.45	0
5/9/21 9:45	4.7	322.9	7.943	10.34	29.46	0
5/9/21 10:13	2.877	312.5	8.93	10.64	29.46	0
5/9/21 10:28	1.559	313	18.94	11.28	29.46	0
5/9/21 10:30	0.851	285.9	39.64	12.32	29.46	0
5/9/21 10:55	2.084	302.3	34.4	12.93	29.46	0
5/9/21 11:01	5.06	304.8	15.95	12.4	29.46	0
5/9/21 11:27	3.955	301.5	19.3	12.31	29.46	0
5/9/21 11:38	4.233	312.3	17.26	12.62	29.46	0
5/9/21 11:51	5.097	320.4	17.52	12.8	29.43	0
5/9/21 12:07	6.6	328.1	7.523	12.82	29.43	0
5/9/21 12:23	5.971	325.9	15.29	13.17	29.43	0
5/9/21 12:44	7.479	317.2	16.11	13.05	29.43	0
5/9/21 12:47	9.72	335.3	7.229	12.6	29.45	0
5/9/21 13:04	9.06	330.8	6.417	12.64	29.45	0
5/9/21 13:18	6.258	335.9	10.74	12.77	29.45	0
5/9/21 13:30	4.12	331.2	25.61	13.4	29.45	0
5/9/21 13:58	3.561	346.6	49.25	14.17	29.41	0
5/9/21 14:11	6.305	58.58	23.68	14.32	29.41	0
5/9/21 14:29	7.001	57.17	23.57	14.59	29.41	0
5/9/21 14:39	6.595	19.23	25.4	14.84	29.41	0
5/9/21 14:53	8.93	331.5	9.23	15.26	29.41	0
5/9/21 15:03	7.552	356.4	14.93	14.45	29.41	0
5/9/21 15:16	5.149	346.7	20.89	14.39	29.41	0
5/9/21 15:35	6.544	340.1	15.16	14.62	29.41	0
5/9/21 15:48	3.31	340.2	18.28	15.43	29.39	0
5/9/21 16:07	6.46	335.7	13.13	15.69	29.39	0
5/9/21 16:18	8.3	1.179	14.56	15.29	29.39	0
5/9/21 16:40	10.26	14.25	13.04	15.64	29.39	0
5/9/21 16:47	9.55	12.85	9.53	15.22	29.41	0
5/9/21 17:04	8.24	332.3	25.82	15.81	29.41	0
5/9/21 17:26	10.79	311.8	11.81	15.69	29.41	0
5/9/21 17:43	10.35	321.4	11.52	15.55	29.41	0
5/9/21 17:49	9.03	321.8	9.46	15.33	29.4	0
5/9/21 18:02	9.05	326.8	8.86	15.05	29.4	0
5/9/21 18:28	8.84	324	10.43	14.46	29.4	0
5/9/21 18:30	11.14	318.4	6.889	13.75	29.4	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
5/9/21 18:52	11.32	313.6	6.411	13.06	29.41	0
5/9/21 19:11	11.05	317.4	4.849	12.57	29.41	0
5/9/21 19:16	9.76	321.4	4.511	12.24	29.41	0
5/9/21 19:31	8.63	324.6	3.124	11.88	29.41	0
5/9/21 19:53	7.844	329.5	4.077	11.69	29.42	0
5/9/21 20:03	6.862	338.4	9.38	11.93	29.42	0
5/9/21 20:15	4.269	351.5	17.61	11.99	29.42	0
5/9/21 20:34	5.338	12.83	11.49	11.36	29.42	0
5/9/21 20:47	4.465	20.17	11.49	11.22	29.43	0
5/9/21 21:08	4.254	354.5	16.98	11.19	29.43	0
5/9/21 21:15	3.362	13	32.17	10.3	29.43	0
5/9/21 21:44	2.294	29.64	34.31	10.19	29.43	0
5/9/21 21:45	2.891	47.77	9.05	9.95	29.42	0
5/9/21 22:06	3.552	50.6	12.48	9.8	29.42	0
5/9/21 22:25	5.214	42.58	6.627	9.49	29.42	0
5/9/21 22:30	3.748	45.71	7.47	8.85	29.42	0
5/9/21 22:52	4.675	34.05	6.987	9.18	29.41	0
5/9/21 23:14	4.978	31.79	6.016	9.58	29.41	0
5/9/21 23:29	5.383	48.94	11.04	9.36	29.41	0
5/9/21 23:31	5.601	47.42	14.83	9.41	29.41	0
5/9/21 23:51	4.531	52.27	8.43	8.48	29.42	0
5/10/21 0:07	3.481	45.59	12.43	8.26	29.42	0
5/10/21 0:27	3.717	31.08	13.06	8.2	29.42	0
5/10/21 0:36	5.519	49.56	10.87	7.682	29.42	0
5/10/21 0:52	6.062	44.64	10.92	8.31	29.44	0
5/10/21 1:10	3.806	37.99	10.89	8.18	29.44	0
5/10/21 1:25	4.177	47.04	15.18	8.34	29.44	0
5/10/21 1:33	5.226	42.74	7.699	8.31	29.44	0
5/10/21 1:47	4.127	48.17	7.284	8.04	29.44	0
5/10/21 2:04	3.721	49.04	9.05	7.753	29.44	0
5/10/21 2:16	2.131	56.52	10.36	7.332	29.44	0
5/10/21 2:36	2.699	61.07	22.74	7.27	29.44	0
5/10/21 2:54	3.388	97.5	15.88	7.298	29.43	0
5/10/21 3:01	1.83	128.4	16.88	7.43	29.43	0
5/10/21 3:15	1.82	167.5	20.36	7.871	29.43	0
5/10/21 3:36	2.011	143.4	29.22	7.798	29.43	0
5/10/21 3:54	1.46	149.5	15.9	7.738	29.45	0
5/10/21 4:14	1.433	148.6	32.13	8.13	29.45	0
5/10/21 4:19	1.529	90.5	54.52	8.16	29.45	0
5/10/21 4:33	1.061	81.2	29	7.508	29.45	0
5/10/21 4:45	1.308	89.8	43.72	7.535	29.43	0
5/10/21 5:12	1.813	154	12.47	7.256	29.43	0
5/10/21 5:29	1.941	170.4	14.02	7.49	29.43	0
5/10/21 5:30	2.666	207.2	12.33	7.691	29.43	0
5/10/21 5:49	1.027	224.1	37.81	8.12	29.46	0
5/10/21 6:10	0.143	337	29.6	8.79	29.46	0
5/10/21 6:15	0.39	279.8	45.1	8.54	29.46	0
5/10/21 6:33	1.671	268.3	15.2	8.4	29.46	0
5/10/21 6:58	1.879	245.9	10.24	8.63	29.47	0
5/10/21 7:14	2.434	233.9	14.09	8.97	29.47	0
5/10/21 7:29	2.23	268.4	24.61	9.64	29.47	0
5/10/21 7:41	3.119	356.9	36.6	10.4	29.47	0
5/10/21 7:47	3.856	38.22	13.48	10.53	29.47	0
5/10/21 8:07	3.578	55.14	19.5	11.22	29.47	0
5/10/21 8:24	3.704	44.35	17.2	11.58	29.47	0
5/10/21 8:40	5.59	37.95	17.92	11.89	29.47	0
5/10/21 8:55	6.067	41.87	21.65	12.21	29.46	0
5/10/21 9:10	5.499	55.6	19.25	12.51	29.46	0
5/10/21 9:17	5.386	53.03	20.54	13	29.46	0
5/10/21 9:34	3.181	48.16	49.69	13.36	29.46	0
5/10/21 9:45	4.468	311.5	35.13	14.3	29.45	0
5/10/21 10:11	5.766	324.9	27.44	14.58	29.45	0
5/10/21 10:27	6.006	315.1	23.75	14.64	29.45	0
5/10/21 10:43	5.951	321.4	30.61	14.66	29.45	0
5/10/21 10:47	8.09	323.4	17.03	15.07	29.45	0
5/10/21 11:13	9.24	317.8	20.88	14.98	29.45	0
5/10/21 11:27	8.33	347.9	18.18	15.25	29.45	0
5/10/21 11:33	8.66	0.967	22.12	15.55	29.45	0
5/10/21 11:45	9.08	332.7	19.69	15.91	29.44	0
5/10/21 12:06	9.54	336.3	15.91	15.4	29.44	0
5/10/21 12:26	8.28	347	21.04	15.64	29.44	0
5/10/21 12:36	9.53	346.6	29.76	15.8	29.44	0
5/10/21 12:45	7.824	329.9	18.98	16.09	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
5/10/21 13:14	7.209	3.723	20.64	16.12	29.42	0
5/10/21 13:20	7.239	320	25.68	16.79	29.42	0
5/10/21 13:43	6.888	328.5	24.69	17.12	29.42	0
5/10/21 13:54	8.08	347.3	34.71	17.16	29.43	0
5/10/21 14:07	6.783	329.7	26.43	17.6	29.43	0
5/10/21 14:25	7.436	356.2	26.53	17.49	29.43	0
5/10/21 14:33	7.545	329.5	16.44	17.83	29.43	0
5/10/21 14:58	5.6	331.9	51.92	17.82	29.42	0
5/10/21 15:06	10.04	318.8	10.25	17.66	29.42	0
5/10/21 15:23	7.445	346.9	26.7	17.72	29.42	0
5/10/21 15:33	7.714	342.9	23.74	17.71	29.42	0
5/10/21 15:55	9.22	332.9	11.97	17.68	29.41	0
5/10/21 16:03	11.06	349.6	11.39	17.42	29.41	0
5/10/21 16:20	9.72	1.601	13.37	17.12	29.41	0
5/10/21 16:37	10.41	328.4	24.44	17.69	29.41	0
5/10/21 16:47	11.64	310.4	9.96	17.76	29.4	0
5/10/21 17:03	11.67	299.7	9.32	17.42	29.4	0
5/10/21 17:26	11.27	311.2	10.5	17.11	29.4	0
5/10/21 17:31	12.21	313.6	7.4	16.83	29.4	0
5/10/21 17:55	10.16	321.4	7.58	16.7	29.38	0
5/10/21 18:05	10.53	324.7	8.06	16.39	29.38	0
5/10/21 18:16	8.55	333.3	10.83	15.81	29.38	0
5/10/21 18:36	8.76	338.7	7.752	15.54	29.38	0
5/10/21 18:59	8.4	354.9	13.25	14.79	29.39	0
5/10/21 19:10	7.53	359.5	11.4	14.1	29.39	0
5/10/21 19:27	6.301	8.7	10.25	13.78	29.39	0
5/10/21 19:30	5.098	355.6	16.95	13.75	29.39	0
5/10/21 19:49	5.65	353.2	12.54	13.56	29.41	0
5/10/21 20:15	7.788	5.319	15.19	13.63	29.41	0
5/10/21 20:15	5.895	357.9	13.41	13.49	29.41	0
5/10/21 20:39	5.239	346.9	14.47	13.14	29.41	0
5/10/21 20:46	6.597	343	16.4	12.89	29.41	0
5/10/21 21:06	5.07	337.4	15.8	12.55	29.41	0
5/10/21 21:18	4.006	322.1	18.5	12.38	29.41	0
5/10/21 21:38	5.865	1.909	24.58	12.31	29.41	0
5/10/21 21:46	7.062	44.86	14.9	11.49	29.4	0
5/10/21 22:08	10.69	34.89	13.73	11.11	29.4	0
5/10/21 22:15	8.16	34.16	13.49	10.91	29.4	0
5/10/21 22:43	7.37	39.87	16.68	10.83	29.4	0
5/10/21 22:58	8.84	35.2	10.5	10.38	29.41	0
5/10/21 23:14	11.61	28.98	7.182	10.09	29.41	0
5/10/21 23:18	12.58	30.26	6.799	10.01	29.41	0
5/10/21 23:34	12.27	31.43	6.929	9.95	29.41	0
5/10/21 23:46	10.23	35.63	6.386	9.84	29.39	0
5/11/21 0:00	8.17	40.45	7.277	9.27	29.39	0
5/11/21 0:16	5.194	43.87	8.9	8.81	29.39	0
5/11/21 0:32	2.911	35.36	14.87	8.57	29.39	0
5/11/21 0:57	0.86	20.75	17.89	8.65	29.39	0
5/11/21 1:04	2.556	7.347	35.41	9.4	29.39	0
5/11/21 1:28	2.136	15.62	22.96	9.23	29.39	0
5/11/21 1:43	2.39	18.36	18.33	8.97	29.39	0
5/11/21 1:46	3.465	19.85	12.96	9.04	29.4	0
5/11/21 2:02	4.014	35.73	11.93	8.73	29.4	0
5/11/21 2:23	3.355	41.19	18.39	8.61	29.4	0
5/11/21 2:40	3.468	40.41	16.26	8.32	29.4	0
5/11/21 2:46	3.279	54.12	11.07	7.931	29.41	0
5/11/21 3:11	2.438	53.06	14.65	7.979	29.41	0
5/11/21 3:20	3.077	20.18	30.92	8.34	29.41	0
5/11/21 3:42	1.587	13.67	33.81	8.29	29.41	0
5/11/21 3:57	1.634	47.07	26.01	8.39	29.39	0
5/11/21 4:08	3.194	54.98	26.65	8.62	29.39	0
5/11/21 4:16	2.038	22.63	20.06	8.31	29.39	0
5/11/21 4:37	2.23	161.2	56.25	7.898	29.39	0
5/11/21 4:51	2.307	175.2	19.14	7.324	29.4	0
5/11/21 5:01	1.833	216.2	23.51	6.521	29.4	0
5/11/21 5:16	2.209	189.1	19.6	6.941	29.4	0
5/11/21 5:30	0.161	254.9	21.69	7.602	29.4	0
5/11/21 5:55	1.171	14.47	9.8	8.12	29.42	0
5/11/21 6:01	0.686	351.3	3.489	8.8	29.42	0
5/11/21 6:27	0.744	14.68	23.74	9.84	29.42	0
5/11/21 6:44	1.689	37.2	8.1	9.47	29.42	0
5/11/21 6:54	3.117	29.81	8.54	9.47	29.42	0
5/11/21 7:14	3.385	38.15	6.703	9.6	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
5/11/21 7:18	3.954	37	8.47	9.88	29.42	0
5/11/21 7:30	1.755	37.27	19.09	10.92	29.42	0
5/11/21 7:54	1.5	282.8	45.25	11.64	29.42	0
5/11/21 8:09	1.658	347.5	28.13	12.54	29.42	0
5/11/21 8:19	2.526	343.9	31.62	12.89	29.42	0
5/11/21 8:30	3.615	20.03	23.87	13.13	29.42	0
5/11/21 8:59	2.939	24.69	26.82	13.58	29.39	0
5/11/21 9:01	3.372	41.28	27.5	14.11	29.39	0
5/11/21 9:25	4.272	36.58	26.62	14.66	29.39	0
5/11/21 9:39	5.871	31.57	14.76	14.99	29.39	0
5/11/21 9:59	6.983	25.88	25.26	15.26	29.38	0
5/11/21 10:10	13.73	323.9	8.4	15.84	29.38	0
5/11/21 10:19	12.53	326.5	9.32	15.75	29.38	0
5/11/21 10:34	10.38	329.1	14.77	16.26	29.38	0
5/11/21 10:50	9.69	326.4	15.54	16.32	29.38	0
5/11/21 11:12	9.56	340.6	19	16.74	29.38	0
5/11/21 11:18	9.28	341	16.39	16.94	29.38	0
5/11/21 11:36	7.496	333	32.91	17.23	29.38	0
5/11/21 11:50	8.16	320.3	20.71	17.74	29.37	0
5/11/21 12:14	7.595	324.1	19.14	17.71	29.37	0
5/11/21 12:19	7.056	316	19.17	18.03	29.37	0
5/11/21 12:32	7.252	317.5	17.21	18.24	29.37	0
5/11/21 12:52	7.824	333.9	21.18	18.3	29.35	0
5/11/21 13:12	6.856	321.3	30.69	18.57	29.35	0
5/11/21 13:22	9.91	324.5	22.61	18.89	29.35	0
5/11/21 13:44	10.56	294.5	13.11	18.99	29.35	0
5/11/21 13:47	9.41	301	15.51	19.02	29.34	0
5/11/21 14:09	8.47	305.8	13.8	19.1	29.34	0
5/11/21 14:20	7.299	296.3	26.97	19.41	29.34	0
5/11/21 14:40	8.45	299	20.83	19.59	29.34	0
5/11/21 14:47	8.24	302.5	15.46	19.63	29.35	0
5/11/21 15:04	6.736	294.3	17.32	19.84	29.35	0
5/11/21 15:28	7.026	305.6	17.75	19.97	29.35	0
5/11/21 15:34	8.78	298.3	15.12	19.96	29.35	0
5/11/21 15:48	7.949	296.2	17.39	20.07	29.33	0
5/11/21 16:00	6.804	317.6	18.17	20.43	29.33	0
5/11/21 16:22	6.741	317.7	19.23	20.28	29.33	0
5/11/21 16:39	7.552	307.1	20.93	20.25	29.33	0
5/11/21 16:54	7.064	297.4	15.61	20.14	29.34	0
5/11/21 17:03	6.513	299.4	20.62	20.03	29.34	0
5/11/21 17:21	7.062	307	22.72	19.92	29.34	0
5/11/21 17:30	6.215	290.8	11.63	19.93	29.34	0
5/11/21 17:50	6.102	302	15.07	19.75	29.31	0
5/11/21 18:08	6.365	298.5	8.91	19.41	29.31	0
5/11/21 18:29	7.251	302.2	8.7	18.83	29.31	0
5/11/21 18:40	8.09	304.1	6.358	17.99	29.31	0
5/11/21 18:57	9.03	308.5	5.827	17.38	29.31	0
5/11/21 19:01	8.88	310.9	5.358	16.95	29.31	0
5/11/21 19:15	8.17	318.5	4.059	16.44	29.31	0
5/11/21 19:40	6.808	331	14.92	16.25	29.31	0
5/11/21 19:57	5.606	14.98	21.36	16.37	29.32	0
5/11/21 20:04	6.743	33.5	8.97	15.54	29.32	0
5/11/21 20:23	6.754	33.82	6.923	15.24	29.32	0
5/11/21 20:32	5.402	39.65	11.95	15.17	29.32	0
5/11/21 20:49	7.015	46.56	10.12	14.97	29.33	0
5/11/21 21:14	6.714	40.52	6.451	14.48	29.33	0
5/11/21 21:29	7.91	39.01	6.379	14.32	29.33	0
5/11/21 21:30	8.24	33.5	4.773	14.33	29.33	0
5/11/21 21:58	7.381	33.28	4.218	14.25	29.32	0
5/11/21 22:09	8.23	33.54	4.893	13.94	29.32	0
5/11/21 22:17	9.03	34.03	8.12	13.67	29.32	0
5/11/21 22:40	8.43	36.2	9.99	13.12	29.32	0
5/11/21 22:58	10.06	43.51	7.725	12.89	29.32	0
5/11/21 23:04	10.95	33.26	9.35	12.85	29.32	0
5/11/21 23:22	10.16	37.74	8.64	12.6	29.32	0
5/11/21 23:42	12.08	36.05	7.861	12.44	29.32	0
5/11/21 23:45	10.72	34.88	7.808	12.44	29.32	0
5/12/21 0:07	8.24	37.91	8.52	12.27	29.32	0
5/12/21 0:29	8.44	40.55	7.879	12.02	29.32	0
5/12/21 0:41	9.17	42.32	8.2	11.75	29.32	0
5/12/21 0:53	8.72	42.37	8.1	11.8	29.31	0
5/12/21 1:04	7.116	35.5	8.12	11.72	29.31	0
5/12/21 1:16	6.751	27.07	8.11	11.87	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
5/12/21 1:30	4.103	30.08	9.06	12.01	29.31	0
5/12/21 1:59	5.137	48.62	10.04	11.67	29.31	0
5/12/21 2:12	7.795	46.06	7.892	11.62	29.31	0
5/12/21 2:18	7.337	41.73	9.13	11.69	29.31	0
5/12/21 2:39	6.073	49.78	9.31	11.84	29.31	0
5/12/21 2:51	4.043	84	57.09	12.05	29.31	0
5/12/21 3:00	2.295	181.6	27.57	11.96	29.31	0
5/12/21 3:24	1.942	88.4	32.43	11.87	29.31	0
5/12/21 3:37	3.116	83	30.07	12.38	29.31	0
5/12/21 3:45	1.723	71.96	80.2	12.3	29.32	0
5/12/21 4:05	3.511	202.5	12.54	11.69	29.32	0
5/12/21 4:24	3.598	180.3	16.27	11.66	29.32	0
5/12/21 4:30	2.046	177.8	19.01	11.53	29.32	0
5/12/21 4:58	1.933	188.2	25.27	11.48	29.32	0
5/12/21 5:05	3.193	229.8	11.18	11.58	29.32	0
5/12/21 5:26	1.586	352.3	63.91	11.45	29.32	0
5/12/21 5:44	3.429	19.41	5.784	10.98	29.32	0
5/12/21 5:59	4.947	31.21	5.782	10.76	29.3	0
5/12/21 6:02	5.531	19.92	26.83	11.6	29.3	0
5/12/21 6:17	2.4	12.22	42.07	12.55	29.3	0
5/12/21 6:34	2.759	41.39	43.77	12.49	29.3	0
5/12/21 6:58	9.82	36.73	11.33	12.65	29.32	0
5/12/21 7:01	10.94	36.61	10.36	12.65	29.32	0
5/12/21 7:15	8.6	35.97	8.83	12.73	29.32	0
5/12/21 7:38	8.03	35.65	9.89	12.63	29.32	0
5/12/21 7:52	8.5	35.33	10.34	12.73	29.31	0
5/12/21 8:03	6.488	30.77	11.25	13.05	29.31	0
5/12/21 8:20	5.736	40.27	12.48	13.26	29.31	0
5/12/21 8:30	3.865	41.66	16.31	13.59	29.31	0
5/12/21 8:56	2.807	30.1	12.32	14.06	29.32	0
5/12/21 9:13	4.191	27.55	10.15	14.17	29.32	0
5/12/21 9:21	4.47	42.68	13.21	14.28	29.32	0
5/12/21 9:44	3.943	22.34	21.03	14.54	29.32	0
5/12/21 9:51	8.58	310.5	8.3	14.94	29.32	0
5/12/21 10:02	5.017	321.6	15.95	15.01	29.32	0
5/12/21 10:27	2.641	325.6	31.86	15.29	29.32	0
5/12/21 10:32	3.01	11.96	30.58	15.59	29.32	0
5/12/21 10:48	1.728	6.805	19.82	15.63	29.32	0
5/12/21 11:08	2.186	4.649	35.1	16.65	29.32	0
5/12/21 11:24	3.72	321.3	24.09	17.04	29.32	0
5/12/21 11:31	4.63	306.1	40.54	17.65	29.32	0
5/12/21 11:45	3.747	334.5	19.57	17.9	29.31	0
5/12/21 12:09	6.055	302.9	19.59	18.19	29.31	0
5/12/21 12:15	5.477	350.8	16.61	18.43	29.31	0
5/12/21 12:38	6.952	322.5	21.86	19.02	29.31	0
5/12/21 12:46	6.718	324.4	14.57	19.06	29.33	0
5/12/21 13:07	7.351	329.6	15.87	19.16	29.33	0
5/12/21 13:22	8.13	314.2	11.04	19.38	29.33	0
5/12/21 13:30	5.77	336.2	16.91	19.92	29.33	0
5/12/21 13:58	5.159	354.2	37.36	20.19	29.31	0
5/12/21 14:07	8.3	324.8	22.66	20.06	29.31	0
5/12/21 14:20	9.29	323.3	20.92	20.3	29.31	0
5/12/21 14:36	8.66	309.8	22.46	20.54	29.31	0
5/12/21 14:56	10.51	334.4	17.27	20.31	29.32	0
5/12/21 15:07	8.26	330.6	25.18	20.49	29.32	0
5/12/21 15:30	7.282	339.3	33.42	20.43	29.32	0
5/12/21 15:30	9.32	335.8	16.5	20.46	29.32	0
5/12/21 15:59	7.264	346.6	35.28	20.37	29.32	0
5/12/21 16:13	10.17	351.8	28.01	20.18	29.32	0
5/12/21 16:15	9.72	334	17.75	20.41	29.32	0
5/12/21 16:32	9.83	339.9	24.4	20.16	29.32	0
5/12/21 16:54	9.87	354.8	16.43	19.83	29.31	0
5/12/21 17:09	10.74	351.1	12.12	19.68	29.31	0
5/12/21 17:28	11.53	352.3	12.56	19.35	29.31	0
5/12/21 17:43	10.59	357.2	17.61	19.05	29.31	0
5/12/21 17:54	12.28	338.1	8.68	19.04	29.31	0
5/12/21 18:09	12.56	339.4	7.091	18.73	29.31	0
5/12/21 18:16	11.96	336.4	7.619	18.5	29.31	0
5/12/21 18:38	11.38	337.4	7.862	18.22	29.31	0
5/12/21 18:55	9.98	340.6	10.84	17.89	29.32	0
5/12/21 19:05	8.28	350.9	11.74	17.37	29.32	0
5/12/21 19:19	7.926	346.5	11.07	16.72	29.32	0
5/12/21 19:36	5.615	338.8	10.4	16.23	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
5/12/21 19:59	3.776	319.3	23.43	15.86	29.32	0
5/12/21 20:03	4.055	324.1	19.05	15.8	29.32	0
5/12/21 20:25	8.07	348.6	19.64	15.19	29.32	0
5/12/21 20:30	7.105	343.5	14.24	14.98	29.32	0
5/12/21 20:51	6.513	350.1	16.26	14.73	29.35	0
5/12/21 21:06	6.256	348.8	13.08	14.54	29.35	0
5/12/21 21:20	6.225	3.218	14.31	14.3	29.35	0
5/12/21 21:44	6.385	31.13	16.13	14.04	29.35	0
5/12/21 21:49	9.56	36.4	7.446	13.92	29.36	0
5/12/21 22:06	10.57	38.83	9.75	13.81	29.36	0
5/12/21 22:20	9.79	34.09	10.56	13.66	29.36	0
5/12/21 22:44	10.29	29.06	9.64	13.47	29.36	0
5/12/21 22:48	13.07	21.78	6.952	13.51	29.35	0
5/12/21 23:04	13.11	15.2	6.174	13.37	29.35	0
5/12/21 23:19	13.79	13.69	6.144	13.15	29.35	0
5/12/21 23:42	12.69	14.01	6.961	13.04	29.35	0
5/12/21 23:46	10.1	24.66	9.46	12.78	29.36	0
5/13/21 0:14	7.18	34.25	8.89	12.33	29.36	0
5/13/21 0:27	7.855	32.99	7.361	12.05	29.36	0
5/13/21 0:39	7.999	22.48	7.769	11.93	29.36	0
5/13/21 0:51	8.56	20.12	8.57	11.75	29.37	0
5/13/21 1:14	5.815	25.83	6.852	11.15	29.37	0
5/13/21 1:29	7.739	22.24	9.03	11.18	29.37	0
5/13/21 1:33	8.67	24.48	10.09	11.59	29.37	0
5/13/21 1:49	7.797	33.49	7.857	11.08	29.35	0
5/13/21 2:04	7.627	41.48	7.838	10.91	29.35	0
5/13/21 2:24	6.91	34.8	8.26	10.69	29.35	0
5/13/21 2:41	7.635	39.04	8.81	10.76	29.35	0
5/13/21 2:45	2.926	52.04	18.57	10.34	29.37	0
5/13/21 3:07	3.159	61.53	16.18	9.86	29.37	0
5/13/21 3:15	2.49	36.41	27.91	9.71	29.37	0
5/13/21 3:40	2.471	16.61	19.27	9.65	29.37	0
5/13/21 3:59	3.799	36.96	7.263	9.49	29.38	0
5/13/21 4:09	4.977	33.66	7.09	9.36	29.38	0
5/13/21 4:16	3.366	32.73	10.9	9.05	29.38	0
5/13/21 4:32	2.96	19.52	4.662	9	29.38	0
5/13/21 4:52	3.22	16.62	2.765	9.11	29.37	0
5/13/21 5:14	3.387	9.46	4.57	9.15	29.37	0
5/13/21 5:19	3.193	15.12	9.73	9.16	29.37	0
5/13/21 5:35	2.455	31.7	7.441	8.98	29.37	0
5/13/21 5:57	1.933	52.12	10.51	9.3	29.38	0
5/13/21 6:09	2.311	41.65	5.744	9.22	29.38	0
5/13/21 6:26	2.485	31.98	7.427	9.29	29.38	0
5/13/21 6:38	2.042	19.63	7.373	9.87	29.38	0
5/13/21 6:53	1.989	24.48	11.11	10.61	29.39	0
5/13/21 7:09	1.97	18.42	13.72	11.56	29.39	0
5/13/21 7:28	1.454	15.43	34.22	12.89	29.39	0
5/13/21 7:40	3.013	31.67	11.77	12.47	29.39	0
5/13/21 7:54	3.382	38.99	12.45	12.75	29.4	0
5/13/21 8:10	4.131	32.12	10.53	13.22	29.4	0
5/13/21 8:20	4.103	37.63	10.92	13.04	29.4	0
5/13/21 8:39	3.518	44.82	13.21	13.74	29.4	0
5/13/21 8:53	3.755	47.27	15.78	14.32	29.39	0
5/13/21 9:06	3.382	49.11	18.97	15.05	29.39	0
5/13/21 9:25	3.376	37.98	22.22	15.54	29.39	0
5/13/21 9:40	4.812	35.76	20.1	16.41	29.39	0
5/13/21 9:56	5.663	27.13	13.01	16.64	29.39	0
5/13/21 10:05	8.05	29.89	11	17.09	29.39	0
5/13/21 10:26	7.665	341.9	17.78	18.28	29.39	0
5/13/21 10:45	9.26	315.3	10.29	18.59	29.39	0
5/13/21 10:55	10.37	306.3	9.15	18.78	29.38	0
5/13/21 11:11	10.8	306.7	11.55	18.99	29.38	0
5/13/21 11:19	10.65	311.8	14.52	19.44	29.38	0
5/13/21 11:33	10.26	328	14.65	19.41	29.38	0
5/13/21 11:53	10.21	318.1	10.71	19.76	29.37	0
5/13/21 12:00	8.19	333.6	16.39	20.16	29.37	0
5/13/21 12:29	7.606	347.7	23.15	20.32	29.37	0
5/13/21 12:35	7.402	7.964	24.16	20.6	29.37	0
5/13/21 12:55	11.34	345.7	15.56	20.71	29.35	0
5/13/21 13:00	9.69	0.793	28.66	20.67	29.35	0
5/13/21 13:23	9.06	352.6	20.22	20.89	29.35	0
5/13/21 13:35	8.49	357.6	13.95	20.86	29.35	0
5/13/21 13:49	9.07	19.89	16.83	20.95	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
5/13/21 14:03	8.05	11.59	16.26	20.88	29.34	0
5/13/21 14:20	8.29	15.2	15.47	21.26	29.34	0
5/13/21 14:40	8.26	12.65	15.24	21.29	29.34	0
5/13/21 14:51	8.63	4.854	10.51	21.54	29.33	0
5/13/21 15:01	8.73	17.05	16.01	21.34	29.33	0
5/13/21 15:23	7.74	348	24.93	22.1	29.33	0
5/13/21 15:38	8.52	5.009	22	21.91	29.33	0
5/13/21 15:49	8.17	354.4	23.85	21.82	29.33	0
5/13/21 16:13	9.05	346	18.8	21.83	29.33	0
5/13/21 16:15	8.66	348.5	12.37	21.65	29.33	0
5/13/21 16:34	8.81	339.5	17.1	21.67	29.33	0
5/13/21 16:45	8.45	339.8	18.66	21.47	29.3	0
5/13/21 17:06	7.574	348.2	20.53	21.35	29.3	0
5/13/21 17:16	9.05	328.8	9.17	21.26	29.3	0
5/13/21 17:32	9.22	333.5	8.97	21.03	29.3	0
5/13/21 17:51	7.36	332.1	10.59	20.81	29.29	0
5/13/21 18:08	7.871	338	8.85	20.54	29.29	0
5/13/21 18:17	7.881	334.7	9.27	20.13	29.29	0
5/13/21 18:32	8.38	320.2	6.898	19.78	29.29	0
5/13/21 18:53	9.13	327.5	5.148	19.36	29.31	0
5/13/21 19:00	8.24	335.3	6.932	18.93	29.31	0
5/13/21 19:20	6.171	338.5	6.074	18.35	29.31	0
5/13/21 19:31	4.688	334.2	6.517	18.02	29.31	0
5/13/21 19:56	6.04	323.5	4.786	17.5	29.3	0
5/13/21 20:09	6.358	328.5	4.715	17.15	29.3	0
5/13/21 20:15	5.144	335.7	4.382	17	29.3	0
5/13/21 20:44	4.068	334	5.589	16.7	29.3	0
5/13/21 20:47	3.882	335.6	7.73	16.06	29.32	0
5/13/21 21:11	3.429	2.297	13.81	15.91	29.32	0
5/13/21 21:25	5.394	340.9	17.33	16.07	29.32	0
5/13/21 21:32	4.707	11.74	36.15	15.36	29.32	0
5/13/21 22:00	4.002	37.42	10.3	14.25	29.31	0
5/13/21 22:12	6.735	47.33	5.727	14.42	29.31	0
5/13/21 22:30	5.5	44.8	7.605	14.23	29.31	0
5/13/21 22:30	4.764	40.47	8.2	13.9	29.31	0
5/13/21 22:54	4.911	44.3	10.04	13.77	29.32	0
5/13/21 23:10	4.049	45.83	9.86	13.65	29.32	0
5/13/21 23:19	5.387	46.84	10.1	13.15	29.32	0
5/13/21 23:33	4.826	48.93	10.6	13.14	29.32	0
5/13/21 23:46	3.31	61.04	14.45	12.63	29.3	0
5/14/21 0:12	6.194	60.76	13.09	12.03	29.3	0
5/14/21 0:27	6.414	45.63	13.88	12.23	29.3	0
5/14/21 0:30	7.605	60.92	10.35	12.32	29.3	0
5/14/21 0:58	6.944	52.92	7.378	12.25	29.31	0
5/14/21 1:11	8.89	47.41	10.7	12.55	29.31	0
5/14/21 1:15	7.639	48.82	8.2	12.05	29.31	0
5/14/21 1:34	6.993	44.75	13.26	12.09	29.31	0
5/14/21 1:48	6.343	28.44	9.3	12.4	29.32	0
5/14/21 2:00	4.97	34.14	10.93	12.1	29.32	0
5/14/21 2:23	3.927	67.83	17.49	12.18	29.32	0
5/14/21 2:38	2.175	45.38	14.73	12.19	29.32	0
5/14/21 2:59	4.523	62.37	16.97	11.63	29.3	0
5/14/21 3:00	5.218	43.46	11.45	11.92	29.3	0
5/14/21 3:28	5.46	39.97	8.57	10.52	29.3	0
5/14/21 3:35	6.869	43.26	5.197	10.78	29.3	0
5/14/21 3:45	2.711	100.2	78.94	9.9	29.32	0
5/14/21 4:02	1.525	294.7	48.52	10.96	29.32	0
5/14/21 4:16	1.367	160.8	43.48	10.38	29.32	0
5/14/21 4:30	1.631	178	32.61	9.87	29.32	0
5/14/21 4:53	3.527	220.3	14.06	9.39	29.33	0
5/14/21 5:00	3.607	223.5	7.44	9.56	29.33	0
5/14/21 5:15	2.509	210.7	7.981	9.94	29.33	0
5/14/21 5:34	3.524	238.2	15.38	10.15	29.33	0
5/14/21 5:57	3.258	252.2	11.32	10.49	29.34	0
5/14/21 6:02	3.391	241.3	6.429	11.06	29.34	0
5/14/21 6:28	2.871	231.3	12.32	11.37	29.34	0
5/14/21 6:33	2.57	206.8	17.4	11.57	29.34	0
5/14/21 6:55	2.462	198.8	19.02	12.12	29.35	0
5/14/21 7:14	2.668	203.5	20.09	12.59	29.35	0
5/14/21 7:19	3.503	216.4	14.53	12.64	29.35	0
5/14/21 7:40	3.44	201.2	17.29	13.43	29.35	0
5/14/21 7:46	3.246	192.8	14.92	14.05	29.32	0
5/14/21 8:13	3.024	171	35.71	15.18	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
5/14/21 8:20	1.601	233.2	53.8	15.63	29.32	0
5/14/21 8:42	1.595	326.6	36.74	16.31	29.32	0
5/14/21 8:52	1.473	303.5	42.91	16.89	29.32	0
5/14/21 9:12	2.847	313.5	27.32	17.58	29.32	0
5/14/21 9:27	3.397	303.4	31.98	17.92	29.32	0
5/14/21 9:44	2.952	26.44	28.39	18.25	29.32	0
5/14/21 9:48	3.514	344	44.43	18.8	29.31	0
5/14/21 10:11	8.01	274.9	10.75	18.79	29.31	0
5/14/21 10:16	7.602	306.1	23.36	19.31	29.31	0
5/14/21 10:41	4.982	297.7	24.58	19.3	29.31	0
5/14/21 10:53	6.802	313.4	14.78	20.22	29.32	0
5/14/21 11:14	6.369	324.3	19.61	20.56	29.32	0
5/14/21 11:24	9.6	282.5	12.27	20.14	29.32	0
5/14/21 11:44	6.558	286.5	17.78	20.75	29.32	0
5/14/21 11:58	6.502	277.4	32.87	21.18	29.29	0
5/14/21 12:11	7.634	303.8	17.44	21.24	29.29	0
5/14/21 12:19	6.923	323.7	41.1	21.51	29.29	0
5/14/21 12:42	9.2	332	14.59	21.99	29.29	0
5/14/21 12:47	9.3	330.7	11.58	22.07	29.28	0
5/14/21 13:14	9.24	338.4	15.95	22.16	29.28	0
5/14/21 13:27	8.78	343.1	22.9	22.38	29.28	0
5/14/21 13:33	9.56	332.4	16.65	22.96	29.28	0
5/14/21 13:54	9.89	341.1	16.46	23.19	29.29	0
5/14/21 14:04	10.2	338.9	14	23.03	29.29	0
5/14/21 14:27	9.71	8.93	34.01	23.13	29.29	0
5/14/21 14:37	13.35	335.9	14.33	23.16	29.29	0
5/14/21 14:49	10.05	332.3	20.97	23.28	29.24	0
5/14/21 15:00	9.96	339.4	27.78	23.17	29.24	0
5/14/21 15:24	10.47	324.1	14.62	23.21	29.24	0
5/14/21 15:42	8.18	325.3	18.43	23.17	29.24	0
5/14/21 15:57	12.41	327.4	13.42	23.17	29.25	0
5/14/21 16:02	10.04	329.3	18.17	23.03	29.25	0
5/14/21 16:28	11.74	313.4	8.5	22.98	29.25	0
5/14/21 16:42	12.99	314.3	10.23	22.54	29.25	0
5/14/21 16:46	12.07	313.7	8.64	22.38	29.23	0
5/14/21 17:04	11.2	315.8	9.19	22.21	29.23	0
5/14/21 17:24	10.74	320.2	9.22	21.93	29.23	0
5/14/21 17:42	9.58	321.4	9.69	21.87	29.23	0
5/14/21 17:47	10.67	325.4	8.01	21.53	29.23	0
5/14/21 18:10	9.71	329	8.42	21.34	29.23	0
5/14/21 18:29	9.31	333.5	12.42	20.95	29.23	0
5/14/21 18:36	11.12	326.5	6.361	20.4	29.23	0
5/14/21 18:45	8.93	336.7	9.61	19.79	29.26	0
5/14/21 19:01	8.97	351.3	9.84	19.18	29.26	0
5/14/21 19:25	6.669	349.5	12.12	18.57	29.26	0
5/14/21 19:31	5.697	342.1	9.82	18.02	29.26	0
5/14/21 19:48	6.58	344.6	10.04	17.49	29.26	0
5/14/21 20:14	6.241	348.6	12.11	17.27	29.26	0
5/14/21 20:17	5.973	8.22	19.66	17.26	29.26	0
5/14/21 20:42	5.174	6.61	12.37	17.06	29.26	0
5/14/21 20:53	7.376	7.37	11.19	16.76	29.27	0
5/14/21 21:08	9.73	10.02	8.29	16.11	29.27	0
5/14/21 21:19	10.59	22.61	11.04	15.72	29.27	0
5/14/21 21:36	9.84	36.86	8.85	16.01	29.27	0
5/14/21 21:57	8.76	27.69	11.12	15.18	29.27	0
5/14/21 22:11	7.244	33.68	12.96	15.24	29.27	0
5/14/21 22:19	7.08	51.73	14.35	14.77	29.27	0
5/14/21 22:42	8.34	44.87	12.84	13.98	29.27	0
5/14/21 22:56	6.799	42.77	11.97	13.79	29.26	0
5/14/21 23:13	5.422	35.44	11.94	13.85	29.26	0
5/14/21 23:27	5.818	30.1	8.97	13.7	29.26	0
5/14/21 23:38	6.18	26.98	7.684	12.81	29.26	0
5/14/21 23:46	6.791	37.11	8.7	12.66	29.26	0
5/15/21 0:11	7.349	43.94	11.44	12.11	29.26	0
5/15/21 0:17	7.435	46.68	9	11.77	29.26	0
5/15/21 0:41	4.84	25.37	10.57	10.93	29.26	0
5/15/21 0:56	6.262	38.57	11.59	10.49	29.29	0
5/15/21 1:02	7.375	48.8	6.485	10.52	29.29	0
5/15/21 1:19	6.56	38.76	5.387	10.38	29.29	0
5/15/21 1:30	4.343	85	22.37	10.09	29.29	0
5/15/21 1:46	3.411	89.3	12.84	11.01	29.27	0
5/15/21 2:13	3.629	44.68	16.77	10.74	29.27	0
5/15/21 2:22	3.791	24.53	9.35	10.37	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
5/15/21 2:33	3.151	28.15	5.39	9.98	29.27	0
5/15/21 2:51	0.818	78.13	14.9	9.58	29.28	0
5/15/21 3:11	2.57	115.2	14.9	9.81	29.28	0
5/15/21 3:26	2.879	128.7	15.19	10.59	29.28	0
5/15/21 3:31	2.996	127.2	27.14	11.01	29.28	0
5/15/21 3:59	0.585	72.59	47.51	10.6	29.28	0
5/15/21 4:07	2.7	162.8	22.04	11.05	29.28	0
5/15/21 4:28	1.143	49.87	16.52	9.35	29.28	0
5/15/21 4:30	1.039	51.89	4.072	9.82	29.28	0
5/15/21 4:53	0.156	53.05	1.432	10.21	29.3	0
5/15/21 5:12	1.412	106.8	75.47	10.21	29.3	0
5/15/21 5:26	2.131	195.1	12.22	10.03	29.3	0
5/15/21 5:44	1.758	213.6	10.19	10.16	29.3	0
5/15/21 5:45	2.336	225.6	13.4	10.37	29.29	0
5/15/21 6:01	2.476	201.6	11.09	10.55	29.29	0
5/15/21 6:22	3.253	201	13.81	10.71	29.29	0
5/15/21 6:38	2.775	219.8	20.38	10.97	29.29	0
5/15/21 6:53	2.326	202.1	20.04	11.4	29.29	0
5/15/21 7:11	1.526	152.9	33.4	12.18	29.29	0
5/15/21 7:26	1.545	249.1	47.38	12.71	29.29	0
5/15/21 7:35	1.806	240.9	27.86	13.08	29.29	0
5/15/21 7:59	2.398	269.6	22.84	13.45	29.31	0
5/15/21 8:12	3.571	247.5	25.26	13.68	29.31	0
5/15/21 8:29	2.687	270.7	34.4	14.3	29.31	0
5/15/21 8:36	3.314	303.3	19.2	14.85	29.31	0
5/15/21 8:51	2.784	317.1	23.45	15.33	29.31	0
5/15/21 9:06	3.15	286.6	48.38	15.86	29.31	0
5/15/21 9:26	5.429	261.7	29.1	15.88	29.31	0
5/15/21 9:44	5.178	284.2	21.81	16.44	29.31	0
5/15/21 9:51	6.24	279.3	18.25	16.61	29.29	0
5/15/21 10:13	7.443	269.7	19.2	16.83	29.29	0
5/15/21 10:25	7.096	260.5	14.08	17.18	29.29	0
5/15/21 10:31	5.413	284.6	30.61	17.58	29.29	0
5/15/21 10:52	4.356	266.7	29.97	18	29.29	0
5/15/21 11:05	6.075	267.1	26.8	18.22	29.29	0
5/15/21 11:29	4.274	262	26.25	18.77	29.29	0
5/15/21 11:32	6.048	286.9	27.29	19.24	29.29	0
5/15/21 11:56	5.604	285.6	20.5	19.39	29.28	0
5/15/21 12:04	7.972	276.4	17.14	20.03	29.28	0
5/15/21 12:29	6.991	284.4	24.94	20.22	29.28	0
5/15/21 12:32	8.42	268.8	21.14	20.5	29.28	0
5/15/21 12:53	8.58	287.8	19.41	21.02	29.25	0
5/15/21 13:07	8.24	285.2	26.16	21.21	29.25	0
5/15/21 13:26	8.76	284.9	19.28	21.26	29.25	0
5/15/21 13:39	11.12	284.3	11.24	21.54	29.25	0
5/15/21 13:55	9.57	308	18.55	22.13	29.24	0
5/15/21 14:08	8.42	303.3	18.2	22.34	29.24	0
5/15/21 14:16	8.14	294.5	15.78	22.49	29.24	0
5/15/21 14:44	8.98	295.7	15.41	22.85	29.24	0
5/15/21 14:45	7.544	304.6	16.91	22.96	29.24	0
5/15/21 15:00	9.05	334.7	13.82	23.09	29.24	0
5/15/21 15:16	7.801	320.9	16.31	23.26	29.24	0
5/15/21 15:33	8.12	335.2	17.96	23.24	29.24	0
5/15/21 15:56	7.898	323.3	15.29	23.34	29.2	0
5/15/21 16:07	8.96	319.7	12.9	23.36	29.2	0
5/15/21 16:22	8.98	326.1	10.36	23.22	29.2	0
5/15/21 16:38	8.83	322.4	11.65	23.12	29.2	0
5/15/21 16:55	9.33	323.5	11.64	23.07	29.22	0
5/15/21 17:02	9.57	316.9	9.51	22.83	29.22	0
5/15/21 17:17	8.65	320.6	11.29	22.75	29.22	0
5/15/21 17:44	9.2	321.1	7.57	22.52	29.22	0
5/15/21 17:53	9.91	329.6	7.313	22.23	29.18	0
5/15/21 18:04	9.26	329.9	5.781	22.08	29.18	0
5/15/21 18:19	7.958	341	9.13	21.8	29.18	0
5/15/21 18:34	6.521	345.3	9.99	21.19	29.18	0
5/15/21 18:46	5.498	349.3	11.61	20.96	29.2	0
5/15/21 19:02	4.835	341.5	7.718	20.74	29.2	0
5/15/21 19:27	5.972	325.1	8.74	20.02	29.2	0
5/15/21 19:37	7.272	331.6	5.058	19.6	29.2	0
5/15/21 19:56	5.278	339.7	14.36	19.03	29.2	0
5/15/21 20:01	1.128	47	44.76	18.42	29.2	0
5/15/21 20:20	0.386	44.84	11.14	18.42	29.2	0
5/15/21 20:40	2.151	339	19.51	17.96	29.2	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
5/15/21 20:58	3.721	341.3	29.08	17.48	29.19	0
5/15/21 21:10	5.981	357.8	19.17	16.57	29.19	0
5/15/21 21:24	6.682	343.3	15.45	17.16	29.19	0
5/15/21 21:30	5.929	351.5	12.02	16.92	29.19	0
5/15/21 21:57	4.868	14.83	7.997	16.54	29.22	0
5/15/21 22:09	7.352	28.33	5.323	16.25	29.22	0
5/15/21 22:23	5.781	43.93	10.27	15.91	29.22	0
5/15/21 22:40	5.85	35.19	8.9	15.2	29.22	0
5/15/21 22:57	7.25	30.61	8.71	14.57	29.19	0
5/15/21 23:02	5.802	33.54	13.84	14.48	29.19	0
5/15/21 23:20	4.1	83.5	25.93	13.59	29.19	0
5/15/21 23:39	4.727	70.57	17.94	13.27	29.19	0
5/15/21 23:52	4.547	61.49	11.08	12.99	29.19	0
5/16/21 0:03	2.827	66.26	15.44	12.9	29.19	0
5/16/21 0:28	3.309	54.91	10.71	13.58	29.19	0
5/16/21 0:44	2.984	58.3	9.36	13.3	29.19	0
5/16/21 0:48	3.475	41.05	6.318	13.14	29.2	0
5/16/21 1:02	1.074	101	37.22	12.97	29.2	0
5/16/21 1:25	2.811	277.3	30.04	12.64	29.2	0
5/16/21 1:32	1.791	56.08	24.03	12.99	29.2	0
5/16/21 1:55	0.27	58.82	5.644	12.67	29.21	0
5/16/21 2:13	0.519	32.74	3.04	12.32	29.21	0
5/16/21 2:19	0.805	52.45	3.39	12.32	29.21	0
5/16/21 2:42	1.559	49.99	5.845	12.04	29.21	0
5/16/21 2:45	1.148	61.93	11.32	11.59	29.18	0
5/16/21 3:13	1.099	55.11	8.28	11.73	29.18	0
5/16/21 3:29	0.526	52.23	37.31	11.74	29.18	0
5/16/21 3:37	4.234	221	7.397	11.59	29.18	0
5/16/21 3:45	3.176	237.9	19.02	11.25	29.2	0
5/16/21 4:12	4.098	197.6	6.753	11.19	29.2	0
5/16/21 4:23	4.018	185.1	6.568	11.28	29.2	0
5/16/21 4:34	3.552	173.1	6.174	10.81	29.2	0
5/16/21 4:45	3.573	154.7	8.32	10.67	29.21	0
5/16/21 5:06	3.52	159.2	5.607	10.74	29.21	0
5/16/21 5:29	2.553	130.6	6.875	11.64	29.21	0
5/16/21 5:30	3.222	121.6	5.058	12.61	29.21	0
5/16/21 5:52	2.249	153	14.73	12.52	29.19	0
5/16/21 6:14	1.66	195.2	16.34	13.07	29.19	0
5/16/21 6:25	2.417	181.6	18.12	12.84	29.19	0
5/16/21 6:39	3.31	215.7	8.8	12.65	29.19	0
5/16/21 6:59	3.351	208.2	12.52	13.22	29.19	0
5/16/21 7:02	3.62	212.2	14.04	13.55	29.19	0
5/16/21 7:15	2.549	233	14.6	14.14	29.19	0
5/16/21 7:30	1.791	254.2	29	14.9	29.19	0
5/16/21 7:47	1.713	298.1	24.16	15.56	29.18	0
5/16/21 8:00	1.946	283.7	39.66	16.01	29.18	0
5/16/21 8:24	1.37	327.1	46.34	16.69	29.18	0
5/16/21 8:32	2.709	339.9	23.84	17.18	29.18	0
5/16/21 8:46	3.248	295.1	32.18	17.37	29.2	0
5/16/21 9:08	3.63	319.5	31.77	17.74	29.2	0
5/16/21 9:26	2.339	269	36.8	18.32	29.2	0
5/16/21 9:37	3.367	268.3	26.1	18.41	29.2	0
5/16/21 9:48	5.644	304.1	22.05	19	29.18	0
5/16/21 10:10	6.52	273.4	13.12	18.8	29.18	0
5/16/21 10:24	7.207	274	19.94	19.17	29.18	0
5/16/21 10:32	6.324	282.1	16.11	19.52	29.18	0
5/16/21 10:59	7.796	274.9	13.22	19.87	29.16	0
5/16/21 11:00	7.689	274.2	15.93	20.06	29.16	0
5/16/21 11:26	7.386	272	14.59	20.75	29.16	0
5/16/21 11:42	7.549	276.2	17.58	21.31	29.16	0
5/16/21 11:58	6.349	299	27.21	21.82	29.16	0
5/16/21 12:10	6.237	288	21.2	21.99	29.16	0
5/16/21 12:25	7.342	305.5	27.5	22.46	29.16	0
5/16/21 12:40	7.193	295.3	22.34	22.78	29.16	0
5/16/21 12:58	6.877	283.6	20.83	22.65	29.13	0
5/16/21 13:05	8.84	283.4	18.32	23.14	29.13	0
5/16/21 13:24	7.367	288.5	22.64	23.78	29.13	0
5/16/21 13:32	9.33	268.7	12.9	23.55	29.13	0
5/16/21 13:57	9.3	281.9	15.96	24.05	29.14	0
5/16/21 14:11	7.975	294	15.82	24.13	29.14	0
5/16/21 14:24	7.619	309.1	15.84	24.43	29.14	0
5/16/21 14:32	8.02	305.6	17.05	24.4	29.14	0
5/16/21 14:45	7.759	301.6	14.51	24.44	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
5/16/21 15:09	8.51	297.5	15.56	24.69	29.12	0
5/16/21 15:26	9.92	290.7	15.43	24.64	29.12	0
5/16/21 15:40	10.34	288.4	12.9	24.72	29.12	0
5/16/21 15:53	9.58	299.2	13.7	24.61	29.1	0
5/16/21 16:03	9.55	291.2	12.8	24.63	29.1	0
5/16/21 16:16	9.05	313.2	14.54	24.78	29.1	0
5/16/21 16:32	8.36	306.3	10.45	24.57	29.1	0
5/16/21 16:47	8.11	328.1	9.45	24.54	29.08	0
5/16/21 17:07	7.021	330.6	15.88	24.55	29.08	0
5/16/21 17:18	7.816	317.3	12.54	24.39	29.08	0
5/16/21 17:43	7.19	327.9	8.93	24.16	29.08	0
5/16/21 17:56	7.259	314.6	10.99	24.16	29.06	0
5/16/21 18:13	7.948	313.2	6.733	23.84	29.06	0
5/16/21 18:25	7.927	319.7	6.156	23.28	29.06	0
5/16/21 18:44	8.65	316.5	5.491	22.96	29.06	0
5/16/21 18:45	7.942	316.9	5.403	22.59	29.06	0
5/16/21 19:02	6.395	314.2	3.872	22.22	29.06	0
5/16/21 19:18	6.372	309.1	3.683	21.82	29.06	0
5/16/21 19:37	5.892	309	3.673	21.33	29.06	0
5/16/21 19:46	5.441	314.5	2.434	21.03	29.05	0
5/16/21 20:07	5.494	315.7	3.441	20.61	29.05	0
5/16/21 20:28	4.496	351.5	41.03	19.56	29.05	0
5/16/21 20:42	4.82	25.91	7.672	19.11	29.05	0
5/16/21 20:47	5.515	31.49	5.845	18.73	29.06	0
5/16/21 21:06	6.27	16.54	23.99	18.34	29.06	0
5/16/21 21:15	2.998	1.622	41.94	18.14	29.06	0
5/16/21 21:38	5.788	33.61	12.56	17.58	29.06	0
5/16/21 21:58	3.897	24.22	25.26	16.89	29.07	0
5/16/21 22:13	8.47	27.18	10.24	16.54	29.07	0
5/16/21 22:21	6.276	47.05	14.4	15.8	29.07	0
5/16/21 22:31	4.026	79.25	21.37	14.96	29.07	0
5/16/21 22:55	4.71	189	19.33	14.21	29.08	0
5/16/21 23:05	5.579	231.5	8.93	14.37	29.08	0
5/16/21 23:22	4.599	241.1	10.11	14.26	29.08	0
5/16/21 23:41	2.692	242.2	11.55	14.03	29.08	0
5/16/21 23:52	3.239	287.7	16.89	13.57	29.09	0
5/17/21 0:14	3.965	284.1	9.6	13.31	29.09	0
5/17/21 0:27	6.547	255.1	5.814	12.92	29.09	0
5/17/21 0:33	6.838	262.2	10.08	12.36	29.09	0
5/17/21 0:48	4.925	269.3	4.449	11.98	29.1	0
5/17/21 1:02	5.32	259.7	13.29	11.64	29.1	0
5/17/21 1:15	3.479	212.5	22.7	11.48	29.1	0
5/17/21 1:44	3	173.3	28.59	11.08	29.1	0
5/17/21 1:59	5.52	199.8	6.185	11.32	29.09	0
5/17/21 2:02	7.218	195.7	7.099	11.1	29.09	0
5/17/21 2:18	5.86	203.5	12.21	10.82	29.09	0
5/17/21 2:36	5.9	234.8	12.92	10.92	29.09	0
5/17/21 2:52	5.594	229.9	21.47	10.93	29.13	0
5/17/21 3:05	5.336	167.8	22.69	10.71	29.13	0
5/17/21 3:24	7.199	145	9.09	10.55	29.13	0
5/17/21 3:37	7.947	155.5	9.99	10.5	29.13	0
5/17/21 3:47	9.26	177.9	15.21	10.57	29.11	0
5/17/21 4:03	9.24	191.8	9.11	10.6	29.11	0
5/17/21 4:16	10.15	197	8.95	10.57	29.11	0
5/17/21 4:37	7.682	197	11.52	10.41	29.11	0
5/17/21 4:46	8.55	196.1	8.29	10.27	29.15	0
5/17/21 5:08	7.943	191.9	11.15	10.14	29.15	0
5/17/21 5:25	8.9	190.8	9.25	10.12	29.15	0
5/17/21 5:43	9.33	192.3	9.44	10.16	29.15	0
5/17/21 5:55	10.16	194.7	9.71	10.19	29.14	0
5/17/21 6:10	9.4	193.9	7.319	10.14	29.14	0
5/17/21 6:21	9.92	176.8	10.2	10.17	29.14	0
5/17/21 6:32	10.6	175.1	10.14	10.26	29.14	0
5/17/21 6:45	8.37	183.5	9.68	10.28	29.17	0
5/17/21 7:10	10.15	179.2	9.55	10.32	29.17	0
5/17/21 7:15	9.36	188.1	9.55	10.22	29.17	0
5/17/21 7:35	8.7	188.3	12.19	10.34	29.17	0
5/17/21 7:53	9.3	168.5	12.7	10.31	29.14	0
5/17/21 8:12	10.21	187.1	15.25	10.45	29.14	0
5/17/21 8:25	9.4	200.4	10.98	10.94	29.14	0
5/17/21 8:44	8.51	197.1	11.85	11.18	29.14	0
5/17/21 8:45	8.5	194.4	11.21	11.24	29.17	0
5/17/21 9:14	9.25	206	10.53	11.87	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
5/17/21 9:23	9.82	194.3	9.9	11.88	29.17	0
5/17/21 9:42	8.91	217.3	10.96	12.2	29.17	0
5/17/21 9:57	7.423	214.6	15.28	12.4	29.16	0
5/17/21 10:05	8.3	218.9	15.08	12.59	29.16	0
5/17/21 10:15	7.894	237.6	20.86	12.71	29.16	0
5/17/21 10:44	7.081	242.8	13.32	12.75	29.16	0
5/17/21 10:48	7.114	216.8	16.31	13.11	29.14	0
5/17/21 11:04	4.907	194.7	32.25	13.42	29.14	0
5/17/21 11:18	5.231	208.5	24.31	13.76	29.14	0
5/17/21 11:33	5.914	199.5	25.81	13.94	29.14	0
5/17/21 11:56	6.814	251.5	20.65	14.2	29.15	0
5/17/21 12:00	5.455	247.8	21.49	14.47	29.15	0
5/17/21 12:26	5.635	266.9	22.45	14.58	29.15	0
5/17/21 12:44	4.339	281.3	28.45	14.96	29.15	0
5/17/21 12:55	6.252	267.4	38.67	15.34	29.13	0
5/17/21 13:11	5.818	261.6	27.36	15.6	29.13	0
5/17/21 13:26	7.313	271.2	15.66	15.24	29.13	0
5/17/21 13:37	8.59	237.7	23.96	15.19	29.13	0
5/17/21 13:59	9.36	229.3	24.42	14.96	29.11	0
5/17/21 14:14	10.19	256.7	13.46	14.49	29.11	0
5/17/21 14:21	11.9	249.1	9.75	14.2	29.11	0
5/17/21 14:30	7.975	252.1	12.85	14.14	29.11	0
5/17/21 14:55	6.981	243.4	13.43	14.29	29.14	0
5/17/21 15:06	6.046	221	22.96	14.43	29.14	0
5/17/21 15:27	8.57	246.6	10.37	14.43	29.14	0
5/17/21 15:38	10.35	244.7	11.02	14.25	29.14	0
5/17/21 15:48	9.87	251.7	10.16	13.96	29.13	0
5/17/21 16:05	7.845	242.6	13.59	13.92	29.13	0
5/17/21 16:19	7.261	256.5	12.8	13.61	29.13	0
5/17/21 16:44	5.333	242.4	32.26	13.19	29.13	0
5/17/21 16:45	3.994	239.6	25.55	12.73	29.12	0
5/17/21 17:14	3.211	211.3	17.56	12.5	29.12	0.01
5/17/21 17:28	4.742	245	16.39	12.49	29.12	0
5/17/21 17:37	8.53	277.1	11.39	12.13	29.12	0
5/17/21 17:55	8.81	267.7	8.12	11.75	29.11	0
5/17/21 18:01	7.542	259.9	6.925	11.58	29.11	0
5/17/21 18:20	10.32	262.6	7.515	11.22	29.11	0
5/17/21 18:34	10.15	255.6	8.45	10.8	29.11	0
5/17/21 18:50	9.4	250.5	8.59	10.5	29.09	0.01
5/17/21 19:12	8.9	242.4	13.81	10.34	29.09	0.03
5/17/21 19:15	5.723	197.1	20.11	10.19	29.09	0.01
5/17/21 19:35	6.369	190.1	10.54	10.23	29.09	0.01
5/17/21 19:48	5.302	183.2	12.37	10.24	29.11	0
5/17/21 20:07	6.294	184.2	10.68	10.33	29.11	0
5/17/21 20:16	7.575	161.5	14.22	10.24	29.11	0.01
5/17/21 20:43	7.785	159.8	11.12	10.16	29.11	0
5/17/21 20:58	7.547	164.3	13.33	10.16	29.1	0.01
5/17/21 21:05	8.26	168.5	10.17	10.01	29.1	0.01
5/17/21 21:15	7.332	144.7	9.95	9.85	29.1	0
5/17/21 21:42	9.57	147.7	6.578	9.93	29.1	0
5/17/21 21:52	11.64	157.6	8.61	10.07	29.11	0.01
5/17/21 22:04	12.54	173.7	16.17	10.2	29.11	0.01
5/17/21 22:19	18.09	215.9	13.63	10.2	29.11	0.01
5/17/21 22:30	14.21	215.6	12.23	9.9	29.11	0
5/17/21 22:55	12.3	201	11.3	9.57	29.14	0
5/17/21 23:02	9.7	197.4	10.8	9.2	29.14	0
5/17/21 23:27	10.69	188.1	9.09	8.92	29.14	0
5/17/21 23:40	13.17	189.9	8.97	8.92	29.14	0
5/17/21 23:52	13.51	192.2	10.02	8.94	29.18	0
5/18/21 0:08	13.42	204	10.4	8.88	29.18	0
5/18/21 0:25	12.92	203.1	9.19	8.83	29.18	0
5/18/21 0:32	13.9	198.6	8.55	8.71	29.18	0
5/18/21 0:49	13.54	190.5	8.82	8.41	29.19	0
5/18/21 1:02	10.6	188.8	9.48	8.26	29.19	0
5/18/21 1:26	13.47	194.6	10.97	8.31	29.19	0
5/18/21 1:35	14.17	196.7	11.4	8.18	29.19	0
5/18/21 1:57	12.97	197.1	9.82	8.2	29.21	0
5/18/21 2:06	14.19	196.7	10.17	8.08	29.21	0
5/18/21 2:17	12.45	194.1	9.05	7.785	29.21	0
5/18/21 2:34	12.34	198	9.07	7.424	29.21	0
5/18/21 2:46	9.68	186.4	11.87	7.145	29.24	0
5/18/21 3:11	9.59	173.9	12.29	7.186	29.24	0
5/18/21 3:27	9.17	174.7	15.04	7.194	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
5/18/21 3:42	9.37	193.2	11.11	7.187	29.24	0
5/18/21 3:57	10.29	178.8	9.07	7.05	29.25	0
5/18/21 4:08	11.89	175.4	10.58	7.006	29.25	0
5/18/21 4:26	10.78	182.6	10.56	6.999	29.25	0
5/18/21 4:43	9.84	184.7	9.77	6.888	29.25	0
5/18/21 4:54	12.39	187	11.37	6.714	29.25	0
5/18/21 5:06	11.36	186.4	10.84	6.55	29.25	0
5/18/21 5:27	10.43	177.6	8.17	6.404	29.25	0
5/18/21 5:44	10.28	168.9	8.84	6.46	29.25	0
5/18/21 5:49	11.75	178.3	14.71	6.675	29.28	0
5/18/21 6:04	8.87	164.8	16.71	6.591	29.28	0
5/18/21 6:26	6.754	147	15.69	6.776	29.28	0
5/18/21 6:39	8.24	151.8	12.79	6.953	29.28	0
5/18/21 6:59	7.558	147.9	11.22	7.294	29.31	0
5/18/21 7:09	8.24	172.1	21.22	8.24	29.31	0
5/18/21 7:25	12.5	195.3	10.9	8.58	29.31	0
5/18/21 7:44	12.91	202.5	10.51	8.85	29.31	0
5/18/21 7:59	12.55	205.7	14.48	8.73	29.32	0
5/18/21 8:00	12.05	208.7	10.86	8.75	29.32	0
5/18/21 8:27	11.13	204	9.49	8.84	29.32	0
5/18/21 8:39	8.64	200.7	10.8	9	29.32	0
5/18/21 8:53	9.1	202.8	13.7	9.82	29.31	0
5/18/21 9:12	11.95	225.5	12.88	10.12	29.31	0
5/18/21 9:29	11.18	218.1	11.9	10.29	29.31	0
5/18/21 9:31	11.51	232.5	12.08	10.34	29.31	0
5/18/21 9:47	10.71	215.8	17.58	11.02	29.33	0
5/18/21 10:05	13.99	204.8	13.56	11.4	29.33	0
5/18/21 10:26	13.09	201.8	11.61	11.62	29.33	0
5/18/21 10:44	12.58	212.1	14.4	11.58	29.33	0
5/18/21 10:53	10.87	223	17.39	11.8	29.33	0
5/18/21 11:06	11.21	226.5	14.3	11.89	29.33	0
5/18/21 11:28	8.95	229.3	21.97	12.08	29.33	0
5/18/21 11:32	11.57	246.6	12.41	11.9	29.33	0
5/18/21 11:47	15.7	208.5	17.65	11.81	29.33	0
5/18/21 12:05	13.63	176.7	13.66	11.98	29.33	0
5/18/21 12:20	14.32	171.4	14.96	11.99	29.33	0
5/18/21 12:38	12.83	171.7	15.82	12.36	29.33	0
5/18/21 12:51	13.08	167.7	15.84	12.63	29.31	0
5/18/21 13:14	11.6	179.4	16.82	12.59	29.31	0
5/18/21 13:17	10.99	188.1	14.45	12.51	29.31	0
5/18/21 13:34	10.12	169.1	15.67	12.47	29.31	0
5/18/21 13:55	10.09	199.3	12.15	12.59	29.3	0
5/18/21 14:14	8.1	176.8	16.85	13.11	29.3	0
5/18/21 14:16	9.5	192.7	13.41	12.97	29.3	0
5/18/21 14:31	12.98	219.5	19.96	13.69	29.3	0
5/18/21 14:45	12.85	181.4	10.18	12.92	29.3	0
5/18/21 15:10	11.15	172.7	13.01	13.28	29.3	0
5/18/21 15:16	8.15	199.9	14.64	13.63	29.3	0
5/18/21 15:36	14.57	189.4	17.23	13.24	29.3	0
5/18/21 15:45	12.21	162.9	10.33	12.29	29.29	0
5/18/21 16:00	9.35	165.4	16.22	12.03	29.29	0
5/18/21 16:23	9.24	174.1	13.67	12.52	29.29	0
5/18/21 16:33	9.66	162.3	13.53	12.28	29.29	0
5/18/21 16:51	8.77	151.8	8.83	11.77	29.29	0
5/18/21 17:13	11.8	180	12.36	12.16	29.29	0
5/18/21 17:17	11.89	180.2	11.7	12.02	29.29	0
5/18/21 17:31	6.787	121.7	51.03	11.74	29.29	0
5/18/21 17:59	5.728	30.35	25.37	10.76	29.29	0
5/18/21 18:13	6.303	11.86	13.75	11.3	29.29	0
5/18/21 18:23	7.059	32.39	13.08	10.75	29.29	0
5/18/21 18:38	8.39	26.76	11.96	9.96	29.29	0
5/18/21 18:45	6.289	23.83	21.04	9.69	29.3	0
5/18/21 19:02	5.651	61.48	21.97	9.25	29.3	0
5/18/21 19:21	5.066	97.6	10.02	8.7	29.3	0
5/18/21 19:38	4.95	79.85	15.94	8.48	29.3	0
5/18/21 19:47	3.119	95.3	29.83	8.5	29.3	0
5/18/21 20:12	2.775	83.5	23.07	8.47	29.3	0
5/18/21 20:16	2.177	48.97	12.17	8.37	29.3	0
5/18/21 20:30	3.939	51.96	10.29	8.32	29.3	0
5/18/21 20:54	5.566	34.75	11.14	8.01	29.29	0
5/18/21 21:01	5.358	4.37	19.14	7.885	29.29	0
5/18/21 21:30	2.55	88.2	71.27	7.428	29.29	0.01
5/18/21 21:35	3.405	79.72	25.52	7.189	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
5/18/21 21:54	4.762	33	8.56	6.893	29.31	0.02
5/18/21 22:13	5.323	42.27	18.43	6.638	29.31	0.02
5/18/21 22:17	4.682	53.56	8.6	6.542	29.31	0.03
5/18/21 22:32	3.99	58.52	14.83	6.445	29.31	0.03
5/18/21 22:45	3.416	79.42	7.68	6.508	29.31	0.01
5/18/21 23:00	2.999	62.83	19.46	6.532	29.31	0
5/18/21 23:25	6.583	25.05	6.456	6.328	29.31	0
5/18/21 23:32	10.11	10.21	10.1	6.084	29.31	0
5/18/21 23:46	8.4	21.28	19.73	6.101	29.29	0
5/19/21 0:00	5.24	40.61	10.18	5.93	29.29	0
5/19/21 0:16	6.122	45.44	11.17	5.797	29.29	0
5/19/21 0:31	5.138	50.05	12.18	5.767	29.29	0.01
5/19/21 0:47	6.01	26.28	15.83	5.912	29.29	0
5/19/21 1:05	6.903	355.2	13.57	6.152	29.29	0
5/19/21 1:15	4.871	5.339	15.58	6.231	29.29	0
5/19/21 1:44	4.784	27.52	13.2	6.071	29.29	0
5/19/21 1:45	2.927	42.4	13.35	6	29.27	0
5/19/21 2:06	1.959	70.02	18.02	6.328	29.27	0
5/19/21 2:25	2.205	27.78	18.75	6.398	29.27	0
5/19/21 2:37	2.178	68.55	19.89	6.482	29.27	0
5/19/21 2:46	0.924	50.22	15.61	6.336	29.29	0
5/19/21 3:05	0.41	40.45	7.053	6.675	29.29	0
5/19/21 3:19	0.565	289.1	38.42	6.898	29.29	0
5/19/21 3:31	3.281	306	31.14	6.855	29.29	0
5/19/21 3:45	3.557	325.4	21.89	5.834	29.29	0
5/19/21 4:00	1.053	25.93	34.75	5.992	29.29	0
5/19/21 4:18	0.997	16.74	39.21	6.194	29.29	0
5/19/21 4:40	1.195	353.7	28.24	6.044	29.29	0
5/19/21 4:59	2.953	329.4	11.78	6.44	29.3	0
5/19/21 5:09	4.763	2.286	21.62	6.41	29.3	0
5/19/21 5:16	5.432	340.8	12.14	6.662	29.3	0
5/19/21 5:41	6.576	7.915	9.15	6.365	29.3	0
5/19/21 5:47	6.916	10.09	8.83	6.403	29.3	0
5/19/21 6:14	7.941	12.6	7.922	6.387	29.3	0
5/19/21 6:16	6.712	3.585	11.07	6.515	29.3	0
5/19/21 6:40	5.415	2.49	13.84	6.799	29.3	0
5/19/21 6:53	4.337	353.7	17.4	7.473	29.29	0
5/19/21 7:00	4.249	10.8	22.08	8.06	29.29	0
5/19/21 7:29	5.998	24.15	11.81	7.898	29.29	0
5/19/21 7:41	6.258	22.97	12.82	7.771	29.29	0
5/19/21 7:58	7.345	20.35	10.71	7.791	29.3	0
5/19/21 8:03	8.02	17.19	11.67	7.783	29.3	0
5/19/21 8:20	4.985	42.53	15.52	7.985	29.3	0
5/19/21 8:32	5.725	298	16.21	7.544	29.3	0
5/19/21 8:51	6.854	326.1	19.75	7.043	29.3	0.02
5/19/21 9:02	4.838	14.18	14.66	6.409	29.3	0.02
5/19/21 9:29	5.384	0.766	16.02	6.362	29.3	0.04
5/19/21 9:30	5.007	327.7	9.14	6.29	29.3	0.02
5/19/21 9:45	5.296	343.1	17.43	6.99	29.29	0.01
5/19/21 10:10	4.172	316.9	9.03	7.415	29.29	0
5/19/21 10:27	3.118	323.7	23.26	8.14	29.29	0
5/19/21 10:40	3.228	327.9	22.88	8.64	29.29	0
5/19/21 10:59	4.189	322.2	26.28	9.31	29.28	0
5/19/21 11:10	6.323	307	18.31	9.73	29.28	0
5/19/21 11:20	5.804	303.5	13.02	10.05	29.28	0
5/19/21 11:40	8.16	319.4	18.72	10.65	29.28	0
5/19/21 11:51	7.995	331.1	37.13	11.07	29.26	0
5/19/21 12:03	8.71	264.4	11.06	10.53	29.26	0
5/19/21 12:20	10.41	326.2	16.66	10.03	29.26	0
5/19/21 12:30	8.18	267.7	24.32	8.84	29.26	0
5/19/21 12:45	3.192	297.4	26.57	9.29	29.25	0
5/19/21 13:04	3.681	337.4	13.98	10.55	29.25	0
5/19/21 13:26	4.868	306.4	30.49	11.21	29.25	0
5/19/21 13:34	4.232	274.9	26.94	11.2	29.25	0
5/19/21 13:53	9.42	283.9	15.62	12.8	29.24	0
5/19/21 14:01	7.839	285.9	26.35	12.75	29.24	0
5/19/21 14:22	8.53	294.7	13.09	12.96	29.24	0
5/19/21 14:43	9.04	287.8	20.58	12.78	29.24	0
5/19/21 14:50	11.02	288.6	19.13	13.24	29.23	0
5/19/21 15:00	9.77	301.1	37.34	13.17	29.23	0
5/19/21 15:20	10.29	302.8	19.39	13.55	29.23	0
5/19/21 15:32	8.54	312	19.46	13.74	29.23	0
5/19/21 15:57	10.97	302.4	20.56	13.74	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
5/19/21 16:06	11.56	293.4	16.26	13.67	29.21	0
5/19/21 16:24	12.44	289.8	16.3	13.44	29.21	0
5/19/21 16:33	12.25	281.2	15.95	13.34	29.21	0
5/19/21 16:57	10.92	296.1	16.52	13.65	29.22	0
5/19/21 17:01	14.02	295.2	9.55	13.15	29.22	0
5/19/21 17:19	12.17	294.5	12.49	12.95	29.22	0
5/19/21 17:43	11.74	285.6	9.41	12.87	29.22	0
5/19/21 17:47	10.91	304.2	9.45	12.69	29.23	0
5/19/21 18:10	9.97	305.6	8.26	12.59	29.23	0
5/19/21 18:23	10.79	297.1	8.59	12.56	29.23	0
5/19/21 18:35	10.76	287.9	9.33	12.34	29.23	0
5/19/21 18:47	9.82	292.3	11.06	12.2	29.22	0
5/19/21 19:13	12.93	330.7	31.77	11.39	29.22	0
5/19/21 19:16	16.42	18.17	12.19	9.18	29.22	0
5/19/21 19:36	11.7	13.96	11.92	8.27	29.22	0
5/19/21 19:45	9	26.71	15.75	7.972	29.26	0
5/19/21 20:00	5.585	47.11	20.06	8.14	29.26	0
5/19/21 20:15	5.207	77.77	13.04	7.756	29.26	0
5/19/21 20:40	4.937	76.23	9.29	7.603	29.26	0
5/19/21 20:48	4.298	87	9.82	7.226	29.27	0
5/19/21 21:12	4.468	106	10.3	6.996	29.27	0
5/19/21 21:29	4.718	140.2	16.16	7.266	29.27	0
5/19/21 21:37	5.335	190	13.26	7.316	29.27	0
5/19/21 21:47	4.932	150.6	12.37	6.989	29.24	0
5/19/21 22:00	3.317	139.5	11.01	6.871	29.24	0
5/19/21 22:15	1.841	101.5	15.52	6.419	29.24	0
5/19/21 22:42	2.498	78.09	13.27	6.06	29.24	0
5/19/21 22:51	3.091	98.8	9.34	6.099	29.26	0
5/19/21 23:09	2.88	82.7	11.25	6.279	29.26	0
5/19/21 23:29	2.947	84.4	24.02	6.586	29.26	0
5/19/21 23:41	4.411	121.3	6.229	6.885	29.26	0
5/19/21 23:46	4.149	117.2	7.163	6.789	29.26	0
5/20/21 0:05	4.491	133.9	10.45	7.055	29.26	0
5/20/21 0:19	5.238	139.4	6.371	6.996	29.26	0
5/20/21 0:31	5.816	146.9	6.702	6.831	29.26	0
5/20/21 0:48	3.929	130.2	9.82	6.745	29.24	0
5/20/21 1:13	4.231	137	10.51	6.691	29.24	0
5/20/21 1:29	5.427	136.7	8.77	6.47	29.24	0
5/20/21 1:37	4.9	119.7	23.25	6.32	29.24	0
5/20/21 1:48	2.354	84.5	16.64	6.165	29.27	0
5/20/21 2:05	4.052	118.9	12.18	6.174	29.27	0
5/20/21 2:25	3.999	138.2	7.602	6.238	29.27	0
5/20/21 2:31	2.907	118.3	11.65	6.234	29.27	0
5/20/21 2:45	1.242	90.2	22.37	6.197	29.26	0
5/20/21 3:13	1.261	53.2	16.42	6.143	29.26	0
5/20/21 3:21	2.732	101.4	17.15	6.151	29.26	0.01
5/20/21 3:43	3.697	112.2	6.726	6.172	29.26	0.01
5/20/21 3:46	4.317	120	9.19	6.084	29.26	0
5/20/21 4:00	3.789	108.2	9.36	6.029	29.26	0.01
5/20/21 4:25	4.137	105.1	8.44	5.947	29.26	0
5/20/21 4:37	4.653	114.7	9.67	5.991	29.26	0
5/20/21 4:47	3.249	51.91	49.26	5.95	29.27	0
5/20/21 5:11	2.09	19.89	2.654	5.949	29.27	0.01
5/20/21 5:24	2.393	18.55	1.6	5.943	29.27	0
5/20/21 5:43	2.869	64.4	58.34	5.959	29.27	0.01
5/20/21 5:47	4.565	126.4	9.75	5.994	29.26	0
5/20/21 6:05	3.361	113	9.64	6.073	29.26	0
5/20/21 6:17	2.772	111.2	9.26	6.187	29.26	0
5/20/21 6:35	2.113	101.4	12.99	6.228	29.26	0.01
5/20/21 6:48	2.517	125.7	10.84	6.282	29.3	0.01
5/20/21 7:08	3.252	136.6	12.12	6.323	29.3	0
5/20/21 7:25	3.301	163.8	12.36	6.412	29.3	0
5/20/21 7:36	2.892	142.9	21.39	6.501	29.3	0
5/20/21 7:46	3.161	106.9	20.77	6.588	29.28	0
5/20/21 8:13	3.625	95.6	10.25	6.672	29.28	0.01
5/20/21 8:19	3.425	92.2	12.83	6.676	29.28	0
5/20/21 8:38	2.312	117.7	26.7	6.741	29.28	0
5/20/21 8:57	3.093	136	19.93	6.892	29.3	0
5/20/21 9:14	3.665	131.1	9.73	6.96	29.3	0
5/20/21 9:24	3.352	124.4	13.27	7.096	29.3	0
5/20/21 9:41	4.57	142.5	25.35	7.14	29.3	0
5/20/21 9:50	4.538	147.8	20.79	7.491	29.31	0
5/20/21 10:02	4.611	131.2	14.81	7.644	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
5/20/21 10:29	2.821	96.5	25.22	7.756	29.31	0
5/20/21 10:37	3.308	69.35	12.59	7.644	29.31	0
5/20/21 10:48	3.504	78.03	19.58	7.838	29.32	0
5/20/21 11:11	3.947	82.5	12.45	8.08	29.32	0
5/20/21 11:15	3.165	90.1	18.6	8.5	29.32	0
5/20/21 11:37	3.328	86	22.02	8.61	29.32	0
5/20/21 11:56	4.823	89.2	15.72	8.77	29.29	0
5/20/21 12:14	4.291	116.8	15.94	9.12	29.29	0
5/20/21 12:18	4.933	129.5	14.77	9.64	29.29	0
5/20/21 12:37	4.544	100.7	10.89	9.56	29.29	0
5/20/21 12:52	3.062	100.3	19.25	9.82	29.32	0
5/20/21 13:14	3.007	135	22.05	10.61	29.32	0
5/20/21 13:30	4.799	110	27.46	10.55	29.32	0
5/20/21 13:30	4.712	129.8	20.29	11.31	29.32	0
5/20/21 13:51	4.319	135.3	37.46	12.33	29.31	0
5/20/21 14:12	2.589	78.89	26.64	11.67	29.31	0
5/20/21 14:16	3.2	81.8	35.97	11.88	29.31	0
5/20/21 14:33	1.855	42.99	36.54	12.62	29.31	0
5/20/21 14:58	1.54	90.2	71.18	12.95	29.27	0
5/20/21 15:03	1.508	20.07	56.89	13.07	29.27	0
5/20/21 15:24	3.43	57.84	12.12	13.14	29.27	0
5/20/21 15:43	3.684	191.6	50.35	14.02	29.27	0
5/20/21 15:48	4.505	188	26.75	13.54	29.28	0
5/20/21 16:01	2.851	153	43.8	13.55	29.28	0
5/20/21 16:28	3.185	140	58.1	13.65	29.28	0
5/20/21 16:31	4.045	195.8	19.72	13.79	29.28	0
5/20/21 16:59	4.651	148.8	16.66	13.73	29.29	0
5/20/21 17:09	6.34	110.9	18.73	13.32	29.29	0
5/20/21 17:21	6.41	116.5	12.13	12.83	29.29	0
5/20/21 17:32	4.925	115.3	9.28	12.75	29.29	0
5/20/21 17:50	4.143	109	11.48	12.69	29.27	0
5/20/21 18:05	4.687	117.7	9.26	12.9	29.27	0
5/20/21 18:18	4.805	121.4	11.08	12.72	29.27	0
5/20/21 18:30	4.088	122.7	10.93	12.52	29.27	0
5/20/21 18:50	3.774	117.9	7.909	12.46	29.27	0
5/20/21 19:00	2.095	137.3	12.55	12.68	29.27	0
5/20/21 19:25	2.648	99.9	16.65	12.75	29.27	0
5/20/21 19:44	2.895	101.3	6.019	12.51	29.27	0
5/20/21 19:47	3.252	119	11.74	12.24	29.28	0
5/20/21 20:14	4.634	186.2	17.1	12.31	29.28	0
5/20/21 20:27	6.845	288	89.1	12	29.28	0
5/20/21 20:33	9.47	101.6	41.58	10.09	29.28	0.19
5/20/21 20:47	7.574	158.5	8.15	9.82	29.31	0
5/20/21 21:02	6.437	172.2	7.441	9.84	29.31	0
5/20/21 21:18	3.746	140.5	57.51	9.36	29.31	0
5/20/21 21:38	2.41	42.63	14.01	8.51	29.31	0.01
5/20/21 21:57	4.022	119.4	15.5	8.96	29.31	0
5/20/21 22:14	5.028	113.2	7.228	8.93	29.31	0
5/20/21 22:28	4.849	102.5	7.891	8.54	29.31	0
5/20/21 22:39	5.807	111.4	7.617	8.62	29.31	0
5/20/21 22:45	4.248	102.2	8.92	8.75	29.32	0
5/20/21 23:11	3.437	111.4	9.95	8.79	29.32	0
5/20/21 23:16	2.568	118	7.336	8.54	29.32	0
5/20/21 23:44	3.915	120.5	6.72	8.46	29.32	0
5/20/21 23:49	5.821	144.5	8.05	8.34	29.32	0
5/21/21 0:04	4.113	121.7	13.04	8.03	29.32	0
5/21/21 0:29	4.727	131.7	9.76	8.03	29.32	0
5/21/21 0:36	5.779	147.1	5.943	7.933	29.32	0
5/21/21 0:46	3.797	134.4	8.45	8.02	29.35	0
5/21/21 1:14	3.162	136.5	17.04	7.888	29.35	0
5/21/21 1:17	6.067	174.5	7.571	8.09	29.35	0
5/21/21 1:36	3.934	161.8	16.31	7.837	29.35	0
5/21/21 1:59	3.377	115.5	18.81	7.567	29.35	0
5/21/21 2:02	4.203	142	8.62	7.472	29.35	0
5/21/21 2:28	4.437	131	8.08	7.402	29.35	0
5/21/21 2:30	4.628	131	7.592	7.001	29.35	0
5/21/21 2:47	5.024	130.9	4.91	7.101	29.36	0
5/21/21 3:01	5.019	132	5.262	7.072	29.36	0
5/21/21 3:20	5.052	126.2	6.978	7.102	29.36	0
5/21/21 3:35	5.95	138.1	6.138	7.042	29.36	0
5/21/21 3:46	5.6	134	7.169	6.963	29.35	0
5/21/21 4:05	4.202	122.7	9.75	6.931	29.35	0
5/21/21 4:22	4.076	127.9	7.012	6.977	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
5/21/21 4:43	4.294	155.1	11.86	7.064	29.35	0
5/21/21 4:51	4.877	136.6	10.1	7.028	29.38	0
5/21/21 5:11	4.103	122.4	7.087	7.002	29.38	0
5/21/21 5:24	4.735	134.4	6.605	7.037	29.38	0
5/21/21 5:44	4.712	130.8	7.109	7.105	29.38	0
5/21/21 5:56	3.797	139.7	19.96	7.128	29.39	0
5/21/21 6:14	4.726	134.5	8.58	7.165	29.39	0
5/21/21 6:28	5.511	130.6	8.27	7.159	29.39	0
5/21/21 6:34	5.752	173.2	16.81	7.292	29.39	0
5/21/21 6:50	3.736	177.4	11.06	7.325	29.39	0
5/21/21 7:10	4.123	183.9	10.65	7.45	29.39	0
5/21/21 7:21	2.742	176	19.72	7.78	29.39	0
5/21/21 7:36	3.03	162.8	24.27	8.05	29.39	0
5/21/21 7:46	3.145	182.4	21.38	8.06	29.39	0
5/21/21 8:00	1.947	197.3	32.04	8.28	29.39	0
5/21/21 8:24	3.221	238.4	18.21	8.58	29.39	0
5/21/21 8:36	4.579	205.5	15.76	8.76	29.39	0
5/21/21 8:45	3.319	206.6	16	8.88	29.4	0
5/21/21 9:14	2.802	211.5	20.39	9.28	29.4	0
5/21/21 9:15	2.751	233.1	37.33	9.54	29.4	0
5/21/21 9:42	2.846	244.8	39.23	9.77	29.4	0
5/21/21 9:53	2.348	301	26.33	10.7	29.38	0
5/21/21 10:14	1.881	12.57	64.72	11.07	29.38	0
5/21/21 10:16	1.949	92	58.83	10.92	29.38	0
5/21/21 10:32	2.617	265.2	30.44	11.16	29.38	0
5/21/21 10:59	2.358	292.6	28.61	11.29	29.38	0
5/21/21 11:14	2.751	305.8	30.87	11.72	29.38	0
5/21/21 11:27	3.747	298.6	13.85	11.64	29.38	0
5/21/21 11:36	2.321	299.4	20.24	11.73	29.38	0
5/21/21 11:55	3.702	287.6	23.67	12.4	29.38	0
5/21/21 12:14	2.659	286.1	27.53	12.82	29.38	0
5/21/21 12:18	3.202	288	58.71	12.91	29.38	0
5/21/21 12:44	3.081	289.4	58.52	13.27	29.38	0
5/21/21 12:57	4.362	315.7	31.39	13.55	29.36	0
5/21/21 13:03	4.703	285	24.76	13.63	29.36	0
5/21/21 13:21	6.525	296.1	15.36	14.07	29.36	0
5/21/21 13:33	6.191	313.3	14.06	14.18	29.36	0
5/21/21 13:49	5.243	314.7	17.76	14.18	29.34	0
5/21/21 14:06	5.253	297.9	17.39	14.09	29.34	0
5/21/21 14:26	5.386	298.7	22.82	14.48	29.34	0
5/21/21 14:30	4.683	310.6	13.53	14.36	29.34	0
5/21/21 14:52	4.417	333.8	24.99	14.52	29.34	0
5/21/21 15:13	3.154	356.6	23.93	14.45	29.34	0
5/21/21 15:20	4.079	318	13.01	14.87	29.34	0
5/21/21 15:39	4.639	305.5	27.43	15.89	29.34	0
5/21/21 15:55	5.026	288.6	13.05	15.44	29.33	0
5/21/21 16:06	2.616	330	25.99	15.5	29.33	0
5/21/21 16:18	5.451	288.1	12.59	15.66	29.33	0
5/21/21 16:40	4.818	290.3	10.45	15.69	29.33	0
5/21/21 16:58	3.661	265.6	15.63	16.34	29.34	0
5/21/21 17:03	4.323	286.4	35.71	16.22	29.34	0
5/21/21 17:25	2.754	314.8	59.76	16.26	29.34	0
5/21/21 17:31	4.303	339.1	13.94	16.38	29.34	0
5/21/21 17:46	4.334	10.7	10.22	15.72	29.32	0
5/21/21 18:12	3.732	315.1	31.29	16.35	29.32	0
5/21/21 18:19	3.184	299.9	22.98	16.37	29.32	0
5/21/21 18:42	2.753	326.2	17.39	16.37	29.32	0
5/21/21 18:52	4.523	299.6	8.2	15.79	29.34	0
5/21/21 19:13	4.404	296.7	7.339	15.34	29.34	0
5/21/21 19:29	4.711	285.8	18.41	14.54	29.34	0
5/21/21 19:33	6.747	258.5	4.389	13.99	29.34	0
5/21/21 19:45	6.822	263	4.151	13.5	29.35	0
5/21/21 20:10	6.745	271.7	4.577	13.1	29.35	0
5/21/21 20:17	5.871	288.2	11.09	12.7	29.35	0
5/21/21 20:37	5.608	306.3	2.834	12.27	29.35	0
5/21/21 20:48	4.483	322.4	13.39	12.26	29.36	0
5/21/21 21:00	2.033	4.883	10.96	11.95	29.36	0
5/21/21 21:17	1.46	21.24	5.195	12.01	29.36	0
5/21/21 21:38	1.774	31.97	6.323	12.11	29.36	0
5/21/21 21:55	1.436	30.5	6.406	11.88	29.37	0
5/21/21 22:11	1.947	56.1	12.43	11.36	29.37	0
5/21/21 22:20	2.483	101.8	31.94	10.98	29.37	0
5/21/21 22:33	0.92	149.4	23.12	10.95	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
5/21/21 22:57	1.664	191.7	14.92	11.36	29.37	0
5/21/21 23:14	4.152	219.1	8.55	10.29	29.37	0
5/21/21 23:19	5.586	208.2	4.243	9.68	29.37	0
5/21/21 23:44	5.412	194.2	4.955	9.38	29.37	0
5/21/21 23:47	5.744	186.3	10.82	9.22	29.36	0
5/22/21 0:03	4.488	179.3	11.41	9.21	29.36	0
5/22/21 0:15	3.825	165.4	9.99	8.83	29.36	0
5/22/21 0:33	4.29	163.9	4.986	8.75	29.36	0
5/22/21 0:56	3.564	174.3	5.819	8.98	29.36	0
5/22/21 1:13	4.293	180	8.81	8.35	29.36	0
5/22/21 1:19	4.106	177.4	11.77	8.27	29.36	0
5/22/21 1:36	3.194	146.7	7.296	8.08	29.36	0
5/22/21 1:47	2.675	116.8	7.815	7.766	29.37	0
5/22/21 2:09	3.843	153.2	11.55	8.03	29.37	0
5/22/21 2:24	4.335	154.6	6.448	8.21	29.37	0
5/22/21 2:34	4.321	143.3	6.821	8.09	29.37	0
5/22/21 2:51	3.605	157.7	8.92	8.07	29.36	0
5/22/21 3:14	2.796	171.7	13.44	8.13	29.36	0
5/22/21 3:17	3.452	154.6	13.71	8.1	29.36	0
5/22/21 3:38	4.226	146.1	17.94	8.03	29.36	0
5/22/21 3:50	3.002	156.8	14.15	7.979	29.36	0
5/22/21 4:06	4.263	173.2	8.27	7.99	29.36	0
5/22/21 4:27	4.354	165.8	9.02	7.982	29.36	0
5/22/21 4:34	4.239	154.1	14.53	7.945	29.36	0
5/22/21 4:52	5.285	144.6	7.18	7.884	29.36	0
5/22/21 5:00	4.289	141.9	7.82	7.908	29.36	0
5/22/21 5:21	2.336	136.3	5.932	8.01	29.36	0
5/22/21 5:39	2.782	141.4	10.35	8.07	29.36	0
5/22/21 5:56	2.332	170.2	28.15	8.17	29.35	0
5/22/21 6:00	2.19	197	8.52	8.18	29.35	0
5/22/21 6:16	2.219	179.5	18.3	8.23	29.35	0
5/22/21 6:44	1.904	161.7	23.18	8.38	29.35	0
5/22/21 6:45	2.082	178.5	16.16	8.4	29.36	0
5/22/21 7:02	1.479	160.8	48.93	8.62	29.36	0
5/22/21 7:20	2.195	245.8	16.63	8.75	29.36	0
5/22/21 7:34	2.225	262.2	17.4	8.82	29.36	0
5/22/21 7:49	1.732	300.1	23.12	9.05	29.36	0
5/22/21 8:09	2.612	246.6	38.91	9.25	29.36	0
5/22/21 8:21	3.451	234.5	20.47	9.4	29.36	0
5/22/21 8:44	3.23	234.1	27.44	9.41	29.36	0
5/22/21 8:45	2.929	221.1	18.56	9.43	29.33	0
5/22/21 9:09	2.968	265.6	24.92	9.79	29.33	0
5/22/21 9:26	3.897	259.2	13.74	9.92	29.33	0
5/22/21 9:36	4.796	260.5	10.17	9.73	29.33	0
5/22/21 9:47	5.046	263.7	9.46	10.11	29.32	0
5/22/21 10:11	5.538	256.4	10.86	10.27	29.32	0
5/22/21 10:27	4.96	243.2	13.1	10.32	29.32	0
5/22/21 10:43	5.618	245.4	10.16	10.33	29.32	0
5/22/21 10:56	6.081	238.5	16.25	10.49	29.28	0
5/22/21 11:02	5.407	245.5	13.21	10.75	29.28	0
5/22/21 11:16	4.501	253.9	13.89	11.03	29.28	0
5/22/21 11:44	3.907	251.2	16.91	11.22	29.28	0
5/22/21 11:45	4.469	250.5	17.78	11.47	29.27	0
5/22/21 12:02	5.625	261.9	12.7	11.72	29.27	0
5/22/21 12:20	6.025	241.9	25.25	11.76	29.27	0
5/22/21 12:35	6.05	237.9	20.12	11.84	29.27	0
5/22/21 13:00	3.698	266.4	21.03	12.47	29.27	0
5/22/21 13:13	5.333	216	32.5	13.05	29.27	0
5/22/21 13:26	5.685	209.4	24.38	13.2	29.27	0
5/22/21 13:32	6.304	234.6	23.02	13.46	29.27	0
5/22/21 13:54	6.49	236.1	21.56	13.6	29.25	0
5/22/21 14:11	7.01	217.7	20.47	13.55	29.25	0
5/22/21 14:19	6.781	201.3	17.65	13.99	29.25	0
5/22/21 14:33	5.293	216.5	24.63	14.57	29.25	0
5/22/21 14:58	3.644	192.3	43.44	15	29.24	0
5/22/21 15:01	2.956	220.5	30.74	14.75	29.24	0
5/22/21 15:18	4.17	197.9	27.12	15.18	29.24	0
5/22/21 15:35	2.78	195.5	51.61	14.92	29.24	0
5/22/21 15:45	4.508	191.1	13.29	14.81	29.25	0
5/22/21 16:06	3.472	171.9	33.6	14.73	29.25	0
5/22/21 16:21	3.275	175.6	19.45	14.8	29.25	0
5/22/21 16:42	2.765	137.3	16.39	14.72	29.25	0
5/22/21 16:51	2.551	137.4	15.57	14.56	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
5/22/21 17:13	2.479	154.6	24.35	14.58	29.24	0
5/22/21 17:15	0.942	101.3	36.33	14.66	29.24	0
5/22/21 17:34	1.243	93.7	23.42	14.55	29.24	0
5/22/21 17:46	2.46	67.01	7.842	14.32	29.24	0
5/22/21 18:06	2.339	67.81	5.839	14.17	29.24	0
5/22/21 18:19	1.934	70	3.041	14.09	29.24	0
5/22/21 18:44	1.82	73.16	8.18	14.02	29.24	0
5/22/21 18:57	2.108	87.2	4.332	13.93	29.25	0
5/22/21 19:00	1.987	81.3	7.941	13.82	29.25	0
5/22/21 19:23	2.865	84	4.501	13.68	29.25	0
5/22/21 19:41	2.781	80.2	4.701	13.53	29.25	0
5/22/21 19:51	2.735	86.2	6.004	13.32	29.25	0
5/22/21 20:14	2.216	80.1	7.548	13.24	29.25	0
5/22/21 20:23	3.142	81.9	8.56	13.02	29.25	0
5/22/21 20:41	2.981	99.5	5.687	12.86	29.25	0
5/22/21 20:45	2.023	134.1	17.67	13.15	29.24	0
5/22/21 21:12	1.652	113.7	28.74	13.4	29.24	0
5/22/21 21:28	0.757	95.9	56.2	13.01	29.24	0
5/22/21 21:36	1.812	110.9	41.29	13.12	29.24	0
5/22/21 21:58	3.971	219.3	49.03	12.8	29.24	0
5/22/21 22:01	6.289	232.5	7.64	12.61	29.24	0
5/22/21 22:15	4.774	216.5	5.903	12.89	29.24	0
5/22/21 22:30	2.1	160.4	88.7	12.47	29.24	0
5/22/21 22:56	1.828	20.42	64.75	11.75	29.25	0
5/22/21 23:01	3.349	202.2	31.99	12.08	29.25	0
5/22/21 23:27	3.164	165.1	29.1	11.91	29.25	0
5/22/21 23:30	3.341	207.5	8.27	11.99	29.25	0
5/22/21 23:57	3.923	194	14.88	11.69	29.26	0
5/23/21 0:14	4.568	194.8	5.112	11.55	29.26	0
5/23/21 0:25	5.088	162.1	12.55	11.34	29.26	0
5/23/21 0:30	5.248	168.9	11.16	11.39	29.26	0
5/23/21 0:53	4.839	162.9	24.64	11.08	29.23	0
5/23/21 1:05	4.573	194	10.49	11.1	29.23	0
5/23/21 1:16	4.398	176.9	6.827	10.84	29.23	0
5/23/21 1:35	4.128	179.7	10.51	10.71	29.23	0
5/23/21 1:52	4.434	161	11.63	10.52	29.25	0
5/23/21 2:10	1.632	109.8	17.44	10.26	29.25	0
5/23/21 2:28	3.465	149.4	26.65	10.2	29.25	0
5/23/21 2:30	3.406	133.3	25.04	10.11	29.25	0
5/23/21 2:59	3.827	113	6.941	9.97	29.23	0
5/23/21 3:07	4.399	130	6.375	10.04	29.23	0
5/23/21 3:27	4.204	125.5	9.15	10.22	29.23	0
5/23/21 3:42	4.421	119.2	11.47	10.31	29.23	0
5/23/21 3:45	5.521	128.8	7.822	10.38	29.25	0
5/23/21 4:05	5.923	124	7.624	10.43	29.25	0
5/23/21 4:24	5.328	122.2	9.29	10.4	29.25	0
5/23/21 4:33	5.16	123.5	8.07	10.39	29.25	0
5/23/21 4:45	5.587	129.3	7.358	10.43	29.23	0
5/23/21 5:04	5.725	133.7	8.46	10.48	29.23	0
5/23/21 5:23	6.696	135.9	7.175	10.53	29.23	0
5/23/21 5:42	6.451	132.5	10.92	10.6	29.23	0
5/23/21 5:49	5.763	132.2	8.97	10.67	29.25	0
5/23/21 6:13	6.77	134	9.04	10.78	29.25	0
5/23/21 6:16	7.031	140.4	9.54	10.74	29.25	0
5/23/21 6:42	6.037	127.9	12.51	11	29.25	0
5/23/21 6:55	6.362	123.8	13.2	11.02	29.24	0
5/23/21 7:10	6.085	143.6	7.823	11.04	29.24	0
5/23/21 7:22	6.004	148.5	8.74	11.34	29.24	0
5/23/21 7:32	5.668	145.4	14.15	11.37	29.24	0
5/23/21 7:59	7.22	143.5	9.59	11.51	29.26	0
5/23/21 8:06	7.385	169.9	22.73	11.5	29.26	0
5/23/21 8:21	6.711	189.9	6.391	11.44	29.26	0
5/23/21 8:32	5.935	180.6	12.96	11.54	29.26	0
5/23/21 8:53	7.405	182.5	10.72	11.54	29.25	0
5/23/21 9:14	8.33	184.8	10.87	11.69	29.25	0
5/23/21 9:18	9.63	193.2	11.48	11.94	29.25	0
5/23/21 9:43	7.195	192.5	17.02	12.08	29.25	0.01
5/23/21 9:46	7.322	195.5	14.13	12.11	29.25	0
5/23/21 10:06	6.77	185.2	9.75	12.05	29.25	0
5/23/21 10:16	6.828	167.1	8.7	11.94	29.25	0
5/23/21 10:44	4.841	147.9	13.83	12.29	29.25	0
5/23/21 10:54	6.636	158.2	14.33	12.36	29.24	0.01
5/23/21 11:03	5.713	181.6	16.45	12.3	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
5/23/21 11:20	7.103	207.3	10.64	12.77	29.24	0
5/23/21 11:41	7.611	196.8	10.95	12.74	29.24	0
5/23/21 11:46	9.95	205.8	8.87	12.67	29.24	0
5/23/21 12:05	8.61	188.2	15.56	12.74	29.24	0
5/23/21 12:24	8.46	172.2	10.6	12.59	29.24	0
5/23/21 12:35	8.46	170.2	8.53	12.83	29.24	0
5/23/21 12:45	6.322	142.5	13.04	13.08	29.24	0
5/23/21 13:02	6.13	136.9	11.37	13.78	29.24	0
5/23/21 13:22	5.966	160.2	20.79	14.38	29.24	0
5/23/21 13:38	6.628	171.1	26.59	14.6	29.24	0
5/23/21 13:59	5.844	152.3	30.03	14.31	29.25	0
5/23/21 14:04	7.496	195.9	12.39	14.38	29.25	0
5/23/21 14:30	10.12	246.1	14.86	14.35	29.25	0
5/23/21 14:30	10.39	248.9	8.24	14.18	29.25	0
5/23/21 14:45	9.25	246.3	10.06	14.27	29.24	0
5/23/21 15:10	8.01	221.9	12.29	14.48	29.24	0
5/23/21 15:28	8.42	235.1	13.61	14.57	29.24	0
5/23/21 15:37	10.95	244.1	9.62	14.24	29.24	0
5/23/21 15:55	10.4	244.6	15.9	14.25	29.25	0
5/23/21 16:10	9.48	242.2	9.36	14.1	29.25	0
5/23/21 16:16	10.77	249.8	10.95	13.73	29.25	0
5/23/21 16:33	11.25	249.5	10.45	13.36	29.25	0
5/23/21 16:58	12.23	247.5	9.75	13.07	29.25	0
5/23/21 17:04	12.89	248.9	10.81	12.55	29.25	0
5/23/21 17:21	11.78	242.6	9.72	12.21	29.25	0
5/23/21 17:33	11.26	242.7	9.01	11.93	29.25	0
5/23/21 17:46	11.86	249.4	9.88	11.76	29.25	0
5/23/21 18:00	9.02	238.7	11.41	11.6	29.25	0
5/23/21 18:27	5.919	238.2	11.75	11.47	29.25	0.01
5/23/21 18:33	4.514	224.9	13.31	11.53	29.25	0
5/23/21 18:59	4.781	222.7	9.18	11.65	29.26	0
5/23/21 19:12	6.283	212.4	12.78	11.71	29.26	0
5/23/21 19:29	7.714	197.8	10.41	11.73	29.26	0
5/23/21 19:44	8.82	192.7	10.77	11.63	29.26	0
5/23/21 19:58	9.26	198.5	12.4	11.56	29.25	0
5/23/21 20:00	9.06	192	10.18	11.37	29.25	0
5/23/21 20:29	9.88	182.2	9.34	11.3	29.25	0
5/23/21 20:34	11.7	186.1	12.25	11.31	29.25	0
5/23/21 20:45	9.85	183.3	12.86	11.27	29.25	0
5/23/21 21:09	9.94	179.3	10.76	11.31	29.25	0
5/23/21 21:26	8.41	179.9	10.27	11.29	29.25	0
5/23/21 21:42	10.25	183.9	11.77	11.29	29.25	0
5/23/21 21:57	10.68	192.4	11.46	11.28	29.26	0
5/23/21 22:10	10.35	196.9	11.64	11.23	29.26	0
5/23/21 22:15	9.98	191	10.76	11.09	29.26	0
5/23/21 22:41	9.95	184	9.26	10.97	29.26	0
5/23/21 22:55	9.29	179.6	8.84	10.82	29.24	0
5/23/21 23:14	7.877	182.8	10.96	10.73	29.24	0
5/23/21 23:27	7.983	180.2	9.62	10.7	29.24	0
5/23/21 23:44	6.638	179	10.19	10.66	29.24	0
5/23/21 23:48	9.26	168	11.46	10.56	29.26	0
5/24/21 0:09	9.07	167.2	11.61	10.41	29.26	0
5/24/21 0:25	8.31	165	10.34	10.28	29.26	0
5/24/21 0:33	7.916	145.2	10.31	9.99	29.26	0
5/24/21 0:47	6.387	128.7	9.49	9.72	29.24	0
5/24/21 1:13	6.104	126.6	8.02	9.35	29.24	0
5/24/21 1:23	6.392	120.3	7.61	9.1	29.24	0.01
5/24/21 1:31	5.661	119.2	7.546	9	29.24	0.01
5/24/21 1:49	5.799	104.9	9.21	8.94	29.24	0
5/24/21 2:02	5.589	106.6	10.65	8.9	29.24	0
5/24/21 2:19	5.367	120.9	8.06	9	29.24	0
5/24/21 2:32	4.86	128	9.51	9.17	29.24	0
5/24/21 2:55	7.202	153.4	19.37	9.4	29.26	0
5/24/21 3:05	8.67	172.2	10.58	9.57	29.26	0
5/24/21 3:17	9.51	172.7	8.79	9.48	29.26	0
5/24/21 3:31	10.25	172.9	7.672	9.33	29.26	0.01
5/24/21 3:56	8.71	162.4	9.94	9.09	29.26	0.02
5/24/21 4:12	8.03	142.7	7.961	8.85	29.26	0.02
5/24/21 4:17	7.991	140.1	8.48	8.78	29.26	0.04
5/24/21 4:36	7.196	145.4	9.2	8.72	29.26	0
5/24/21 4:48	8.14	148.3	7.711	8.72	29.25	0.02
5/24/21 5:04	8.36	162.9	9.69	8.82	29.25	0.02
5/24/21 5:20	7.864	159.4	10.44	8.86	29.25	0.03

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
5/24/21 5:38	6.81	146.2	7.782	8.79	29.25	0.03
5/24/21 5:47	6.389	144	7.594	8.82	29.25	0
5/24/21 6:13	5.038	134.2	8.24	8.81	29.25	0.01
5/24/21 6:20	5.767	144.1	6.549	8.87	29.25	0
5/24/21 6:33	6.206	138.5	8.93	8.9	29.25	0
5/24/21 6:53	6.39	137.6	7.143	8.92	29.24	0
5/24/21 7:11	5.208	129.3	9.85	8.98	29.24	0
5/24/21 7:22	5.319	126.3	7.694	9.07	29.24	0
5/24/21 7:31	5.384	121.9	10.45	9.19	29.24	0.01
5/24/21 7:57	4.568	125.3	13.05	9.33	29.24	0
5/24/21 8:14	5.413	118.1	10.32	9.45	29.24	0
5/24/21 8:29	5.593	107.2	8.86	9.58	29.24	0
5/24/21 8:37	6.82	103.8	11.2	9.75	29.24	0
5/24/21 8:46	4.544	127.2	22.59	9.98	29.26	0
5/24/21 9:08	4.875	123.9	7.748	10.27	29.26	0
5/24/21 9:28	5.182	127.8	15.31	10.54	29.26	0
5/24/21 9:30	5.537	131.3	9.64	10.72	29.26	0
5/24/21 9:48	6.563	142.1	11.11	10.75	29.24	0
5/24/21 10:08	7.029	160.8	14.8	10.9	29.24	0.01
5/24/21 10:25	6.022	144.1	18.51	10.85	29.24	0.01
5/24/21 10:40	5.477	134.7	10.69	10.96	29.24	0
5/24/21 10:48	5.45	139.5	12.33	11.23	29.27	0.01
5/24/21 11:11	5.527	148.2	14.03	11.48	29.27	0.01
5/24/21 11:17	6.261	168.9	12.92	11.59	29.27	0
5/24/21 11:33	5.353	140.6	15.8	11.59	29.27	0.02
5/24/21 11:49	5.959	154.1	17.18	11.75	29.25	0
5/24/21 12:07	6.361	157.7	12.66	12	29.25	0
5/24/21 12:24	5.931	146.2	12.17	12.09	29.25	0.01
5/24/21 12:32	5.06	142.3	11.71	12.3	29.25	0
5/24/21 12:59	4.993	140	15.17	12.43	29.24	0
5/24/21 13:14	3.712	146.4	21.01	12.56	29.24	0
5/24/21 13:15	4.814	158.2	29.08	12.64	29.24	0.01
5/24/21 13:30	3.292	112.8	17.19	12.64	29.24	0
5/24/21 13:46	2.07	125.7	28.27	12.75	29.24	0
5/24/21 14:10	2.324	215.8	34.66	12.71	29.24	0.02
5/24/21 14:29	3.496	189.3	18.21	13.02	29.24	0
5/24/21 14:33	8.5	187.7	12.82	12.68	29.24	0.02
5/24/21 14:54	6.213	177	12.48	12.8	29.23	0
5/24/21 15:10	6.174	166.4	11.47	12.91	29.23	0
5/24/21 15:15	5.817	161.5	12.47	13.16	29.23	0
5/24/21 15:40	6.482	165	11.15	13.6	29.23	0
5/24/21 15:47	7.148	158.9	17.65	13.62	29.22	0
5/24/21 16:11	5.992	158.1	19.85	14.27	29.22	0
5/24/21 16:22	7.005	157.8	18.79	14.41	29.22	0
5/24/21 16:38	6.298	130.8	12.21	14.42	29.22	0
5/24/21 16:47	4.823	107.8	13.85	14.17	29.23	0
5/24/21 17:14	5.853	126.5	42.8	13.96	29.23	0
5/24/21 17:15	3.77	87	12.2	13.79	29.23	0
5/24/21 17:30	2.878	96.4	12.65	14.01	29.23	0
5/24/21 17:58	4.467	90.3	6.995	13.99	29.22	0
5/24/21 18:03	4.552	84	8.12	13.9	29.22	0
5/24/21 18:26	4.013	80.7	14.22	14	29.22	0
5/24/21 18:30	1.88	72.34	19.96	14.01	29.22	0
5/24/21 18:54	3.927	104.2	13.32	14.05	29.22	0
5/24/21 19:11	5.533	98	7.447	13.89	29.22	0
5/24/21 19:30	4.357	13.88	77.61	13.87	29.22	0
5/24/21 19:31	3.781	292.3	42.67	14.27	29.22	0
5/24/21 19:55	3.534	278.2	13.42	14.13	29.2	0
5/24/21 20:00	3.824	283.1	4.751	13.99	29.2	0
5/24/21 20:21	3.307	277.5	2.446	13.88	29.2	0
5/24/21 20:31	1.745	316.8	56.72	13.71	29.2	0
5/24/21 20:47	1.342	50.63	7.921	13.08	29.22	0
5/24/21 21:10	1.147	41.58	55.54	13.14	29.22	0
5/24/21 21:17	0.653	192.5	27.59	13.38	29.22	0
5/24/21 21:44	1.144	235.8	37.06	13.68	29.22	0
5/24/21 21:52	1.964	168	20.1	13.53	29.23	0
5/24/21 22:00	1.304	98.5	23.98	13.16	29.23	0
5/24/21 22:16	1.203	70.28	3.671	12.77	29.23	0
5/24/21 22:44	0.487	43.86	22.97	12.68	29.23	0
5/24/21 22:46	0.731	352.7	11.93	12.68	29.24	0
5/24/21 23:11	0.493	233.5	48.05	12.68	29.24	0
5/24/21 23:20	1.664	237	19.86	12.95	29.24	0
5/24/21 23:42	3.423	251.9	10.08	13.01	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
5/24/21 23:46	4.939	251	7.307	12.97	29.23	0
5/25/21 0:05	2.139	230.9	23.66	12.83	29.23	0
5/25/21 0:18	2.27	230.5	18.47	12.72	29.23	0
5/25/21 0:43	2.952	223.6	20.67	12.61	29.23	0
5/25/21 0:45	2.905	219.1	9.86	12.46	29.22	0
5/25/21 1:12	2.94	235.5	9.43	12.45	29.22	0
5/25/21 1:25	3.386	224.2	12.81	12.39	29.22	0
5/25/21 1:30	4.007	219.5	13.64	12.29	29.22	0
5/25/21 1:45	4.216	240.2	7.543	12.17	29.21	0
5/25/21 2:11	4.516	242.3	5.284	12.08	29.21	0
5/25/21 2:22	4.013	239.3	8.43	11.93	29.21	0
5/25/21 2:32	3.534	263.4	13.37	11.8	29.21	0
5/25/21 2:51	3.131	255	8.74	11.65	29.22	0.01
5/25/21 3:09	4.316	247.3	9.75	11.48	29.22	0.01
5/25/21 3:15	4.719	245.3	8.63	11.37	29.22	0
5/25/21 3:30	1.41	304.2	20.22	11.27	29.22	0
5/25/21 3:54	1.056	296.9	24.43	11.29	29.24	0
5/25/21 4:10	2.302	259.3	16.87	11.3	29.24	0
5/25/21 4:15	3.151	222.2	18.17	11.3	29.24	0
5/25/21 4:44	3.2	199.1	10.32	11.18	29.24	0
5/25/21 4:51	4.86	217.2	11.15	11.15	29.23	0
5/25/21 5:01	4.451	228.3	11.74	11.05	29.23	0
5/25/21 5:28	3.582	223.9	11.99	11.01	29.23	0
5/25/21 5:41	5.001	216	8.38	10.92	29.23	0
5/25/21 5:59	4.621	208.4	9.52	10.92	29.26	0
5/25/21 6:00	4.298	216.9	8.68	10.79	29.26	0
5/25/21 6:24	3.351	241.9	14.41	10.85	29.26	0
5/25/21 6:44	3.943	225.1	16.27	10.85	29.26	0
5/25/21 6:55	4.833	222.8	15.11	10.82	29.27	0
5/25/21 7:08	4.748	229.6	12.5	10.89	29.27	0.01
5/25/21 7:18	4.492	221.6	11.15	10.93	29.27	0
5/25/21 7:38	3.563	222.2	12.58	10.95	29.27	0
5/25/21 7:59	3.587	214.1	15.79	11.13	29.26	0
5/25/21 8:03	4.115	239.7	12.35	11.41	29.26	0
5/25/21 8:24	4.534	244	9.44	11.31	29.26	0
5/25/21 8:43	5.833	240	21.37	11.19	29.26	0
5/25/21 8:45	5.499	219.4	13.86	11.07	29.29	0
5/25/21 9:01	4.129	217.8	16.7	11.37	29.29	0
5/25/21 9:17	5.631	203.1	14.97	11.3	29.29	0
5/25/21 9:42	6.137	199.6	13.96	11.73	29.29	0
5/25/21 9:54	7.634	196.1	13.24	12.05	29.3	0
5/25/21 10:14	8.63	192.8	10.21	12.28	29.3	0
5/25/21 10:23	8.78	205.5	9.77	12.51	29.3	0
5/25/21 10:30	7.43	221.4	20.03	12.8	29.3	0
5/25/21 10:57	6.672	220	14.82	12.68	29.3	0
5/25/21 11:10	7.368	214.1	12.89	12.85	29.3	0
5/25/21 11:18	6.623	202.9	21.04	12.86	29.3	0
5/25/21 11:40	6.324	221	17.12	13.22	29.3	0
5/25/21 11:54	8.52	203.2	23.71	13.44	29.29	0
5/25/21 12:14	9.15	186.2	12.45	13.59	29.29	0
5/25/21 12:28	8	194	20.35	13.96	29.29	0
5/25/21 12:37	8.37	219.2	15.84	14.35	29.29	0
5/25/21 12:48	8.36	197.4	11.42	14.35	29.29	0
5/25/21 13:08	7.136	181.9	14.88	14.26	29.29	0
5/25/21 13:15	7.947	167.3	9.59	14.62	29.29	0
5/25/21 13:44	6.895	164.7	17.84	15.01	29.29	0
5/25/21 13:48	6.875	184.1	28.74	15.03	29.29	0
5/25/21 14:14	6.037	205.9	32.37	15.3	29.29	0
5/25/21 14:29	6.06	153.2	26.26	15.71	29.29	0
5/25/21 14:30	6.914	209.1	23.02	15.69	29.29	0
5/25/21 14:59	5.794	219.5	20.33	15.67	29.29	0
5/25/21 15:09	8.09	212.7	11.72	15.72	29.29	0
5/25/21 15:24	7.826	206.1	12.37	15.69	29.29	0
5/25/21 15:31	8.82	218.8	16.7	15.7	29.29	0
5/25/21 15:54	8.33	202.5	14.73	15.54	29.3	0
5/25/21 16:04	7.758	195.4	16.05	15.51	29.3	0
5/25/21 16:27	7.835	197.8	23.22	15.54	29.3	0
5/25/21 16:33	7.586	183.1	17.74	15.62	29.3	0
5/25/21 16:51	8.53	198	13.59	15.46	29.29	0
5/25/21 17:06	7.401	184.6	12.05	15.35	29.29	0
5/25/21 17:19	7.397	195.5	13.99	15.18	29.29	0
5/25/21 17:38	8.56	206.7	10.66	15.22	29.29	0
5/25/21 17:59	10.33	212.3	7.956	15.11	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
5/25/21 18:08	11.2	223.7	11.04	14.56	29.31	0
5/25/21 18:27	10.01	232.6	10.99	14.09	29.31	0
5/25/21 18:41	9	239.7	10.96	13.99	29.31	0
5/25/21 18:58	8.84	240.8	6.966	13.95	29.32	0
5/25/21 19:12	8.61	242.8	10.37	13.72	29.32	0
5/25/21 19:19	8.08	246.9	8.4	13.47	29.32	0
5/25/21 19:33	5.185	245.5	10.97	13.42	29.32	0
5/25/21 19:50	3.966	248.8	8.85	13.27	29.35	0
5/25/21 20:02	5.031	236.1	10.05	13.21	29.35	0
5/25/21 20:28	4.735	224.5	12.4	13.09	29.35	0
5/25/21 20:40	6.587	207.6	7.035	13.1	29.35	0
5/25/21 20:48	6.973	200.2	7.141	13.02	29.37	0
5/25/21 21:00	6.633	205.7	6.572	12.96	29.37	0
5/25/21 21:27	6.71	207.6	6.579	12.83	29.37	0
5/25/21 21:31	8.49	213.1	9.47	12.74	29.37	0
5/25/21 21:54	5.765	221.3	8.74	12.57	29.38	0
5/25/21 22:00	4.419	218.4	7.751	12.44	29.38	0
5/25/21 22:25	3.215	210.1	9.19	12.34	29.38	0
5/25/21 22:36	4.202	201.3	12.32	12.19	29.38	0
5/25/21 22:51	5.54	194	9.01	12.09	29.38	0
5/25/21 23:13	5.659	182.4	12.57	11.92	29.38	0
5/25/21 23:22	6.852	172	6.24	11.8	29.38	0
5/25/21 23:33	7.729	185.3	9.54	11.71	29.38	0
5/25/21 23:56	6.79	182.4	10.35	11.62	29.38	0
5/26/21 0:09	7.151	172.6	7.321	11.47	29.38	0
5/26/21 0:22	7.826	172.3	8.59	11.3	29.38	0
5/26/21 0:36	7.736	170.6	9.44	11.2	29.38	0
5/26/21 0:45	5.757	155.9	9.87	10.92	29.37	0
5/26/21 1:04	6.829	157.7	10.79	10.83	29.37	0
5/26/21 1:23	7.371	153.6	10.99	10.75	29.37	0
5/26/21 1:38	7.851	166.3	8.02	10.81	29.37	0
5/26/21 1:45	6.595	153.1	16.07	10.66	29.38	0
5/26/21 2:11	6.089	141.6	5.57	10.48	29.38	0
5/26/21 2:23	7.199	139.1	7.007	10.38	29.38	0
5/26/21 2:33	6.664	133	6.776	10.28	29.38	0
5/26/21 2:54	6.462	132.5	6.749	10.17	29.37	0
5/26/21 3:02	6.933	136.9	6.386	9.88	29.37	0
5/26/21 3:17	6.827	133.4	8.23	9.38	29.37	0
5/26/21 3:31	5.87	122.3	8.54	9.23	29.37	0
5/26/21 3:55	4.805	114.7	18.92	9.21	29.37	0
5/26/21 4:04	5.065	112.4	10.73	9.25	29.37	0
5/26/21 4:20	5.552	108.6	9.06	9.23	29.37	0
5/26/21 4:36	5.394	107	9.81	9.18	29.37	0
5/26/21 4:51	5.355	104.8	10.36	9.17	29.38	0
5/26/21 5:03	4.958	109.9	10.91	9.26	29.38	0
5/26/21 5:27	4.649	111.3	9.04	9.39	29.38	0
5/26/21 5:31	5.244	112	9.53	9.53	29.38	0
5/26/21 5:47	4.392	112.7	9.54	9.64	29.38	0
5/26/21 6:03	3.566	113.7	10.42	9.85	29.38	0
5/26/21 6:17	3.652	118	11.01	10.05	29.38	0
5/26/21 6:41	3.928	132.9	8.08	10.25	29.38	0
5/26/21 6:49	4.105	143.2	16.02	10.49	29.35	0
5/26/21 7:00	4.946	182.3	9.34	10.63	29.35	0
5/26/21 7:17	5.888	169.8	13.06	10.82	29.35	0
5/26/21 7:44	5.718	175.7	12.6	11.18	29.35	0
5/26/21 7:54	5.341	175.7	13.6	11.44	29.36	0
5/26/21 8:04	5.044	161.9	21.97	11.81	29.36	0
5/26/21 8:25	5.013	169.2	21.69	12.01	29.36	0
5/26/21 8:44	5.526	170.9	30.32	12.38	29.36	0
5/26/21 8:57	4.952	196.7	19.96	12.62	29.34	0
5/26/21 9:06	5.021	202.4	25.91	12.69	29.34	0
5/26/21 9:15	2.615	237.1	59.68	13.23	29.34	0
5/26/21 9:41	5.941	211.2	30.34	13.34	29.34	0
5/26/21 9:47	7.398	210.9	11.93	13.5	29.34	0
5/26/21 10:07	5.002	199.2	31.42	13.57	29.34	0
5/26/21 10:18	7.02	200.8	20.5	13.66	29.34	0
5/26/21 10:35	4.711	190.6	37.22	13.61	29.34	0
5/26/21 10:57	4.789	146.3	38.45	14.09	29.31	0
5/26/21 11:01	6.455	210.9	20.55	14.2	29.31	0
5/26/21 11:23	4.176	234.8	38.84	14.34	29.31	0
5/26/21 11:44	6.699	188	51.91	15.2	29.31	0
5/26/21 11:45	7.196	191.7	26.06	15.32	29.3	0
5/26/21 12:01	6.5	217.9	16.01	15.55	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
5/26/21 12:27	6.011	203.8	23.97	15.98	29.3	0
5/26/21 12:30	5.158	179.1	27.32	15.95	29.3	0
5/26/21 12:51	5.624	148.6	44.68	16.3	29.29	0
5/26/21 13:01	7.069	197.6	33.53	16.65	29.29	0
5/26/21 13:27	9.21	215.5	19.32	16.98	29.29	0
5/26/21 13:35	8.05	217.2	17.97	17.1	29.29	0
5/26/21 13:58	7.043	217.6	26.79	17.26	29.28	0
5/26/21 14:04	7.764	241.9	23.42	17.65	29.28	0
5/26/21 14:26	6.357	249.2	21.71	17.43	29.28	0
5/26/21 14:32	7.187	270.5	20.51	17.44	29.28	0
5/26/21 14:53	7.354	220.3	19.5	17.3	29.26	0
5/26/21 15:06	7.549	236.6	15.05	16.86	29.26	0
5/26/21 15:20	5.746	256.3	16.51	16.78	29.26	0
5/26/21 15:38	6.702	265.2	11.29	16.54	29.26	0
5/26/21 15:59	6.202	245.4	10.69	16.59	29.24	0
5/26/21 16:02	6.384	244	14.82	16.73	29.24	0
5/26/21 16:20	5.62	265.4	15.62	16.95	29.24	0
5/26/21 16:34	6.028	265.4	16.09	16.71	29.24	0
5/26/21 16:45	6.498	281.4	11.72	16.98	29.21	0
5/26/21 17:12	5.284	248.8	16.24	17.26	29.21	0
5/26/21 17:29	5.314	266.7	15.68	17.07	29.21	0
5/26/21 17:45	5.775	275.3	8.57	16.68	29.21	0
5/26/21 17:45	5.379	269.8	8.99	16.56	29.2	0
5/26/21 18:03	4.357	269.7	19.12	16.49	29.2	0
5/26/21 18:28	4.362	284.5	9.24	16.18	29.2	0
5/26/21 18:30	2.889	288.8	14.99	16	29.2	0
5/26/21 18:46	2.023	290.4	25.78	15.87	29.18	0
5/26/21 19:03	1.338	333.5	12.28	15.78	29.18	0
5/26/21 19:16	0.236	354.2	2.027	15.41	29.18	0
5/26/21 19:36	1.228	32.92	6.882	14.96	29.18	0
5/26/21 19:58	1.27	41.68	4.99	14.73	29.17	0
5/26/21 20:10	2.998	66.28	18.61	13.87	29.17	0
5/26/21 20:16	2.428	89	3.457	13.57	29.17	0
5/26/21 20:37	2.449	81.8	2.049	13.94	29.17	0
5/26/21 20:46	1.983	67.97	11.89	13.76	29.17	0
5/26/21 21:02	2.035	78.78	11.29	13.24	29.17	0
5/26/21 21:25	2.561	91.3	11.98	13	29.17	0
5/26/21 21:33	3.29	78.99	5.127	12.34	29.17	0
5/26/21 21:59	4.339	97.6	7.895	12.49	29.15	0
5/26/21 22:01	4.385	115.2	11.81	13.25	29.15	0
5/26/21 22:22	4.669	142	12.78	13.77	29.15	0
5/26/21 22:41	4.183	160.5	22.23	13.51	29.15	0
5/26/21 22:50	4.4	144.9	14.83	12.98	29.12	0
5/26/21 23:14	5.317	124.5	10.09	13.06	29.12	0
5/26/21 23:24	5.453	141.9	11.87	13.42	29.12	0
5/26/21 23:42	4.897	147.5	8.08	13.15	29.12	0
5/26/21 23:49	5.977	139.5	9.89	12.75	29.08	0
5/27/21 0:10	5.611	144.4	9.78	12.88	29.08	0
5/27/21 0:27	5.876	188.6	15.16	12.3	29.08	0
5/27/21 0:39	8.93	208.4	5.287	12	29.08	0
5/27/21 0:53	9.43	206.4	5.623	11.95	29.07	0
5/27/21 1:00	7.89	190.6	4.735	12.13	29.07	0
5/27/21 1:15	5.934	177.3	10.07	11.81	29.07	0
5/27/21 1:44	5.159	159.8	10.18	11.56	29.07	0
5/27/21 1:52	5.051	148.9	23.75	11.44	29.08	0
5/27/21 2:04	5.88	116	9.35	11.28	29.08	0
5/27/21 2:26	6.54	131.7	10.12	11.35	29.08	0
5/27/21 2:38	6.742	149.4	8.47	11.41	29.08	0
5/27/21 2:59	6.197	207.4	32.86	11.49	29.1	0
5/27/21 3:00	5.382	236.7	10.74	11.44	29.1	0
5/27/21 3:15	3.426	234.4	26.13	11.36	29.1	0
5/27/21 3:30	1.706	115.1	70.57	11.09	29.1	0
5/27/21 3:55	4.111	115.8	43.34	10.83	29.07	0.02
5/27/21 4:09	5.537	128.1	12.21	10.56	29.07	0.02
5/27/21 4:22	7.612	123.1	11.66	10.66	29.07	0.01
5/27/21 4:44	7.682	109.4	9.95	10.51	29.07	0.02
5/27/21 4:51	7.84	116.5	11.99	10.6	29.07	0.01
5/27/21 5:02	7.475	126.2	10.26	10.66	29.07	0.02
5/27/21 5:17	6.503	135.2	7.518	10.56	29.07	0.03
5/27/21 5:37	5.073	133.8	11.38	10.4	29.07	0.03
5/27/21 5:57	2.982	120.5	26.69	10.34	29.08	0.04
5/27/21 6:03	5.76	144.8	8.31	10.34	29.08	0.02
5/27/21 6:18	6.442	194.6	21.53	10.5	29.08	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
5/27/21 6:31	5.217	203.8	18.09	10.33	29.08	0.02
5/27/21 6:55	6.364	169.8	10.2	10.28	29.09	0.01
5/27/21 7:00	6.538	146.1	17.38	10.38	29.09	0.01
5/27/21 7:29	6.817	145.3	13.45	10.4	29.09	0.01
5/27/21 7:33	8.63	153.9	13.39	10.52	29.09	0.01
5/27/21 7:51	7.713	132.8	6.438	10.73	29.1	0
5/27/21 8:11	7.582	136.9	8.71	11.07	29.1	0
5/27/21 8:29	7.328	132.9	10.96	11.41	29.1	0
5/27/21 8:33	9.25	163.7	14.15	12.15	29.1	0
5/27/21 8:59	10.32	166.2	9.34	12.24	29.09	0
5/27/21 9:07	13.43	170.9	10.56	12.49	29.09	0
5/27/21 9:22	13.01	177.5	10.37	13.22	29.09	0
5/27/21 9:42	14.18	185.1	16.47	13.82	29.09	0
5/27/21 9:50	16.44	195.5	13.48	14	29.1	0
5/27/21 10:08	13.42	202	16.49	14	29.1	0
5/27/21 10:29	12.1	201.5	16.76	14.47	29.1	0
5/27/21 10:34	15.63	200.8	13.71	14.77	29.1	0
5/27/21 10:46	22.06	185	12.58	14.69	29.08	0
5/27/21 11:08	19.25	226.3	19.53	12.99	29.08	0
5/27/21 11:17	13.27	228.3	12.61	12.64	29.08	0
5/27/21 11:35	12.07	206.7	11.51	13.6	29.08	0
5/27/21 11:56	15.92	205.1	14.51	13.85	29.12	0
5/27/21 12:12	18.79	186.8	13.08	14.8	29.12	0
5/27/21 12:17	23.41	181.6	12.19	14.23	29.12	0
5/27/21 12:30	17.87	228.4	12.99	11.48	29.12	0.05
5/27/21 12:48	14.2	225.7	9.56	11.28	29.16	0
5/27/21 13:14	11.87	220.1	14.56	11.84	29.16	0.02
5/27/21 13:15	15.73	226.2	11.36	10.76	29.16	0.11
5/27/21 13:42	12.98	220.2	8.84	11.63	29.16	0
5/27/21 13:47	11.73	217.2	9.85	12.21	29.16	0
5/27/21 14:09	13.83	218.6	11.49	12.32	29.16	0.02
5/27/21 14:17	15.27	210.8	10.54	12.32	29.16	0
5/27/21 14:33	15.1	218.7	10.67	12.62	29.16	0
5/27/21 14:57	17.41	207.8	10.95	13.05	29.17	0
5/27/21 15:00	21.19	208	10.19	13.05	29.17	0
5/27/21 15:22	18.98	208	11.07	13.01	29.17	0
5/27/21 15:41	16.99	202	11.15	13.03	29.17	0
5/27/21 15:46	21.16	211.1	9.77	13.37	29.2	0
5/27/21 16:11	16.91	210.3	10.45	12.57	29.2	0
5/27/21 16:15	16.27	204.1	9.5	11.81	29.2	0
5/27/21 16:33	15.47	197	10.38	11.65	29.2	0
5/27/21 16:52	14.69	199.2	10.64	11.28	29.21	0.02
5/27/21 17:01	10.68	220.2	14.11	11.26	29.21	0.04
5/27/21 17:25	8.89	218.7	18.7	11.25	29.21	0
5/27/21 17:42	11.24	200.4	8.37	11.02	29.21	0.02
5/27/21 17:59	13.34	210.9	11.46	10.85	29.24	0
5/27/21 18:02	15.22	210.1	8.77	10.27	29.24	0.04
5/27/21 18:28	12.4	211	12.32	9.63	29.24	0.04
5/27/21 18:31	13.14	218.6	10.52	9.6	29.24	0.04
5/27/21 18:52	11.79	218.7	9.83	9.79	29.24	0
5/27/21 19:00	9.67	209.2	18.09	9.78	29.24	0
5/27/21 19:17	8.09	185.4	9.35	9.37	29.24	0.03
5/27/21 19:30	8.08	189.2	9.55	9.35	29.24	0
5/27/21 19:50	7.609	177.1	10.94	9.33	29.26	0
5/27/21 20:12	8.42	175	12.74	9.63	29.26	0.01
5/27/21 20:29	6.881	192.2	10.83	9.78	29.26	0
5/27/21 20:32	9.48	196.5	9.48	9.85	29.26	0
5/27/21 20:47	8.45	174.9	10.8	9.8	29.3	0
5/27/21 21:11	9.9	174.1	13.07	9.8	29.3	0
5/27/21 21:22	11.57	188.9	10.75	9.75	29.3	0
5/27/21 21:44	11.86	185.5	8.74	9.71	29.3	0
5/27/21 21:53	11.83	189.3	9.87	9.78	29.31	0
5/27/21 22:07	11.63	185.9	9.83	9.76	29.31	0
5/27/21 22:15	13.09	193.1	9.47	9.69	29.31	0
5/27/21 22:37	13.38	187.7	9.94	9.64	29.31	0
5/27/21 22:59	10.02	190.2	10.23	9.59	29.3	0
5/27/21 23:14	11.62	199.6	10.54	9.58	29.3	0
5/27/21 23:20	14.74	203.8	8.32	9.57	29.3	0
5/27/21 23:32	13.61	198.5	10.1	9.44	29.3	0
5/27/21 23:58	13.94	198.2	10.41	9.31	29.33	0
5/28/21 0:02	12.34	194	10.61	9.26	29.33	0
5/28/21 0:21	10.99	189.1	11.45	9.19	29.33	0
5/28/21 0:42	9.85	187.3	10.49	9.18	29.33	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
5/28/21 0:59	10.79	181.1	11.27	9.18	29.35	0
5/28/21 1:06	11.96	178.2	8.61	9.21	29.35	0
5/28/21 1:15	11.17	170.7	11.42	9.22	29.35	0
5/28/21 1:37	11.21	169.5	12.35	9.23	29.35	0
5/28/21 1:58	13.02	172.9	10.6	9.27	29.37	0
5/28/21 2:07	13.47	180.8	8.92	9.28	29.37	0
5/28/21 2:28	12.32	184.4	9.85	9.28	29.37	0
5/28/21 2:34	12.21	187.7	9.79	9.25	29.37	0
5/28/21 2:45	10.39	189.7	9.34	9.27	29.37	0
5/28/21 3:03	9.05	195.9	9.22	9.26	29.37	0
5/28/21 3:18	8.16	182.8	9.37	9.26	29.37	0
5/28/21 3:35	7.95	182.4	11.29	9.26	29.37	0
5/28/21 3:47	8.27	187.7	9.44	9.28	29.39	0
5/28/21 4:06	6.707	187.3	11.14	9.27	29.39	0
5/28/21 4:29	7.421	195.6	9.85	9.31	29.39	0
5/28/21 4:41	7.313	200	10.18	9.34	29.39	0
5/28/21 4:49	9.19	190.8	9.17	9.28	29.39	0
5/28/21 5:00	7.494	211.6	11.48	9.34	29.39	0
5/28/21 5:21	6.531	197.1	11.19	9.3	29.39	0
5/28/21 5:36	7.975	192.1	8.9	9.19	29.39	0
5/28/21 5:47	6.901	187	9.37	9.14	29.43	0
5/28/21 6:13	8.01	174.5	9.23	9.17	29.43	0
5/28/21 6:22	8.04	172.2	9.32	9.2	29.43	0
5/28/21 6:32	8.65	183.3	10.93	9.18	29.43	0
5/28/21 6:58	6.989	180.5	8.99	9.19	29.45	0
5/28/21 7:14	6.27	174.8	9.24	9.16	29.45	0
5/28/21 7:22	7.073	177.9	8.88	9.29	29.45	0
5/28/21 7:30	5.311	183	8.46	9.45	29.45	0
5/28/21 7:57	5.442	178.6	9.15	9.56	29.45	0
5/28/21 8:00	4.892	180.3	13.87	9.74	29.45	0
5/28/21 8:22	3.96	174.9	14.88	10.05	29.45	0
5/28/21 8:42	3.895	154	21.93	10.2	29.45	0
5/28/21 8:59	3.57	91.2	38.83	10.27	29.44	0
5/28/21 9:00	2.802	192.3	24.83	10.69	29.44	0
5/28/21 9:28	1.701	39.65	70.78	10.9	29.44	0
5/28/21 9:38	4.007	9.36	11.92	10.46	29.44	0
5/28/21 9:46	3.375	17.78	10.92	10.67	29.46	0
5/28/21 10:06	2.655	46.62	28.12	11.32	29.46	0
5/28/21 10:23	1.001	52.07	38.04	11.46	29.46	0
5/28/21 10:40	1.237	263.1	57.08	11.87	29.46	0
5/28/21 10:56	2.175	274.9	83	12.34	29.47	0
5/28/21 11:03	2.28	97.9	48.51	12.31	29.47	0
5/28/21 11:27	0.898	9.42	31.03	12.33	29.47	0
5/28/21 11:38	1.602	307.6	23.59	12.32	29.47	0
5/28/21 11:54	1.548	300.1	38.69	12.58	29.46	0
5/28/21 12:07	1.416	267.1	79.06	12.74	29.46	0
5/28/21 12:26	1.886	325.1	66.23	12.9	29.46	0
5/28/21 12:44	2.218	123	29.49	12.95	29.46	0
5/28/21 12:48	5.052	122.2	18.59	13.39	29.48	0
5/28/21 13:13	4.834	146.1	26.49	13.6	29.48	0
5/28/21 13:24	4.524	150.9	40.11	14.21	29.48	0
5/28/21 13:43	4.266	126.3	24.9	14.38	29.48	0
5/28/21 13:51	3.827	143.4	40.76	14.52	29.48	0
5/28/21 14:04	4.324	198.3	36.02	14.97	29.48	0
5/28/21 14:29	3.767	110.2	35.27	15.55	29.48	0
5/28/21 14:40	3.704	144	45.75	15.26	29.48	0
5/28/21 14:48	4.024	164.2	32.67	15.22	29.45	0
5/28/21 15:02	3.371	247.1	44.27	16.27	29.45	0
5/28/21 15:28	2.477	135.3	75.52	16.38	29.45	0
5/28/21 15:32	2.927	212.7	50.79	16.67	29.45	0
5/28/21 15:51	4.131	244.9	30.98	16.7	29.45	0
5/28/21 16:04	3.57	301.9	17.98	15.97	29.45	0
5/28/21 16:25	3.725	344.2	14.37	15.81	29.45	0
5/28/21 16:37	4.279	1.077	12	15.24	29.45	0
5/28/21 16:57	6.309	18.58	7.582	14.7	29.42	0
5/28/21 17:04	6.693	12.73	7.625	14.5	29.42	0
5/28/21 17:21	6.825	358.8	13.47	15.33	29.42	0
5/28/21 17:33	7.216	352.4	9.8	15.09	29.42	0
5/28/21 17:54	6.132	0.62	10.54	15.45	29.41	0
5/28/21 18:09	7.273	349.3	11.67	15.79	29.41	0
5/28/21 18:26	7.307	331.9	12.52	15.79	29.41	0
5/28/21 18:34	7.199	334.1	8.76	15.62	29.41	0
5/28/21 18:50	6.973	2.42	11.92	14.77	29.4	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
5/28/21 19:05	5.911	358.9	14.65	14.47	29.4	0
5/28/21 19:21	5.868	10.26	12.37	13.84	29.4	0
5/28/21 19:42	4.493	7.409	16.38	13.56	29.4	0
5/28/21 19:51	5.007	11.92	12.43	12.96	29.42	0
5/28/21 20:01	4.392	6.452	16.31	12.67	29.42	0
5/28/21 20:16	3.929	0.127	22.27	12.29	29.42	0
5/28/21 20:40	6.307	355.8	19.85	11.98	29.42	0
5/28/21 20:58	7	6.679	15.41	11.58	29.41	0
5/28/21 21:06	7.203	14.52	13.94	11.16	29.41	0
5/28/21 21:21	7.598	15.08	10.13	10.88	29.41	0
5/28/21 21:41	8.35	14.56	12.32	10.85	29.41	0
5/28/21 21:58	8.39	19.32	13.05	10.6	29.4	0
5/28/21 22:12	8.41	26.16	11.89	10.33	29.4	0
5/28/21 22:17	8.7	18.11	13.13	10.13	29.4	0
5/28/21 22:30	8.17	18.9	13.3	9.93	29.4	0
5/28/21 22:54	7.911	15.82	11.39	9.72	29.38	0
5/28/21 23:09	8.66	13.08	12.29	9.58	29.38	0
5/28/21 23:21	7.793	23.75	16.22	9.33	29.38	0
5/28/21 23:36	9.66	34.92	12.54	9.26	29.38	0
5/28/21 23:57	12.68	16.96	10.81	9.25	29.38	0
5/29/21 0:00	12.63	17.67	9.77	9.07	29.38	0
5/29/21 0:22	12.09	28.51	7.517	8.84	29.38	0
5/29/21 0:32	10.71	29.29	10.78	8.59	29.38	0
5/29/21 0:48	10.37	27.92	9.66	8.52	29.37	0
5/29/21 1:09	11.69	39.45	8.31	8.22	29.37	0
5/29/21 1:15	11.99	30.82	8.29	7.892	29.37	0
5/29/21 1:44	10.07	24.24	5.97	7.527	29.37	0
5/29/21 1:49	10.94	27	8.54	7.414	29.36	0
5/29/21 2:14	8.65	19.93	18.06	7.244	29.36	0
5/29/21 2:18	8.42	13.34	16.36	7.204	29.36	0
5/29/21 2:31	3.668	357.9	15.87	7.065	29.36	0
5/29/21 2:58	4.472	8.39	20.46	6.978	29.37	0
5/29/21 3:13	7.849	6.453	13.16	6.733	29.37	0
5/29/21 3:16	8.09	16.93	9.61	6.42	29.37	0
5/29/21 3:37	6.63	27.69	7.651	6.026	29.37	0
5/29/21 3:55	6.046	43.18	10.31	5.924	29.35	0
5/29/21 4:01	4.677	41.39	14.23	6.322	29.35	0
5/29/21 4:19	4.666	8.49	8.93	6.244	29.35	0
5/29/21 4:44	5.298	6.989	10.83	5.97	29.35	0
5/29/21 4:46	5.909	12.53	8.71	5.711	29.36	0
5/29/21 5:04	5.161	14.38	8.06	5.533	29.36	0
5/29/21 5:20	4.354	15.51	8.83	5.567	29.36	0
5/29/21 5:44	3.433	18.84	9.88	5.65	29.36	0
5/29/21 5:58	3.895	16.96	9.13	5.711	29.34	0
5/29/21 6:03	4.414	8.13	9.44	6.199	29.34	0
5/29/21 6:18	3.655	8.98	11.04	6.46	29.34	0
5/29/21 6:38	3.54	24.7	7.443	7.105	29.34	0
5/29/21 6:49	3.45	15.06	12.45	7.869	29.34	0
5/29/21 7:01	2.439	359.2	10.65	8.63	29.34	0
5/29/21 7:23	1.446	0.187	23.58	9.8	29.34	0
5/29/21 7:39	1.209	39.79	10.63	10.57	29.34	0
5/29/21 7:56	1.348	269.9	56.74	11.12	29.36	0
5/29/21 8:06	1.818	341.5	22.39	11.49	29.36	0
5/29/21 8:16	1.347	18.52	31.52	12.24	29.36	0
5/29/21 8:35	2.2	320.5	30.47	13.21	29.36	0
5/29/21 8:48	1.871	307.3	23.42	13.53	29.34	0
5/29/21 9:10	2.385	320.1	21.08	14.24	29.34	0
5/29/21 9:23	3.306	333.2	22.59	14.59	29.34	0
5/29/21 9:35	4.594	352.6	25.42	15.24	29.34	0
5/29/21 9:57	9.19	17.64	13.25	15.52	29.33	0
5/29/21 10:11	11.54	14.04	7.961	15.28	29.33	0
5/29/21 10:27	10.73	14.54	11.64	15.61	29.33	0
5/29/21 10:43	9.39	9.55	11.02	16.09	29.33	0
5/29/21 10:55	9.04	16.53	11.9	16.56	29.31	0
5/29/21 11:06	8.53	18.55	14.47	17.31	29.31	0
5/29/21 11:20	9.5	11.2	12.09	17.57	29.31	0
5/29/21 11:31	8.36	8.79	24.11	18.02	29.31	0
5/29/21 11:54	8.24	12.38	20.1	18.17	29.31	0
5/29/21 12:14	7.297	9.58	12.22	18.74	29.31	0
5/29/21 12:21	10.13	12.56	12.31	18.89	29.31	0
5/29/21 12:32	9.91	17.37	10.88	19.11	29.31	0
5/29/21 12:46	9.41	12.86	13.07	19.78	29.3	0
5/29/21 13:06	8.85	16.65	15.1	20.06	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
5/29/21 13:27	6.28	321.6	36.23	21.25	29.3	0
5/29/21 13:31	7.116	300.9	28.2	21.6	29.3	0
5/29/21 13:56	7.669	327.9	43.19	21.72	29.28	0
5/29/21 14:10	8.24	323.9	37.59	22.04	29.28	0
5/29/21 14:23	7.029	338.1	30.55	22.32	29.28	0
5/29/21 14:30	7.385	355.8	26.18	22.03	29.28	0
5/29/21 14:54	8.13	2.309	21.22	22.15	29.27	0
5/29/21 15:08	7.73	337.3	18.59	22.76	29.27	0
5/29/21 15:23	8.46	307.4	17.91	23.04	29.27	0
5/29/21 15:44	8.42	308.1	12.43	22.97	29.27	0
5/29/21 15:45	9.02	303.3	8	23	29.26	0
5/29/21 16:09	7.347	343.7	24.73	22.87	29.26	0
5/29/21 16:17	8.06	346.6	17.38	22.82	29.26	0
5/29/21 16:43	7.839	356.5	20.67	22.36	29.26	0
5/29/21 16:48	7.515	343.7	13.71	22.74	29.24	0
5/29/21 17:01	7.082	335.2	14.46	22.82	29.24	0
5/29/21 17:29	7.423	313.1	21.07	22.85	29.24	0
5/29/21 17:30	9	301.8	9.76	22.45	29.24	0
5/29/21 17:59	7.901	298.8	10.83	22.27	29.25	0
5/29/21 18:03	8.08	301.4	7.229	22.07	29.25	0
5/29/21 18:26	7.254	316.1	7.344	21.82	29.25	0
5/29/21 18:34	6.433	314.2	10.62	21.51	29.25	0
5/29/21 18:47	6.473	316.2	11.96	20.84	29.24	0
5/29/21 19:00	3.785	348.2	14.87	20.36	29.24	0
5/29/21 19:22	3.03	9.53	6.553	19.31	29.24	0
5/29/21 19:32	3	342.6	24.03	19.33	29.24	0
5/29/21 19:58	4.01	322.7	18.46	18.84	29.26	0
5/29/21 20:01	4.732	321.2	13.47	18.39	29.26	0
5/29/21 20:25	5.109	327.9	10.52	17.53	29.26	0
5/29/21 20:33	4.728	351.5	27.86	16.56	29.26	0
5/29/21 20:56	9.05	13.61	7.775	15.83	29.29	0
5/29/21 21:06	10.85	12.98	8.54	15.69	29.29	0
5/29/21 21:15	9.34	14.86	8.01	15.6	29.29	0
5/29/21 21:44	9.86	17.56	7.515	15.61	29.29	0
5/29/21 21:46	10.67	12.24	6.478	15.04	29.26	0
5/29/21 22:11	9	17.8	5.762	14.72	29.26	0
5/29/21 22:16	9.03	18.4	7.372	14.41	29.26	0
5/29/21 22:30	4.962	6.115	10.74	14.07	29.26	0
5/29/21 22:46	3.781	6.835	12.63	13.92	29.29	0
5/29/21 23:14	3.336	12.15	8.74	13.7	29.29	0
5/29/21 23:26	4.849	24.64	7.152	13.08	29.29	0
5/29/21 23:44	5.708	24.57	7.989	12.93	29.29	0
5/29/21 23:45	5.754	23.48	5.201	12.55	29.28	0
5/30/21 0:13	5.423	33.63	8.48	12.19	29.28	0
5/30/21 0:16	5.499	38.25	9.08	12.1	29.28	0
5/30/21 0:31	5.089	36.99	5.853	12.67	29.28	0
5/30/21 0:56	4.324	29.66	11.3	12.84	29.28	0
5/30/21 1:07	4.344	11.61	8.07	12.44	29.28	0
5/30/21 1:15	3.549	13.87	7.804	12.14	29.28	0
5/30/21 1:30	3.657	8.87	6.549	12.19	29.28	0
5/30/21 1:48	3.601	13.34	7.141	12.14	29.31	0
5/30/21 2:07	4.544	12.29	4.469	11.84	29.31	0
5/30/21 2:26	3.68	14.33	7.161	11.83	29.31	0
5/30/21 2:38	3.714	12.1	9.39	11.62	29.31	0
5/30/21 2:51	4.177	8.14	4.842	11.23	29.28	0
5/30/21 3:05	3.689	1.158	7.518	11.31	29.28	0
5/30/21 3:20	3.223	16.62	12.48	11.38	29.28	0
5/30/21 3:41	2.944	18.57	8.17	11.21	29.28	0
5/30/21 3:47	3.256	18.35	5.247	10.96	29.31	0
5/30/21 4:01	3.295	31.59	4.375	10.92	29.31	0
5/30/21 4:26	2.764	39.22	7.676	11.01	29.31	0
5/30/21 4:40	3.669	29.53	12.12	10.33	29.31	0
5/30/21 4:50	4.2	0.197	11.49	11.12	29.3	0
5/30/21 5:00	3.265	4.41	5.911	11.82	29.3	0
5/30/21 5:24	2.477	36.41	10.55	11.56	29.3	0
5/30/21 5:30	2.322	37.91	12.62	12.16	29.3	0
5/30/21 5:46	1.981	6.728	8.44	12.33	29.32	0
5/30/21 6:06	0.113	26.03	11.09	13.19	29.32	0
5/30/21 6:28	0.187	152.8	28.6	13.51	29.32	0
5/30/21 6:42	1.572	225.3	12.77	13.99	29.32	0
5/30/21 6:49	1.857	148.7	22.18	14.43	29.33	0
5/30/21 7:04	0.424	123.4	47.12	15.65	29.33	0
5/30/21 7:20	1.341	239.2	32.23	16.04	29.33	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
5/30/21 7:41	2.306	224.6	28.29	16	29.33	0
5/30/21 7:49	3.142	263.2	22.89	16.29	29.34	0
5/30/21 8:00	3.41	292.4	16.15	16.95	29.34	0
5/30/21 8:26	4.044	276.3	11.65	17.22	29.34	0
5/30/21 8:30	3.742	267	16.07	17.46	29.34	0
5/30/21 8:59	2.594	282.1	21.24	18.33	29.32	0
5/30/21 9:13	5.413	267.9	20	18.65	29.32	0
5/30/21 9:28	8.29	256.9	8.28	18.24	29.32	0
5/30/21 9:35	7.539	252.7	8.61	18.5	29.32	0
5/30/21 9:48	6.636	254.8	12.84	18.99	29.33	0
5/30/21 10:05	5.028	255.9	20.24	19.58	29.33	0
5/30/21 10:17	4.246	281	25.87	20.34	29.33	0
5/30/21 10:39	5.131	293.5	28.76	20.84	29.33	0
5/30/21 10:53	4.696	315.9	43.19	21.13	29.36	0
5/30/21 11:12	4.041	315.2	59.8	20.89	29.36	0
5/30/21 11:16	4.603	274.9	32.88	20.73	29.36	0
5/30/21 11:37	5.87	7.476	18.17	19.89	29.36	0
5/30/21 11:46	6.372	6.424	13.12	19.95	29.35	0
5/30/21 12:10	6.02	350.9	20.53	20.65	29.35	0
5/30/21 12:18	7.075	306.4	16.12	20.57	29.35	0
5/30/21 12:32	7.653	291.5	12.19	20.02	29.35	0
5/30/21 12:47	6.204	303.4	14.18	20.11	29.35	0
5/30/21 13:14	5.843	338.1	22.73	20.46	29.35	0
5/30/21 13:16	6.82	1.209	16.1	20.28	29.35	0
5/30/21 13:31	6.004	5.588	17.6	21.31	29.35	0
5/30/21 13:46	7.278	18.74	12.35	21.05	29.33	0
5/30/21 14:00	5.943	25.24	9.87	21.56	29.33	0
5/30/21 14:15	3.457	7.12	21.03	22.57	29.33	0
5/30/21 14:30	3.062	344.1	28.24	23.77	29.33	0
5/30/21 14:57	3.045	6.586	28.1	23.61	29.32	0
5/30/21 15:14	9.08	278	29.51	22.99	29.32	0
5/30/21 15:19	10.61	267.4	9.02	22.35	29.32	0
5/30/21 15:32	6.721	296.5	21.31	22.83	29.32	0
5/30/21 15:58	6.798	293	18.38	22.59	29.33	0
5/30/21 16:01	7.39	283.6	9.67	22.11	29.33	0
5/30/21 16:19	8.76	284.2	11.21	21.88	29.33	0
5/30/21 16:34	7.562	289.7	7.931	21.74	29.33	0
5/30/21 16:45	6.152	296.9	8.65	21.75	29.32	0
5/30/21 17:10	3.793	333.1	17.02	22.32	29.32	0
5/30/21 17:22	5.327	4.668	14.62	21.47	29.32	0
5/30/21 17:30	5.069	13.68	9.88	21.03	29.32	0
5/30/21 17:51	4.343	9.54	9.65	21.38	29.3	0
5/30/21 18:10	3.088	7.928	13.16	21.69	29.3	0
5/30/21 18:19	3.267	6.629	9.37	21.49	29.3	0
5/30/21 18:35	3.927	357.3	17.49	21.57	29.3	0
5/30/21 18:48	4.107	305.6	14.21	21.95	29.31	0
5/30/21 19:14	3.979	301.1	9.82	21.49	29.31	0
5/30/21 19:15	2.57	329.2	22.24	20.94	29.31	0
5/30/21 19:44	2.806	336.6	16.11	20.22	29.31	0
5/30/21 19:46	3.531	315.4	16.78	19.75	29.34	0
5/30/21 20:14	3.194	355.1	19.33	18.86	29.34	0
5/30/21 20:24	7.5	10.13	8.57	17.64	29.34	0
5/30/21 20:36	9.91	11.73	7.203	17.39	29.34	0
5/30/21 20:47	8.08	17.97	7.191	16.87	29.34	0
5/30/21 21:14	8.99	20.15	7.572	16.69	29.34	0
5/30/21 21:19	8.64	20.1	7.602	16.37	29.34	0
5/30/21 21:37	7.93	27.14	7.488	16.15	29.34	0
5/30/21 21:59	7.144	26.55	8.36	15.73	29.35	0
5/30/21 22:06	6.378	21.02	8.99	15.77	29.35	0
5/30/21 22:29	7.217	25.4	8.39	15.2	29.35	0
5/30/21 22:37	7.989	20.29	7.735	15.11	29.35	0
5/30/21 22:49	7.258	21.97	8.21	15.05	29.33	0
5/30/21 23:01	4.871	17.46	7.124	14.84	29.33	0
5/30/21 23:23	3.356	4.816	8.58	14.76	29.33	0
5/30/21 23:43	3.232	7.732	9.08	14.56	29.33	0
5/30/21 23:50	3.539	14.18	8.39	14.19	29.36	0
5/31/21 0:09	3.635	30.24	8.84	13.99	29.36	0
5/31/21 0:28	3.651	20.41	8.35	13.65	29.36	0
5/31/21 0:31	3.714	25.32	8.17	13.45	29.36	0
5/31/21 0:58	4.4	29.28	8.5	12.83	29.36	0
5/31/21 1:04	5.749	31.43	6.102	13.32	29.36	0
5/31/21 1:17	4.444	26.66	7.316	13.51	29.36	0
5/31/21 1:33	4.318	2.034	7.134	13.72	29.36	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
5/31/21 1:48	3.595	5.26	6.581	13.37	29.37	0
5/31/21 2:01	2.523	355.5	8.14	13.53	29.37	0
5/31/21 2:24	1.887	321.5	16.39	14.09	29.37	0
5/31/21 2:40	0.94	4.107	15.13	13.26	29.37	0
5/31/21 2:49	0.839	20.8	0.522	12.6	29.35	0
5/31/21 3:03	2.164	17.71	8.63	12.61	29.35	0
5/31/21 3:15	1.808	345.8	4.101	13.18	29.35	0
5/31/21 3:36	1.486	25.5	20.74	12.62	29.35	0
5/31/21 3:58	1.357	57.26	4.645	12.03	29.36	0
5/31/21 4:01	1.148	58.94	1.714	12.49	29.36	0
5/31/21 4:21	0.979	58.41	1.225	13.16	29.36	0
5/31/21 4:36	1.584	109.5	29.83	13.67	29.36	0
5/31/21 4:46	0.282	119.3	6.393	13.86	29.38	0
5/31/21 5:08	0.532	93.6	6.127	14.16	29.38	0
5/31/21 5:27	0.879	76.09	21.61	14.17	29.38	0
5/31/21 5:40	3.101	88.7	4.206	13.23	29.38	0
5/31/21 5:45	2.22	82.3	2.35	13.22	29.37	0
5/31/21 6:02	1.709	91.4	3.848	13.65	29.37	0
5/31/21 6:15	1.087	76.24	32.43	14.12	29.37	0
5/31/21 6:38	1.772	350	14.15	14.31	29.37	0
5/31/21 6:59	2.319	5.826	14.33	14.85	29.37	0
5/31/21 7:10	1.762	331.5	23.58	16.06	29.37	0
5/31/21 7:20	2.212	287.2	28.02	16.48	29.37	0
5/31/21 7:30	1.294	304.6	15.65	17.13	29.37	0
5/31/21 7:48	1.751	297.5	30.76	17.84	29.36	0
5/31/21 8:09	1.352	329.7	37.11	18.18	29.36	0
5/31/21 8:23	2.127	300.7	36.53	18.4	29.36	0
5/31/21 8:38	2.034	315.5	19.94	18.79	29.36	0
5/31/21 8:56	2.242	326.1	28.88	19.53	29.36	0
5/31/21 9:12	2.758	300.8	29.48	20.01	29.36	0
5/31/21 9:27	4.378	265.9	28.42	20.19	29.36	0
5/31/21 9:40	4.004	260.8	20.85	20.51	29.36	0
5/31/21 9:45	4.261	285.8	21.25	21.09	29.38	0
5/31/21 10:02	5.196	267.9	17.68	21.5	29.38	0
5/31/21 10:18	5.883	253.3	18.22	21.93	29.38	0
5/31/21 10:40	5.727	257.6	17.2	22.48	29.38	0
5/31/21 10:59	6.311	256	15.64	22.82	29.37	0
5/31/21 11:13	8.32	251.1	9.47	23	29.37	0
5/31/21 11:15	7.7	255	12.01	23.39	29.37	0
5/31/21 11:30	5.928	263.9	14.51	23.85	29.37	0
5/31/21 11:48	5.671	264.7	27.02	24.49	29.38	0
5/31/21 12:04	3.266	246.4	70.5	25.28	29.38	0
5/31/21 12:21	4.057	331.2	26.21	26.11	29.38	0
5/31/21 12:39	6.716	343.9	25.35	26	29.38	0
5/31/21 12:48	6.739	346.9	28.09	26.25	29.36	0
5/31/21 13:09	7.298	330.8	22.1	27.03	29.36	0
5/31/21 13:15	7.102	346.5	20.95	26.81	29.36	0
5/31/21 13:35	8.29	314.2	25.75	27.36	29.36	0
5/31/21 13:55	8.8	297.4	18.34	27.63	29.33	0
5/31/21 14:14	7.308	306.8	23.52	28	29.33	0
5/31/21 14:18	7.256	345.6	25.58	27.67	29.33	0
5/31/21 14:38	8.69	339.1	20.2	27.72	29.33	0
5/31/21 14:59	7.21	329.3	28.94	28.02	29.34	0
5/31/21 15:02	9.35	351.4	18.83	27.47	29.34	0
5/31/21 15:17	10.74	308.9	11	27.54	29.34	0
5/31/21 15:40	8.85	334.6	22.67	27.5	29.34	0
5/31/21 15:51	8.11	335.6	21.74	27.71	29.35	0
5/31/21 16:09	7.958	321.6	20.27	27.62	29.35	0
5/31/21 16:24	10.68	304.7	8.8	27.31	29.35	0
5/31/21 16:41	10.21	317.2	13.75	27.46	29.35	0
5/31/21 16:47	10.39	313	13.72	27.32	29.32	0
5/31/21 17:12	8.23	336.2	18.33	27.27	29.32	0
5/31/21 17:29	6.566	330.2	21.63	27.05	29.32	0
5/31/21 17:41	8.85	318.6	15.16	26.99	29.32	0
5/31/21 17:54	12.74	305.1	8.16	26.32	29.33	0
5/31/21 18:14	11.32	321.8	17.2	25.77	29.33	0
5/31/21 18:15	11.27	333.1	8.32	25.45	29.33	0
5/31/21 18:40	10.83	338.8	10.91	25.22	29.33	0
5/31/21 18:56	9.85	337.9	12.2	24.95	29.31	0
5/31/21 19:05	9.06	336.4	10.29	24.77	29.31	0
5/31/21 19:22	8.85	332.8	11.34	24.5	29.31	0
5/31/21 19:32	8.36	325.3	8.93	24	29.31	0
5/31/21 19:55	8.17	340.8	8.86	23.41	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
5/31/21 20:13	7.597	350.8	15.7	22.75	29.32	0
5/31/21 20:28	9.13	1.638	10.97	22.29	29.32	0
5/31/21 20:42	10.06	0.538	11.5	22.12	29.32	0
5/31/21 20:54	8.51	1.234	15.29	21.91	29.36	0
5/31/21 21:00	6.483	10.54	9.09	21.14	29.36	0
5/31/21 21:25	9.7	357.5	11.9	20.91	29.36	0
5/31/21 21:32	9.38	4.619	8.8	20.21	29.36	0
5/31/21 21:47	9.08	11.88	11.76	19.88	29.36	0
5/31/21 22:12	10.59	13.75	9.38	19.26	29.36	0
5/31/21 22:16	14.94	3.617	8.91	19.62	29.36	0
5/31/21 22:34	9.21	18.63	11.15	19.14	29.36	0
5/31/21 22:57	7	16.49	14.47	18.8	29.34	0
5/31/21 23:12	6.847	353	17.49	19.23	29.34	0
5/31/21 23:17	8.98	353	13.5	18.95	29.34	0
5/31/21 23:43	10.14	3.924	13.14	18.41	29.34	0
5/31/21 23:47	9.47	4.737	12.03	18.74	29.31	0
6/1/21 0:00	6.992	16.58	14.7	18.16	29.31	0
6/1/21 0:15	6.75	25.77	10.61	17.43	29.31	0
6/1/21 0:36	7.641	21.17	8.31	17.16	29.31	0
6/1/21 0:48	7.998	17.95	9.66	17.1	29.3	0
6/1/21 1:13	7.005	25.73	7.223	16.88	29.3	0
6/1/21 1:17	4.666	18.64	18.06	16.72	29.3	0
6/1/21 1:44	3.089	357.2	17.28	16.66	29.3	0
6/1/21 1:45	3.465	5.795	11.35	16.15	29.3	0
6/1/21 2:10	7.556	5.06	9.97	16.11	29.3	0
6/1/21 2:18	7.555	13.36	8.06	15.79	29.3	0
6/1/21 2:34	7.162	19.03	7.443	15.21	29.3	0
6/1/21 2:46	4.991	26.59	8.08	15.08	29.31	0
6/1/21 3:13	4.903	24.77	9.57	15.24	29.31	0
6/1/21 3:18	5.026	25.86	8.58	15.04	29.31	0
6/1/21 3:44	5.912	14.35	9.94	14.81	29.31	0
6/1/21 3:47	6.076	15.33	8.68	14.4	29.29	0
6/1/21 4:06	5.314	28.13	9.78	14.24	29.29	0
6/1/21 4:17	5.202	12.69	10.18	14.43	29.29	0
6/1/21 4:34	4.98	6.786	10.25	14.31	29.29	0
6/1/21 4:47	3.71	15.67	5.191	14.44	29.28	0
6/1/21 5:07	4.264	4.293	6.506	14.8	29.28	0
6/1/21 5:22	3.988	8.24	5.905	14.82	29.28	0
6/1/21 5:37	3.618	6.753	8.41	15.38	29.28	0
6/1/21 5:51	3.714	17.59	4.535	15.4	29.28	0
6/1/21 6:01	2.352	354.9	11.53	16.24	29.28	0
6/1/21 6:29	0.628	355	25.71	18.33	29.28	0
6/1/21 6:31	1.353	32.04	8.42	18.45	29.28	0
6/1/21 6:59	1.818	33.85	9.71	18.64	29.29	0
6/1/21 7:13	2.693	25.94	16.35	18.88	29.29	0
6/1/21 7:25	3.237	39.17	12.68	19.16	29.29	0
6/1/21 7:33	2.446	33.04	16.49	19.72	29.29	0
6/1/21 7:53	0.869	74.7	24.38	20.99	29.28	0
6/1/21 8:02	1.453	344.6	48.02	22.08	29.28	0
6/1/21 8:28	0.933	317.4	48.94	22.57	29.28	0
6/1/21 8:33	1.278	31.18	54.3	23.37	29.28	0
6/1/21 8:57	2.634	2.931	30.41	24	29.26	0
6/1/21 9:14	4.737	350	17.12	24.89	29.26	0
6/1/21 9:28	5.919	344.9	11.2	25.34	29.26	0
6/1/21 9:32	7.01	350.6	13.4	25.78	29.26	0
6/1/21 9:51	7.306	343.1	23.21	26.2	29.25	0
6/1/21 10:09	7.426	313.1	18.82	26.91	29.25	0
6/1/21 10:15	6.435	327	25.21	27.06	29.25	0
6/1/21 10:38	8.76	4.153	15.27	27.14	29.25	0
6/1/21 10:52	8.19	336.2	17.8	28.06	29.23	0
6/1/21 11:04	7.6	348.3	23.02	29.4	29.23	0
6/1/21 11:18	8.17	358.6	19.15	29.51	29.23	0
6/1/21 11:45	6.964	340.1	27.97	30.4	29.23	0
6/1/21 11:51	10.62	6.3	11.22	29.4	29.21	0
6/1/21 12:00	9.43	358	14.55	30.3	29.21	0
6/1/21 12:22	8.45	335.3	21.6	31.4	29.21	0
6/1/21 12:33	8.74	340.4	23.09	31.29	29.21	0
6/1/21 12:57	8.48	338.3	30.46	31.52	29.19	0
6/1/21 13:02	8.32	356.3	17.77	31.95	29.19	0
6/1/21 13:16	9.21	0.112	16.52	31.92	29.19	0
6/1/21 13:42	9.46	347.9	15.78	32.74	29.19	0
6/1/21 13:55	8.97	356.3	15.69	32.44	29.16	0
6/1/21 14:09	10.76	357.6	14.48	32.53	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
6/1/21 14:22	10.64	352.2	14.31	32.89	29.16	0
6/1/21 14:31	10.75	350.9	13	32.99	29.16	0
6/1/21 14:50	11.33	349.5	11.85	33.14	29.13	0
6/1/21 15:03	9.79	354.2	12.91	33.17	29.13	0
6/1/21 15:28	9.94	354.3	15.31	33.28	29.13	0
6/1/21 15:35	10.26	345.2	18.27	33.69	29.13	0
6/1/21 15:48	9.73	335.8	17.64	34.01	29.12	0
6/1/21 16:04	9.12	336.9	19.99	34.2	29.12	0
6/1/21 16:20	9.16	317.5	18.98	34.59	29.12	0
6/1/21 16:41	10.74	301.6	7.704	34.42	29.12	0
6/1/21 16:58	8.43	305	8.99	34.45	29.11	0
6/1/21 17:11	8.14	306.6	13.45	34.24	29.11	0
6/1/21 17:17	6.481	326.6	24.06	33.83	29.11	0
6/1/21 17:39	7.106	330.1	13.85	33.88	29.11	0
6/1/21 17:55	7.868	338.3	14.16	33.52	29.08	0
6/1/21 18:05	5.735	343.9	12.08	33.07	29.08	0
6/1/21 18:15	6.857	353.7	14.49	32.39	29.08	0
6/1/21 18:39	6.808	332	13.86	32.85	29.08	0
6/1/21 18:53	7.129	340.1	12.49	32.76	29.09	0
6/1/21 19:12	7.582	334.2	13.29	32.47	29.09	0
6/1/21 19:27	8.13	330.5	10.39	31.76	29.09	0
6/1/21 19:33	7.357	338	9.65	31.04	29.09	0
6/1/21 19:55	5.601	333.2	10.39	30.11	29.06	0
6/1/21 20:12	4.781	4.85	12.86	28.11	29.06	0
6/1/21 20:25	7.629	14.5	6.247	27.01	29.06	0
6/1/21 20:34	6.266	13.29	8.17	26.73	29.06	0
6/1/21 20:46	3.189	2.492	14.84	26.62	29.08	0
6/1/21 21:00	3.827	339.6	16.17	27.12	29.08	0
6/1/21 21:28	3.929	350.1	12.56	26.13	29.08	0
6/1/21 21:38	3.639	20.88	8.66	24.66	29.08	0
6/1/21 21:58	5.465	26.22	4.926	23.79	29.06	0
6/1/21 22:14	6.363	25.68	6.497	23.69	29.06	0
6/1/21 22:16	6.518	34.29	7.525	23.45	29.06	0
6/1/21 22:44	5.669	26.87	7.987	23.31	29.06	0
6/1/21 22:56	6.651	21.46	5.249	22.54	29.06	0
6/1/21 23:02	6.14	34.01	8.02	22.51	29.06	0
6/1/21 23:24	4.614	12.51	7.732	22.67	29.06	0
6/1/21 23:30	2.561	20.12	14.44	22.2	29.06	0
6/1/21 23:58	2.561	354.8	10.49	22.63	29.06	0
6/2/21 0:14	2.706	354.1	9.83	23.46	29.06	0
6/2/21 0:28	3.32	17.91	11.55	21.84	29.06	0
6/2/21 0:36	4.757	15.69	9.72	20.35	29.06	0
6/2/21 0:45	3.855	10.21	7.392	20.13	29.09	0
6/2/21 1:13	4.543	4.352	8.25	20.49	29.09	0
6/2/21 1:22	5.589	6.447	9.63	20.45	29.09	0
6/2/21 1:31	5.059	5.74	12.37	20.4	29.09	0
6/2/21 1:55	5.357	11.72	6.903	20.22	29.09	0
6/2/21 2:09	6.207	17.32	7.009	19.87	29.09	0
6/2/21 2:18	6.473	22.96	7.108	19.8	29.09	0
6/2/21 2:36	6.05	36.96	7.272	19.94	29.09	0
6/2/21 2:47	4.629	35.89	11.58	20.83	29.07	0
6/2/21 3:00	3.538	41.78	20.55	21.5	29.07	0
6/2/21 3:21	3.319	130.8	19.4	20.97	29.07	0
6/2/21 3:41	3.232	159.9	8.2	21.26	29.07	0
6/2/21 3:52	3.595	172	5.912	20.78	29.1	0
6/2/21 4:05	4.12	149.5	13.14	20.27	29.1	0
6/2/21 4:16	2.899	127.5	11.17	20.09	29.1	0
6/2/21 4:30	1.755	103.2	14.92	20.43	29.1	0
6/2/21 5:00	2.192	119.8	23.04	20.38	29.11	0
6/2/21 5:14	3.734	160	15.56	20.82	29.11	0
6/2/21 5:19	4.643	169.3	10.68	20.42	29.11	0
6/2/21 5:31	3.497	145	9.77	20.88	29.11	0
6/2/21 5:48	3.429	117	4.88	21.28	29.11	0
6/2/21 6:10	3.593	144.8	12.83	22.46	29.11	0
6/2/21 6:15	3.279	154.2	10.57	23.06	29.11	0
6/2/21 6:43	3.942	178.3	17.15	22.98	29.11	0
6/2/21 6:54	5.325	176	12.81	22.89	29.12	0
6/2/21 7:03	5.742	165.6	7.183	22.66	29.12	0
6/2/21 7:19	5.26	159.5	19.63	22.98	29.12	0
6/2/21 7:41	4.246	156.1	21.67	23.54	29.12	0
6/2/21 7:49	4.575	172.7	13.47	23.93	29.15	0
6/2/21 8:14	5.318	140.3	19.78	24.41	29.15	0
6/2/21 8:19	4.969	152.5	21.35	24.75	29.15	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
6/2/21 8:44	4.22	158.6	32.26	25.27	29.15	0
6/2/21 8:55	5.261	181.9	23.81	25.29	29.14	0
6/2/21 9:10	5.483	178.8	16.14	25.4	29.14	0
6/2/21 9:15	4.322	174.6	21.22	25.72	29.14	0
6/2/21 9:37	4.142	182.7	25.99	26.11	29.14	0
6/2/21 9:50	3.44	183	29.68	26.86	29.16	0
6/2/21 10:03	3.116	225.1	45.27	27.71	29.16	0
6/2/21 10:17	3.115	230.6	38.54	27.88	29.16	0
6/2/21 10:43	3.548	211.5	56.1	28.35	29.16	0
6/2/21 10:45	2.956	200.9	26.69	28.64	29.14	0
6/2/21 11:12	3.698	227	40.78	29.25	29.14	0
6/2/21 11:16	3.517	247.4	37.97	29.55	29.14	0
6/2/21 11:42	4.818	248	27.46	29.96	29.14	0
6/2/21 11:59	5.837	221.8	19.49	30.08	29.14	0
6/2/21 12:03	6.313	277.5	14.2	30.14	29.14	0
6/2/21 12:26	6.563	269.2	14.94	30.4	29.14	0
6/2/21 12:32	7.36	272.5	12.85	30.49	29.14	0
6/2/21 12:55	8.49	255.9	10.59	30.41	29.14	0
6/2/21 13:02	8.51	244.7	12.33	30.62	29.14	0
6/2/21 13:18	8.13	265.5	12.56	30.79	29.14	0
6/2/21 13:38	8.51	263.4	12.91	30.84	29.14	0
6/2/21 13:55	7.178	253.5	13.85	30.89	29.12	0
6/2/21 14:14	5.582	265.9	17.77	31.36	29.12	0
6/2/21 14:18	3.718	263.7	29.13	31.74	29.12	0
6/2/21 14:37	4.519	246.3	49.22	32.03	29.12	0
6/2/21 14:57	3.627	253.6	59.43	32.43	29.12	0
6/2/21 15:05	2.805	252.6	44.09	32.97	29.12	0
6/2/21 15:22	3.518	187.1	39.35	32.78	29.12	0
6/2/21 15:44	4.321	226.9	38.65	33.07	29.12	0
6/2/21 15:45	5.135	240.3	25.8	33.38	29.09	0
6/2/21 16:07	7.041	220.4	42.06	32.89	29.09	0
6/2/21 16:16	7.684	233.4	17.28	32.72	29.09	0
6/2/21 16:41	7.309	236.3	17.29	32.57	29.09	0
6/2/21 16:57	7.483	226.4	15.36	32.45	29.07	0
6/2/21 17:14	7.057	229.3	12.12	32.17	29.07	0
6/2/21 17:20	6.318	222.7	13.44	32.34	29.07	0
6/2/21 17:40	6.044	246.1	11.6	32.22	29.07	0
6/2/21 17:51	8.45	245.1	11.54	31.65	29.09	0
6/2/21 18:13	8.6	232.4	10.58	30.89	29.09	0
6/2/21 18:22	9.91	240.5	9.06	30.37	29.09	0
6/2/21 18:33	9.22	237.1	7.287	29.89	29.09	0
6/2/21 18:50	8.84	236.9	7.742	29.5	29.09	0
6/2/21 19:03	7.187	243.2	9.56	28.96	29.09	0
6/2/21 19:17	4.198	291	58.09	27.95	29.09	0
6/2/21 19:43	2.043	5.61	10	26.53	29.09	0
6/2/21 19:50	6.478	20.1	6.891	24.5	29.1	0
6/2/21 20:13	7.736	12.32	12.67	23.89	29.1	0
6/2/21 20:26	8.24	359.8	13	23.85	29.1	0
6/2/21 20:39	10.45	357.6	11.72	23.31	29.1	0
6/2/21 20:53	10.79	357.6	13.54	22.64	29.12	0
6/2/21 21:05	11.14	3.764	12.48	21.82	29.12	0
6/2/21 21:30	11.37	1.26	12.35	21.47	29.12	0
6/2/21 21:30	9.89	0.851	12.7	20.96	29.12	0
6/2/21 21:58	10.02	5.032	10.41	19.91	29.13	0
6/2/21 22:08	9.81	5.738	10.14	19.34	29.13	0
6/2/21 22:21	9.89	13.56	9.24	18.88	29.13	0
6/2/21 22:37	8.45	18.74	9.7	18.51	29.13	0
6/2/21 22:45	6.706	19.94	9	18.37	29.13	0
6/2/21 23:10	4.973	32.2	7.547	18.22	29.13	0
6/2/21 23:16	4.572	35.99	11.76	18.53	29.13	0
6/2/21 23:40	3.858	60.53	7.754	18.46	29.13	0
6/2/21 23:54	3.303	85.8	10.7	18.82	29.14	0
6/3/21 0:10	3.896	98.2	9.32	18.72	29.14	0
6/3/21 0:15	3.598	87.3	10.42	17.88	29.14	0
6/3/21 0:37	2.934	100.8	11.1	18.11	29.14	0
6/3/21 0:49	4.073	137.9	5.554	17.91	29.14	0
6/3/21 1:00	2.36	145	14.8	17.7	29.14	0
6/3/21 1:28	2.888	148.9	7.139	17.37	29.14	0
6/3/21 1:43	5.418	169.8	4.759	16.55	29.14	0
6/3/21 1:45	5.056	166.4	4.646	15.89	29.16	0
6/3/21 2:01	3.819	174.3	6.193	15.58	29.16	0
6/3/21 2:26	3.924	181.5	5.822	15.65	29.16	0
6/3/21 2:30	3.68	185.1	6.392	15.65	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
6/3/21 2:52	3.189	173.8	15.08	15.59	29.15	0
6/3/21 3:03	2.42	148.4	12.21	15.34	29.15	0
6/3/21 3:21	2.813	157.3	9.53	15.22	29.15	0
6/3/21 3:43	1.721	137.3	7.162	15.18	29.15	0
6/3/21 3:55	4.408	135.7	5.786	15.11	29.15	0
6/3/21 4:02	5.337	164.6	12.89	14.87	29.15	0
6/3/21 4:17	4.121	180	5.222	15.16	29.15	0
6/3/21 4:30	3.021	197.5	7.233	15.37	29.15	0
6/3/21 4:49	3.804	182.3	4.029	14.98	29.18	0
6/3/21 5:14	1.964	169.4	14.9	14.7	29.18	0
6/3/21 5:17	2.405	144	10.82	14.94	29.18	0
6/3/21 5:43	2.217	123.7	9.66	15.11	29.18	0
6/3/21 5:50	3.855	136.1	13.82	15.35	29.19	0
6/3/21 6:03	3.8	138.5	18.61	15.49	29.19	0
6/3/21 6:29	3.436	153.9	22.67	15.7	29.19	0
6/3/21 6:30	5.121	173.5	11.79	15.74	29.19	0
6/3/21 6:58	3.849	184.4	11.18	16.09	29.18	0
6/3/21 7:08	2.802	134.1	30.7	16.43	29.18	0
6/3/21 7:19	4.088	112	16.14	16.76	29.18	0
6/3/21 7:44	5.256	110.6	14.8	18	29.18	0
6/3/21 7:48	5.264	159.6	35.01	18.35	29.19	0
6/3/21 8:04	5.488	202.3	16.7	17.97	29.19	0
6/3/21 8:17	5.452	225.3	14.79	18.2	29.19	0
6/3/21 8:41	4.729	214.1	18.1	18.54	29.19	0
6/3/21 8:46	4.269	192.2	28.03	19.12	29.18	0
6/3/21 9:12	3.909	157.5	59.3	20.13	29.18	0
6/3/21 9:25	3.986	214.4	28.67	20.3	29.18	0
6/3/21 9:33	5.546	227.3	16.7	20.26	29.18	0
6/3/21 9:53	3.313	232.4	47.35	21.12	29.18	0
6/3/21 10:03	5.771	247	13.52	21.3	29.18	0
6/3/21 10:17	3.157	228.7	29.63	21.63	29.18	0
6/3/21 10:43	3.2	132.1	72.47	22.39	29.18	0
6/3/21 10:59	4.157	258.5	27.71	22.72	29.18	0
6/3/21 11:02	5.467	241.8	40.42	23.19	29.18	0
6/3/21 11:15	5.099	222.4	36.55	23.19	29.18	0
6/3/21 11:40	6.376	248.7	27.5	23.43	29.18	0
6/3/21 11:59	5.12	269.7	23.24	23.32	29.16	0
6/3/21 12:01	4.67	268	22.35	23.94	29.16	0
6/3/21 12:19	5.404	254.5	30.89	24.2	29.16	0
6/3/21 12:37	6.004	228.8	21.38	24.44	29.16	0
6/3/21 12:48	5.257	224	32.01	24.84	29.17	0
6/3/21 13:05	5.642	218	38.68	25.15	29.17	0
6/3/21 13:27	7.047	248.8	24.94	25.33	29.17	0
6/3/21 13:32	6.576	252.4	19.81	25.14	29.17	0
6/3/21 13:56	6.349	235.9	21.66	25.58	29.15	0
6/3/21 14:07	6.983	258.4	22.42	25.88	29.15	0
6/3/21 14:18	6.605	250.8	33.43	26.34	29.15	0
6/3/21 14:38	6.791	207.7	26.96	26.01	29.15	0
6/3/21 14:57	5.422	208.4	42.17	26.31	29.14	0
6/3/21 15:00	4.82	207.2	47.71	26.42	29.14	0
6/3/21 15:17	6.056	197.4	21.06	26.75	29.14	0
6/3/21 15:44	6.965	201.6	17.7	26.78	29.14	0
6/3/21 15:51	8.55	201.6	23.26	26.41	29.14	0
6/3/21 16:14	6.428	230.4	17.82	26.5	29.14	0
6/3/21 16:27	8.2	192.3	16.43	26.24	29.14	0
6/3/21 16:33	7.493	200.2	20.72	26.27	29.14	0
6/3/21 16:58	6.333	212.9	23.61	26.32	29.13	0
6/3/21 17:09	6.015	203.2	29.85	26.24	29.13	0
6/3/21 17:27	7.337	197	14.54	26.12	29.13	0
6/3/21 17:43	6.017	206.4	15.97	26.07	29.13	0
6/3/21 17:57	7.004	202.5	23.01	25.76	29.13	0
6/3/21 18:13	7.16	223.4	15.43	25.59	29.13	0
6/3/21 18:22	7.305	216	11.28	25.14	29.13	0
6/3/21 18:42	7.119	235.4	16.81	24.93	29.13	0
6/3/21 18:57	9.41	242.9	9.59	23.98	29.12	0
6/3/21 19:04	10.19	238.4	6.711	23.4	29.12	0
6/3/21 19:19	10.16	239.2	6.887	22.92	29.12	0
6/3/21 19:42	7.066	238.4	10.81	22.43	29.12	0
6/3/21 19:45	4.945	227.4	11.66	21.87	29.15	0
6/3/21 20:00	4.494	206.4	13.27	21.39	29.15	0
6/3/21 20:27	3.116	220.1	16.61	20.89	29.15	0
6/3/21 20:44	3.866	220.8	17.23	20.41	29.15	0
6/3/21 20:48	4.939	219	10.66	19.81	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
6/3/21 21:01	4.504	234.1	16.04	19.32	29.17	0
6/3/21 21:25	5.871	238.1	7.278	18.85	29.17	0
6/3/21 21:33	6.726	233.8	6.045	18.22	29.17	0
6/3/21 21:46	4.966	246.5	10.06	17.62	29.16	0
6/3/21 22:00	3.425	278.5	9.59	17.06	29.16	0
6/3/21 22:23	3.265	247.7	26.52	16.78	29.16	0
6/3/21 22:44	4.187	224.7	13.5	16.44	29.16	0
6/3/21 22:48	6.03	214.6	8.36	16.17	29.19	0
6/3/21 23:11	5.583	237.9	9.91	15.73	29.19	0
6/3/21 23:21	5.96	255.1	10.34	15.46	29.19	0
6/3/21 23:30	4.963	265	9.51	14.89	29.19	0
6/3/21 23:47	4.107	270	5.784	14.38	29.2	0
6/4/21 0:07	4.926	273.9	8.75	14.01	29.2	0
6/4/21 0:25	6.527	271	6.857	13.59	29.2	0
6/4/21 0:41	5.275	268.1	6.637	13.2	29.2	0
6/4/21 0:46	4.62	252.6	8.85	12.86	29.19	0
6/4/21 1:14	3.99	236.2	7.977	12.73	29.19	0
6/4/21 1:16	3.693	265	15.55	12.46	29.19	0
6/4/21 1:30	1.203	291.6	2.613	12.3	29.19	0
6/4/21 1:59	1.064	286.7	9.21	12.31	29.21	0
6/4/21 2:11	3.817	291	4.045	12.17	29.21	0
6/4/21 2:16	1.9	297.5	5.015	12.28	29.21	0
6/4/21 2:35	2.319	288.9	5.746	12.35	29.21	0
6/4/21 2:47	1.1	216.4	81.8	12.36	29.24	0
6/4/21 3:13	3.694	140.3	7.971	12.14	29.24	0
6/4/21 3:27	6.729	168.3	13.93	12.11	29.24	0
6/4/21 3:34	8.45	175.6	4.573	11.69	29.24	0
6/4/21 3:59	6.687	146.2	12.31	11.47	29.21	0
6/4/21 4:00	6.611	160.3	15.98	11.49	29.21	0
6/4/21 4:19	6.553	189.5	8.99	11.57	29.21	0
6/4/21 4:30	6.168	188.1	10.11	11.35	29.21	0
6/4/21 4:58	3.681	182.2	17.43	11.37	29.26	0
6/4/21 5:14	5.554	134	13.23	11.02	29.26	0
6/4/21 5:29	5.558	126.1	10.51	10.98	29.26	0
6/4/21 5:33	7.317	141.6	6.064	10.79	29.26	0
6/4/21 5:56	7.428	135.2	6.296	10.74	29.26	0
6/4/21 6:11	6.808	132.3	11.52	10.63	29.26	0
6/4/21 6:19	5.636	135.2	9.15	10.99	29.26	0
6/4/21 6:37	6.083	130	14.47	11.79	29.26	0
6/4/21 6:52	4.831	128.7	9.51	12.42	29.27	0
6/4/21 7:00	4.097	107.2	18.24	12.53	29.27	0
6/4/21 7:29	3.577	117.7	18.56	13.2	29.27	0
6/4/21 7:41	3.619	149.7	35.28	13.44	29.27	0
6/4/21 7:49	5.192	162.2	25.08	13.52	29.26	0
6/4/21 8:08	4.777	154.4	18.94	14.03	29.26	0
6/4/21 8:15	5.129	194.3	21.89	14.6	29.26	0
6/4/21 8:40	5.309	186.4	19.01	14.72	29.26	0
6/4/21 8:57	4.254	171.4	20.23	15.29	29.27	0
6/4/21 9:13	6.02	194.4	21.16	15.42	29.27	0
6/4/21 9:15	6.063	209.1	18.29	15.62	29.27	0
6/4/21 9:40	7.488	200.9	15.16	15.91	29.27	0
6/4/21 9:45	4.43	191	28.48	16.02	29.28	0
6/4/21 10:01	6.342	168.4	21.56	16.16	29.28	0
6/4/21 10:25	4.867	158.5	54.67	17.03	29.28	0
6/4/21 10:36	5.532	171.5	24.8	16.78	29.28	0
6/4/21 10:55	6.881	173	22.12	17.45	29.29	0
6/4/21 11:12	9.03	182	14.09	17.42	29.29	0
6/4/21 11:26	9.52	192.9	13.46	17.33	29.29	0
6/4/21 11:31	9.08	194.1	14.81	17.44	29.29	0
6/4/21 11:52	7.781	171.1	15.82	17.75	29.27	0
6/4/21 12:10	7.917	169.8	15.75	18.31	29.27	0
6/4/21 12:17	7.137	189.2	22.25	18.6	29.27	0
6/4/21 12:32	6.707	211.8	24.53	18.6	29.27	0
6/4/21 12:46	7.706	228.8	17.69	18.8	29.29	0
6/4/21 13:09	6.021	233.1	19.14	18.93	29.29	0
6/4/21 13:24	6.365	200.8	25.42	19.58	29.29	0
6/4/21 13:38	7.381	230.4	31.41	19.43	29.29	0
6/4/21 13:56	6.838	196.6	18.73	19.93	29.27	0
6/4/21 14:07	5.604	232.5	55.66	19.89	29.27	0
6/4/21 14:19	6.823	227.8	14.76	20.11	29.27	0
6/4/21 14:40	8.26	241.1	12.39	19.87	29.27	0
6/4/21 14:58	7.54	222.6	14.8	19.6	29.25	0
6/4/21 15:11	7.543	221.9	14.06	19.83	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
6/4/21 15:29	8.41	212.7	17.13	20.07	29.25	0
6/4/21 15:36	8.04	198.1	26.51	20.49	29.25	0
6/4/21 15:45	6.289	212.3	44.3	21.12	29.24	0
6/4/21 16:04	6.312	233	25.44	21.54	29.24	0
6/4/21 16:29	7.435	235.4	29.84	21.45	29.24	0
6/4/21 16:30	8.76	226.8	15.61	21.5	29.24	0
6/4/21 16:45	9.44	238.4	10.44	21.46	29.22	0
6/4/21 17:02	7.79	217.1	13.64	21.55	29.22	0
6/4/21 17:25	9.11	241.4	10.86	21.3	29.22	0
6/4/21 17:33	7.833	233.5	11.85	20.9	29.22	0
6/4/21 17:58	8.79	237.3	8.82	20.82	29.21	0
6/4/21 18:03	7.748	229.1	13.7	20.8	29.21	0
6/4/21 18:21	8.2	214.8	16.29	20.9	29.21	0
6/4/21 18:31	6.82	214.5	11.66	20.57	29.21	0
6/4/21 18:56	6.605	234.7	10.04	20.26	29.21	0
6/4/21 19:10	8.37	234.7	9.77	19.99	29.21	0
6/4/21 19:23	8.02	230.8	12.78	19.7	29.21	0
6/4/21 19:31	7.266	227.1	12.29	19.34	29.21	0
6/4/21 19:52	4.968	231.3	12.15	19.04	29.17	0
6/4/21 20:13	6.308	237	11.01	18.84	29.17	0
6/4/21 20:15	8.32	233.7	10.56	18.62	29.17	0
6/4/21 20:44	6.408	230.1	12.64	18.38	29.17	0
6/4/21 20:45	7.387	229.4	12.64	18.17	29.18	0
6/4/21 21:12	7.195	224.6	14.98	17.87	29.18	0
6/4/21 21:22	7.197	215.2	13.6	17.7	29.18	0
6/4/21 21:40	6.297	197.2	10.38	17.55	29.18	0
6/4/21 21:55	6.859	213.5	13.22	17.37	29.18	0
6/4/21 22:07	6.722	217.9	12.89	17.05	29.18	0
6/4/21 22:15	6.259	212.3	12.86	16.9	29.18	0
6/4/21 22:43	4.932	204.4	14.3	16.75	29.18	0
6/4/21 22:45	7.044	215.2	11.25	16.46	29.15	0
6/4/21 23:10	7.528	215.6	10.83	16.39	29.15	0
6/4/21 23:15	5.526	223.3	13.68	16.28	29.15	0
6/4/21 23:36	7.187	226.2	14.34	16	29.15	0
6/5/21 0:00	6.53	223.2	13.24	15.8	29.17	0
6/5/21 0:00	7.134	211	15.45	15.67	29.17	0
6/5/21 0:26	6.049	205	13.59	15.55	29.17	0
6/5/21 0:40	6.729	192.6	13.13	15.32	29.17	0
6/5/21 0:50	8.77	208	7.807	15.25	29.13	0
6/5/21 1:02	6.746	206.5	14.72	15.14	29.13	0
6/5/21 1:17	5.117	161.6	13.57	14.63	29.13	0
6/5/21 1:38	6.05	171.4	8.48	14.64	29.13	0
6/5/21 1:49	5.072	157.7	12.5	14.36	29.14	0
6/5/21 2:04	4.163	150.7	12.06	14.2	29.14	0
6/5/21 2:26	5.337	160	10.56	14.18	29.14	0
6/5/21 2:40	7.73	168.9	9.07	13.41	29.14	0.01
6/5/21 2:45	1.773	107.8	46.81	12.52	29.13	0.01
6/5/21 3:11	1.825	96.4	26.45	12.13	29.13	0
6/5/21 3:23	3.894	131.7	40.89	12.38	29.13	0.01
6/5/21 3:33	2.867	195	38.88	12.28	29.13	0.01
6/5/21 3:56	2.198	95.4	33.12	11.69	29.12	0
6/5/21 4:04	2.175	129.5	19.93	11.34	29.12	0
6/5/21 4:17	2.794	121	27.96	11.26	29.12	0
6/5/21 4:40	4.678	155.3	21.77	11.16	29.12	0.02
6/5/21 4:53	5.677	167.9	17.37	11.17	29.14	0.02
6/5/21 5:03	6.885	183.1	13.93	11.06	29.14	0.02
6/5/21 5:26	7.171	171	11.75	10.8	29.14	0.01
6/5/21 5:44	7.405	151	10.17	10.73	29.14	0
6/5/21 5:59	9.77	163.9	10.55	10.92	29.15	0
6/5/21 6:06	10.43	171.5	9.49	11.08	29.15	0.01
6/5/21 6:27	10.5	170.5	9.04	11.21	29.15	0
6/5/21 6:38	12.87	169.3	9.24	11.41	29.15	0
6/5/21 6:51	10.7	171	10.67	11.73	29.15	0
6/5/21 7:10	12.38	176.9	9.85	11.82	29.15	0
6/5/21 7:23	14.49	175.2	9.14	11.98	29.15	0
6/5/21 7:30	13.75	170	9.36	11.92	29.15	0
6/5/21 7:55	13.02	163	8.04	12.13	29.17	0
6/5/21 8:06	12.86	158.9	9.29	12.58	29.17	0
6/5/21 8:18	12.74	162.5	13.08	12.71	29.17	0
6/5/21 8:33	11.32	170.9	10.09	12.75	29.17	0
6/5/21 8:46	10.81	181.8	11.13	13.36	29.18	0
6/5/21 9:13	10.64	187.5	13.14	13.35	29.18	0
6/5/21 9:26	14.33	182.2	10.83	13.94	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
6/5/21 9:39	15.6	180.3	11.89	14.67	29.18	0
6/5/21 9:47	11.93	198.8	18.86	14.98	29.17	0
6/5/21 10:04	12.9	201.8	8.94	15.21	29.17	0
6/5/21 10:18	12.42	191.3	12.73	15.45	29.17	0
6/5/21 10:31	15.22	210.9	13.43	15.57	29.17	0
6/5/21 10:58	14.85	208.8	17.44	15.92	29.18	0
6/5/21 11:02	18.72	211.8	9.14	15.92	29.18	0
6/5/21 11:29	14.89	215.8	13.36	16.67	29.18	0
6/5/21 11:38	16.91	210.4	12.91	16.84	29.18	0
6/5/21 11:55	18.02	203.7	11.94	16.88	29.17	0
6/5/21 12:07	15.05	216.6	13.54	17.08	29.17	0
6/5/21 12:26	16.62	232	12.15	16.69	29.17	0
6/5/21 12:32	17.84	226.8	14.2	16.87	29.17	0
6/5/21 12:51	17.09	226.4	13.61	17.6	29.17	0
6/5/21 13:02	16.69	225	14.94	17.29	29.17	0
6/5/21 13:18	16.33	221.3	17.2	17.29	29.17	0
6/5/21 13:33	18.9	220.7	16.61	17.76	29.17	0
6/5/21 13:52	19.22	234.2	11.81	17.33	29.18	0
6/5/21 14:01	16.96	236.9	12.9	17.72	29.18	0
6/5/21 14:15	17.15	228.6	13.84	17.68	29.18	0
6/5/21 14:32	20.1	230.9	14.09	17.83	29.18	0
6/5/21 14:52	19.63	236.8	11.25	17.39	29.21	0
6/5/21 15:10	20	239.3	10.92	16.82	29.21	0
6/5/21 15:25	17.7	239.4	12.34	17.33	29.21	0
6/5/21 15:43	20.79	238.9	11.66	17.22	29.21	0
6/5/21 15:52	18.48	233.1	15.47	17.28	29.22	0
6/5/21 16:11	16.53	226.1	14.67	16.99	29.22	0
6/5/21 16:21	17.84	239.6	11.15	16.64	29.22	0
6/5/21 16:37	16.75	238.3	10.78	16.23	29.22	0
6/5/21 16:57	16.32	231.6	13.63	16.69	29.23	0
6/5/21 17:12	18.46	238.6	12.36	16.66	29.23	0
6/5/21 17:20	18.45	240.6	11.39	16.05	29.23	0
6/5/21 17:35	18.08	240.1	11.34	15.63	29.23	0
6/5/21 17:55	14.51	221.3	15.11	15.72	29.25	0
6/5/21 18:10	15.86	217.5	11.69	15.5	29.25	0
6/5/21 18:17	14.56	223.1	13.6	15.01	29.25	0
6/5/21 18:35	10.2	228	15.53	14.91	29.25	0
6/5/21 18:54	13.44	238.1	14.95	14.68	29.23	0
6/5/21 19:04	14.52	223.7	11.58	14.43	29.23	0
6/5/21 19:20	13.07	232	14.67	14.08	29.23	0
6/5/21 19:31	15.67	221.7	10.63	13.7	29.23	0
6/5/21 19:47	14.14	222.7	12.29	13.43	29.24	0
6/5/21 20:01	11.41	213.8	10.28	13.22	29.24	0
6/5/21 20:20	12.24	206.3	9.41	12.96	29.24	0
6/5/21 20:42	13.25	202.9	10.02	12.72	29.24	0
6/5/21 20:57	13.44	205.8	9.44	12.56	29.26	0
6/5/21 21:14	14.27	211.1	9.24	12.49	29.26	0
6/5/21 21:29	15.09	209.5	9.65	12.33	29.26	0
6/5/21 21:37	15.89	212.4	9.21	12.11	29.26	0
6/5/21 21:59	10.4	209.6	10.26	12.01	29.28	0
6/5/21 22:13	12.21	195.6	9.19	11.74	29.28	0
6/5/21 22:27	13.52	190.4	10.3	11.47	29.28	0
6/5/21 22:34	11.88	183.6	11.06	11.26	29.28	0
6/5/21 22:53	11.6	180	12.56	11.06	29.28	0
6/5/21 23:01	10.18	184.8	9.47	10.9	29.28	0
6/5/21 23:25	8.87	179.1	10.83	10.76	29.28	0
6/5/21 23:36	10.29	180.2	13.65	10.65	29.28	0
6/5/21 23:48	8.83	181.9	11.89	10.53	29.28	0
6/6/21 0:01	7.604	178.4	10.53	10.38	29.28	0
6/6/21 0:28	9.45	175.1	9.21	10.24	29.28	0
6/6/21 0:30	7.96	185.4	9.84	10.2	29.28	0
6/6/21 0:59	8.44	171	10.61	10.14	29.24	0
6/6/21 1:06	9.32	178.4	10.14	10.13	29.24	0
6/6/21 1:16	8.03	180.1	14.25	10.08	29.24	0
6/6/21 1:32	8.41	180.5	11.7	10.05	29.24	0
6/6/21 1:56	9.11	173.9	9.45	9.93	29.24	0
6/6/21 2:05	8.89	168.9	10.09	9.78	29.24	0
6/6/21 2:15	7.79	163.6	13.35	9.58	29.24	0
6/6/21 2:33	8.32	145.3	7.438	9.36	29.24	0
6/6/21 2:54	7.399	149.7	10.26	9.38	29.24	0
6/6/21 3:02	7.838	145.5	7.323	9.32	29.24	0
6/6/21 3:20	8.03	144.9	7.956	9.29	29.24	0
6/6/21 3:33	7.465	137.5	6.306	9.23	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
6/6/21 3:47	7.83	138	7.497	9.17	29.22	0
6/6/21 4:04	7.75	138.7	6.705	9.13	29.22	0
6/6/21 4:29	7.341	134	8.6	9.12	29.22	0
6/6/21 4:32	6.267	133	7.9	9.14	29.22	0
6/6/21 4:45	5.942	139.7	9.48	9.16	29.23	0
6/6/21 5:01	5.863	148.8	9.64	9.25	29.23	0
6/6/21 5:22	5.825	139.1	6.632	9.33	29.23	0
6/6/21 5:42	4.79	130.1	8.32	9.38	29.23	0
6/6/21 5:50	4.614	115.7	10.37	9.51	29.22	0
6/6/21 6:11	5.952	112.3	8.6	9.57	29.22	0
6/6/21 6:23	6.18	115.1	8.66	9.72	29.22	0
6/6/21 6:44	5.715	116.6	9.59	9.68	29.22	0
6/6/21 6:49	5.486	121.7	8.93	9.82	29.21	0
6/6/21 7:12	5.84	117	8.94	9.99	29.21	0
6/6/21 7:23	6.661	120.4	9.4	10.23	29.21	0
6/6/21 7:35	6.553	126.7	8.95	10.39	29.21	0
6/6/21 7:47	6.589	132.7	7.364	10.7	29.18	0
6/6/21 8:09	6.313	136.8	10.04	10.87	29.18	0
6/6/21 8:25	6.741	179.2	11.43	11.01	29.18	0
6/6/21 8:39	6.973	183.2	12.35	10.96	29.18	0
6/6/21 8:54	7.494	196.4	12.7	11.2	29.14	0
6/6/21 9:02	8.36	204.4	10.2	11.33	29.14	0
6/6/21 9:15	7.641	193.5	15.19	11.33	29.14	0
6/6/21 9:33	7.304	200.9	13.55	11.52	29.14	0
6/6/21 9:46	8.14	220.2	11.44	11.18	29.14	0
6/6/21 10:02	9.4	203	11.31	10.88	29.14	0
6/6/21 10:18	7.071	200.4	15.51	10.9	29.14	0
6/6/21 10:40	7.468	204.9	9.09	10.92	29.14	0
6/6/21 10:52	5.819	190.2	21.61	11.45	29.11	0
6/6/21 11:00	3.427	184.5	26.27	12.05	29.11	0
6/6/21 11:29	4.863	153.1	33.55	12.98	29.11	0
6/6/21 11:30	5.893	160.7	38.28	13.49	29.11	0
6/6/21 11:48	5.579	182.7	19.9	13.23	29.09	0
6/6/21 12:06	4.798	203.3	20.66	13.22	29.09	0
6/6/21 12:20	5.622	174.6	21.7	12.99	29.09	0
6/6/21 12:40	7.141	167	13.57	12.7	29.09	0
6/6/21 12:55	6.821	175.2	8.14	12.48	29.09	0
6/6/21 13:09	7.488	203	24.25	12.15	29.09	0.01
6/6/21 13:23	8.45	236.2	9.51	11.58	29.09	0
6/6/21 13:39	9.4	238.1	10.44	11.47	29.09	0.02
6/6/21 13:59	8.32	216.5	13.28	11.36	29.09	0.01
6/6/21 14:01	8.49	198.2	18.05	11.3	29.09	0
6/6/21 14:15	6.872	167.1	14.15	11.75	29.09	0.01
6/6/21 14:30	7.657	169.6	20.99	11.83	29.09	0
6/6/21 14:57	8.93	173.4	10.22	12.21	29.08	0
6/6/21 15:05	7.663	172.2	9.1	11.98	29.08	0.01
6/6/21 15:17	9.05	171.8	9.06	11.89	29.08	0
6/6/21 15:42	6.316	155	27.72	12.23	29.08	0
6/6/21 15:45	7.667	139.8	8.11	12.16	29.06	0
6/6/21 16:09	5.824	123.3	12.64	12.22	29.06	0
6/6/21 16:28	5.186	96.5	18.42	12.49	29.06	0
6/6/21 16:35	5.512	88.2	11.17	12.44	29.06	0
6/6/21 16:52	6.626	109.2	12.03	12.63	29.05	0
6/6/21 17:10	6.503	117.6	12.91	12.35	29.05	0
6/6/21 17:21	8.62	118.7	11.46	11.99	29.05	0.01
6/6/21 17:33	7.502	138.1	10.58	11.89	29.05	0.01
6/6/21 17:53	7.374	142.9	12.41	11.91	29.03	0
6/6/21 18:14	8.68	203.2	17.89	12.03	29.03	0.03
6/6/21 18:15	11.96	197.6	11.42	11.51	29.03	0.03
6/6/21 18:31	8.74	178.1	13.07	11.11	29.03	0
6/6/21 18:46	5.159	132.7	29.14	10.85	29.05	0.02
6/6/21 19:05	6.869	127.5	10.3	10.85	29.05	0
6/6/21 19:16	7.04	127.6	6.267	10.61	29.05	0
6/6/21 19:30	6.762	123.6	9.77	10.38	29.05	0
6/6/21 19:58	6.922	114.1	9.17	10.07	29.04	0
6/6/21 20:12	7.423	111.9	9.74	9.84	29.04	0
6/6/21 20:27	7.136	112.4	10.29	9.74	29.04	0
6/6/21 20:35	7.884	113.5	9.11	9.69	29.04	0
6/6/21 20:56	8.23	114.4	9.99	9.69	29.03	0
6/6/21 21:07	8.13	119	10.62	9.83	29.03	0.01
6/6/21 21:17	8.44	109.8	9.54	9.87	29.03	0.01
6/6/21 21:34	5.396	149.4	22.77	9.71	29.03	0.05
6/6/21 21:59	3.58	151.9	29.54	9.93	29.03	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
6/6/21 22:14	5.615	223.7	13.99	10.01	29.03	0.05
6/6/21 22:17	6.006	99.2	66	9.34	29.03	0.06
6/6/21 22:44	2.967	83	24.39	9.06	29.03	0
6/6/21 22:45	4.308	119.2	14.4	9.21	29.03	0
6/6/21 23:10	4.682	181.1	28.4	9.31	29.03	0.02
6/6/21 23:24	7.832	243	28.39	8.96	29.03	0.03
6/6/21 23:30	7.863	288	20.75	7.662	29.03	0.02
6/6/21 23:46	4.058	24.41	37.01	7.314	29.04	0
6/7/21 0:13	4.89	61.8	8.89	7.255	29.04	0
6/7/21 0:16	4.762	79.25	5.613	7.342	29.04	0
6/7/21 0:44	5.005	91	9.92	7.648	29.04	0
6/7/21 0:54	6.517	104.9	11.79	8.13	29.05	0.01
6/7/21 1:04	7.45	105.5	12.89	8.21	29.05	0.02
6/7/21 1:17	6.289	101.3	16.01	8.36	29.05	0.02
6/7/21 1:35	2.992	117.2	22.71	8.3	29.05	0.02
6/7/21 1:45	3.366	90.7	14.47	8.19	29.05	0
6/7/21 2:11	5.62	101.6	22.43	8.11	29.05	0.02
6/7/21 2:20	6.893	134.7	9.96	8.32	29.05	0.01
6/7/21 2:35	8.49	128.1	9.51	8.34	29.05	0
6/7/21 2:47	8.37	125.7	7.461	8.32	29.05	0
6/7/21 3:08	9.77	131.3	8.39	8.37	29.05	0
6/7/21 3:28	9.15	134.2	9.56	8.37	29.05	0
6/7/21 3:43	10.8	144.4	8.41	8.51	29.05	0.01
6/7/21 3:45	10.03	158	8.67	8.61	29.07	0.01
6/7/21 4:04	11.61	162.1	8.49	8.57	29.07	0.03
6/7/21 4:29	12.42	168.5	9.6	8.48	29.07	0.04
6/7/21 4:30	10.88	190.6	13.19	8.53	29.07	0.02
6/7/21 4:57	9.63	210.1	18.33	8.53	29.11	0
6/7/21 5:13	10.99	221.9	12.26	8.51	29.11	0
6/7/21 5:18	11.22	221.1	12.29	8.49	29.11	0
6/7/21 5:31	9.31	221.6	12.44	8.46	29.11	0
6/7/21 5:52	7.352	216.7	12.98	8.43	29.14	0.02
6/7/21 6:14	5.838	194.2	22.04	8.33	29.14	0.02
6/7/21 6:16	9.43	175	8.74	8.38	29.14	0
6/7/21 6:31	8.6	173.2	8.53	8.62	29.14	0
6/7/21 6:56	9.49	173.5	11	9.09	29.15	0
6/7/21 7:10	8.91	178.4	13.71	9.79	29.15	0
6/7/21 7:27	7.501	189.7	15.87	9.8	29.15	0
6/7/21 7:32	6.379	188.9	14.75	9.82	29.15	0
6/7/21 7:56	6.639	180.7	16.69	9.84	29.17	0
6/7/21 8:10	8.33	168.6	12.24	10.19	29.17	0
6/7/21 8:16	8.75	172.3	12.75	10.14	29.17	0
6/7/21 8:35	4.529	141.5	22.84	10.75	29.17	0
6/7/21 8:59	5.098	172.1	16.32	10.96	29.15	0
6/7/21 9:07	8.48	192.3	17.41	10.19	29.15	0.03
6/7/21 9:29	4.65	131.9	29.03	10.84	29.15	0.01
6/7/21 9:44	4.061	84	31.16	11.85	29.15	0
6/7/21 9:56	4.938	356.4	72.52	11.13	29.16	0
6/7/21 10:00	5.855	289.5	16.04	10.17	29.16	0
6/7/21 10:15	5.414	321.9	11.01	9.83	29.16	0
6/7/21 10:31	3.99	19.72	23.84	10.15	29.16	0
6/7/21 10:59	4.546	42.87	9.22	10.62	29.16	0
6/7/21 11:04	4.978	23.51	7.323	10.91	29.16	0
6/7/21 11:16	3.295	21.18	12	11.17	29.16	0
6/7/21 11:32	3.239	44.51	16.53	11.63	29.16	0
6/7/21 11:48	3.459	44.08	16.91	12.24	29.16	0
6/7/21 12:11	3.026	72.41	23.44	12.85	29.16	0
6/7/21 12:21	3.314	64.51	14.86	13.39	29.16	0
6/7/21 12:41	4.165	94.9	16.86	13.51	29.16	0
6/7/21 12:53	3.128	66.9	24.71	14.55	29.14	0
6/7/21 13:06	2.58	2.624	74.23	14.87	29.14	0
6/7/21 13:27	3.488	194.7	71.57	15.43	29.14	0
6/7/21 13:34	2.605	220.2	67.58	15.81	29.14	0
6/7/21 13:49	4.119	253.2	45.13	16.59	29.13	0
6/7/21 14:00	4.976	220.3	32.24	16.52	29.13	0
6/7/21 14:18	4.004	277.6	39.26	16.73	29.13	0
6/7/21 14:40	4.718	236.4	32.57	17.23	29.13	0
6/7/21 14:51	4.41	222	45.2	16.89	29.12	0
6/7/21 15:00	2.43	166.5	76.73	17.29	29.12	0
6/7/21 15:22	3.995	264.5	47.23	17.05	29.12	0
6/7/21 15:43	2.339	309.1	73.15	16.96	29.12	0
6/7/21 15:47	5.865	286	20.78	17.46	29.12	0
6/7/21 16:00	3.778	295.7	20.7	17.77	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
6/7/21 16:26	2.868	307.2	48.22	18.15	29.12	0
6/7/21 16:39	4.027	262.9	45.16	18.23	29.12	0
6/7/21 16:52	4.103	301	30.69	17.97	29.1	0
6/7/21 17:05	5.002	273.4	26.44	17.78	29.1	0
6/7/21 17:26	4.709	265.4	17.67	17.43	29.1	0
6/7/21 17:35	7.138	253.2	9.6	16.96	29.1	0
6/7/21 17:46	5.409	252.4	10.07	16.68	29.11	0
6/7/21 18:00	4.496	258.7	10.89	16.57	29.11	0
6/7/21 18:17	4.117	267.5	5.605	16.44	29.11	0
6/7/21 18:38	3.613	268.1	6.624	16.33	29.11	0
6/7/21 18:45	3.118	301.4	9.14	16.25	29.1	0
6/7/21 19:14	2.852	282.1	9.94	16.04	29.1	0
6/7/21 19:15	3.001	282.4	5.541	16.07	29.1	0
6/7/21 19:37	3.513	306	5.95	15.45	29.1	0
6/7/21 19:48	3.033	299.6	4.49	15.16	29.1	0
6/7/21 20:14	3.721	302.9	6.751	14.83	29.1	0
6/7/21 20:29	3.389	347.3	19.26	13.67	29.1	0
6/7/21 20:31	3.278	15.62	6.736	12.89	29.1	0
6/7/21 20:51	3.035	10.54	4.143	12.34	29.11	0
6/7/21 21:01	0.647	349.9	8.11	13.09	29.11	0
6/7/21 21:22	1.321	1.443	16.12	12.91	29.11	0
6/7/21 21:37	2.009	13.93	17.36	12.77	29.11	0
6/7/21 21:48	0.519	12.98	4.015	12.95	29.12	0
6/7/21 22:14	2.088	231.1	26.89	13.35	29.12	0
6/7/21 22:25	2.776	60.62	82.7	12.18	29.12	0
6/7/21 22:35	2.927	111.4	14.68	11.35	29.12	0
6/7/21 22:57	4.267	115.5	7.507	11.97	29.11	0
6/7/21 23:04	2.016	103.8	18.98	11.94	29.11	0
6/7/21 23:29	2.87	123	11.11	11.73	29.11	0
6/7/21 23:33	4.473	114.6	9.15	11.57	29.11	0
6/7/21 23:45	3.161	79.29	25.27	11.06	29.13	0
6/8/21 0:02	3.014	79.46	15.16	10.59	29.13	0
6/8/21 0:20	3.48	105.4	4.693	10.68	29.13	0
6/8/21 0:34	1.917	85.7	11.17	10.91	29.13	0
6/8/21 0:51	0.786	60.42	11.16	10.73	29.11	0
6/8/21 1:14	0.265	52.06	0.542	10.65	29.11	0
6/8/21 1:15	1.546	61.03	2.273	10.28	29.11	0
6/8/21 1:37	2.285	65.6	9.61	10.17	29.11	0
6/8/21 1:56	1.941	70.83	6.868	9.68	29.11	0
6/8/21 2:06	2.179	67.54	6.676	9.79	29.11	0
6/8/21 2:19	1.078	79.31	3.857	9.83	29.11	0
6/8/21 2:43	1.597	69.37	18.74	9.76	29.11	0
6/8/21 2:52	3.082	44.14	4.163	9.13	29.12	0
6/8/21 3:02	2.178	56.6	8.1	8.99	29.12	0
6/8/21 3:15	1.088	71.21	36.18	8.8	29.12	0
6/8/21 3:40	1.645	53.34	20.7	9.15	29.12	0
6/8/21 3:45	2.022	38.78	5.697	8.98	29.14	0
6/8/21 4:11	1.199	54.33	6.644	8.94	29.14	0
6/8/21 4:22	1.606	109.2	27.81	9.36	29.14	0
6/8/21 4:34	1.942	132.8	15.78	9.5	29.14	0
6/8/21 4:49	2.474	120.6	9.71	9.53	29.13	0
6/8/21 5:04	2.208	121.3	12.24	9.87	29.13	0
6/8/21 5:15	1.725	106.3	14.08	9.69	29.13	0
6/8/21 5:31	2.084	125.3	7.05	9.48	29.13	0
6/8/21 5:48	2.983	140.3	12.21	9.52	29.14	0
6/8/21 6:05	2.991	143.7	14.32	9.78	29.14	0
6/8/21 6:19	2.351	127.4	10.39	10.11	29.14	0
6/8/21 6:40	2.027	103.2	14.82	11.2	29.14	0
6/8/21 6:51	3.641	112.3	10.56	11.87	29.15	0
6/8/21 7:00	2.338	125.2	27.86	11.98	29.15	0
6/8/21 7:21	2.627	108	24.66	13.34	29.15	0
6/8/21 7:35	3.078	190.3	32.42	12.85	29.15	0
6/8/21 7:55	2.847	203.2	22.53	12.81	29.15	0
6/8/21 8:01	4.109	204.4	16.33	13.16	29.15	0
6/8/21 8:26	4.389	184.9	21.1	13.72	29.15	0
6/8/21 8:34	3.232	185.6	34.38	14.28	29.15	0
6/8/21 8:46	3.348	207.6	34.19	14.05	29.16	0
6/8/21 9:01	2.932	192.3	31.15	14.1	29.16	0
6/8/21 9:15	1.669	304.3	80.9	14.49	29.16	0
6/8/21 9:34	2.277	37.27	21.46	14.56	29.16	0
6/8/21 9:57	1.506	322.5	72.92	15.14	29.15	0
6/8/21 10:03	2.186	28.1	34.97	15.86	29.15	0
6/8/21 10:22	3.132	281.1	22.92	16.41	29.15	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
6/8/21 10:37	3.001	348.6	19.69	17.14	29.15	0
6/8/21 10:55	2.707	252	53.45	18.39	29.16	0
6/8/21 11:06	6.491	258.6	15.83	17.74	29.16	0
6/8/21 11:15	5.248	290	18.97	17.68	29.16	0
6/8/21 11:40	6.005	315.4	22.57	17.57	29.16	0
6/8/21 11:48	5.591	307.8	20.85	17.92	29.14	0
6/8/21 12:01	4.607	289.6	38.01	18.72	29.14	0
6/8/21 12:15	5.529	354.9	37.14	19.06	29.14	0
6/8/21 12:30	6.249	1.024	36.11	19.25	29.14	0
6/8/21 12:47	6.298	354.4	29.51	18.75	29.14	0
6/8/21 13:08	5.253	336.4	41.31	19.05	29.14	0
6/8/21 13:22	5.299	270	40.18	19.45	29.14	0
6/8/21 13:30	5.861	303.5	19.42	19.75	29.14	0
6/8/21 13:53	6.245	312.2	15.48	19.26	29.15	0
6/8/21 14:13	3.832	311.4	25.41	19.43	29.15	0
6/8/21 14:19	4.2	308	41.57	19.63	29.15	0
6/8/21 14:42	5.032	319.9	17.57	19.25	29.15	0
6/8/21 14:53	2.443	305.9	25.73	19.18	29.16	0
6/8/21 15:03	1.454	302.7	18.02	19.44	29.16	0
6/8/21 15:17	1.837	252.8	55.98	19.9	29.16	0
6/8/21 15:44	4.522	185.1	16.35	19.46	29.16	0
6/8/21 15:52	3.646	224.9	18.67	19.32	29.16	0
6/8/21 16:09	4.861	195.9	16.71	19.1	29.16	0
6/8/21 16:29	7.905	168.7	8.57	18.38	29.16	0
6/8/21 16:32	13.16	155.2	6.533	16.81	29.16	0
6/8/21 16:53	10.54	144	7.723	16.43	29.19	0
6/8/21 17:01	9.87	138.1	8.94	15.73	29.19	0
6/8/21 17:21	7.963	144	8.04	15.45	29.19	0
6/8/21 17:30	5.975	137.8	7.445	15.12	29.19	0
6/8/21 17:53	6.266	168.5	14.34	15.15	29.2	0
6/8/21 18:13	6.78	167.7	13.41	15.2	29.2	0
6/8/21 18:22	9.27	201	10.32	15.4	29.2	0
6/8/21 18:33	7.081	210.8	11.35	15.18	29.2	0
6/8/21 18:57	5.361	172.2	11.82	14.81	29.23	0
6/8/21 19:10	6	141.1	11.64	14.5	29.23	0
6/8/21 19:29	6.89	130.8	10.23	13.93	29.23	0
6/8/21 19:30	6.596	127.8	9.66	13.51	29.23	0
6/8/21 19:49	7.04	142.4	8.3	13.05	29.25	0
6/8/21 20:03	6.822	134.3	8.59	12.81	29.25	0
6/8/21 20:15	5.574	125.3	6.705	12.76	29.25	0
6/8/21 20:35	4.686	137.2	10.84	12.64	29.25	0
6/8/21 20:47	3.195	135.1	8.31	12.45	29.26	0
6/8/21 21:12	3.723	128.1	7.082	12.3	29.26	0
6/8/21 21:22	4.175	113.6	7.05	12.38	29.26	0
6/8/21 21:36	3.873	112.7	10.57	12.44	29.26	0
6/8/21 21:48	4.451	133	12.28	12.39	29.28	0
6/8/21 22:05	4.085	163.7	12.25	12.5	29.28	0
6/8/21 22:17	4.076	165.9	14.51	12.66	29.28	0
6/8/21 22:33	3.843	160.3	14.79	12.54	29.28	0
6/8/21 22:59	3.624	163	29.32	12.27	29.26	0
6/8/21 23:00	4.031	202.6	23.24	12.06	29.26	0
6/8/21 23:17	5.177	189.4	14.47	11.61	29.26	0
6/8/21 23:31	3.652	161.6	9.19	11.42	29.26	0
6/8/21 23:58	3.145	124.1	18.59	10.99	29.28	0
6/9/21 0:13	3.334	102.4	10.91	10.73	29.28	0
6/9/21 0:29	4.852	114	7.228	10.82	29.28	0
6/9/21 0:35	5.294	126.8	8.38	10.91	29.28	0
6/9/21 0:52	5.408	125.7	9.44	10.88	29.3	0
6/9/21 1:14	4.791	116.3	11.47	10.92	29.3	0
6/9/21 1:17	5.458	123.1	8.81	10.96	29.3	0
6/9/21 1:42	6.278	137.3	7.519	11.13	29.3	0
6/9/21 1:54	5.366	149.3	7.366	11.22	29.3	0
6/9/21 2:00	4.627	132.1	6.769	11.13	29.3	0
6/9/21 2:22	4.813	142.8	11.85	10.96	29.3	0
6/9/21 2:34	4.643	153.1	8.02	10.78	29.3	0
6/9/21 2:56	4.114	129.7	7.056	10.15	29.28	0
6/9/21 3:11	3.133	142.6	11.2	10.24	29.28	0
6/9/21 3:28	4.432	142.2	3.766	10.03	29.28	0
6/9/21 3:35	4.865	155.4	7.615	10.26	29.28	0
6/9/21 3:52	5.428	163.6	7.054	10.5	29.29	0
6/9/21 4:05	5.904	168.6	5.059	10.44	29.29	0
6/9/21 4:16	3.266	145.1	25.45	10.23	29.29	0
6/9/21 4:43	2.328	94	15.92	9.97	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
6/9/21 4:57	2.849	112.1	8.62	9.81	29.3	0
6/9/21 5:11	3.049	115.2	9.88	9.76	29.3	0
6/9/21 5:23	4.332	108.9	7.705	10.4	29.3	0
6/9/21 5:42	4.592	119.9	6.763	10.41	29.3	0
6/9/21 5:51	4.381	119.2	11.21	11.72	29.31	0
6/9/21 6:06	4.309	134.6	8.37	11.71	29.31	0
6/9/21 6:28	4.115	123	7.974	11.31	29.31	0
6/9/21 6:42	5.19	131	5.988	12.49	29.31	0
6/9/21 6:51	5.134	167.3	26.84	12.93	29.31	0
6/9/21 7:01	4.798	171.6	10.71	12.96	29.31	0
6/9/21 7:29	4.875	151.3	20.98	13.79	29.31	0
6/9/21 7:30	4.729	154.5	24.96	14.18	29.31	0
6/9/21 7:55	4.076	142.5	33.72	14.96	29.32	0
6/9/21 8:09	5.558	140.4	16.66	14.33	29.32	0
6/9/21 8:21	5.612	166.3	12.81	14.43	29.32	0
6/9/21 8:39	4.949	175.8	16.68	14.18	29.32	0
6/9/21 8:55	5.098	171.3	16.12	15.18	29.32	0
6/9/21 9:10	3.271	175.1	35.72	15.3	29.32	0
6/9/21 9:17	5.281	206.2	33.02	16.01	29.32	0
6/9/21 9:31	6.138	214	17.33	16.14	29.32	0
6/9/21 9:50	5.856	193	21.79	16.34	29.32	0
6/9/21 10:14	5.66	194.4	26	15.95	29.32	0
6/9/21 10:18	6.019	168.4	22.31	16.58	29.32	0
6/9/21 10:43	4.429	181.9	39.34	17.1	29.32	0
6/9/21 10:50	6.252	138.5	18.88	17.64	29.3	0
6/9/21 11:05	5.246	206.6	31.84	18.35	29.3	0
6/9/21 11:23	5.465	214.7	32.15	17.93	29.3	0
6/9/21 11:30	5.409	191.9	32.73	18.3	29.3	0
6/9/21 11:57	7.122	262.6	19.96	18.46	29.31	0
6/9/21 12:03	4.763	263	24.25	18.79	29.31	0
6/9/21 12:23	5.697	275.1	24.29	18.57	29.31	0
6/9/21 12:44	4.708	188.1	22.67	18.56	29.31	0
6/9/21 12:59	3.775	234.5	58.04	19.54	29.3	0
6/9/21 13:08	6.206	163.9	48.24	19.6	29.3	0
6/9/21 13:22	4.924	178	43.26	19.72	29.3	0
6/9/21 13:43	4.182	243.8	50.56	20.26	29.3	0
6/9/21 13:59	6.81	172.1	19.96	20.56	29.28	0
6/9/21 14:05	9.21	200	12.24	20.29	29.28	0
6/9/21 14:29	4.594	217	60.28	20.42	29.28	0
6/9/21 14:31	7.355	270.8	22.56	20.35	29.28	0
6/9/21 14:50	6.787	277.2	18.49	20.7	29.26	0
6/9/21 15:13	6.537	256.3	15.72	20.33	29.26	0
6/9/21 15:24	5.313	271.1	21.73	20.95	29.26	0
6/9/21 15:43	3.865	285.1	43.57	20.54	29.26	0
6/9/21 15:50	4.305	250	32.42	20.81	29.27	0
6/9/21 16:09	6.252	264.4	39.7	21.68	29.27	0
6/9/21 16:24	9.91	257.8	19.86	21.35	29.27	0
6/9/21 16:36	8.01	257.9	31.63	21.71	29.27	0
6/9/21 16:57	8.14	251.2	18.44	21.07	29.25	0
6/9/21 17:09	9.24	257.2	11.52	21.03	29.25	0
6/9/21 17:16	8.2	263.5	11.88	20.56	29.25	0
6/9/21 17:41	10.43	265.9	9.57	19.71	29.25	0
6/9/21 17:56	12.2	282.1	8.37	19.75	29.25	0
6/9/21 18:10	10.56	287.7	11.73	19.44	29.25	0
6/9/21 18:24	10.88	279.1	12.21	19.29	29.25	0
6/9/21 18:30	11.14	253.3	9.25	18.89	29.25	0
6/9/21 18:58	9.09	256.5	11.32	18.72	29.29	0
6/9/21 19:04	8.85	242.4	9.17	18.22	29.29	0
6/9/21 19:20	8.97	243.9	7.7	17.73	29.29	0
6/9/21 19:34	8.11	244.1	8	17.36	29.29	0
6/9/21 19:53	7.559	240.3	9.18	16.88	29.29	0
6/9/21 20:08	6.246	230.3	10.93	16.34	29.29	0
6/9/21 20:20	5.041	222.3	11.52	15.89	29.29	0
6/9/21 20:39	3.997	231.3	10.27	15.55	29.29	0
6/9/21 20:51	4.331	228.8	9.14	15.43	29.27	0
6/9/21 21:04	4.356	249.7	14.15	15.09	29.27	0
6/9/21 21:23	4.752	258.5	8.18	14.84	29.27	0
6/9/21 21:30	3.325	274.7	30.01	14.95	29.27	0
6/9/21 21:49	2.546	1.694	10.2	14.02	29.27	0
6/9/21 22:14	3.618	39.35	10.52	13.49	29.27	0
6/9/21 22:16	3.239	20.59	21.1	13.43	29.27	0
6/9/21 22:44	5.449	8.54	12.66	12.8	29.27	0
6/9/21 22:53	6.498	2.679	9.03	12.98	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
6/9/21 23:10	5.007	11.73	9.96	12.92	29.27	0
6/9/21 23:28	5.262	11.36	13.58	12.88	29.27	0
6/9/21 23:33	5.956	18.44	13.52	12.81	29.27	0
6/9/21 23:49	5.138	27.05	16.61	12.66	29.28	0
6/10/21 0:04	4.285	42.45	14.79	12.81	29.28	0
6/10/21 0:19	6.574	23.69	9.82	12.84	29.28	0
6/10/21 0:44	4.991	28.1	15.83	12.72	29.28	0
6/10/21 0:46	5.755	15.16	9.32	12.68	29.29	0
6/10/21 1:02	5.717	30.47	15.31	12.69	29.29	0
6/10/21 1:17	5.392	29.88	9.71	12.56	29.29	0
6/10/21 1:36	2.629	32.3	7.706	12.62	29.29	0
6/10/21 1:55	3.21	68.67	28.91	12.72	29.29	0
6/10/21 2:13	4.126	130.1	16.39	12.52	29.29	0
6/10/21 2:28	3.991	167	7.956	12.04	29.29	0
6/10/21 2:31	4.488	190.4	16.9	11.64	29.29	0
6/10/21 2:57	3.299	148.2	25.64	11.21	29.32	0
6/10/21 3:14	3.012	105	7.995	10.97	29.32	0
6/10/21 3:15	3.262	108.7	8.07	10.99	29.32	0
6/10/21 3:34	2.352	120.9	17.06	11.03	29.32	0
6/10/21 3:50	4.287	170.3	13.67	11.25	29.31	0
6/10/21 4:13	5.33	183.2	7.213	11.37	29.31	0
6/10/21 4:19	5.842	183.3	7.213	11.18	29.31	0
6/10/21 4:33	6.051	173.9	7.155	10.92	29.31	0
6/10/21 4:47	7.365	182.1	9.17	10.86	29.32	0
6/10/21 5:09	7.456	187.4	6.06	10.87	29.32	0
6/10/21 5:28	6.665	174.7	8.61	10.82	29.32	0
6/10/21 5:43	4.754	134.3	7.875	10.72	29.32	0
6/10/21 5:48	5.839	135.6	9.68	10.77	29.35	0
6/10/21 6:04	6.198	133.6	10.72	10.59	29.35	0
6/10/21 6:27	5.721	133.7	10.46	11.29	29.35	0
6/10/21 6:39	6.514	120.2	8.98	11.89	29.35	0
6/10/21 6:47	5.549	130.9	13.25	11.71	29.32	0
6/10/21 7:09	6.738	121.8	9.92	11.89	29.32	0
6/10/21 7:27	6.549	136.5	13.32	12.31	29.32	0
6/10/21 7:42	6.619	139.8	12.61	12.4	29.32	0
6/10/21 7:50	7.451	165.7	15.9	12.76	29.34	0
6/10/21 8:12	5.622	165.7	16.92	13.11	29.34	0
6/10/21 8:25	8	149.1	13.22	13.52	29.34	0
6/10/21 8:42	9.16	166.9	15.18	14.09	29.34	0
6/10/21 8:49	7.912	188	20	13.87	29.33	0
6/10/21 9:02	8.06	173.2	13.69	14.13	29.33	0
6/10/21 9:15	6.93	163.6	12.89	14.23	29.33	0
6/10/21 9:44	6.45	184.5	28.95	14.62	29.33	0
6/10/21 9:56	7.686	187.1	19.41	15.34	29.35	0
6/10/21 10:03	7.782	186.9	19.02	15.22	29.35	0
6/10/21 10:18	8.4	195.7	20.39	15.33	29.35	0
6/10/21 10:31	8.67	195	13.82	15.5	29.35	0
6/10/21 10:58	6.675	214.5	31.68	16.37	29.34	0
6/10/21 11:13	9.07	200	12.99	15.95	29.34	0
6/10/21 11:20	9.55	194.3	18.5	16.1	29.34	0
6/10/21 11:36	7.946	154.9	26.72	16.74	29.34	0
6/10/21 11:47	6.515	133.4	20.51	17.45	29.33	0
6/10/21 12:02	6.015	188.6	20.73	16.95	29.33	0
6/10/21 12:26	5.679	157.1	23.03	16.75	29.33	0
6/10/21 12:44	7.028	216.1	25.22	17.28	29.33	0
6/10/21 12:45	7	213.8	27.66	17.28	29.35	0
6/10/21 13:14	7.82	220.4	18.78	17.51	29.35	0
6/10/21 13:20	9.81	209.3	15.99	17.69	29.35	0
6/10/21 13:43	7.132	206.3	32.79	18	29.35	0
6/10/21 13:46	7.228	204.9	24.73	17.72	29.33	0
6/10/21 14:13	8.5	215.6	17.71	17.58	29.33	0
6/10/21 14:20	11.12	196.1	15	17.22	29.33	0
6/10/21 14:31	8.48	179	11.81	17.06	29.33	0
6/10/21 14:59	6.606	185.6	20.22	18.15	29.32	0
6/10/21 15:07	7.725	219.1	28.31	18.49	29.32	0
6/10/21 15:22	7.854	175.5	12.16	17.67	29.32	0
6/10/21 15:30	5.989	165.4	17.78	17.95	29.32	0
6/10/21 15:59	4.311	162.4	48.79	18.25	29.33	0
6/10/21 16:02	10.77	241.9	9.52	18.62	29.33	0
6/10/21 16:28	5.751	227.9	17.31	18.18	29.33	0
6/10/21 16:42	6.319	228.9	19.52	18.37	29.33	0
6/10/21 16:59	8.25	230.4	15.24	18.39	29.3	0
6/10/21 17:00	5.226	195	23.66	18.23	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
6/10/21 17:25	4.39	253.8	43.28	19.14	29.3	0
6/10/21 17:43	8.36	272	11.36	18.7	29.3	0
6/10/21 17:46	7.257	265.5	11.22	18.18	29.31	0
6/10/21 18:01	6.774	272.3	12.57	17.93	29.31	0
6/10/21 18:17	4.007	276.1	11.71	17.84	29.31	0
6/10/21 18:33	3.803	275.3	12.24	18.05	29.31	0
6/10/21 18:45	3.286	266.2	11.12	17.68	29.31	0
6/10/21 19:01	2.617	276.4	8.18	17.34	29.31	0
6/10/21 19:16	1.531	340.2	26.7	17.01	29.31	0
6/10/21 19:40	1.686	13.5	12.75	16.4	29.31	0
6/10/21 19:45	1.113	15.77	9.32	16.3	29.29	0
6/10/21 20:08	1.956	15.57	10.46	15.91	29.29	0
6/10/21 20:29	1.259	23.08	0.501	15.67	29.29	0
6/10/21 20:32	2.299	21.71	3.137	15.15	29.29	0
6/10/21 20:50	2.136	59.8	18.27	14.76	29.29	0
6/10/21 21:13	2.47	93.5	7.677	14.56	29.29	0
6/10/21 21:17	2.665	93.7	12.09	14.27	29.29	0
6/10/21 21:41	1.859	114.1	7.404	14.44	29.29	0
6/10/21 21:49	5.085	117	7.61	14.15	29.28	0
6/10/21 22:06	6.147	110.6	6.185	14.2	29.28	0
6/10/21 22:15	5.115	101.3	11.33	14.47	29.28	0
6/10/21 22:31	4.478	92.5	5.978	14.26	29.28	0
6/10/21 22:45	3.477	122.3	7.897	14.41	29.26	0
6/10/21 23:04	3.446	160.3	9.98	14.03	29.26	0
6/10/21 23:17	2.72	164	14.59	13.98	29.26	0
6/10/21 23:42	3.078	136.2	14.25	13.59	29.26	0
6/10/21 23:55	3.388	93.8	15.79	13.36	29.24	0
6/11/21 0:13	4.802	107.4	6.272	13.24	29.24	0
6/11/21 0:25	6.31	102	8	13.28	29.24	0
6/11/21 0:33	6.234	88.5	6.625	13.19	29.24	0
6/11/21 0:51	6.613	94.6	5.684	13.18	29.18	0
6/11/21 1:02	7.2	104.6	11.85	13.6	29.18	0
6/11/21 1:29	7.315	133.1	8.26	14.14	29.18	0
6/11/21 1:43	5.332	115.5	15.78	14.36	29.18	0
6/11/21 1:51	7.804	112.5	16.88	14.67	29.15	0
6/11/21 2:02	7.813	97	12.63	14.54	29.15	0
6/11/21 2:21	9.27	113.5	12.56	15.11	29.15	0
6/11/21 2:39	11.47	118.9	11.42	15.61	29.15	0
6/11/21 2:45	10.7	120.8	10.36	15.37	29.12	0
6/11/21 3:00	7.23	111.8	16.15	15.12	29.12	0
6/11/21 3:17	4.278	110.8	14.78	14.86	29.12	0
6/11/21 3:35	3.234	79.5	44.43	14.86	29.12	0
6/11/21 3:46	2.865	49.1	26.87	14.81	29.11	0
6/11/21 4:09	4.01	83.6	38.45	13.85	29.11	0
6/11/21 4:20	6.467	155.6	12.03	14.52	29.11	0
6/11/21 4:33	4.782	160.9	14.4	14.37	29.11	0
6/11/21 4:57	5.646	172.6	12.1	14.29	29.11	0
6/11/21 5:13	8.54	173.4	12.37	14.21	29.11	0
6/11/21 5:17	7.826	167	11.44	14.43	29.11	0
6/11/21 5:44	6.127	180.5	8.08	14.4	29.11	0
6/11/21 5:47	5.543	176	14.85	14.87	29.12	0
6/11/21 6:08	4.203	156.8	9.32	14.91	29.12	0
6/11/21 6:22	4.136	141.9	19.32	14.94	29.12	0
6/11/21 6:41	2.55	83.9	21.17	14.59	29.12	0
6/11/21 6:53	2.872	115.1	19.86	14.98	29.12	0
6/11/21 7:09	3.521	146.6	37.48	15.85	29.12	0
6/11/21 7:21	5.146	184.4	13.52	15.73	29.12	0
6/11/21 7:30	3.719	186.2	36.34	15.74	29.12	0
6/11/21 7:58	2.021	92.8	38.33	16.27	29.13	0
6/11/21 8:11	2.838	135	20.82	16.33	29.13	0
6/11/21 8:26	4.078	153.4	20.13	16.4	29.13	0
6/11/21 8:41	4.726	139.4	22.8	16.38	29.13	0
6/11/21 8:48	6.439	153.9	20.18	16.09	29.13	0
6/11/21 9:02	7.331	188.6	10.41	16.05	29.13	0
6/11/21 9:29	6.522	217.6	14.96	16	29.13	0
6/11/21 9:31	5.008	232.3	15.61	15.55	29.13	0
6/11/21 9:49	4.447	276.2	13.5	15.38	29.12	0
6/11/21 10:03	2.86	287.9	36.01	15.27	29.12	0.01
6/11/21 10:27	4.855	246.3	28.98	15.15	29.12	0
6/11/21 10:32	5.171	229.3	28.32	14.65	29.12	0
6/11/21 10:51	3.287	349.5	23.75	14.26	29.1	0
6/11/21 11:14	3.477	278.4	25.23	14.17	29.1	0.01
6/11/21 11:15	4.485	272.8	18.67	13.64	29.1	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
6/11/21 11:43	5.345	323.4	10.87	13.34	29.1	0.01
6/11/21 11:57	6.668	328.9	4.509	13.34	29.09	0.01
6/11/21 12:11	7.136	350	14.14	13.35	29.09	0
6/11/21 12:15	3.566	356.3	29.47	13.51	29.09	0
6/11/21 12:37	2.944	351.7	47.36	13.6	29.09	0
6/11/21 12:57	5.288	7.976	14.16	13.49	29.1	0.01
6/11/21 13:13	5.88	20.16	8.52	13.4	29.1	0.01
6/11/21 13:17	4.076	23.48	14.03	13.51	29.1	0
6/11/21 13:43	2.923	22.64	9.97	13.69	29.1	0
6/11/21 13:56	3.816	25.55	9.78	13.49	29.11	0.01
6/11/21 14:12	2.886	15.94	14.57	13.51	29.11	0.01
6/11/21 14:25	4.313	23.01	11.27	13.59	29.11	0
6/11/21 14:41	4.703	30.67	9.32	13.72	29.11	0.01
6/11/21 14:48	3.054	21.02	17.16	13.68	29.11	0
6/11/21 15:12	3.658	24.37	11.7	13.96	29.11	0.02
6/11/21 15:15	1.563	36.87	9.62	14.25	29.11	0.01
6/11/21 15:30	0.752	27.48	18.47	14.56	29.11	0
6/11/21 15:57	1.743	314.6	31.71	15.39	29.1	0
6/11/21 16:04	3.075	250.2	25.93	15.37	29.1	0.01
6/11/21 16:17	3.468	318.1	68.07	15.11	29.1	0
6/11/21 16:30	1.7	43.31	33.56	14.98	29.1	0
6/11/21 16:52	3.13	26.36	5.53	14.8	29.11	0
6/11/21 17:05	3.15	36.4	5.312	14.68	29.11	0
6/11/21 17:22	3.631	31.64	5.99	14.9	29.11	0
6/11/21 17:40	3.729	29.53	6.768	14.93	29.11	0
6/11/21 17:50	4.275	16.87	6.277	14.9	29.12	0
6/11/21 18:11	3.493	17.35	7.238	14.96	29.12	0
6/11/21 18:19	3.678	8.76	11.16	14.94	29.12	0
6/11/21 18:38	3.395	8.64	7.795	14.85	29.12	0
6/11/21 18:52	4.355	22.02	13.52	14.69	29.11	0
6/11/21 19:12	5.511	17.81	8.05	14.55	29.11	0
6/11/21 19:25	4.446	9.83	8.26	14.49	29.11	0
6/11/21 19:32	4.36	14.81	12.04	14.45	29.11	0
6/11/21 19:48	4.079	8.59	8.34	14.36	29.1	0
6/11/21 20:07	4.176	17.61	7.845	14.23	29.1	0
6/11/21 20:18	2.604	4.003	12.05	14.26	29.1	0
6/11/21 20:43	3.366	23.74	21.28	14.05	29.1	0
6/11/21 20:45	3.212	10.66	16.83	14.01	29.11	0
6/11/21 21:00	1.065	358.6	20.17	13.76	29.11	0
6/11/21 21:16	2.435	44.18	4.025	13.69	29.11	0
6/11/21 21:36	2.063	10.98	10.89	13.33	29.11	0
6/11/21 21:51	2.429	36.63	45.01	13.34	29.12	0
6/11/21 22:15	3.275	179	32.86	13.68	29.12	0
6/11/21 22:28	6.354	162.9	16.07	14.03	29.12	0
6/11/21 22:34	8.89	240.2	15.47	14.12	29.12	0
6/11/21 22:45	3.558	287.7	25.24	14.31	29.14	0
6/11/21 23:14	2.286	317.9	33.7	14.23	29.14	0
6/11/21 23:15	1.956	30.34	13.84	13.5	29.14	0
6/11/21 23:31	1.166	20.64	10.67	13.61	29.14	0
6/11/21 23:45	0.931	22.71	10.37	13.82	29.15	0
6/12/21 0:09	1.532	322	43.24	14.19	29.15	0.02
6/12/21 0:18	1.347	343.6	17.24	14.29	29.15	0
6/12/21 0:44	1.864	285.3	34.89	14.59	29.15	0
6/12/21 0:45	2.939	258.2	35.88	14.3	29.16	0
6/12/21 1:02	0.873	18.89	20.52	13.89	29.16	0
6/12/21 1:23	0.735	55.76	22.34	13.92	29.16	0
6/12/21 1:38	2.003	8.54	7.214	13.68	29.16	0.01
6/12/21 1:48	1.541	46.38	25.41	13.64	29.17	0
6/12/21 2:03	0.302	16.38	5.225	13.83	29.17	0
6/12/21 2:29	0.901	313	49.14	14.08	29.17	0
6/12/21 2:43	3.296	140.2	25.86	13.89	29.17	0
6/12/21 2:55	4.532	135.2	10.36	13.65	29.18	0
6/12/21 3:10	3.955	110	8.13	13.44	29.18	0
6/12/21 3:29	4.136	98.5	11.28	13.29	29.18	0
6/12/21 3:32	4.204	95.2	8.92	13.21	29.18	0
6/12/21 3:45	3.919	111.7	6.259	13.31	29.18	0
6/12/21 4:03	3.497	110	6.56	13.44	29.18	0
6/12/21 4:22	3.109	105.5	31.32	13.23	29.18	0.01
6/12/21 4:33	1.928	69.32	27.39	13.09	29.18	0
6/12/21 4:45	1.487	70.9	6.979	13.11	29.18	0
6/12/21 5:09	1.954	119.3	25.56	13.27	29.18	0
6/12/21 5:29	1.844	65.12	18.91	13.08	29.18	0
6/12/21 5:44	2.498	66.72	8.26	12.89	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
6/12/21 5:47	3.334	67.61	9.15	13.5	29.21	0
6/12/21 6:00	2.618	70.75	7.41	14.74	29.21	0
6/12/21 6:24	2.607	59.52	14.78	15.25	29.21	0
6/12/21 6:36	2.77	62.32	13.64	15.38	29.21	0
6/12/21 6:50	2.551	87.3	12.14	16.33	29.2	0
6/12/21 7:07	2.781	75.3	16.53	17.12	29.2	0
6/12/21 7:18	1.266	71.08	22.04	17.83	29.2	0
6/12/21 7:33	2.173	82.4	46.62	18.21	29.2	0
6/12/21 7:48	2.04	134.7	25.06	18.21	29.21	0
6/12/21 8:11	2.204	187.4	60.75	18.69	29.21	0
6/12/21 8:16	1.554	233.6	58.56	18.37	29.21	0
6/12/21 8:32	1.89	39.66	31.98	18.97	29.21	0
6/12/21 8:57	2.751	332.5	18.35	19.49	29.23	0
6/12/21 9:05	3.892	291.5	20.93	19.54	29.23	0
6/12/21 9:28	3.482	291.3	21.15	19.59	29.23	0
6/12/21 9:32	3.744	302.5	34.24	19.86	29.23	0
6/12/21 9:45	1.509	34.77	61.11	20.05	29.22	0
6/12/21 10:12	2.334	7.243	35.42	20.44	29.22	0
6/12/21 10:26	2.539	297.9	55.82	20.55	29.22	0
6/12/21 10:31	3.454	221.9	42.04	20.72	29.22	0
6/12/21 10:50	2.794	208.4	41.5	21.21	29.19	0
6/12/21 11:14	3.127	200.2	29.94	21.6	29.19	0
6/12/21 11:23	3.126	280.9	59.95	21.93	29.19	0
6/12/21 11:35	5.108	313.9	55.54	22.2	29.19	0
6/12/21 11:58	2.586	323.4	47.8	22.82	29.15	0
6/12/21 12:14	2.868	233.4	44.58	23.14	29.15	0
6/12/21 12:16	5.373	314.3	31.79	23.91	29.15	0
6/12/21 12:40	7.198	307.3	26.99	24.05	29.15	0
6/12/21 12:50	4.453	304.5	43.06	24.32	29.14	0
6/12/21 13:10	7.879	276.7	23.4	24.47	29.14	0
6/12/21 13:28	5.89	307.1	22.23	24.63	29.14	0
6/12/21 13:36	8.95	281.1	17.45	24.74	29.14	0
6/12/21 13:49	9.19	277.4	19.48	24.73	29.14	0
6/12/21 14:06	7.764	307	25.36	24.83	29.14	0
6/12/21 14:15	6.217	322.2	21.49	25.23	29.14	0
6/12/21 14:31	4.664	340.3	42.91	25.29	29.14	0
6/12/21 14:49	5.121	276.2	29.25	25.59	29.11	0
6/12/21 15:09	4.1	311.8	66.97	25.46	29.11	0
6/12/21 15:25	4.791	337.6	20.1	25.51	29.11	0
6/12/21 15:43	5.793	0.725	21.3	25.05	29.11	0
6/12/21 15:53	7.32	18.5	12.29	24.01	29.1	0
6/12/21 16:14	7.701	18.48	9.08	23.79	29.1	0
6/12/21 16:24	8.56	15.37	10.2	23.82	29.1	0
6/12/21 16:38	8.25	5.681	12	23.92	29.1	0
6/12/21 16:55	7.719	6.341	11.48	23.87	29.06	0
6/12/21 17:05	8.39	7.734	11.59	23.71	29.06	0
6/12/21 17:29	5.989	5.096	12.36	23.69	29.06	0
6/12/21 17:33	7.555	9.38	11.97	23.47	29.06	0
6/12/21 17:53	8	1.323	11.44	23.59	29.04	0
6/12/21 18:06	10.1	14.57	9.99	23.02	29.04	0
6/12/21 18:26	8.66	5.948	10.97	22.94	29.04	0
6/12/21 18:37	9.32	5.879	14.93	22.81	29.04	0
6/12/21 18:45	8.42	357.6	14.64	22.96	29	0
6/12/21 19:12	8.69	1.875	16.36	22.64	29	0
6/12/21 19:28	9.7	358.3	12.78	22.66	29	0
6/12/21 19:40	8.19	358.7	15.34	22.52	29	0
6/12/21 19:45	5.906	317	28.56	22.68	29	0
6/12/21 20:14	5.738	281	8.07	22.05	29	0
6/12/21 20:26	7.193	270.1	8.77	21.87	29	0
6/12/21 20:40	9.39	268.3	6.691	21.39	29	0
6/12/21 20:46	7.281	276.9	6.284	20.68	29.05	0
6/12/21 21:02	5.673	280.6	4.647	20.15	29.05	0
6/12/21 21:16	1.685	277.3	20.46	19.85	29.05	0
6/12/21 21:43	2.92	89.3	20.36	18.79	29.05	0
6/12/21 21:53	5.953	87.3	16.31	18.15	29.04	0.01
6/12/21 22:03	5.554	109.5	18.18	17.98	29.04	0
6/12/21 22:19	5.547	181.6	18.59	18.21	29.04	0
6/12/21 22:32	4	107.1	46.85	17.85	29.04	0
6/12/21 22:51	5.566	199.5	33.97	17.66	29.04	0
6/12/21 23:01	4.805	210.9	21.35	17.37	29.04	0.01
6/12/21 23:26	3.706	60.15	21.03	16.61	29.04	0
6/12/21 23:36	5.355	85.2	11.59	16.53	29.04	0.02
6/12/21 23:56	6.592	98.9	9.5	16.49	29.07	0.03

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
6/13/21 0:00	6.856	93.9	6.596	16.46	29.07	0.01
6/13/21 0:24	6.99	84.7	6.254	16.39	29.07	0.01
6/13/21 0:32	6.56	108	15.76	16.79	29.07	0
6/13/21 0:53	6.411	93.3	11.66	17.15	29.04	0.01
6/13/21 1:00	5.022	96.7	13.05	17.21	29.04	0.01
6/13/21 1:22	5.138	161.9	28.41	17.01	29.04	0.02
6/13/21 1:35	3.793	88.7	44.51	16.83	29.04	0.02
6/13/21 1:45	4.035	35.37	9.41	16	29.06	0.01
6/13/21 2:06	5.1	54.69	10.67	16.45	29.06	0.02
6/13/21 2:21	4.749	76.95	9.2	16.57	29.06	0.01
6/13/21 2:41	5.364	119	16.71	16.99	29.06	0.01
6/13/21 2:59	5.647	103.1	17.78	16.97	29.03	0.01
6/13/21 3:00	7.32	76.88	8.14	16.48	29.03	0.01
6/13/21 3:19	7.315	88.6	12.54	16.73	29.03	0.01
6/13/21 3:30	6.408	109.2	11.03	17.19	29.03	0.01
6/13/21 3:58	6.826	118.3	10.02	17.57	29.04	0
6/13/21 4:00	6.959	122.4	12.78	17.47	29.04	0
6/13/21 4:24	7.734	132.1	12.88	17.66	29.04	0.01
6/13/21 4:31	6.195	140.6	14.89	17.87	29.04	0
6/13/21 4:52	6.226	134.3	13.44	17.83	29.02	0
6/13/21 5:10	5.546	149.6	25.43	18.23	29.02	0
6/13/21 5:20	13.24	268.2	7.562	17.26	29.02	0
6/13/21 5:33	8.49	275.9	13.16	16.97	29.02	0
6/13/21 5:45	3.233	298.8	14.47	17.11	29.08	0.01
6/13/21 6:10	2.725	270.5	21.85	17.07	29.08	0
6/13/21 6:28	3.532	321.5	21.97	16.96	29.08	0.01
6/13/21 6:37	4.267	334.8	13.54	16.73	29.08	0
6/13/21 6:46	3.913	317.2	6.423	16.74	29.07	0
6/13/21 7:05	4.631	292.2	10.01	16.84	29.07	0
6/13/21 7:19	4.979	283.5	6.03	16.97	29.07	0
6/13/21 7:43	5.451	289	7.113	17.12	29.07	0
6/13/21 7:56	6.451	275	7.428	17.01	29.1	0
6/13/21 8:04	6.297	286.1	8.83	16.88	29.1	0
6/13/21 8:15	4.482	308.7	20.11	16.86	29.1	0
6/13/21 8:32	2.649	8.09	29.43	16.74	29.1	0.01
6/13/21 8:53	2.222	35.69	21.81	16.7	29.1	0
6/13/21 9:14	3.414	43.06	9.41	16.9	29.1	0
6/13/21 9:18	5.563	42.7	10.94	17.1	29.1	0
6/13/21 9:31	4.648	24.55	8.65	17.21	29.1	0.01
6/13/21 9:49	3.137	352.8	28.61	17.75	29.08	0
6/13/21 10:05	2.538	357.1	21.87	18.28	29.08	0
6/13/21 10:15	2.382	322.8	21.27	18.96	29.08	0
6/13/21 10:35	3.867	313.7	15.04	19.47	29.08	0
6/13/21 10:53	4.519	299.7	13.52	19.72	29.07	0
6/13/21 11:14	4.864	298.7	14.41	20.06	29.07	0
6/13/21 11:16	6.07	283.2	8.08	19.87	29.07	0
6/13/21 11:37	3.184	330.5	38.15	20.19	29.07	0
6/13/21 11:50	2.814	350.1	24.5	20.44	29.06	0
6/13/21 12:11	4.197	333.5	23.52	20.6	29.06	0
6/13/21 12:24	4.275	286.9	14.78	20.61	29.06	0
6/13/21 12:44	4.518	276.1	13.57	20.67	29.06	0
6/13/21 12:45	4.778	291.8	10.72	20.86	29.05	0
6/13/21 13:03	4.41	295.7	12.07	20.81	29.05	0
6/13/21 13:28	6.257	268.8	7.418	20.43	29.05	0
6/13/21 13:40	7.977	275.2	6.747	20.12	29.05	0
6/13/21 13:59	8.66	274	6.32	19.7	29.09	0.01
6/13/21 14:01	8.02	276.6	6.952	19.39	29.09	0.03
6/13/21 14:25	7.493	279.4	5.314	19.25	29.09	0.04
6/13/21 14:40	6.602	274.6	7.843	19.03	29.09	0.03
6/13/21 14:53	6.773	280.6	6.55	18.89	29.09	0.03
6/13/21 15:08	7.517	294.4	7.333	18.88	29.09	0.03
6/13/21 15:28	7.65	278.4	10.06	18.7	29.09	0.01
6/13/21 15:30	8.14	277.9	8.93	18.47	29.09	0.03
6/13/21 15:45	5.121	291.4	12.26	18.39	29.11	0.04
6/13/21 16:14	3.011	19.8	17.64	18.08	29.11	0.03
6/13/21 16:26	5.487	26.68	6.233	17.92	29.11	0.02
6/13/21 16:44	2.534	302.6	60.87	18.34	29.11	0.03
6/13/21 16:50	8.72	235.4	11.79	18.32	29.13	0.07
6/13/21 17:00	5.369	293	23.51	18.11	29.13	0.07
6/13/21 17:19	3.414	267.4	17.67	17.97	29.13	0.04
6/13/21 17:31	2.336	254.7	25.21	17.96	29.13	0.02
6/13/21 17:51	2.865	336.6	42.84	17.81	29.13	0.06
6/13/21 18:13	3.563	62.66	14.06	17.54	29.13	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
6/13/21 18:20	2.586	52.35	38.29	17.58	29.13	0.01
6/13/21 18:41	1.355	18.3	5.188	17.48	29.13	0.01
6/13/21 18:58	1.054	12.84	27.31	17.6	29.13	0.01
6/13/21 19:00	0.018	298.5	5.863	17.9	29.13	0
6/13/21 19:21	0.865	347.3	13.64	18.1	29.13	0
6/13/21 19:40	2.455	353.2	4.733	18.09	29.13	0.02
6/13/21 19:55	3.389	91.3	40.15	17.62	29.11	0.01
6/13/21 20:03	5.24	65.26	13.39	17.39	29.11	0
6/13/21 20:17	3.228	147.1	48.97	17.4	29.11	0.01
6/13/21 20:44	5.325	228.5	11.96	17.78	29.11	0.01
6/13/21 20:50	6.783	269.6	15.71	17.74	29.09	0
6/13/21 21:14	6.262	289.2	13.24	17.67	29.09	0
6/13/21 21:17	6.241	266.1	8.36	17.59	29.09	0
6/13/21 21:30	1.523	27.69	48.23	17.29	29.09	0
6/13/21 21:48	3.46	70.76	8.93	17.06	29.12	0
6/13/21 22:10	2.222	244.7	53.98	17.29	29.12	0
6/13/21 22:20	3.688	189.3	16.74	17.32	29.12	0
6/13/21 22:40	3.713	141	13.3	17.11	29.12	0
6/13/21 22:49	5.328	100.9	9.41	17.03	29.15	0
6/13/21 23:13	5.58	115.8	17.87	17.08	29.15	0
6/13/21 23:15	4.637	144	18	17.06	29.15	0.01
6/13/21 23:39	5.551	94.5	13.42	16.94	29.15	0.01
6/13/21 23:52	7.069	107.8	22.13	16.84	29.09	0
6/14/21 0:06	7.737	232.8	31.8	17.16	29.09	0
6/14/21 0:20	6.464	252.2	5.704	17.23	29.09	0
6/14/21 0:30	3.337	273.5	39.21	17.26	29.09	0
6/14/21 0:54	3.229	332.8	19.63	17.08	29.12	0
6/14/21 1:13	5.197	322.6	5.471	17.05	29.12	0
6/14/21 1:21	5.509	299.2	8.5	16.98	29.12	0
6/14/21 1:30	2.074	299.4	3.503	16.9	29.12	0
6/14/21 1:51	2.302	294	5.482	16.91	29.12	0
6/14/21 2:04	2.356	274.9	10.07	16.9	29.12	0
6/14/21 2:24	1.35	131.6	20.63	16.59	29.12	0
6/14/21 2:38	3.323	248.3	14.63	16.88	29.12	0
6/14/21 2:45	3.12	238.6	11.9	16.94	29.15	0
6/14/21 3:04	2.367	245.5	16.07	16.95	29.15	0
6/14/21 3:20	1.939	260.8	5.945	16.92	29.15	0
6/14/21 3:43	1.262	163.5	23.86	16.82	29.15	0
6/14/21 3:59	2.948	194.7	18.43	16.86	29.14	0
6/14/21 4:06	5.076	199.6	11.3	16.76	29.14	0
6/14/21 4:15	4.986	219.9	9.29	16.47	29.14	0
6/14/21 4:32	4.685	249.6	9.23	16.3	29.14	0
6/14/21 4:45	3.257	233	15.74	16.2	29.16	0
6/14/21 5:04	3.75	226.6	7.235	16.05	29.16	0
6/14/21 5:18	2.794	261.1	18.77	16.12	29.16	0
6/14/21 5:43	1.745	224.6	30.79	16.03	29.16	0
6/14/21 5:58	1.756	276	20.74	16.15	29.16	0
6/14/21 6:09	1.701	231	34.68	16.16	29.16	0
6/14/21 6:24	3.278	202.3	11.67	16.17	29.16	0
6/14/21 6:30	2.606	205.8	8.22	16.15	29.16	0
6/14/21 6:57	2.303	244.1	21.33	16.33	29.18	0
6/14/21 7:10	3.232	220.6	16.42	16.55	29.18	0
6/14/21 7:27	2.574	204.2	42.77	16.69	29.18	0
6/14/21 7:36	3.35	264	13.85	16.81	29.18	0
6/14/21 7:51	3.083	280.2	31.37	16.56	29.19	0
6/14/21 8:03	4.014	275.7	17.27	16.32	29.19	0
6/14/21 8:29	1.006	264	24	16.38	29.19	0
6/14/21 8:38	4.555	252.5	8.47	16.27	29.19	0
6/14/21 8:56	4.637	253	7.397	16.32	29.19	0
6/14/21 9:01	5.288	257.5	7.828	16.54	29.19	0.01
6/14/21 9:16	3.502	266.8	14.3	16.69	29.19	0.01
6/14/21 9:36	2.22	295	16.12	16.83	29.19	0.01
6/14/21 9:51	2.447	293.1	9.94	16.9	29.21	0.01
6/14/21 10:09	2.551	257.8	22.36	16.98	29.21	0
6/14/21 10:20	3.038	246.4	22.8	17.04	29.21	0
6/14/21 10:31	2.584	228.2	14.89	17.13	29.21	0.01
6/14/21 10:57	2.734	199.6	28.28	17.27	29.2	0
6/14/21 11:14	4.099	118.9	53.46	17.41	29.2	0
6/14/21 11:15	2.248	72.73	26.71	17.28	29.2	0
6/14/21 11:42	2.751	92.5	18.93	17.88	29.2	0
6/14/21 11:58	2.783	238.2	31.81	18.49	29.2	0
6/14/21 12:13	5.42	233.6	15.61	18.41	29.2	0
6/14/21 12:19	7.419	251.9	11.41	18.38	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
6/14/21 12:31	4.153	278.1	18.12	18.58	29.2	0
6/14/21 12:45	2.279	341.9	40.71	18.43	29.2	0
6/14/21 13:10	4.076	266.1	50.67	18.46	29.2	0
6/14/21 13:23	8.12	255.2	5.29	18.18	29.2	0
6/14/21 13:36	9.26	257	7.827	18.12	29.2	0
6/14/21 13:46	4.819	270	16.31	18.16	29.23	0
6/14/21 14:03	1.323	294	26.18	18.84	29.23	0
6/14/21 14:28	1.105	52.31	15.41	18.78	29.23	0
6/14/21 14:30	1.519	64.25	11.51	18.69	29.23	0
6/14/21 14:57	2.809	185.7	52.17	19.29	29.24	0
6/14/21 15:01	3.575	235.6	21.11	19.56	29.24	0
6/14/21 15:17	2.079	200.4	26.13	19.54	29.24	0
6/14/21 15:39	2.605	198.1	32.32	19.52	29.24	0
6/14/21 15:51	4.203	136.9	14.7	19.3	29.25	0
6/14/21 16:03	3.605	138.9	11.43	19.21	29.25	0
6/14/21 16:29	4.677	113.3	12.94	19.4	29.25	0
6/14/21 16:40	7.097	111.7	8.71	19.2	29.25	0
6/14/21 16:47	6.757	117.5	10.6	19.32	29.24	0
6/14/21 17:13	7.606	122	10.35	19.05	29.24	0
6/14/21 17:15	5.817	123.1	13.88	19.02	29.24	0
6/14/21 17:35	4.764	119.2	11.39	19.23	29.24	0
6/14/21 17:54	4.111	113.4	10.99	19.33	29.22	0
6/14/21 18:04	2.96	132.7	13.5	19.44	29.22	0
6/14/21 18:16	1.689	135.5	7.043	19.45	29.22	0
6/14/21 18:35	2.135	162.4	27.21	19.47	29.22	0
6/14/21 18:51	2.393	158.5	23.85	19.26	29.24	0
6/14/21 19:13	1.998	154.9	36.67	19.04	29.24	0
6/14/21 19:15	2.629	170.4	14.85	18.96	29.24	0
6/14/21 19:31	2.581	172.2	23.45	18.83	29.24	0
6/14/21 19:51	2.63	115.7	18.32	18.46	29.25	0
6/14/21 20:14	0.81	85.7	1.718	18.13	29.25	0
6/14/21 20:28	2.3	124.5	23.06	17.74	29.25	0
6/14/21 20:30	2.12	146.3	16.31	17.84	29.25	0
6/14/21 20:48	1.449	97.7	7.345	17.11	29.25	0
6/14/21 21:09	1.442	159.5	17.12	17.11	29.25	0
6/14/21 21:17	0.794	72.55	23.34	16.77	29.25	0
6/14/21 21:40	1.038	42.09	11.09	16.36	29.25	0
6/14/21 21:58	1.155	20.1	73.3	16.37	29.25	0
6/14/21 22:04	2.078	145.6	23.64	16.84	29.25	0
6/14/21 22:17	3.072	172.8	33.14	16.74	29.25	0
6/14/21 22:40	2.879	137.4	46.56	15.8	29.25	0
6/14/21 22:46	3.264	142.1	15.55	15.98	29.25	0
6/14/21 23:07	3.297	137.3	15.49	15.8	29.25	0
6/14/21 23:21	3.294	160.7	10.3	15.94	29.25	0
6/14/21 23:41	3.608	172.9	8.76	15.99	29.25	0
6/14/21 23:45	2.929	174.1	9.29	15.97	29.24	0
6/15/21 0:00	1.691	156.6	15.7	16.02	29.24	0
6/15/21 0:26	1.97	145.3	11.16	15.83	29.24	0
6/15/21 0:39	2.486	152.2	9.19	15.74	29.24	0
6/15/21 0:45	1.398	151.3	16.74	15.97	29.25	0
6/15/21 1:12	2.96	175.5	17.74	15.66	29.25	0
6/15/21 1:29	2.552	164	13.61	15.36	29.25	0
6/15/21 1:43	3.756	158.6	11.55	15.46	29.25	0
6/15/21 1:51	4.534	181.8	7.263	15.46	29.26	0
6/15/21 2:11	4.075	172.1	9.83	15.19	29.26	0
6/15/21 2:23	4.416	188	10.07	15.09	29.26	0
6/15/21 2:34	4.32	207.3	18.28	15.01	29.26	0
6/15/21 2:55	4.964	214.2	10.61	15.17	29.27	0
6/15/21 3:00	3.211	231.7	10.93	15.13	29.27	0
6/15/21 3:15	1.881	221.9	17.91	15.13	29.27	0
6/15/21 3:38	0.055	199.4	0.238	14.78	29.27	0
6/15/21 3:48	0.094	202.6	0.779	14.76	29.29	0
6/15/21 4:08	0.934	95.7	4.599	14.61	29.29	0
6/15/21 4:24	1.682	110.4	11.76	14.52	29.29	0
6/15/21 4:39	3.368	127	7.918	14.39	29.29	0
6/15/21 4:56	4.143	130.4	5.874	14.33	29.3	0
6/15/21 5:00	2.009	133	10.14	14.41	29.3	0
6/15/21 5:29	3.269	176.4	12.5	14.84	29.3	0
6/15/21 5:31	5.633	167.3	9.71	14.69	29.3	0
6/15/21 5:53	5.398	160	12.58	14.76	29.31	0
6/15/21 6:14	4.188	147	7.843	14.66	29.31	0
6/15/21 6:29	5.264	138.6	5.404	14.87	29.31	0
6/15/21 6:33	5.299	130.1	10.03	15.2	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
6/15/21 6:57	4.913	126.5	9.6	15.51	29.31	0
6/15/21 7:02	6.018	132.8	15.48	15.61	29.31	0
6/15/21 7:21	4.216	103.3	34.1	16.42	29.31	0
6/15/21 7:44	3.741	126.5	25.16	16.06	29.31	0
6/15/21 7:46	4.943	144.2	20.73	16.13	29.32	0
6/15/21 8:06	4.01	152.5	20.35	16.32	29.32	0
6/15/21 8:28	3.418	165.7	36.29	17.05	29.32	0
6/15/21 8:32	2.589	107.1	33.32	16.97	29.32	0
6/15/21 8:58	2.996	152.9	34.48	17.06	29.32	0
6/15/21 9:07	4.385	150.8	28.35	17.54	29.32	0
6/15/21 9:26	4.211	143.3	42.92	17.53	29.32	0
6/15/21 9:30	4.125	149.2	18.91	17.57	29.32	0
6/15/21 9:56	5.005	167.3	26.66	17.9	29.33	0
6/15/21 10:12	5.771	150.9	33.5	19.64	29.33	0
6/15/21 10:16	6.477	241.5	35.49	18.9	29.33	0
6/15/21 10:41	3.701	230.4	26.34	18.54	29.33	0
6/15/21 10:57	6.585	177.4	31.78	19.57	29.35	0
6/15/21 11:08	6.47	214.1	27.27	19.5	29.35	0
6/15/21 11:20	6.135	196.2	22.78	19.77	29.35	0
6/15/21 11:41	6.141	232.5	19.95	20	29.35	0
6/15/21 11:54	7.319	197.8	15.55	20.23	29.36	0
6/15/21 12:03	8.37	227.6	27.71	20.37	29.36	0
6/15/21 12:28	6.144	226.3	37.49	20.89	29.36	0
6/15/21 12:41	11.96	256.5	13.32	20.35	29.36	0
6/15/21 12:48	10.52	263.3	15.11	20.34	29.37	0
6/15/21 13:06	11.13	237.3	11.6	20	29.37	0
6/15/21 13:24	11.31	238.2	10.99	19.9	29.37	0
6/15/21 13:44	9.92	252	16.62	20.61	29.37	0
6/15/21 13:50	12.41	237.2	14.47	21.06	29.37	0
6/15/21 14:02	14.93	248.2	7.617	20.31	29.37	0
6/15/21 14:17	12.21	236.8	15.57	20.16	29.37	0
6/15/21 14:33	9.47	226.3	14.62	19.85	29.37	0
6/15/21 14:56	8.65	219.3	14.18	20.25	29.39	0
6/15/21 15:13	12.56	225.7	14.18	19.72	29.39	0
6/15/21 15:29	12.2	240.2	14.46	19.29	29.39	0
6/15/21 15:43	10.35	245	13.95	19.12	29.39	0
6/15/21 15:59	7.514	230.3	16.04	19.62	29.44	0
6/15/21 16:01	12.45	245.5	10	19.07	29.44	0
6/15/21 16:29	7.772	226.6	18.36	19.42	29.44	0
6/15/21 16:30	11.42	201.6	10.18	19.25	29.44	0
6/15/21 16:52	9.41	185	16.33	18.8	29.43	0
6/15/21 17:06	9.68	164.1	13.61	18.29	29.43	0
6/15/21 17:28	11.65	143.6	8.51	17.47	29.43	0
6/15/21 17:31	9.65	143.4	8.08	17.21	29.43	0
6/15/21 17:48	7.582	141.1	11.41	17.57	29.45	0
6/15/21 18:14	6.188	135.7	9.26	17.74	29.45	0
6/15/21 18:24	11.1	155.1	10.8	17.39	29.45	0
6/15/21 18:35	12.65	162.4	8.84	16.57	29.45	0
6/15/21 18:45	8.55	154.4	12.92	16.36	29.47	0.01
6/15/21 19:02	8.81	147.3	8.06	16.01	29.47	0
6/15/21 19:23	7.455	140.5	10.32	16.07	29.47	0
6/15/21 19:30	6.159	135.6	8.17	15.73	29.47	0
6/15/21 19:52	5.615	132.1	7.411	15.46	29.51	0
6/15/21 20:12	4.808	116.1	9.06	15.19	29.51	0
6/15/21 20:23	6.123	113.3	6.802	15.16	29.51	0
6/15/21 20:34	5.755	127.1	8.22	15.11	29.51	0
6/15/21 20:53	5.304	134.5	6.391	14.92	29.52	0
6/15/21 21:14	4.91	136.6	7.339	14.92	29.52	0
6/15/21 21:27	4.954	132.2	8.68	14.73	29.52	0
6/15/21 21:44	3.001	130.7	15.94	14.67	29.52	0
6/15/21 21:53	3.36	163.7	14.9	14.81	29.54	0
6/15/21 22:00	3.297	151.2	8.54	14.71	29.54	0
6/15/21 22:27	4.154	162	8.47	14.62	29.54	0
6/15/21 22:32	4.467	164	11.06	14.59	29.54	0
6/15/21 22:46	3.627	155.1	5.913	14.68	29.54	0
6/15/21 23:14	3.232	134.3	18.78	14.43	29.54	0
6/15/21 23:15	4.602	132.8	5.473	14.19	29.54	0
6/15/21 23:35	4.324	121.8	9.56	13.98	29.54	0
6/15/21 23:51	5.013	131.2	7.03	13.94	29.53	0
6/16/21 0:02	4.463	136.2	16.41	13.83	29.53	0
6/16/21 0:23	4.13	158.8	8.56	13.91	29.53	0
6/16/21 0:30	4.172	163.6	9.37	13.82	29.53	0
6/16/21 0:53	4.734	169.3	8.04	13.83	29.54	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
6/16/21 1:13	5.311	164.7	5.773	14.01	29.54	0
6/16/21 1:16	4.516	170.8	11.59	14.26	29.54	0
6/16/21 1:34	3.035	160.9	8.82	14.03	29.54	0
6/16/21 1:48	1.457	145.1	18.58	14.11	29.54	0
6/16/21 2:12	0.477	82.2	0.499	13.8	29.54	0
6/16/21 2:29	1.693	106.1	14.65	13.93	29.54	0
6/16/21 2:41	0.949	131.8	10.58	14.05	29.54	0
6/16/21 2:58	3.984	182.7	8.71	14.4	29.55	0
6/16/21 3:03	4.694	168.5	13.29	14.31	29.55	0
6/16/21 3:15	1.493	116.4	17.23	13.71	29.55	0
6/16/21 3:36	1.53	85.1	7.496	13.65	29.55	0
6/16/21 3:59	1.25	49.96	13.95	13.59	29.54	0
6/16/21 4:06	2.979	83.7	4.453	13.75	29.54	0
6/16/21 4:22	2.663	102.4	3.24	14	29.54	0
6/16/21 4:34	2.102	85.3	4.213	14.2	29.54	0
6/16/21 4:45	0.673	82.1	4.641	14.26	29.53	0
6/16/21 5:10	1.693	3.638	9.07	14.16	29.53	0
6/16/21 5:29	2.056	7.603	1.812	14.04	29.53	0
6/16/21 5:30	1.731	4.452	6.227	14.28	29.53	0
6/16/21 5:45	0.338	339.4	19.04	15.19	29.53	0
6/16/21 6:07	0.437	244.8	31.04	15.65	29.53	0
6/16/21 6:25	2.471	204	21.44	16.38	29.53	0
6/16/21 6:30	2.421	190.3	15.02	15.65	29.53	0
6/16/21 6:58	2.298	208.3	20.73	15.58	29.55	0
6/16/21 7:12	2.126	202.2	16.88	15.85	29.55	0
6/16/21 7:21	2.124	199.9	37.73	16.69	29.55	0
6/16/21 7:40	2.28	186.7	37.89	16.72	29.55	0
6/16/21 7:45	1.353	264	58.72	16.57	29.55	0
6/16/21 8:11	2.023	305.6	21.33	17.2	29.55	0
6/16/21 8:22	2.849	320	28.34	17.58	29.55	0
6/16/21 8:37	2.813	344.9	34.25	18.17	29.55	0
6/16/21 8:49	4.498	294.1	19.18	19.07	29.54	0
6/16/21 9:02	6.276	309.2	9.87	18.85	29.54	0
6/16/21 9:20	4.619	309.3	13.71	19.23	29.54	0
6/16/21 9:43	4.494	325.4	29.69	19.76	29.54	0
6/16/21 9:51	6.935	306	13.71	20.28	29.52	0
6/16/21 10:14	6.496	330.1	28.67	20.51	29.52	0
6/16/21 10:25	9.02	14.38	14.26	20.15	29.52	0
6/16/21 10:37	9.21	14.84	8.85	19.4	29.52	0
6/16/21 10:55	7.051	10.83	14.71	20.24	29.51	0
6/16/21 11:07	8.32	11.98	16.88	20.67	29.51	0
6/16/21 11:15	4.667	10.39	25.65	21.13	29.51	0
6/16/21 11:34	4.217	4.404	35.75	21.29	29.51	0
6/16/21 11:48	4.256	316.4	48.55	21.85	29.47	0
6/16/21 12:09	6.17	1.484	24.18	22.34	29.47	0
6/16/21 12:17	5.765	323.8	21.39	22.99	29.47	0
6/16/21 12:40	6.745	346.6	25.18	22.13	29.47	0
6/16/21 12:48	7.611	23.02	15.13	22.23	29.46	0
6/16/21 13:00	6.919	5.232	33.39	22.32	29.46	0
6/16/21 13:19	8.14	1.124	29.39	23.26	29.46	0
6/16/21 13:41	5.496	2.852	27.46	23.62	29.46	0
6/16/21 13:59	7.041	1.166	23.44	23.8	29.44	0
6/16/21 14:01	8.47	351.4	36.25	23.93	29.44	0
6/16/21 14:17	8.96	337.9	23.73	24.13	29.44	0
6/16/21 14:31	7.256	316.9	27.84	24.43	29.44	0
6/16/21 14:53	8.12	319	25.42	24.84	29.43	0
6/16/21 15:07	7.934	335.9	25.08	25.11	29.43	0
6/16/21 15:16	7.884	343.1	17.57	24.75	29.43	0
6/16/21 15:36	9.96	344.2	17.2	24.73	29.43	0
6/16/21 15:52	9.38	323.7	26.71	24.88	29.44	0
6/16/21 16:01	9.37	307.8	8.97	25.03	29.44	0
6/16/21 16:25	8.52	314.3	16.19	25.1	29.44	0
6/16/21 16:40	7.19	330.6	23.2	25.2	29.44	0
6/16/21 16:46	7.003	326	21.83	25.22	29.41	0
6/16/21 17:00	9.36	314.3	12.2	25.07	29.41	0
6/16/21 17:15	7.718	328.8	15.02	25.06	29.41	0
6/16/21 17:31	6.42	321.9	17.22	25.06	29.41	0
6/16/21 17:56	7.198	317.8	12.19	24.86	29.39	0
6/16/21 18:02	7.187	313.9	9.76	24.47	29.39	0
6/16/21 18:18	6.706	312.4	12.87	24.25	29.39	0
6/16/21 18:30	7.483	310.4	7.928	23.75	29.39	0
6/16/21 18:47	7.468	308.6	8.98	23.2	29.38	0
6/16/21 19:04	8.15	307.5	6.089	22.63	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
6/16/21 19:29	8.01	304.4	6.291	21.99	29.38	0
6/16/21 19:38	8.05	299.3	5.772	21.22	29.38	0
6/16/21 19:50	9.37	292.9	5.617	20.47	29.38	0
6/16/21 20:06	9.29	301.9	10.83	20.1	29.38	0
6/16/21 20:15	7.319	308.9	12.6	19.84	29.38	0
6/16/21 20:31	4.004	341.9	22.12	19.37	29.38	0
6/16/21 20:58	3.031	351.8	20.77	19.08	29.41	0
6/16/21 21:15	3.838	350.8	21	18.91	29.41	0
6/16/21 21:22	6.133	5.591	17.5	18.41	29.41	0
6/16/21 21:33	6.382	10.82	17.38	18.17	29.41	0
6/16/21 21:46	5.075	21.16	19.72	17.42	29.39	0
6/16/21 22:09	6.301	38.52	12.43	17.05	29.39	0
6/16/21 22:19	6.332	27.28	14.81	16.75	29.39	0
6/16/21 22:43	5.218	12.78	14.74	16.94	29.39	0
6/16/21 22:50	6.033	27.18	11.98	16.65	29.39	0
6/16/21 23:04	6.478	24.8	8.29	16.4	29.39	0
6/16/21 23:18	7.689	20.21	7.934	16.16	29.39	0
6/16/21 23:37	7.991	21.35	7.608	16.2	29.39	0
6/16/21 23:45	7.148	22.64	9.86	16.28	29.37	0
6/17/21 0:09	7.953	21.52	8.44	16.21	29.37	0
6/17/21 0:20	6.88	23.8	15.56	15.96	29.37	0
6/17/21 0:40	3.628	61	9.5	14.75	29.37	0
6/17/21 0:52	3.184	56.12	8.15	14.47	29.37	0
6/17/21 1:05	3.019	56.05	19.01	14.8	29.37	0
6/17/21 1:21	4.003	29.43	15	14.99	29.37	0
6/17/21 1:38	4.867	15.97	10.81	14.23	29.37	0
6/17/21 1:48	5.621	21	7.716	13.36	29.36	0
6/17/21 2:10	5.791	11.15	7.508	13.31	29.36	0
6/17/21 2:15	4.659	7.989	8.91	13.19	29.36	0
6/17/21 2:30	3.764	24.35	10.4	12.61	29.36	0
6/17/21 2:50	3.94	24.03	12.51	12.96	29.38	0
6/17/21 3:08	3.299	48.98	15.36	12.9	29.38	0
6/17/21 3:21	2.529	130.4	46.51	13.08	29.38	0
6/17/21 3:35	1.946	138.9	25.82	13.42	29.38	0
6/17/21 3:59	1.754	194.3	66.34	13.15	29.36	0
6/17/21 4:03	2.332	182.7	20.05	13	29.36	0
6/17/21 4:15	0.607	167.4	59	12.7	29.36	0
6/17/21 4:44	2.097	60.73	5.538	12.52	29.36	0
6/17/21 4:45	1.714	46.47	4.169	13.7	29.39	0
6/17/21 5:01	0.991	38.17	5.929	13.86	29.39	0
6/17/21 5:19	2.638	112.4	20.04	13.67	29.39	0
6/17/21 5:34	1.625	101	21.2	14.91	29.39	0
6/17/21 5:56	1.287	84.6	23.48	16.04	29.37	0
6/17/21 6:14	2.278	119.7	16.33	16.17	29.37	0
6/17/21 6:28	2.265	134.7	20.66	16.67	29.37	0
6/17/21 6:38	1.904	133.9	15.94	17.15	29.37	0
6/17/21 6:48	0.88	145.2	27.65	17.94	29.38	0
6/17/21 7:14	1.614	38.44	31.72	19.02	29.38	0
6/17/21 7:28	0.902	75.49	74.23	19.46	29.38	0
6/17/21 7:43	2.202	228.4	28.17	19.29	29.38	0
6/17/21 7:58	2.395	265.4	23.13	19.86	29.39	0
6/17/21 8:12	2.523	269.5	28.9	20.2	29.39	0
6/17/21 8:20	3.571	288.4	19.81	20.6	29.39	0
6/17/21 8:43	3.088	267	32.18	20.73	29.39	0
6/17/21 8:53	3.412	265.6	34.68	21.19	29.39	0
6/17/21 9:08	3.833	280.1	33.34	21.7	29.39	0
6/17/21 9:23	2.308	303.8	60.69	22.41	29.39	0
6/17/21 9:39	4.568	275.9	34.45	23.02	29.39	0
6/17/21 9:55	3.309	304	38.45	23.33	29.38	0
6/17/21 10:01	3.626	293.5	30.34	23.65	29.38	0
6/17/21 10:15	5.364	279.6	23.77	23.71	29.38	0
6/17/21 10:40	4.904	298.3	36.49	24.13	29.38	0
6/17/21 10:45	5.566	260	29.16	24.09	29.39	0
6/17/21 11:04	6.55	259.7	15.4	24.37	29.39	0
6/17/21 11:16	6.983	283.4	34.11	25.3	29.39	0
6/17/21 11:43	6.342	287.1	32.13	25.55	29.39	0
6/17/21 11:48	5.651	300.1	42.74	25.82	29.38	0
6/17/21 12:02	7.613	293.2	15.23	26.39	29.38	0
6/17/21 12:16	6.943	280.1	35.13	26.36	29.38	0
6/17/21 12:43	4.408	280.6	26.24	26.97	29.38	0
6/17/21 12:45	5.891	315.6	27.94	27.22	29.35	0
6/17/21 13:13	4.847	288.7	25.68	27.53	29.35	0
6/17/21 13:29	8.42	280.3	19.69	27.36	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
6/17/21 13:40	8.5	288.6	18.34	27.62	29.35	0
6/17/21 13:53	9.67	267.6	16.83	27.39	29.33	0
6/17/21 14:11	8.32	262.9	20.1	27.82	29.33	0
6/17/21 14:17	9.89	257.7	12.17	27.67	29.33	0
6/17/21 14:31	9.4	262.6	15.06	28.08	29.33	0
6/17/21 14:49	7.956	275.6	17.54	28.28	29.31	0
6/17/21 15:09	7.238	297.1	23.29	28.74	29.31	0
6/17/21 15:23	8.64	285.1	16.27	28.59	29.31	0
6/17/21 15:30	8.53	289.5	18.98	28.69	29.31	0
6/17/21 15:50	10.14	282.4	11.84	28.5	29.3	0
6/17/21 16:08	9.08	293.3	15.82	28.74	29.3	0
6/17/21 16:29	8.13	303.9	13.91	28.93	29.3	0
6/17/21 16:30	8.93	306.7	10.91	28.75	29.3	0
6/17/21 16:48	8.5	301.1	7.736	28.85	29.31	0
6/17/21 17:03	8.4	311.1	9.61	28.78	29.31	0
6/17/21 17:23	8.58	303.1	10.12	28.46	29.31	0
6/17/21 17:33	7.795	309.6	13.85	28.45	29.31	0
6/17/21 17:46	7.491	313.1	9.28	28.19	29.29	0
6/17/21 18:02	8.31	312.8	6.143	27.19	29.29	0
6/17/21 18:15	6.046	322.5	6.636	26.61	29.29	0
6/17/21 18:34	7.777	316.3	5.996	26.01	29.29	0
6/17/21 18:55	7.456	308.5	6.014	25.79	29.28	0
6/17/21 19:04	6.827	304.9	7.531	25.35	29.28	0
6/17/21 19:20	5.318	310.7	14.9	24.99	29.28	0
6/17/21 19:42	6.875	335.6	17.14	24.57	29.28	0
6/17/21 19:59	5.073	330.5	14.71	24.23	29.28	0
6/17/21 20:10	5.799	337.1	16.97	23.8	29.28	0
6/17/21 20:24	5.614	340.9	16.19	23.58	29.28	0
6/17/21 20:42	7.052	0.385	13.24	22.74	29.28	0
6/17/21 20:49	7.325	11.32	11.67	21.84	29.27	0
6/17/21 21:14	9.16	20.18	5.806	20.77	29.27	0
6/17/21 21:24	10.02	13.54	6.012	20.2	29.27	0
6/17/21 21:40	10.67	13.58	7.339	19.6	29.27	0
6/17/21 21:59	11.03	20.52	9.53	19.54	29.31	0
6/17/21 22:06	10.44	21.66	11.64	19.25	29.31	0
6/17/21 22:20	11.22	15.05	8.54	18.77	29.31	0
6/17/21 22:33	13.97	11.48	6.488	18.3	29.31	0
6/17/21 22:47	13.12	14.19	8.42	18.05	29.3	0
6/17/21 23:03	10.8	17.1	8.04	17.66	29.3	0
6/17/21 23:25	11.03	17.91	10.12	17.1	29.3	0
6/17/21 23:37	10.56	19.45	9.39	16.59	29.3	0
6/17/21 23:51	10.58	18.22	7.709	16.55	29.29	0
6/18/21 0:03	8.8	25.1	9.58	16.26	29.29	0
6/18/21 0:27	8.49	25.31	8.01	15.87	29.29	0
6/18/21 0:34	8.99	23.11	10.76	15.87	29.29	0
6/18/21 0:57	10.17	21.93	9.39	15.89	29.28	0
6/18/21 1:12	10.9	24.57	10.56	16.02	29.28	0
6/18/21 1:27	10.18	17.05	14.31	16.21	29.28	0
6/18/21 1:41	7.406	36.24	13.08	15.89	29.28	0
6/18/21 1:52	10.95	35.07	8.96	15.84	29.28	0
6/18/21 2:04	11.2	31.2	8.28	15.92	29.28	0
6/18/21 2:23	11.53	22.22	6.544	15.61	29.28	0
6/18/21 2:41	11.36	19.91	9.32	15.27	29.28	0
6/18/21 2:57	10.96	31.89	10.54	15.34	29.29	0
6/18/21 3:05	10.88	27.89	7.793	15.48	29.29	0
6/18/21 3:16	9.49	26.18	8.54	15.02	29.29	0
6/18/21 3:43	8.88	26.98	8.17	14.71	29.29	0
6/18/21 3:54	10.51	25.21	8.89	15	29.29	0
6/18/21 4:04	8.57	35.13	16.98	14.63	29.29	0
6/18/21 4:15	5.372	25.38	18.66	14.35	29.29	0
6/18/21 4:35	3.822	22.47	26.21	14.41	29.29	0
6/18/21 4:48	7.098	25.56	15.64	14.75	29.29	0
6/18/21 5:01	7.212	47.19	16.87	14.84	29.29	0
6/18/21 5:21	6.618	43.26	13.34	15.2	29.29	0
6/18/21 5:43	6.984	32.17	11.1	15.62	29.29	0
6/18/21 5:55	7.919	32.79	11.19	15.98	29.29	0
6/18/21 6:05	5.798	22.15	17.29	16.36	29.29	0
6/18/21 6:23	6.508	20.01	15.07	16.85	29.29	0
6/18/21 6:38	10.24	359.3	14.68	17.21	29.29	0
6/18/21 6:53	12.53	358.5	14.95	17.27	29.31	0
6/18/21 7:12	11.8	7.452	16.06	17.3	29.31	0
6/18/21 7:27	12.73	18.9	13	17.15	29.31	0
6/18/21 7:34	13.14	13.02	12.19	17.49	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
6/18/21 7:45	11.66	15.26	14.45	18.06	29.31	0
6/18/21 8:00	11.44	19.94	11.56	18.54	29.31	0
6/18/21 8:17	12.43	12.28	12.2	18.86	29.31	0
6/18/21 8:38	11.57	8.06	15.7	19.28	29.31	0
6/18/21 8:51	12.41	352.3	13.5	19.66	29.31	0
6/18/21 9:01	13.03	347.6	12.35	20.02	29.31	0
6/18/21 9:19	12.19	357.2	16.52	19.95	29.31	0
6/18/21 9:36	11.56	3.258	17.15	20.17	29.31	0
6/18/21 9:45	10.12	1.818	14.82	20.9	29.28	0
6/18/21 10:10	11.64	22.11	9.45	20.93	29.28	0
6/18/21 10:15	8	17.44	13.62	21.6	29.28	0
6/18/21 10:40	9.04	19.29	19.16	21.76	29.28	0
6/18/21 10:51	9.76	21.39	10.86	21.66	29.29	0
6/18/21 11:05	10.45	16.77	9.58	21.68	29.29	0
6/18/21 11:19	7.5	343.3	31.24	22.66	29.29	0
6/18/21 11:39	6.55	355.4	33.6	22.99	29.29	0
6/18/21 11:51	8.35	358	24.48	23.16	29.28	0
6/18/21 12:04	8.62	1.886	22.12	23.25	29.28	0
6/18/21 12:16	6.989	307.9	20.61	24.46	29.28	0
6/18/21 12:31	8.67	293.5	15.26	24.44	29.28	0
6/18/21 12:57	8.17	300.6	15.07	24.37	29.26	0
6/18/21 13:12	7.592	314.7	24.02	24.72	29.26	0
6/18/21 13:26	7.764	309.7	18.23	24.87	29.26	0
6/18/21 13:31	8.87	309.6	17.06	25.1	29.26	0
6/18/21 13:51	9.07	300	14.8	25.02	29.26	0
6/18/21 14:04	8.14	312.8	13.29	25.2	29.26	0
6/18/21 14:24	7.684	308.1	13.01	25.5	29.26	0
6/18/21 14:43	7.713	295.5	17.87	25.8	29.26	0
6/18/21 14:50	8.7	285.5	12.98	26.02	29.26	0
6/18/21 15:09	8.35	298.5	12.3	26.22	29.26	0
6/18/21 15:24	8.54	308.8	15.84	26.19	29.26	0
6/18/21 15:39	9.2	306.4	13.52	26.01	29.26	0
6/18/21 15:59	8.51	315.1	9.63	25.95	29.25	0
6/18/21 16:03	8.19	309	11.51	25.85	29.25	0
6/18/21 16:18	8.01	318	12.74	25.92	29.25	0
6/18/21 16:39	8.09	311.2	17.94	25.88	29.25	0
6/18/21 16:53	6.389	326.3	25.5	25.92	29.23	0
6/18/21 17:12	7.134	330.4	25.21	25.64	29.23	0
6/18/21 17:19	6.386	330.2	12.82	25.65	29.23	0
6/18/21 17:41	8.42	333.6	14.07	25.15	29.23	0
6/18/21 17:45	7.245	341.1	19.02	24.45	29.25	0
6/18/21 18:02	8.11	350.7	17.48	23.94	29.25	0
6/18/21 18:20	9.04	9.49	13.93	23.08	29.25	0
6/18/21 18:32	8.31	356.9	15.77	22.8	29.25	0
6/18/21 18:50	7.641	344.8	12.57	22.64	29.25	0
6/18/21 19:08	8.54	349.9	12.4	21.98	29.25	0
6/18/21 19:23	6.959	356.7	13.54	20.96	29.25	0
6/18/21 19:30	8.81	359.1	11.99	20.24	29.25	0
6/18/21 19:49	8.2	344.5	17.48	19.86	29.26	0
6/18/21 20:12	10.1	348	11.24	19.33	29.26	0
6/18/21 20:24	13.16	9.41	10.09	18.39	29.26	0
6/18/21 20:37	14.11	12.67	9.55	17.87	29.26	0
6/18/21 20:52	16.03	3.965	9.58	17.46	29.26	0
6/18/21 21:05	17.75	7.701	8.49	16.98	29.26	0
6/18/21 21:17	16.77	8.32	8.91	16.94	29.26	0
6/18/21 21:30	12.61	15.61	7.071	16.57	29.26	0
6/18/21 21:46	8.16	6.446	12.19	16.32	29.28	0
6/18/21 22:14	6.577	17.52	13.21	15.98	29.28	0
6/18/21 22:28	7.22	17.95	12.5	15.55	29.28	0
6/18/21 22:35	6.502	22.34	12.96	15.5	29.28	0
6/18/21 22:45	6.125	4.011	18.04	15.79	29.27	0
6/18/21 23:09	8.6	357	16.76	16.17	29.27	0
6/18/21 23:22	7.313	359.7	17.71	16.12	29.27	0
6/18/21 23:36	7.882	11.34	18.43	15.9	29.27	0
6/18/21 23:55	8.59	16.42	18.39	15.86	29.26	0
6/19/21 0:00	8.91	7.896	11.3	15.66	29.26	0
6/19/21 0:25	8.03	4.852	9.27	15.14	29.26	0
6/19/21 0:41	11.88	8.96	9.64	15.19	29.26	0
6/19/21 0:59	12.24	20.36	10.27	15.4	29.27	0
6/19/21 1:01	10.97	9.27	7.577	15.23	29.27	0
6/19/21 1:15	9.57	14.48	5.366	14.64	29.27	0
6/19/21 1:34	8.8	7.482	7.883	14.16	29.27	0
6/19/21 1:46	5.498	5.238	15.37	14.44	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
6/19/21 2:05	4.357	6.119	19.18	14.32	29.28	0
6/19/21 2:28	2.1	350.1	23.92	14.08	29.28	0
6/19/21 2:44	4.973	3.013	17	13.42	29.28	0
6/19/21 2:51	5.939	24.28	11.96	12.72	29.27	0
6/19/21 3:12	5.432	19.65	7.985	12.35	29.27	0
6/19/21 3:16	5.224	24.5	6.656	12.08	29.27	0
6/19/21 3:38	5.961	24.14	6.885	11.99	29.27	0
6/19/21 3:51	5.191	36.09	9.41	11.82	29.3	0
6/19/21 4:10	6.255	27.83	10.57	11.89	29.3	0
6/19/21 4:24	5.447	28.46	9.95	11.76	29.3	0
6/19/21 4:34	6.394	21.9	7.323	11.81	29.3	0
6/19/21 4:51	3.846	30.24	9.97	12.18	29.28	0
6/19/21 5:02	3.908	38.14	6.513	12.12	29.28	0
6/19/21 5:16	2.603	56.24	18.38	12.88	29.28	0
6/19/21 5:30	1.915	41.03	21.05	13.54	29.28	0
6/19/21 5:57	1.712	24.45	4.466	13.21	29.3	0
6/19/21 6:14	1.905	62.52	27.81	14.8	29.3	0
6/19/21 6:24	2.845	125.4	13.51	15.17	29.3	0
6/19/21 6:38	2.836	131.5	20.75	15.48	29.3	0
6/19/21 6:52	3.217	142.9	21	15.72	29.3	0
6/19/21 7:07	2.473	119.8	32.96	16.08	29.3	0
6/19/21 7:25	3.63	175.3	19.49	16.09	29.3	0
6/19/21 7:35	3.092	198.4	36.14	16.49	29.3	0
6/19/21 7:58	3.012	218.7	25.2	17.03	29.29	0
6/19/21 8:00	3.125	234.4	22.48	17.29	29.29	0
6/19/21 8:22	4.212	207.8	15.97	17.49	29.29	0
6/19/21 8:33	4.341	228.4	22	18.05	29.29	0
6/19/21 8:45	3.879	255.5	13.79	18.81	29.3	0
6/19/21 9:03	1.957	281.2	70.6	19.6	29.3	0
6/19/21 9:28	2.796	334.9	39.8	20.33	29.3	0
6/19/21 9:30	2.736	281.5	37.09	20.85	29.3	0
6/19/21 9:51	4.48	259.2	46.37	21.64	29.29	0
6/19/21 10:01	3.444	348.4	19.55	21.81	29.29	0
6/19/21 10:25	3.41	323.4	68.74	22.86	29.29	0
6/19/21 10:41	7.201	277.5	24.04	22.39	29.29	0
6/19/21 10:48	8.81	243.8	20.24	21.93	29.28	0
6/19/21 11:00	7.532	249.5	15.96	22.56	29.28	0
6/19/21 11:22	5.745	269.9	27.55	23.13	29.28	0
6/19/21 11:37	3.794	299.6	27.84	23.52	29.28	0
6/19/21 11:46	5.03	300.3	44.82	24.16	29.27	0
6/19/21 12:05	6.626	353.5	26.1	24.49	29.27	0
6/19/21 12:20	7.138	28.65	22.31	24.51	29.27	0
6/19/21 12:36	7.263	18.87	32.33	24.95	29.27	0
6/19/21 12:55	8.98	303.2	19.69	25.37	29.27	0
6/19/21 13:00	7.738	318.7	19.87	25.64	29.27	0
6/19/21 13:28	7.783	333.2	30.96	25.81	29.27	0
6/19/21 13:32	7.301	344.8	29.81	25.97	29.27	0
6/19/21 13:59	7.346	10.95	21.93	25.95	29.26	0
6/19/21 14:04	6.746	4.423	32.92	25.77	29.26	0
6/19/21 14:24	6.945	4.762	33.11	26.56	29.26	0
6/19/21 14:40	8.66	311.8	21.71	27.02	29.26	0
6/19/21 14:46	5.529	352	28.28	26.81	29.24	0
6/19/21 15:07	7.029	0.932	21.85	26.76	29.24	0
6/19/21 15:17	9.24	16.31	20.97	26.26	29.24	0
6/19/21 15:38	9.18	22.55	15.86	25.88	29.24	0
6/19/21 15:45	9.26	10.13	17.55	26.08	29.24	0
6/19/21 16:12	9.94	10.61	14.68	25.95	29.24	0
6/19/21 16:22	9.19	12.83	11.71	25.84	29.24	0
6/19/21 16:38	7.639	2.812	14.69	26.27	29.24	0
6/19/21 16:52	8.9	4.334	18.38	26.01	29.22	0
6/19/21 17:00	9.95	342.3	15.77	26.58	29.22	0
6/19/21 17:19	7.996	17.57	18.46	25.6	29.22	0
6/19/21 17:39	9.53	18.65	13.98	25.12	29.22	0
6/19/21 17:50	8.53	22.44	14.33	24.72	29.2	0
6/19/21 18:04	8.12	16.39	10.07	24.54	29.2	0
6/19/21 18:29	6.953	7.075	13.11	24.66	29.2	0
6/19/21 18:37	7.991	10.94	8.02	24.06	29.2	0
6/19/21 18:49	7.151	14.72	9.63	23.74	29.21	0
6/19/21 19:00	6.454	4.584	8.87	23.57	29.21	0
6/19/21 19:15	6.544	2.502	9.25	23.2	29.21	0
6/19/21 19:38	5.221	357.1	9.33	23.08	29.21	0
6/19/21 19:57	6.526	348.7	9.01	22.87	29.21	0
6/19/21 20:08	6.966	339	8.25	22.37	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
6/19/21 20:23	7.181	346.3	7.952	21.96	29.21	0
6/19/21 20:33	7.07	347.7	9.04	21.81	29.21	0
6/19/21 20:45	5.664	345.5	10	21.44	29.22	0
6/19/21 21:13	5.289	353.5	13.17	20.7	29.22	0
6/19/21 21:17	6.543	5.783	6.371	20.09	29.22	0
6/19/21 21:32	8.29	3.681	9.37	20.11	29.22	0
6/19/21 21:51	7.831	6.191	9.68	20.17	29.2	0
6/19/21 22:09	9.09	7.134	9.26	19.91	29.2	0
6/19/21 22:16	9.45	11.39	10.25	19.73	29.2	0
6/19/21 22:39	7.598	23.11	10.24	19.42	29.2	0
6/19/21 22:45	6.646	17.75	13.38	19.49	29.23	0
6/19/21 23:09	5.846	21.02	20.55	19.49	29.23	0
6/19/21 23:25	3.378	22.18	23.98	19.29	29.23	0
6/19/21 23:39	5.028	9.81	16.37	19.26	29.23	0
6/20/21 0:00	7.822	25.23	16.98	18.99	29.22	0
6/20/21 0:00	8.46	12.82	18.05	18.75	29.22	0
6/20/21 0:15	7.549	351.8	16.02	18.98	29.22	0
6/20/21 0:42	4.587	23.21	33.15	18.62	29.22	0
6/20/21 0:46	8.86	2.972	11.57	18.5	29.2	0
6/20/21 1:01	7.296	2.546	9.65	18.35	29.2	0
6/20/21 1:26	6.957	6.444	11.4	17.98	29.2	0
6/20/21 1:39	8.69	12.98	8.47	17.74	29.2	0
6/20/21 1:52	8.15	8.51	8.91	17.49	29.21	0
6/20/21 2:00	7.061	11.34	7.764	17.16	29.21	0
6/20/21 2:15	6.058	8.79	8.64	16.9	29.21	0
6/20/21 2:44	6.629	7.942	8.4	16.72	29.21	0
6/20/21 2:59	9.03	22.45	10.62	16.66	29.19	0
6/20/21 3:09	13.1	21.82	5.742	16.71	29.19	0
6/20/21 3:17	12.64	11.96	8.26	16.58	29.19	0
6/20/21 3:40	12.38	27.85	8.14	16.07	29.19	0
6/20/21 3:45	5.763	25.88	10.73	15.8	29.22	0
6/20/21 4:00	2.454	311.7	21.5	15.77	29.22	0
6/20/21 4:29	4.382	2.846	17.93	15.16	29.22	0
6/20/21 4:44	9.17	15.26	8.86	15.1	29.22	0
6/20/21 4:46	12.04	15.04	9.85	15.35	29.2	0
6/20/21 5:00	8.58	12.78	11.11	15.42	29.2	0
6/20/21 5:16	4.749	2.006	13.5	15.7	29.2	0
6/20/21 5:37	5.208	8.9	7.782	15.98	29.2	0
6/20/21 5:48	4.778	13.82	7.403	16.2	29.22	0
6/20/21 6:14	4.692	15.62	8.49	16.58	29.22	0
6/20/21 6:20	5.166	16.14	7.639	16.97	29.22	0
6/20/21 6:39	5.745	14.31	6.49	17.5	29.22	0
6/20/21 6:47	4.755	18.18	8.37	18.21	29.22	0
6/20/21 7:00	3.892	20.98	14.78	19.32	29.22	0
6/20/21 7:26	6.114	22.81	7.982	19.44	29.22	0
6/20/21 7:33	5.462	21.23	8.78	19.47	29.22	0
6/20/21 7:58	6.979	17.02	8.9	20.16	29.21	0
6/20/21 8:08	7.549	17.8	11.06	20.69	29.21	0
6/20/21 8:24	7.119	18.88	13.3	21.21	29.21	0
6/20/21 8:37	8.24	23.08	13.34	21.9	29.21	0
6/20/21 8:58	8.62	14.05	12.85	22.38	29.22	0
6/20/21 9:14	8.88	20.16	13.08	22.58	29.22	0
6/20/21 9:20	8.54	3.266	23.7	23.02	29.22	0
6/20/21 9:41	9.18	14.29	12.93	23.4	29.22	0
6/20/21 9:57	8.71	12.61	18.91	23.73	29.21	0
6/20/21 10:11	10.83	17.96	15.2	23.86	29.21	0
6/20/21 10:23	9.93	18.7	11.59	24.18	29.21	0
6/20/21 10:37	10.42	16.42	12.36	24.95	29.21	0
6/20/21 10:46	10.64	14.2	7.715	24.94	29.2	0
6/20/21 11:00	11.1	17.1	10.94	25.53	29.2	0
6/20/21 11:24	11.79	13.72	9.61	25.8	29.2	0
6/20/21 11:42	10.59	13.16	12.44	26.57	29.2	0
6/20/21 11:47	9.92	8.14	19.3	27.18	29.18	0
6/20/21 12:05	7.614	344.2	18.41	28.03	29.18	0
6/20/21 12:24	8.6	359.5	21.82	28.29	29.18	0
6/20/21 12:32	9.01	6.215	16.77	28.52	29.18	0
6/20/21 12:58	8.33	4.528	23.61	29.07	29.16	0
6/20/21 13:11	8.06	345.5	24.46	29.71	29.16	0
6/20/21 13:28	8.66	5.474	19.57	29.59	29.16	0
6/20/21 13:36	10.11	343.2	12.83	30.16	29.16	0
6/20/21 13:52	9.99	342.7	12.62	30.66	29.15	0
6/20/21 14:09	11.18	344.1	13.48	30.29	29.15	0
6/20/21 14:21	9.93	345.9	13.6	30.29	29.15	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
6/20/21 14:34	10.96	334	12.35	30.76	29.15	0
6/20/21 14:53	10.39	342.6	14.95	30.85	29.15	0
6/20/21 15:00	10.97	351.5	17.27	30.47	29.15	0
6/20/21 15:15	9.87	330.7	11.22	31.17	29.15	0
6/20/21 15:30	9.09	330	21.17	31.35	29.15	0
6/20/21 15:52	9.25	313.8	13.64	31.43	29.14	0
6/20/21 16:13	10.16	352.8	17.17	30.96	29.14	0
6/20/21 16:25	8.89	352.8	19.33	31	29.14	0
6/20/21 16:39	8.65	346.6	20.41	31.22	29.14	0
6/20/21 16:46	9.91	346.2	14.55	31.16	29.12	0
6/20/21 17:11	9.77	356.3	14.08	30.48	29.12	0
6/20/21 17:28	10.11	359.4	14.07	30.18	29.12	0
6/20/21 17:42	9.03	351.4	15.91	30.4	29.12	0
6/20/21 17:49	7.617	344.3	18.91	30.27	29.11	0
6/20/21 18:01	8.36	337.2	19.14	30.22	29.11	0
6/20/21 18:20	7.681	345.8	17.75	29.87	29.11	0
6/20/21 18:37	7.08	334.2	13.91	29.82	29.11	0
6/20/21 18:54	8.38	346.8	16.61	29	29.12	0
6/20/21 19:00	6.265	349.2	14.11	28.69	29.12	0
6/20/21 19:18	6.91	347.2	19.18	28.07	29.12	0
6/20/21 19:42	6.254	345.7	18.29	27.87	29.12	0
6/20/21 19:45	6.553	357.1	16.21	27.16	29.11	0
6/20/21 20:14	9.58	7.623	6.977	25.96	29.11	0
6/20/21 20:28	9.68	8.8	10.05	25.56	29.11	0
6/20/21 20:35	11.99	5.343	10.39	25.53	29.11	0
6/20/21 20:57	10.43	8.78	13.23	25.16	29.11	0
6/20/21 21:13	12.24	13.65	8.74	24.62	29.11	0
6/20/21 21:24	12.45	15.51	7.937	24.29	29.11	0
6/20/21 21:43	12.22	13.29	9.73	23.99	29.11	0
6/20/21 21:45	11.55	12.46	11.13	23.88	29.12	0
6/20/21 22:14	11.29	14.18	8.85	23.27	29.12	0
6/20/21 22:20	13.34	13.2	10.43	23.13	29.12	0
6/20/21 22:38	12.7	18.04	9.69	22.98	29.12	0
6/20/21 22:45	9.23	19.56	10.64	22.42	29.12	0
6/20/21 23:07	11.23	16.85	9.41	21.85	29.12	0
6/20/21 23:28	8.19	32.84	12.67	21.49	29.12	0
6/20/21 23:34	7.751	35.6	13.25	21.43	29.12	0
6/20/21 23:48	7.498	23.28	7.412	21.1	29.12	0
6/21/21 0:08	8.43	19.2	10.37	21.14	29.12	0
6/21/21 0:23	9.29	17.81	9.45	20.59	29.12	0
6/21/21 0:38	10.15	18.98	8.74	20.32	29.12	0
6/21/21 0:55	10.47	20.44	8.05	20.17	29.09	0
6/21/21 1:06	8.91	16.07	8.54	20.03	29.09	0
6/21/21 1:26	9.94	18.24	9.93	19.88	29.09	0
6/21/21 1:30	8.9	18.6	9.47	19.52	29.09	0
6/21/21 1:49	8.22	22.02	9.17	19.29	29.11	0
6/21/21 2:00	5.902	29.96	7.442	18.37	29.11	0
6/21/21 2:20	5.5	26.19	5.098	18.13	29.11	0
6/21/21 2:32	5.546	31.8	8.37	18.09	29.11	0
6/21/21 2:51	3.771	52.12	17.46	17.75	29.11	0
6/21/21 3:00	3.321	25.24	8.64	18.39	29.11	0
6/21/21 3:15	1.526	39.93	2.488	18.41	29.11	0
6/21/21 3:30	1.293	40.53	4.56	18.45	29.11	0
6/21/21 3:50	3.04	17.43	5.141	18.35	29.1	0
6/21/21 4:07	3.725	9.98	4.405	17.76	29.1	0
6/21/21 4:23	4.265	3.492	6.829	17.7	29.1	0
6/21/21 4:31	4.249	6.302	4.157	17.14	29.1	0
6/21/21 4:49	3.879	1.826	5.918	17.77	29.09	0
6/21/21 5:02	2.505	12.39	6.106	17.9	29.09	0
6/21/21 5:28	2.216	8.79	9.65	18.86	29.09	0
6/21/21 5:32	2.657	13.95	6.875	18.9	29.09	0
6/21/21 5:51	2.24	11.01	6.706	19.35	29.1	0
6/21/21 6:09	1.592	22.08	9.13	20.35	29.1	0
6/21/21 6:25	2.964	29.68	8.37	20.04	29.1	0
6/21/21 6:41	3.295	12.72	7.514	20.19	29.1	0
6/21/21 6:46	3.269	19.54	9.98	20.82	29.09	0
6/21/21 7:05	1.59	60.83	13.05	21.91	29.09	0
6/21/21 7:23	2.49	158.8	26.99	23.09	29.09	0
6/21/21 7:44	1.467	293.5	73.43	23.79	29.09	0
6/21/21 7:45	1.816	8.03	21.29	24.63	29.11	0
6/21/21 8:11	1.464	272.9	37.12	25.44	29.11	0
6/21/21 8:22	1.378	285.5	62.53	26.15	29.11	0
6/21/21 8:34	1.271	269.3	82.5	26.64	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
6/21/21 8:59	1.388	352.1	43.69	27.29	29.1	0
6/21/21 9:01	1.603	359	52.27	27.28	29.1	0
6/21/21 9:22	0.743	142.7	37.48	28.05	29.1	0
6/21/21 9:36	1.425	335.7	36.97	32.65	29.1	0
6/21/21 9:59	2.924	283.5	24.56	17.9	29.1	0
6/21/21 10:07	4.942	260.8	17.43	30.84	29.1	0
6/21/21 10:29	5.793	261.8	11.47	38.56	29.1	0.13
6/21/21 10:32	5.829	257.9	12.1	37.65	29.1	0.1
6/21/21 10:49	6.518	261	14.04	36.27	29.06	0.07
6/21/21 11:14	5.355	264.1	16.6	35.92	29.06	0
6/21/21 11:20	5.81	260.9	16.15	36.07	29.06	0.12
6/21/21 11:43	6.283	263.3	17.95	35.54	29.06	0.1
6/21/21 11:57	7.385	255.7	14.12	31.42	29.05	0.1
6/21/21 12:11	7.648	255.5	11.42	31.37	29.05	0
6/21/21 12:27	7.194	254.2	13.84	32.03	29.05	0
6/21/21 12:39	6.655	268.9	23.56	32.76	29.05	0
6/21/21 12:59	7.766	252.2	9.22	32.83	29.05	0
6/21/21 13:12	8.81	260	8.45	32.91	29.05	0
6/21/21 13:25	8.69	258.5	11.08	33.11	29.05	0
6/21/21 13:33	7.27	265.8	19.14	33.34	29.05	0
6/21/21 13:46	7.3	297.5	14.32	33.72	29.03	0
6/21/21 14:01	6.198	271.8	12.94	33.98	29.03	0
6/21/21 14:29	6.618	287.9	17.35	34.34	29.03	0
6/21/21 14:32	6.347	279.6	16.04	34.53	29.03	0
6/21/21 14:50	7.286	284.1	18.85	34.33	29.02	0
6/21/21 15:02	7.019	290	11.4	34.28	29.02	0
6/21/21 15:20	6.437	281	11.91	34.57	29.02	0
6/21/21 15:37	6.866	278.2	18.35	34.37	29.02	0
6/21/21 15:53	6.387	287.7	12.77	34.34	29.03	0
6/21/21 16:08	5.929	287.1	17.02	34.28	29.03	0
6/21/21 16:22	5.992	281.1	11.03	34.35	29.03	0
6/21/21 16:33	5.151	292	12.15	34.27	29.03	0
6/21/21 16:46	4.737	288.4	12.39	34.23	29	0
6/21/21 17:04	2.736	294.6	26.89	34.49	29	0
6/21/21 17:26	4.405	298.4	15.26	34.28	29	0
6/21/21 17:41	5.197	307.8	11.33	33.99	29	0
6/21/21 17:55	4.882	327.4	19.81	33.57	29.02	0
6/21/21 18:03	4.432	318.8	14.62	33.41	29.02	0
6/21/21 18:15	3.974	315.7	8.75	33.27	29.02	0
6/21/21 18:40	4.185	287.7	5.999	32.96	29.02	0
6/21/21 18:54	4.429	278	10.03	32.37	29.01	0
6/21/21 19:10	4.452	287	6.291	31.73	29.01	0
6/21/21 19:16	5.184	302.8	18.29	30.55	29.01	0
6/21/21 19:35	6.046	314	12.99	29.16	29.01	0
6/21/21 19:48	6.401	296.4	4.409	28.65	29	0
6/21/21 20:02	6.001	316.8	19.12	28.15	29	0
6/21/21 20:28	5.037	347.3	18.5	27.88	29	0
6/21/21 20:34	6.51	320.8	25.27	27.92	29	0
6/21/21 20:49	5.174	333.5	17.65	26.98	29.03	0
6/21/21 21:12	4.14	2.383	16.2	26.66	29.03	0
6/21/21 21:18	2.691	0.161	23.13	26.76	29.03	0
6/21/21 21:44	1.154	31.34	23.84	25.65	29.03	0
6/21/21 21:59	5.166	28.61	15.18	24.76	29.02	0
6/21/21 22:13	6.833	21.11	9.55	24.04	29.02	0
6/21/21 22:26	6.125	20.39	7.452	23.78	29.02	0
6/21/21 22:42	6.896	14.57	10.46	24.19	29.02	0
6/21/21 22:50	8.99	14.44	8.2	23.85	29.03	0
6/21/21 23:05	8.03	22.51	9.71	23.4	29.03	0
6/21/21 23:24	8.19	33.54	13.93	22.98	29.03	0
6/21/21 23:35	6.058	45.65	13.02	22.75	29.03	0
6/21/21 23:46	4.789	98.2	10.92	22.22	29.03	0
6/22/21 0:12	5.436	98.6	6.136	22.2	29.03	0
6/22/21 0:22	5.624	120.2	9.18	22.5	29.03	0
6/22/21 0:33	5.378	127.7	6.444	22.16	29.03	0
6/22/21 0:48	4.019	100.5	13.61	21.94	29.03	0
6/22/21 1:10	4.728	113.8	9.95	21.8	29.03	0
6/22/21 1:20	4.692	118.7	3.398	21.78	29.03	0
6/22/21 1:36	4.633	122	5.017	21.84	29.03	0
6/22/21 1:53	4.39	119	4.946	21.83	29.05	0
6/22/21 2:02	3.994	116.6	7.796	21.73	29.05	0
6/22/21 2:25	5.685	135.5	6.057	21.09	29.05	0
6/22/21 2:38	6.506	145.6	4.727	20.24	29.05	0
6/22/21 2:46	4.741	161.9	7.362	20.05	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
6/22/21 3:06	3.435	160	8.29	19.9	29.06	0
6/22/21 3:27	2.782	155.3	9.7	19.64	29.06	0
6/22/21 3:41	4.242	159.9	9.33	19.6	29.06	0
6/22/21 3:59	4.246	160.6	7.771	19.15	29.05	0
6/22/21 4:00	5.814	173.8	5.006	18.73	29.05	0
6/22/21 4:15	4.561	173.4	5.119	18.4	29.05	0
6/22/21 4:34	4.077	161.1	6.759	18.1	29.05	0
6/22/21 4:57	3.857	161.6	9.82	18.31	29.05	0
6/22/21 5:02	3.407	157.9	11.3	18.42	29.05	0
6/22/21 5:19	2.715	162	7.362	18.62	29.05	0
6/22/21 5:42	3.869	173.1	12.65	18.77	29.05	0
6/22/21 5:45	5.357	173.6	10.51	18.58	29.06	0
6/22/21 6:12	4.595	164.7	14.71	18.95	29.06	0
6/22/21 6:27	6.262	168.7	11.46	19.12	29.06	0
6/22/21 6:38	7.333	171.6	11.7	19.26	29.06	0
6/22/21 6:55	8.33	168.1	12.64	19.09	29.09	0
6/22/21 7:13	5.727	155.7	23.97	19.53	29.09	0
6/22/21 7:15	6.398	168.4	17.23	19.78	29.09	0
6/22/21 7:36	8.12	156.9	17.24	20.17	29.09	0
6/22/21 7:47	6.012	190	17.37	20.3	29.09	0
6/22/21 8:00	4.508	189.9	19.12	20.5	29.09	0
6/22/21 8:16	4.952	191.3	19.4	21.01	29.09	0
6/22/21 8:41	5.975	159.8	40.41	21.66	29.09	0
6/22/21 8:51	5.013	168.1	40.03	21.93	29.09	0
6/22/21 9:03	5.61	157.7	32.14	22.26	29.09	0
6/22/21 9:16	4.492	183.3	34.32	22.3	29.09	0
6/22/21 9:39	4.165	200.1	36.37	22.88	29.09	0
6/22/21 9:57	2.391	171.6	48.08	23.4	29.08	0
6/22/21 10:05	4.553	240.1	24.7	23.58	29.08	0
6/22/21 10:25	3.993	200.7	20.67	24.01	29.08	0
6/22/21 10:39	4.704	239.2	41.14	24.18	29.08	0
6/22/21 10:51	5.824	265.5	17.42	24.35	29.06	0
6/22/21 11:00	6.536	251.5	17.76	24.84	29.06	0
6/22/21 11:17	6.065	254.7	36.23	24.69	29.06	0
6/22/21 11:34	5.682	236.7	34.62	25.02	29.06	0
6/22/21 11:52	5.458	218.2	38.77	25.27	29.07	0
6/22/21 12:07	5.17	214.7	49.89	25.41	29.07	0
6/22/21 12:25	5.178	227.5	36.5	25.69	29.07	0
6/22/21 12:39	5.344	223.2	31.6	25.93	29.07	0
6/22/21 12:54	6.155	241.6	29.31	26.01	29.05	0
6/22/21 13:12	4.074	267	32.6	26.42	29.05	0
6/22/21 13:17	7.483	238.8	32.96	26.17	29.05	0
6/22/21 13:43	8.23	267.5	14.12	26.56	29.05	0
6/22/21 13:50	8.48	274.9	13.4	26.65	29.03	0
6/22/21 14:10	7.708	244.3	24.08	26.77	29.03	0
6/22/21 14:29	7.879	218.7	19.8	27.08	29.03	0
6/22/21 14:39	10.06	245.7	13.15	26.85	29.03	0
6/22/21 14:46	9.65	225.9	19.14	26.84	29.04	0
6/22/21 15:10	8.73	210	15	26.89	29.04	0
6/22/21 15:16	8.75	229.5	19.16	26.94	29.04	0
6/22/21 15:30	7.92	228.9	16.91	26.77	29.04	0
6/22/21 15:52	4.41	205.6	30.69	27.14	29.01	0
6/22/21 16:04	6.07	219.7	34.73	26.92	29.01	0
6/22/21 16:19	5.191	243.8	27.73	27.36	29.01	0
6/22/21 16:41	6.665	225.8	16.69	27.07	29.01	0
6/22/21 16:47	6.507	230.9	13.14	26.47	29.02	0
6/22/21 17:05	6.944	241.8	10.35	26.26	29.02	0
6/22/21 17:23	6.49	239.9	11.5	26.45	29.02	0
6/22/21 17:30	6.519	242.4	12.18	26.37	29.02	0
6/22/21 17:52	6.597	234.4	19.45	26.35	29	0
6/22/21 18:07	6.138	226	13.49	26.24	29	0
6/22/21 18:17	4.929	240.9	14.24	26.2	29	0
6/22/21 18:31	6.652	243.1	9.98	25.94	29	0
6/22/21 18:50	7.012	240.9	7.682	25.48	29	0
6/22/21 19:04	8.34	240.8	6.168	24.89	29	0
6/22/21 19:25	7.977	247.3	7.572	24.55	29	0
6/22/21 19:33	6.4	228.1	13.37	24.38	29	0
6/22/21 19:46	6.647	211.5	7.066	24.17	29.02	0
6/22/21 20:00	5.696	212.4	6.944	23.86	29.02	0
6/22/21 20:17	4.672	215.6	9.29	23.56	29.02	0
6/22/21 20:30	2.689	221.8	13.32	23.2	29.02	0
6/22/21 20:59	3.956	245.4	10.29	22.61	29.02	0
6/22/21 21:01	5.946	255.5	9.93	21.99	29.02	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
6/22/21 21:16	4.907	261.3	7.708	21.45	29.02	0
6/22/21 21:42	3.419	247.8	10.7	21.12	29.02	0
6/22/21 21:45	2.323	290.1	20.18	20.45	29.04	0
6/22/21 22:12	2.366	258.4	9.09	20.13	29.04	0
6/22/21 22:27	3.369	240.3	25.82	19.79	29.04	0
6/22/21 22:36	3.369	208.7	9.1	19.57	29.04	0
6/22/21 22:45	2.068	218.9	12.93	19.34	29.03	0
6/22/21 23:11	2.841	201.7	21.54	18.85	29.03	0
6/22/21 23:27	2.963	190.8	5.539	18.48	29.03	0
6/22/21 23:43	4.129	185.3	5.507	18.08	29.03	0
6/22/21 23:59	5.887	199.7	6.978	17.92	29.04	0
6/23/21 0:02	6.229	199.5	5.348	17.56	29.04	0
6/23/21 0:15	5.163	195.4	5.031	17.07	29.04	0
6/23/21 0:39	4.387	200.7	11.81	16.71	29.04	0
6/23/21 0:46	4.318	216	8.26	16.42	29.05	0
6/23/21 1:12	4.539	210.1	4.771	16.02	29.05	0
6/23/21 1:19	3.235	224	13.18	15.74	29.05	0
6/23/21 1:30	2.478	222.5	8.72	15.47	29.05	0
6/23/21 1:56	3.328	214	14.19	15.26	29.08	0
6/23/21 2:14	3.031	209.7	8.97	15.02	29.08	0
6/23/21 2:15	3.523	191.4	12.15	14.99	29.08	0
6/23/21 2:41	4.281	190.4	10.13	14.98	29.08	0
6/23/21 2:49	4.3	172.6	6.665	14.72	29.08	0
6/23/21 3:10	5.969	187.1	7.599	14.48	29.08	0
6/23/21 3:18	5.095	196.7	9.47	14.25	29.08	0
6/23/21 3:31	4.656	183.3	10.24	14.13	29.08	0
6/23/21 3:54	4.808	178.8	9.73	14.08	29.09	0
6/23/21 4:11	6.864	180.9	7.902	14.08	29.09	0
6/23/21 4:21	6.965	176.1	9.94	14.01	29.09	0
6/23/21 4:42	6.261	176	12.82	13.97	29.09	0
6/23/21 4:47	6.252	188.2	10.18	13.94	29.11	0
6/23/21 5:13	5.473	185	11.46	13.94	29.11	0
6/23/21 5:26	5.304	186.9	10.3	14	29.11	0
6/23/21 5:37	5.238	202	11.62	14.02	29.11	0
6/23/21 5:49	4.987	181.9	13.49	14.07	29.11	0
6/23/21 6:02	4.602	177.4	10.58	14.17	29.11	0
6/23/21 6:18	3.797	177.1	12.35	14.37	29.11	0
6/23/21 6:36	3.799	191.9	19	14.48	29.11	0
6/23/21 6:45	2.972	184.3	16.44	14.61	29.11	0
6/23/21 7:05	3.134	209.4	25.9	14.83	29.11	0
6/23/21 7:15	2.426	169.1	32.39	14.68	29.11	0
6/23/21 7:32	3.526	212.7	27.11	14.8	29.11	0
6/23/21 7:45	2.556	226.2	38.76	14.85	29.14	0
6/23/21 8:13	4.405	214.2	19.07	14.83	29.14	0
6/23/21 8:15	3.92	182.1	27.69	14.92	29.14	0
6/23/21 8:43	3.915	185.1	16.14	15.03	29.14	0
6/23/21 8:51	4.409	175.2	22.06	15.23	29.16	0
6/23/21 9:14	4.202	203.6	25.64	15.45	29.16	0
6/23/21 9:25	4.539	184	15.94	15.33	29.16	0
6/23/21 9:35	5.497	172.4	22.27	16	29.16	0
6/23/21 9:53	5.536	176.2	34.19	16.17	29.16	0
6/23/21 10:03	5.518	180.7	16.18	16.3	29.16	0
6/23/21 10:21	4.723	174.9	33.87	16.79	29.16	0
6/23/21 10:30	4.098	185.4	34.96	17.14	29.16	0
6/23/21 10:50	4.137	159.6	38.67	17.97	29.17	0
6/23/21 11:03	3.258	185.4	39.17	18.69	29.17	0
6/23/21 11:19	4.066	184.5	29.05	19.39	29.17	0
6/23/21 11:39	5.264	192.4	28.29	20.31	29.17	0
6/23/21 11:58	4.516	207.3	29.02	20.69	29.15	0
6/23/21 12:03	3.522	188.8	54.21	21.53	29.15	0
6/23/21 12:20	4.355	201.6	31.38	21.97	29.15	0
6/23/21 12:32	4.119	202.3	31.72	22.55	29.15	0
6/23/21 12:50	4.77	210.4	24.1	23.11	29.15	0
6/23/21 13:10	2.226	247.3	37.23	23.95	29.15	0
6/23/21 13:27	3.176	300.9	32.09	23.97	29.15	0
6/23/21 13:44	4.496	251.9	40.15	24.51	29.15	0
6/23/21 13:51	4.266	172.7	27.6	24.85	29.15	0
6/23/21 14:05	4.035	220.2	48.31	25.07	29.15	0
6/23/21 14:28	3.789	256.6	57.11	25.22	29.15	0
6/23/21 14:31	7.079	241.5	23.11	25.56	29.15	0
6/23/21 14:48	6.943	245.8	18.37	25	29.14	0
6/23/21 15:07	7.068	253.8	13.9	25.02	29.14	0
6/23/21 15:21	6.84	263.6	21.98	25.09	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
6/23/21 15:33	5.842	252.9	17.42	25.51	29.14	0
6/23/21 15:47	5.567	265.2	22.68	25.95	29.14	0
6/23/21 16:07	6.096	264.4	21.02	25.97	29.14	0
6/23/21 16:29	5.511	258.1	15.19	25.8	29.14	0
6/23/21 16:43	6.185	262.9	19.25	25.8	29.14	0
6/23/21 16:49	5.21	262.5	22.57	25.9	29.15	0
6/23/21 17:01	3.781	261.2	24.39	25.79	29.15	0
6/23/21 17:16	3.261	249	30.24	25.94	29.15	0
6/23/21 17:43	3.873	251.7	25.07	25.96	29.15	0
6/23/21 17:59	2.805	282.4	24.21	25.94	29.13	0
6/23/21 18:06	3.418	258.1	32.51	25.84	29.13	0
6/23/21 18:15	1.999	279.3	19.97	25.96	29.13	0
6/23/21 18:34	2.634	247	10.08	25.67	29.13	0
6/23/21 18:49	3.26	215.9	15.79	25.27	29.13	0
6/23/21 19:09	2.677	217.8	17.91	25.23	29.13	0
6/23/21 19:15	2.14	225.8	17.58	24.95	29.13	0
6/23/21 19:40	3.27	287.1	12.15	24.29	29.13	0
6/23/21 19:45	3.035	292.7	6.499	23.56	29.17	0
6/23/21 20:14	2.736	315.5	7.853	22.79	29.17	0
6/23/21 20:28	2.962	329.2	7.739	22.34	29.17	0
6/23/21 20:30	2.506	321.5	4.951	22.29	29.17	0
6/23/21 20:45	0.817	326.7	0.606	21.69	29.17	0
6/23/21 21:01	1.039	324.2	2.851	21.68	29.17	0
6/23/21 21:15	0.062	320.6	0.119	20.98	29.17	0
6/23/21 21:44	0.623	43.38	4.447	19.61	29.17	0
6/23/21 21:45	1.041	70.86	1.665	19.43	29.18	0
6/23/21 22:04	0.456	68.25	0.042	19.77	29.18	0
6/23/21 22:29	1.218	47.63	7.893	19.75	29.18	0
6/23/21 22:42	3.11	43.14	10.8	19.49	29.18	0
6/23/21 22:48	1.461	50.62	15.58	19.41	29.19	0
6/23/21 23:02	1.685	76.54	40.75	18.74	29.19	0
6/23/21 23:18	2.502	22.1	11.53	18.25	29.19	0
6/23/21 23:44	1.58	35.52	14.1	17.78	29.19	0
6/23/21 23:49	0.693	70.37	3.785	17.9	29.19	0
6/24/21 0:14	2.625	151.2	11.85	18.13	29.19	0
6/24/21 0:26	4.408	142.2	5.151	17.16	29.19	0
6/24/21 0:31	3.545	156.2	9.27	16.71	29.19	0
6/24/21 0:45	2.515	140	14.93	16.62	29.22	0
6/24/21 1:14	4.162	138.1	5.218	16.28	29.22	0
6/24/21 1:15	4.558	165.8	8.86	16.4	29.22	0
6/24/21 1:31	4.139	159	5.77	16.21	29.22	0
6/24/21 1:46	4.061	173.9	5.236	16.38	29.22	0
6/24/21 2:00	3.002	163.5	7.819	16.11	29.22	0
6/24/21 2:29	1.832	145.8	6.848	16.05	29.22	0
6/24/21 2:35	3.519	164.4	6.17	15.79	29.22	0
6/24/21 2:49	3.05	171.9	4.371	16.05	29.23	0
6/24/21 3:06	2.785	177.7	5.284	16.15	29.23	0
6/24/21 3:17	2.135	183.5	3.796	16.21	29.23	0
6/24/21 3:34	1.021	149.8	10.02	16.02	29.23	0
6/24/21 3:59	0.131	145.3	0.158	15.74	29.22	0
6/24/21 4:13	2.646	164.6	11.06	15.54	29.22	0
6/24/21 4:22	3.69	185.8	6.786	15.41	29.22	0
6/24/21 4:44	3.392	190.4	4.169	15.3	29.22	0
6/24/21 4:46	3.859	177.1	3.733	15.17	29.24	0
6/24/21 5:01	2.819	175.5	4.104	15.16	29.24	0
6/24/21 5:26	3.254	170.8	10.63	15.35	29.24	0
6/24/21 5:35	2.547	145.6	9.59	15.65	29.24	0
6/24/21 5:47	2.025	194	18.31	15.97	29.23	0
6/24/21 6:13	1.417	244.5	34.97	16.27	29.23	0
6/24/21 6:15	1.182	308.7	15.71	17.14	29.23	0
6/24/21 6:44	0.718	36.44	33.75	17.68	29.23	0
6/24/21 6:48	1.648	203.7	67.28	17.81	29.24	0
6/24/21 7:09	1.566	230	32.13	18.24	29.24	0
6/24/21 7:28	1.509	273.5	36.9	18.99	29.24	0
6/24/21 7:44	2.377	230.4	38.98	19.08	29.24	0
6/24/21 7:58	3.087	224.1	42.02	19.5	29.25	0
6/24/21 8:07	3.585	193.7	23.21	19.88	29.25	0
6/24/21 8:18	2.215	270.9	56.34	20.73	29.25	0
6/24/21 8:44	2.245	234	43.25	21.41	29.25	0
6/24/21 8:55	2.696	195.1	37.27	21.68	29.26	0
6/24/21 9:02	3.932	213.5	35.21	22.38	29.26	0
6/24/21 9:27	2.772	201.6	44.48	23.07	29.26	0
6/24/21 9:30	3.251	314	42.41	23.35	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
6/24/21 9:49	4.247	260.1	48.89	23.76	29.24	0
6/24/21 10:12	4.344	317.9	27.58	24.69	29.24	0
6/24/21 10:15	4.98	290	24.85	25.09	29.24	0
6/24/21 10:34	6.695	289.8	17.78	25.69	29.24	0
6/24/21 10:55	7.676	277.8	15.94	25.62	29.25	0
6/24/21 11:14	7.383	281.6	19.38	26.18	29.25	0
6/24/21 11:16	8.07	291	22.03	26.16	29.25	0
6/24/21 11:44	6.395	270	20.86	26.86	29.25	0
6/24/21 11:46	6.478	290.4	29.64	27.08	29.23	0
6/24/21 12:04	7.128	265.7	24.91	27.02	29.23	0
6/24/21 12:15	7.273	272.8	26.27	27.47	29.23	0
6/24/21 12:38	9.98	273	14.83	27.63	29.23	0
6/24/21 12:46	7.73	272.6	19.43	27.91	29.25	0
6/24/21 13:09	9.88	273.8	13.22	28.13	29.25	0
6/24/21 13:21	10.37	285.4	13.62	28.05	29.25	0
6/24/21 13:37	9.08	288.9	16.6	28.43	29.25	0
6/24/21 13:54	8.62	294.8	18.07	28.83	29.22	0
6/24/21 14:08	9.02	301.5	14.96	28.87	29.22	0
6/24/21 14:23	10.75	294.9	10.64	28.75	29.22	0
6/24/21 14:39	10.03	294.3	12.29	28.86	29.22	0
6/24/21 14:47	8.49	297.8	16.85	29.01	29.22	0
6/24/21 15:13	9.12	295	17.07	29.23	29.22	0
6/24/21 15:21	8.7	305.3	15.69	28.99	29.22	0
6/24/21 15:34	7.509	299.1	23.86	28.94	29.22	0
6/24/21 15:47	9.18	290.7	17.43	29.36	29.21	0
6/24/21 16:03	7.418	287.7	15.52	29.56	29.21	0
6/24/21 16:15	7.021	297.9	16.74	29.57	29.21	0
6/24/21 16:38	7.552	297.7	13.07	29.37	29.21	0
6/24/21 16:57	8.36	312.9	15.71	29.32	29.22	0
6/24/21 17:02	8.73	313.3	9.89	28.9	29.22	0
6/24/21 17:24	7.403	301.9	10.78	28.99	29.22	0
6/24/21 17:43	7.741	312.5	14.12	28.81	29.22	0
6/24/21 17:53	7.784	317.6	10.25	28.45	29.22	0
6/24/21 18:04	7.101	299.8	10.7	28.29	29.22	0
6/24/21 18:20	8.46	298.8	7.36	27.76	29.22	0
6/24/21 18:34	9.01	295	7.4	27.24	29.22	0
6/24/21 18:53	8.43	289.7	7.714	26.71	29.2	0
6/24/21 19:00	7.73	299	7.377	26.18	29.2	0
6/24/21 19:16	6.255	298.4	6.891	25.68	29.2	0
6/24/21 19:33	6.182	293.3	4.156	25.07	29.2	0
6/24/21 19:58	6.678	293.1	3.831	24.64	29.22	0
6/24/21 20:07	6.519	299.8	5.521	24.3	29.22	0
6/24/21 20:23	7.984	307.1	7.762	24.18	29.22	0
6/24/21 20:36	7.613	318	11.18	23.97	29.22	0
6/24/21 20:51	5.069	338.4	18.29	23.5	29.23	0
6/24/21 21:10	7.822	337.8	10.11	23.55	29.23	0
6/24/21 21:19	7.711	342.6	12.42	23.24	29.23	0
6/24/21 21:43	7.109	12.63	11.82	22.35	29.23	0
6/24/21 21:58	9.36	11.01	10	22.2	29.21	0
6/24/21 22:10	10.67	4.492	10.69	22.34	29.21	0
6/24/21 22:24	8.98	11.9	17.35	22.22	29.21	0
6/24/21 22:32	8.26	27.54	10.04	21.69	29.21	0
6/24/21 22:58	10.32	18.98	11.24	21.81	29.21	0
6/24/21 23:11	12.78	5.654	8.58	22.04	29.21	0
6/24/21 23:20	13.39	9.09	7.281	21.97	29.21	0
6/24/21 23:30	11.61	10.35	10.58	21.99	29.21	0
6/24/21 23:46	9.45	0.708	11.13	21.8	29.22	0
6/25/21 0:07	9.7	1.008	10.7	21.53	29.22	0
6/25/21 0:21	10.15	2.094	8.52	21.65	29.22	0
6/25/21 0:32	7.123	359.1	11.78	21.52	29.22	0
6/25/21 0:59	6.208	12.83	7.403	20.04	29.22	0
6/25/21 1:13	6.39	8.89	7.308	19.57	29.22	0
6/25/21 1:17	6.883	18.74	6.259	19.15	29.22	0
6/25/21 1:41	5.901	20.87	6.518	18.9	29.22	0
6/25/21 1:47	7.504	9.43	9.41	18.9	29.23	0
6/25/21 2:00	4.444	23.24	11.95	18.94	29.23	0
6/25/21 2:29	2.031	46.98	18.65	18.35	29.23	0
6/25/21 2:44	4.757	51.16	9.92	18.31	29.23	0
6/25/21 2:49	7.896	38.73	12.08	18.13	29.22	0
6/25/21 3:00	5.372	40.04	12.71	18.2	29.22	0
6/25/21 3:26	3.656	28.64	13.14	18.58	29.22	0
6/25/21 3:44	3.394	28.46	9.15	18.5	29.22	0
6/25/21 3:45	0.955	11.47	48.71	18.35	29.22	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
6/25/21 4:12	0.756	75.19	48.12	18.17	29.22	0
6/25/21 4:16	0.818	57.87	63.94	17.89	29.22	0
6/25/21 4:36	1.379	317.4	14.95	18.34	29.22	0
6/25/21 4:52	1.01	344.9	34.66	18.95	29.22	0
6/25/21 5:05	2.179	64.55	10.73	19.59	29.22	0
6/25/21 5:24	2.75	59.95	8.69	19.77	29.22	0
6/25/21 5:35	3.046	8.83	24.8	19.49	29.22	0
6/25/21 5:50	3.142	12.95	43.28	19.97	29.25	0
6/25/21 6:12	1.842	70.08	15.83	20.64	29.25	0
6/25/21 6:25	1.217	21.98	28.1	21.47	29.25	0
6/25/21 6:35	2.594	183.9	65.08	21.06	29.25	0
6/25/21 6:52	2.464	12.24	44.07	21.72	29.24	0
6/25/21 7:13	3.587	26.1	19.66	22.21	29.24	0
6/25/21 7:28	4.19	35.35	11.61	22.48	29.24	0
6/25/21 7:30	3.835	36.65	14.87	22.86	29.24	0
6/25/21 7:51	3.018	42.09	18.17	23.2	29.25	0
6/25/21 8:04	4.375	27.78	11.94	23.71	29.25	0
6/25/21 8:19	4.146	28.58	15.4	24.08	29.25	0
6/25/21 8:31	4.357	37.61	19.16	24.39	29.25	0
6/25/21 8:54	2.662	58.05	43.93	25.01	29.25	0
6/25/21 9:12	4.082	20.96	19.35	25.34	29.25	0
6/25/21 9:28	4.429	28.71	19.41	25.53	29.25	0
6/25/21 9:43	6.642	38.66	13.72	25.98	29.25	0
6/25/21 9:56	6.956	33.97	14.13	26.1	29.25	0
6/25/21 10:08	6.716	34.95	13.99	26.66	29.25	0
6/25/21 10:18	4.92	51.63	18.92	26.95	29.25	0
6/25/21 10:42	5.494	3.379	25.44	27.35	29.25	0
6/25/21 10:45	4.195	34.6	26.37	27.83	29.21	0
6/25/21 11:12	3.998	354.9	40.24	28.36	29.21	0
6/25/21 11:20	4.99	288.3	25.1	28.43	29.21	0
6/25/21 11:34	6.449	284.6	24.67	28.74	29.21	0
6/25/21 11:51	7.245	250.6	21.68	28.89	29.21	0
6/25/21 12:02	7.552	258.5	18.6	29.28	29.21	0
6/25/21 12:16	7.452	273.3	16.2	29.45	29.21	0
6/25/21 12:32	7.415	253.9	25.11	29.64	29.21	0
6/25/21 12:47	5.853	268.4	26.83	30.2	29.19	0
6/25/21 13:07	7.54	282.9	19.71	30.75	29.19	0
6/25/21 13:15	5.328	295.8	22.67	31.13	29.19	0
6/25/21 13:39	4.915	348.1	42.44	31.4	29.19	0
6/25/21 13:59	5.935	28.57	23.98	31.84	29.2	0
6/25/21 14:06	6.681	14.05	25.2	31.98	29.2	0
6/25/21 14:21	7.815	28.49	15.33	32.14	29.2	0
6/25/21 14:34	8.58	18.34	14.84	32.14	29.2	0
6/25/21 14:53	6.827	9.97	27.06	32.46	29.19	0
6/25/21 15:01	6.508	18.6	13.26	32.39	29.19	0
6/25/21 15:18	4.684	337.9	28.35	33.25	29.19	0
6/25/21 15:32	7.16	346.5	20.87	32.93	29.19	0
6/25/21 15:46	7.575	305.4	21.19	33.46	29.16	0
6/25/21 16:03	7.522	310.7	14.41	33.49	29.16	0
6/25/21 16:23	6.862	320.4	19.94	33.59	29.16	0
6/25/21 16:30	8.12	310	14.16	33.51	29.16	0
6/25/21 16:56	6.301	309.5	13.58	33.39	29.18	0
6/25/21 17:06	7.617	296.8	18.44	32.94	29.18	0
6/25/21 17:26	6.241	315.6	11.26	32.8	29.18	0
6/25/21 17:44	6.797	313.5	12.55	32.48	29.18	0
6/25/21 17:45	5.722	323.5	22.8	32.18	29.16	0
6/25/21 18:00	5.576	326.8	10.7	31.99	29.16	0
6/25/21 18:17	5.82	312.9	7.645	31.83	29.16	0
6/25/21 18:35	6.303	314.1	6.705	31.46	29.16	0
6/25/21 18:46	6.549	315.2	5.524	31.03	29.16	0
6/25/21 19:01	5.712	315.7	4.509	30.76	29.16	0
6/25/21 19:15	4.307	319.1	4.583	30.38	29.16	0
6/25/21 19:32	4.881	337.8	9.58	29.58	29.16	0
6/25/21 19:54	5.123	1.797	8.13	29.08	29.15	0
6/25/21 20:01	6.9	4.815	3.708	28.47	29.15	0
6/25/21 20:23	6.893	9.49	4.613	27.99	29.15	0
6/25/21 20:39	5.605	12.69	21.21	27.97	29.15	0
6/25/21 20:56	1.228	38.17	60.23	26.91	29.16	0
6/25/21 21:00	0.564	299.3	14.76	26.69	29.16	0
6/25/21 21:17	1.419	342	13.84	26.78	29.16	0
6/25/21 21:36	3.855	24.85	7.572	26.25	29.16	0
6/25/21 21:54	5.021	23.35	5.014	25.95	29.18	0
6/25/21 22:06	4.035	23.48	4.69	25.4	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
6/25/21 22:23	3.322	62.27	27.52	24.92	29.18	0
6/25/21 22:41	3.137	110.7	34.18	24.48	29.18	0
6/25/21 22:52	3.609	165	6.455	25.68	29.18	0
6/25/21 23:00	1.712	120.4	32.3	25.8	29.18	0
6/25/21 23:27	1.411	96.1	43.33	24.77	29.18	0
6/25/21 23:31	3.163	163	17.98	24.22	29.18	0
6/25/21 23:46	2.86	160.5	12.17	25.2	29.17	0
6/26/21 0:06	3.352	124.9	15.32	24.88	29.17	0
6/26/21 0:20	1.353	79.51	10.67	24.58	29.17	0
6/26/21 0:41	0.572	108.4	26.68	24.44	29.17	0
6/26/21 0:53	3.185	132.3	14.44	24.39	29.17	0
6/26/21 1:10	3.322	111.7	9.26	23.87	29.17	0
6/26/21 1:15	3.653	107.7	5.985	23.5	29.17	0
6/26/21 1:30	2.609	117	13.76	23.86	29.17	0
6/26/21 1:45	1.496	126.2	8.85	24.32	29.19	0
6/26/21 2:01	1.021	131.9	15.98	24.22	29.19	0
6/26/21 2:15	0.012	101.7	0.005	24.08	29.19	0
6/26/21 2:36	0.324	330.6	9.16	24.26	29.19	0
6/26/21 2:50	0.604	8.55	3.965	24.12	29.19	0
6/26/21 3:14	0.206	49.9	0.457	23.97	29.19	0
6/26/21 3:22	1.573	61.08	10.89	23.13	29.19	0
6/26/21 3:42	2.335	98.7	6.974	23.12	29.19	0
6/26/21 3:46	2.884	77.02	10.96	23.22	29.18	0
6/26/21 4:14	2.619	70.99	3.386	22.87	29.18	0
6/26/21 4:28	2.784	62.53	9.04	23.2	29.18	0
6/26/21 4:32	3.005	36.99	5.872	22.7	29.18	0
6/26/21 4:59	3.482	20.54	9.03	22.69	29.2	0
6/26/21 5:01	3.941	28.94	7.081	23.03	29.2	0
6/26/21 5:28	3.334	10.61	5.776	23.21	29.2	0
6/26/21 5:31	2.785	349.3	10.65	24.08	29.2	0
6/26/21 5:59	2.063	10.61	16.87	24.66	29.2	0
6/26/21 6:04	2.856	44.92	5.788	23.75	29.2	0
6/26/21 6:28	2.697	17.11	14.88	25.13	29.2	0
6/26/21 6:37	5.223	21.39	11.69	24.22	29.2	0
6/26/21 6:59	5.436	19.17	12.78	24.78	29.22	0
6/26/21 7:02	7.1	31.84	7.297	25.18	29.22	0
6/26/21 7:25	5.248	26.25	13.66	26.04	29.22	0
6/26/21 7:30	3.042	23.29	16.13	26.96	29.22	0
6/26/21 7:49	3.149	20.84	16.52	28.11	29.21	0
6/26/21 8:00	0.884	340.7	31.98	29.45	29.21	0
6/26/21 8:15	1.524	256.5	29.61	30.41	29.21	0
6/26/21 8:43	1.53	206.4	58.54	31.2	29.21	0
6/26/21 8:58	3.419	30.97	36.78	31.95	29.21	0
6/26/21 9:00	4.134	25.8	22.89	32.15	29.21	0
6/26/21 9:20	2.82	25.55	21.74	33.02	29.21	0
6/26/21 9:41	2.403	336.8	53.84	34.11	29.21	0
6/26/21 9:45	3.295	21.68	21.76	34.31	29.2	0
6/26/21 10:06	3.769	39.7	56.54	34.97	29.2	0
6/26/21 10:26	3.918	272.3	69.67	35.42	29.2	0
6/26/21 10:42	3.987	277.9	17.76	35.58	29.2	0
6/26/21 10:47	3.512	303.3	44.33	36.25	29.21	0
6/26/21 11:03	3.878	316	29.09	36.78	29.21	0
6/26/21 11:21	5.495	275.8	11.87	37.4	29.21	0
6/26/21 11:35	6.552	270.7	9.46	37.54	29.21	0
6/26/21 11:56	7.485	269.5	10.4	37.88	29.18	0
6/26/21 12:06	7.854	268.9	9.86	38.07	29.18	0
6/26/21 12:28	8.04	269	9.66	38.45	29.18	0
6/26/21 12:30	8.25	272.7	9.62	38.92	29.18	0
6/26/21 12:55	8.68	276.7	17.8	39.76	29.18	0
6/26/21 13:10	9.33	290.6	13.93	40.53	29.18	0
6/26/21 13:15	8.36	285.2	14.49	41.24	29.18	0
6/26/21 13:42	8.76	299.7	12.88	41.87	29.18	0
6/26/21 13:48	8.67	306	16.46	42.11	29.17	0
6/26/21 14:14	10.31	298.6	12.57	42.53	29.17	0
6/26/21 14:26	11.18	298.4	11.03	42.49	29.17	0
6/26/21 14:38	12.25	302.9	11.25	42.32	29.17	0
6/26/21 14:58	12.9	292.8	7.611	42.11	29.14	0
6/26/21 15:03	12.67	301.2	8.98	42.19	29.14	0
6/26/21 15:22	11.64	299.3	9.35	42.52	29.14	0
6/26/21 15:40	12.04	296.8	8.64	42.59	29.14	0
6/26/21 15:47	10.38	303.8	10.81	42.72	29.13	0
6/26/21 16:02	10.58	308.8	9.12	42.58	29.13	0
6/26/21 16:26	11.14	299.9	9.67	42.53	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
6/26/21 16:39	11.72	297.8	10.01	42.62	29.13	0
6/26/21 16:45	11.23	300.7	7.36	42.39	29.13	0
6/26/21 17:12	10.13	308.3	10.48	42.1	29.13	0
6/26/21 17:18	10.35	318	6.856	41.57	29.13	0
6/26/21 17:31	9.4	318.1	7.598	41.18	29.13	0
6/26/21 17:57	6.259	337.6	13.08	40.92	29.11	0
6/26/21 18:12	7.169	337.2	12.08	40.51	29.11	0
6/26/21 18:26	7.513	356.8	11.68	39.31	29.11	0
6/26/21 18:30	7.688	345.2	13.6	38.82	29.11	0
6/26/21 18:55	7.069	340.6	9.87	38.32	29.11	0
6/26/21 19:09	6.874	2.432	18.65	37.47	29.11	0
6/26/21 19:15	4.019	324.8	45.54	37.18	29.11	0
6/26/21 19:39	3.032	350.9	28.82	37.14	29.11	0
6/26/21 19:48	2.226	23.89	38.85	36.48	29.11	0
6/26/21 20:14	4.507	36.51	12.74	35.06	29.11	0
6/26/21 20:21	4.53	39.05	17.55	34.26	29.11	0
6/26/21 20:42	4.55	36.7	13.99	33.29	29.11	0
6/26/21 20:48	2.772	30.16	15.83	32.43	29.12	0
6/26/21 21:13	2.257	310.6	62.9	32.21	29.12	0
6/26/21 21:23	2.057	1.909	20.27	31.19	29.12	0
6/26/21 21:43	1.423	26.52	19.06	30.48	29.12	0
6/26/21 21:55	3.632	20.11	19.3	30.53	29.13	0
6/26/21 22:00	6.106	23.85	6.356	30.13	29.13	0
6/26/21 22:16	5.877	25.26	4.287	28.91	29.13	0
6/26/21 22:41	5.444	26.22	6.257	28.69	29.13	0
6/26/21 22:56	4.691	37.77	6.66	28.42	29.14	0
6/26/21 23:06	5.095	43.21	5.635	28.21	29.14	0
6/26/21 23:24	6.515	38.24	8.21	28.41	29.14	0
6/26/21 23:30	7.078	35.51	6.227	27.83	29.14	0
6/26/21 23:52	6.193	43.52	6.262	27.39	29.13	0
6/27/21 0:02	5.299	55.07	13.88	27.76	29.13	0
6/27/21 0:19	4.271	78.52	9.24	28.56	29.13	0
6/27/21 0:38	3.88	87.3	8.6	29.3	29.13	0
6/27/21 0:45	3.152	72.53	8.72	29.32	29.11	0
6/27/21 1:08	1.803	41.21	9.01	29.07	29.11	0
6/27/21 1:24	6.504	250.4	18.26	27.25	29.11	0
6/27/21 1:30	5.237	231.8	7.718	27.45	29.11	0
6/27/21 1:45	3.301	261.1	19.53	27.17	29.14	0
6/27/21 2:05	2.85	302	9.16	26.93	29.14	0
6/27/21 2:15	2.311	291.3	6.548	27.02	29.14	0
6/27/21 2:36	1.84	233.9	25.19	27.45	29.14	0
6/27/21 2:56	1.623	152.7	32.39	27.02	29.12	0
6/27/21 3:12	2.64	101.8	19.91	25.74	29.12	0
6/27/21 3:18	2.516	73.18	10.18	25.32	29.12	0
6/27/21 3:44	2.866	22.87	10.42	25.83	29.12	0
6/27/21 3:56	4.743	23.55	6.412	24.63	29.12	0
6/27/21 4:12	5.796	11.98	9.26	24.51	29.12	0
6/27/21 4:15	4.78	17.12	7.548	24.05	29.12	0
6/27/21 4:31	4.568	11.31	6.083	23.62	29.12	0
6/27/21 4:57	4.48	24.68	9.5	23.97	29.13	0
6/27/21 5:14	4.551	24.79	14.89	24.36	29.13	0
6/27/21 5:24	6.49	22.7	10.03	24.92	29.13	0
6/27/21 5:41	6.526	20.41	8.97	24.64	29.13	0
6/27/21 5:52	6.625	30.44	9.12	24.45	29.13	0
6/27/21 6:01	6.53	34.09	10.78	24.94	29.13	0
6/27/21 6:20	7.862	25.94	8.63	25.19	29.13	0
6/27/21 6:31	5.927	24.53	7.52	26.25	29.13	0
6/27/21 6:54	5.77	19.76	9.72	27.02	29.14	0
6/27/21 7:00	3.48	14.11	20.14	28.27	29.14	0
6/27/21 7:26	2.343	358.3	22.37	29.59	29.14	0
6/27/21 7:44	3.309	342.4	28.22	30.39	29.14	0
6/27/21 7:50	3.676	11.24	30.16	30.13	29.13	0
6/27/21 8:12	2.265	314.5	42.28	31.18	29.13	0
6/27/21 8:24	2.002	359.3	42.06	32.12	29.13	0
6/27/21 8:40	2.128	42.04	26.81	32.99	29.13	0
6/27/21 8:47	2.351	42.12	23.19	33.5	29.11	0
6/27/21 9:09	3.594	14.21	21.58	34.13	29.11	0
6/27/21 9:27	4.821	32.68	14.02	34.08	29.11	0
6/27/21 9:30	5.68	26.9	9.03	34.94	29.11	0
6/27/21 9:53	7.255	26.1	8.59	35.75	29.11	0
6/27/21 10:10	7.602	20.46	10.22	36.66	29.11	0
6/27/21 10:16	8.29	19.46	8.87	37.3	29.11	0
6/27/21 10:43	8.87	20.41	9.45	37.75	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
6/27/21 10:49	11.32	14.09	10.14	38.19	29.07	0
6/27/21 11:12	11.08	10.3	9.31	38.47	29.07	0
6/27/21 11:28	10.17	19.74	13.11	39.28	29.07	0
6/27/21 11:40	11.36	17.59	12.83	39.52	29.07	0
6/27/21 11:59	9.93	12.6	13.08	40.32	29.06	0
6/27/21 12:04	14.08	13.34	15.23	39.81	29.06	0
6/27/21 12:27	11.54	23.76	18.73	40.33	29.06	0
6/27/21 12:30	12.83	29.51	20.02	40.43	29.06	0
6/27/21 12:54	16.42	22.38	15.9	41.16	29.03	0
6/27/21 13:00	9.73	16.06	18.73	41.48	29.03	0
6/27/21 13:21	10.87	13.36	20.55	42.45	29.03	0
6/27/21 13:37	9.11	1.781	32.74	43.3	29.03	0
6/27/21 13:48	8.54	24.09	31.77	43.11	29.03	0
6/27/21 14:14	10.7	66	33.24	46.6	29.03	0
6/27/21 14:28	9.02	83.7	59.13	46.99	29.03	0
6/27/21 14:36	10.04	80.1	32.14	47.39	29.03	0
6/27/21 14:45	11	75.85	20.81	47.56	29.01	0
6/27/21 15:03	7.964	139.9	94.1	47.86	29.01	0
6/27/21 15:29	6.653	315.3	63.7	47.53	29.01	0
6/27/21 15:34	8.96	299.4	14.45	46.41	29.01	0
6/27/21 15:53	8.85	302.5	21.27	46.42	29.01	0
6/27/21 16:11	9.15	325.6	30.82	46.26	29.01	0
6/27/21 16:27	8.98	43.79	37.33	46.71	29.01	0
6/27/21 16:35	8.94	49.41	17.89	45.97	29.01	0
6/27/21 16:46	11.45	56.14	20.24	46.66	28.97	0
6/27/21 17:03	10.29	69.64	22.95	46.75	28.97	0
6/27/21 17:24	11.77	65.43	21.28	46.38	28.97	0
6/27/21 17:43	10.26	41.09	13.98	43.87	28.97	0
6/27/21 17:47	12.19	20.31	13.01	41.99	28.99	0
6/27/21 18:03	13.48	15.74	9.08	41.22	28.99	0
6/27/21 18:15	11.08	17.5	8.35	40.58	28.99	0
6/27/21 18:37	11.75	14.67	12.09	40.12	28.99	0
6/27/21 18:49	10.65	13.54	12.75	39.73	28.97	0
6/27/21 19:14	11.2	11.46	9.69	39.09	28.97	0
6/27/21 19:24	10.82	9.29	11.15	38.65	28.97	0
6/27/21 19:30	9.46	8.87	12.45	38.11	28.97	0
6/27/21 19:45	6.614	27.18	19.3	37.62	28.98	0
6/27/21 20:13	8.83	24.98	8.61	37.1	28.98	0
6/27/21 20:18	7.819	21.56	7.757	36.82	28.98	0
6/27/21 20:33	5.78	25.67	6.861	35.46	28.98	0
6/27/21 20:53	4.753	57.1	18.3	36.05	29.01	0
6/27/21 21:12	2.722	144	16.3	36.56	29.01	0
6/27/21 21:15	2.44	147.9	6.562	35.81	29.01	0
6/27/21 21:38	1.489	99.8	20.16	35.26	29.01	0
6/27/21 21:45	0.966	85.1	0.425	34.63	29.01	0
6/27/21 22:13	1.857	44.68	20.76	34.8	29.01	0
6/27/21 22:20	3.043	32	8.45	34.17	29.01	0
6/27/21 22:40	1.733	27.56	7.73	33.12	29.01	0
6/27/21 22:59	3.248	29.06	8.4	31.89	29.01	0
6/27/21 23:13	5.499	29.5	6.809	31.52	29.01	0
6/27/21 23:16	5.073	22.66	3.356	31.48	29.01	0
6/27/21 23:42	6.021	23.88	4.353	31.2	29.01	0
6/27/21 23:47	6.289	21.55	5.829	30.79	29	0
6/28/21 0:08	6.036	18.78	6.414	30.07	29	0
6/28/21 0:19	6.662	15.41	7.119	29.85	29	0
6/28/21 0:33	7.116	18.79	5.714	30.06	29	0
6/28/21 0:45	6.302	18.55	6.862	30.49	29.01	0
6/28/21 1:08	6.447	11.62	7.214	30.09	29.01	0
6/28/21 1:27	6.826	13.96	6.359	29.21	29.01	0
6/28/21 1:36	6.875	15.17	6.378	28.43	29.01	0
6/28/21 1:45	6.666	14.22	6.914	28.47	29.01	0
6/28/21 2:12	5.783	20.74	7.706	28.34	29.01	0
6/28/21 2:20	6.581	23.59	6.691	28.05	29.01	0
6/28/21 2:30	5.947	17.73	12.59	28.34	29.01	0
6/28/21 2:49	5.727	35.09	10.57	30.13	29.01	0
6/28/21 3:12	6.724	36.52	6.888	29.68	29.01	0
6/28/21 3:29	7.05	51.23	9.24	30.3	29.01	0
6/28/21 3:37	7.161	47.13	8.36	30.68	29.01	0
6/28/21 3:58	6.812	48.97	10.34	30.34	29	0
6/28/21 4:06	6.674	43.05	8.16	31	29	0
6/28/21 4:17	5.017	29.8	9.06	33.56	29	0
6/28/21 4:42	2.615	18.05	20.2	35.18	29	0
6/28/21 4:59	2.806	313.8	77.64	36.69	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
6/28/21 5:10	2.125	75.48	90.1	37.79	28.99	0
6/28/21 5:16	3.371	88.5	40.48	38.37	28.99	0
6/28/21 5:37	4.039	106.1	26.32	37.37	28.99	0
6/28/21 5:58	8.23	102.1	10.26	37.1	28.99	0
6/28/21 6:06	8.08	91.5	13.96	35.85	28.99	0
6/28/21 6:17	8.52	86.2	15.41	34.96	28.99	0
6/28/21 6:31	8.81	92	12.85	35.88	28.99	0
6/28/21 6:51	10.17	97.9	11.93	37.27	28.99	0
6/28/21 7:05	7.493	90.8	13	38.25	28.99	0
6/28/21 7:25	5.573	67.44	16.63	37.95	28.99	0
6/28/21 7:40	5.188	59.73	18.88	37.52	28.99	0
6/28/21 7:55	4.722	54.58	21.77	37.45	28.99	0
6/28/21 8:13	4.926	36.21	8.67	37.2	28.99	0
6/28/21 8:24	5.075	31.13	13.75	37.26	28.99	0
6/28/21 8:39	5.26	27.27	13.71	37.68	28.99	0
6/28/21 8:58	7.349	18.28	18.39	38.05	28.96	0
6/28/21 9:00	7.033	17.74	16.72	38.88	28.96	0
6/28/21 9:18	6.136	43.22	21.42	40.16	28.96	0
6/28/21 9:37	8.73	34.91	14.68	40.11	28.96	0
6/28/21 9:48	7.587	51.09	26.03	41.21	28.97	0
6/28/21 10:11	9.91	73.9	24.69	43.27	28.97	0
6/28/21 10:24	15.1	90.1	23	45.52	28.97	0
6/28/21 10:30	10.2	56.53	29.31	43.23	28.97	0
6/28/21 10:45	8.4	39.83	21.08	43.03	28.97	0
6/28/21 11:13	8.04	34.7	17.71	42.66	28.97	0
6/28/21 11:28	11.22	67.68	29.88	44.95	28.97	0
6/28/21 11:38	12.02	87.6	21.95	47.46	28.97	0
6/28/21 11:52	11.56	89.4	16.85	47.84	28.95	0
6/28/21 12:08	11.68	90.9	17.53	47.92	28.95	0
6/28/21 12:18	12.08	90.1	19.3	48.2	28.95	0
6/28/21 12:31	12.66	80.1	19.32	48.26	28.95	0
6/28/21 12:53	12.56	90.1	19.66	48.48	28.93	0
6/28/21 13:00	12.15	99.6	15.71	49.01	28.93	0
6/28/21 13:16	10.17	84.2	20.28	49.11	28.93	0
6/28/21 13:41	12.05	76.6	18.24	48.92	28.93	0
6/28/21 13:48	11.43	87.2	18.11	49.21	28.92	0
6/28/21 14:06	11.9	88.6	14.7	49.43	28.92	0
6/28/21 14:27	12.95	87.2	18.87	49.63	28.92	0
6/28/21 14:32	10.89	96.1	18.68	49.98	28.92	0
6/28/21 14:53	10.81	77.48	26	49.85	28.91	0
6/28/21 15:04	11.77	97.5	19.15	50.18	28.91	0
6/28/21 15:17	5.802	38.98	35.17	48.92	28.91	0
6/28/21 15:40	7.415	17.66	17.54	48.33	28.91	0
6/28/21 15:52	10.08	12.84	12.66	47.7	28.87	0
6/28/21 16:00	9.95	13.2	12.93	47.39	28.87	0
6/28/21 16:22	10.16	9.33	12.28	47.15	28.87	0
6/28/21 16:30	9.61	13.47	12.72	47.22	28.87	0
6/28/21 16:49	10.12	6.391	14.42	47.51	28.86	0
6/28/21 17:09	10.19	19.67	18.28	46.46	28.86	0
6/28/21 17:18	10.82	8.44	11.77	46.16	28.86	0
6/28/21 17:39	9.1	15.74	9.66	45.25	28.86	0
6/28/21 17:48	10.26	13.74	9.71	44.52	28.86	0
6/28/21 18:09	9.86	16.55	9.31	43.99	28.86	0
6/28/21 18:18	10.43	15.75	8.75	43.39	28.86	0
6/28/21 18:40	8.9	23.25	9.11	42.68	28.86	0
6/28/21 18:58	8.53	19.77	10.28	42.15	28.87	0
6/28/21 19:12	10.19	17.9	10.14	41.58	28.87	0
6/28/21 19:21	8.97	12.83	9.72	41.09	28.87	0
6/28/21 19:33	7.425	12.07	11.3	40.7	28.87	0
6/28/21 19:52	6.581	10.99	12.68	39.87	28.87	0
6/28/21 20:01	5.306	16.96	8.9	39.31	28.87	0
6/28/21 20:23	7.647	10.93	5.402	39.14	28.87	0
6/28/21 20:41	7.35	7.161	6.904	38.65	28.87	0
6/28/21 20:45	6.243	15.68	7.566	37.64	28.89	0
6/28/21 21:02	7.906	11.87	8.77	36.72	28.89	0
6/28/21 21:17	6.41	11.44	8.85	36.18	28.89	0
6/28/21 21:30	5.71	23	8.05	35.16	28.89	0
6/28/21 21:48	6.453	27.12	7.395	34.43	28.87	0
6/28/21 22:01	5.266	42.56	7.901	34.32	28.87	0
6/28/21 22:24	6.444	35.28	7.265	35.14	28.87	0
6/28/21 22:30	2.811	35.88	34.76	35.29	28.87	0
6/28/21 22:46	3.873	232.7	14.89	34.36	28.9	0
6/28/21 23:03	4.615	277.3	27.37	32.5	28.9	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
6/28/21 23:16	4.365	196.5	9.55	30.73	28.9	0
6/28/21 23:43	5.356	204.7	11.2	29.78	28.9	0
6/28/21 23:57	7.511	212.7	7.173	28.67	28.93	0
6/29/21 0:15	7.505	212.2	5.897	28.01	28.93	0
6/29/21 0:27	9.87	207.4	5.047	27.08	28.93	0
6/29/21 0:31	9.48	208.9	7.89	26.03	28.93	0
6/29/21 0:54	8.04	188.3	8.61	24.8	28.96	0
6/29/21 1:12	8.53	184.9	7.155	23.75	28.96	0
6/29/21 1:29	7.898	179.3	7.111	22.7	28.96	0
6/29/21 1:39	10.15	175.8	6.006	21.76	28.96	0
6/29/21 1:50	9.89	187.1	9.08	21.03	29.01	0
6/29/21 2:13	9.7	186.6	8.5	20.6	29.01	0
6/29/21 2:21	9.38	190.6	7.688	20.39	29.01	0
6/29/21 2:30	7.298	190.1	4.804	20.07	29.01	0
6/29/21 2:59	5.419	173.8	8.97	19.69	29.03	0
6/29/21 3:02	6.977	183.4	17.93	19.78	29.03	0
6/29/21 3:16	6.241	198.7	7.222	20	29.03	0
6/29/21 3:31	5.098	210.9	12.19	19.93	29.03	0
6/29/21 3:46	4.243	216	6.3	19.85	29	0
6/29/21 4:00	2.869	198.2	15.98	19.62	29	0
6/29/21 4:16	3.084	183.1	9.19	19.29	29	0
6/29/21 4:44	4.112	192.2	3.219	19.44	29	0
6/29/21 4:58	4.852	196.5	3.856	19.59	29.02	0
6/29/21 5:00	4.509	192.5	7.458	19.8	29.02	0
6/29/21 5:20	3.432	194.1	10.16	19.97	29.02	0
6/29/21 5:42	4.313	200.1	11.21	20.2	29.02	0
6/29/21 5:58	4.352	192.7	14.17	20.41	29.01	0
6/29/21 6:06	4.879	186.3	14.36	20.65	29.01	0
6/29/21 6:21	4.165	179.3	14.49	20.81	29.01	0
6/29/21 6:33	2.927	208.9	35.15	21.4	29.01	0
6/29/21 6:47	2.938	144.8	50.78	21.88	29.02	0
6/29/21 7:06	2.739	187.5	38.71	22.35	29.02	0
6/29/21 7:25	2.681	222.9	29.97	22.64	29.02	0
6/29/21 7:42	2.089	213.1	37.04	23.38	29.02	0
6/29/21 7:53	2.609	211	41.11	23.88	29.01	0
6/29/21 8:01	3.027	217.7	29.99	24.35	29.01	0
6/29/21 8:17	4.497	230.9	32.82	25.08	29.01	0
6/29/21 8:36	3.874	281.6	22.63	25.37	29.01	0
6/29/21 8:50	3.835	269.8	17.84	25.82	29	0
6/29/21 9:06	4.788	235.3	28.5	26.11	29	0
6/29/21 9:30	4.044	213.1	27.56	26.58	29	0
6/29/21 9:38	5.138	270.1	26.23	27.05	29	0
6/29/21 9:56	5.929	255	24.11	27.37	28.98	0
6/29/21 10:08	5.771	269.5	20.48	27.78	28.98	0
6/29/21 10:22	6.29	263.7	20.73	27.97	28.98	0
6/29/21 10:37	8.44	269.6	11.26	28.33	28.98	0
6/29/21 10:59	8.18	267.9	12.74	28.1	28.98	0
6/29/21 11:02	8.72	268	11.18	28.26	28.98	0
6/29/21 11:26	9.5	267.5	11.14	28.35	28.98	0
6/29/21 11:38	8.88	275.5	15.93	28.44	28.98	0
6/29/21 11:56	8.43	274.7	19.1	28.67	28.97	0
6/29/21 12:03	9.15	278.9	16.77	29.19	28.97	0
6/29/21 12:16	7.692	256	24.24	29.51	28.97	0
6/29/21 12:30	6.137	245.1	34.44	29.96	28.97	0
6/29/21 12:45	7.863	261.3	19.43	30.46	28.97	0
6/29/21 13:01	7.137	214.9	31.94	30.55	28.97	0
6/29/21 13:23	6.36	214.1	27.6	31.08	28.97	0
6/29/21 13:32	6.797	225.6	23.84	31.33	28.97	0
6/29/21 13:48	7.222	227.8	32.72	31.2	28.96	0
6/29/21 14:13	8.12	233.8	21.78	31.51	28.96	0
6/29/21 14:27	8.75	249.4	14.13	31.64	28.96	0
6/29/21 14:38	9.67	240.6	14.93	31.69	28.96	0
6/29/21 14:48	9.24	229.6	18.17	31.53	28.97	0
6/29/21 15:01	11.41	242.6	9.27	31.47	28.97	0
6/29/21 15:27	10.95	250.2	7.24	31.46	28.97	0
6/29/21 15:34	9.64	242.5	9.87	31.65	28.97	0
6/29/21 15:51	8.95	246.5	10.74	31.9	28.95	0
6/29/21 16:05	8.24	250.9	13.13	32.26	28.95	0
6/29/21 16:29	8.07	232	17.72	32.09	28.95	0
6/29/21 16:30	6.566	254.7	16.28	32.09	28.95	0
6/29/21 16:52	5.881	255.4	23.59	32.18	28.93	0
6/29/21 17:02	5.53	270.1	22.68	32.31	28.93	0
6/29/21 17:23	6.591	254.8	17.52	31.88	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
6/29/21 17:41	6.897	250.2	18.17	31.6	28.93	0
6/29/21 17:46	6.533	255.9	10.82	31.33	28.92	0
6/29/21 18:03	6.494	253.4	10.63	31	28.92	0
6/29/21 18:25	6.501	246.1	10.34	30.71	28.92	0
6/29/21 18:40	6.278	246.6	10.39	30.43	28.92	0
6/29/21 18:51	6.245	243.7	11.41	30.1	28.96	0
6/29/21 19:09	8.6	248.3	7.085	29.54	28.96	0
6/29/21 19:28	10.53	249	6.979	28.31	28.96	0
6/29/21 19:30	10.59	249.8	7.026	27.2	28.96	0
6/29/21 19:57	11.59	245.1	8.39	26.32	28.96	0
6/29/21 20:00	13.01	245	6.949	25.37	28.96	0
6/29/21 20:23	11.28	237.7	7.627	24.69	28.96	0
6/29/21 20:33	8.98	236.2	11.05	23.98	28.96	0
6/29/21 20:47	7.111	231.1	12.26	23.42	29.01	0
6/29/21 21:00	7.055	232	13.16	22.77	29.01	0
6/29/21 21:26	6.402	232.6	11.95	22.27	29.01	0
6/29/21 21:34	5.64	239.8	10.56	21.96	29.01	0
6/29/21 21:46	4.311	228.2	13.9	21.75	29.05	0
6/29/21 22:14	4.001	208.5	8.34	21.7	29.05	0
6/29/21 22:24	7.853	197.4	9.45	21.43	29.05	0
6/29/21 22:31	8.16	217.3	11.96	21.04	29.05	0
6/29/21 22:45	4.974	215.1	11.86	20.88	29.05	0
6/29/21 23:07	3.896	216.9	13.89	20.59	29.05	0
6/29/21 23:15	2.993	261.3	19.42	20.18	29.05	0
6/29/21 23:43	4.079	286.3	7.685	19.73	29.05	0
6/29/21 23:58	5.372	272.3	3.254	19.34	29.05	0
6/30/21 0:00	5.216	276.1	5.74	19.02	29.05	0
6/30/21 0:22	5.531	283.3	4.045	18.73	29.05	0
6/30/21 0:30	4.844	279.2	5.806	18.44	29.05	0
6/30/21 0:48	4.479	272.3	5.66	18.19	29.05	0
6/30/21 1:13	4.078	274.8	7.084	17.95	29.05	0
6/30/21 1:17	4.082	273.6	4.816	17.71	29.05	0
6/30/21 1:34	3.684	277.5	6.282	17.53	29.05	0
6/30/21 1:51	2.239	284.4	7.565	17.46	29.05	0
6/30/21 2:02	0.723	288.7	12.2	17.42	29.05	0
6/30/21 2:26	1.404	234.1	9.98	17.68	29.05	0
6/30/21 2:43	0.937	206.1	21.59	17.64	29.05	0
6/30/21 2:59	1.453	222.4	29.97	17.59	29.06	0
6/30/21 3:06	2.662	268.1	9.81	17.28	29.06	0
6/30/21 3:30	3.032	248.7	10.46	17.44	29.06	0
6/30/21 3:43	3.789	247.6	4.358	17.31	29.06	0
6/30/21 4:00	4.058	247	6.945	17.04	29.07	0
6/30/21 4:03	3.473	238.3	7.835	16.99	29.07	0
6/30/21 4:20	2.734	219.2	13.99	16.98	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
6/30/21 4:44	2.583	194.9	7.169	16.92	29.07	0
6/30/21 4:59	3.721	200.3	6.306	17.12	29.07	0
6/30/21 5:04	4.387	193.3	13.51	17.09	29.07	0
6/30/21 5:29	4.76	177.7	7.463	17.08	29.07	0
6/30/21 5:31	4.256	156.8	13.12	17.03	29.07	0
6/30/21 5:57	4.418	164.8	11.88	17.21	29.08	0
6/30/21 6:02	4.111	161	17.31	17.23	29.08	0
6/30/21 6:17	4.256	165.3	19.51	17.39	29.08	0
6/30/21 6:44	5.194	178.2	14.6	17.51	29.08	0
6/30/21 6:45	4.152	187.1	22.62	17.56	29.08	0
6/30/21 7:00	4.352	181.4	11.5	17.58	29.08	0
6/30/21 7:29	4.515	177.8	12.3	17.58	29.08	0
6/30/21 7:35	4.482	179.1	16.77	17.81	29.08	0
6/30/21 7:56	4.625	164	18.4	17.78	29.1	0
6/30/21 8:09	4.552	164.7	17.97	17.88	29.1	0
6/30/21 8:16	4.92	136	7.913	17.94	29.1	0
6/30/21 8:34	5.421	147.2	16.5	18.09	29.1	0
6/30/21 8:46	5.368	147.4	22.65	18.23	29.11	0
6/30/21 9:09	5.136	178.5	15.91	18.51	29.11	0
6/30/21 9:18	4.081	171.3	30.84	18.68	29.11	0
6/30/21 9:41	4.089	124.5	22.39	18.92	29.11	0
6/30/21 9:48	3.98	132.3	25.47	18.89	29.09	0
6/30/21 10:00	4.713	115	18.32	19.13	29.09	0
6/30/21 10:28	4.904	133.3	19.52	19.51	29.09	0
6/30/21 10:36	4.611	135.1	23.23	19.73	29.09	0
6/30/21 10:46	5.051	153.6	24.59	20.22	29.1	0
6/30/21 11:11	4.265	164.8	30.26	20.32	29.1	0
6/30/21 11:26	5.334	192.6	27.82	20.78	29.1	0
6/30/21 11:43	4.671	200.5	41.16	20.98	29.1	0
6/30/21 11:59	4.107	147.4	33.28	21.36	29.1	0
6/30/21 12:05	4.198	213.9	28.83	21.51	29.1	0
6/30/21 12:17	5.847	199.3	31.7	21.62	29.1	0
6/30/21 12:43	5.906	228.9	24.6	21.87	29.1	0
6/30/21 12:45	5.896	220.4	18.27	22.28	29.09	0
6/30/21 13:10	6.524	243.3	22.87	22.54	29.09	0
6/30/21 13:22	7.036	250.9	14.95	23.09	29.09	0
6/30/21 13:33	7.496	247.4	16.11	23.22	29.09	0
6/30/21 13:50	7.82	247.1	13.96	23.26	29.11	0
6/30/21 14:07	7.516	211.3	26.92	23.4	29.11	0
6/30/21 14:28	6.605	201.4	19.24	23.44	29.11	0
6/30/21 14:34	7.221	209.8	15.34	23.39	29.11	0
6/30/21 14:48	7.093	232.5	14.43	23.48	29.09	0
6/30/21 15:13	7.014	225.9	17.79	23.34	29.09	0
6/30/21 15:26	7.489	228.1	12.99	23.32	29.09	0
6/30/21 15:30	6.326	222.1	14.06	23.26	29.09	0
6/30/21 15:52	6.755	217.3	21.64	23.26	29.09	0
6/30/21 16:14	8.67	195	10.1	23.22	29.09	0
6/30/21 16:19	8.08	195.3	11.86	22.95	29.09	0
6/30/21 16:44	6.194	212.5	12.99	23.03	29.09	0
6/30/21 16:45	5.752	228.4	20.6	23.06	29.09	0
6/30/21 17:09	7.994	249.1	7.771	22.68	29.09	0
6/30/21 17:25	7.445	250.3	11.26	22.45	29.09	0
6/30/21 17:43	8.25	248.1	9.11	22.28	29.09	0
6/30/21 17:56	9.66	251.4	7.344	21.87	29.12	0
6/30/21 18:02	8.82	248	8.69	21.64	29.12	0
6/30/21 18:19	10	243.1	7.186	21.41	29.12	0
6/30/21 18:32	9.19	240.4	9.32	21.09	29.12	0
6/30/21 18:56	7.352	238	9.32	20.96	29.12	0
6/30/21 19:04	5.868	241.9	13.41	20.92	29.12	0
6/30/21 19:25	7.738	233.2	13.01	20.71	29.12	0
6/30/21 19:38	6.442	230.9	13.42	20.56	29.12	0
6/30/21 19:56	5.449	228.6	13.53	20.46	29.13	0
6/30/21 20:08	6.896	219.7	14.96	20.14	29.13	0
6/30/21 20:18	6.155	204.7	17.44	19.97	29.13	0
6/30/21 20:36	5.433	197.3	24.56	19.73	29.13	0
6/30/21 20:45	5.434	171.6	17.36	19.53	29.16	0
6/30/21 21:05	4.552	146.2	20.9	19.23	29.16	0
6/30/21 21:19	4.552	153.5	18.62	18.95	29.16	0
6/30/21 21:35	5.981	160.3	20.45	18.6	29.16	0
6/30/21 21:56	4.9	140.1	14.3	17.83	29.15	0
6/30/21 22:09	4.723	140.6	13.93	17.78	29.15	0
6/30/21 22:24	4.979	131.7	10.12	17.56	29.15	0
6/30/21 22:31	4.979	131.6	8.09	17.53	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
6/30/21 22:59	5.299	136.6	8.72	17.54	29.17	0
6/30/21 23:00	5.229	164.8	11.99	17.39	29.17	0
6/30/21 23:16	4.002	156.5	8.36	17.28	29.17	0
6/30/21 23:33	3.536	156.6	10.64	17.2	29.17	0

APPENDIX D

Area 5 Top Deck Report

CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

Second Quarter 2021



Department of Natural Resources and Parks
Solid Waste Division

August 2021
Printed on recycled paper

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**AREA 5 TOP DECK MONITORING
QUARTERLY REPORT**

SECOND QUARTER 2021

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 solely 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 SECOND QUARTER of 2021**

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	0.000112
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	185.95	353.12*	68,272,638,304	51.63	526,603	10,200	0.0027	0.00005
2021	88.65	353.12*	69,148,652,304	22.06	251,051	11,380	0.0013	0.00006

2021: Refuse in place, precipitation and leachate through 2nd Quarter of 2021.

* 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 second quarter of 2021 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 second quarter of 2021, KCSWD staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A. During the second quarter, erosion control measures continued to be implemented and/or maintained to mitigate runoff effects from on-going construction activities at the landfill.

In addition to KCSWD inspections, inspections were performed by Public Health – Seattle & King County (PHSKC) this quarter. Inspections by PHSKC occurred on April 28th and June 30th, 2021. The inspection reports can be viewed in Appendix A.

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 second quarter of 2021 surface emission monitoring was conducted from June 16th through June 30th, 2021.

There were no exceedances of regulatory criteria observed during the Serpentine Walk in Area 5.

The results from the second quarter of 2021 surface emission monitoring can be found in Appendix B: Gas Monitoring Reports, along with a plot of GPS generated track lines.

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 second quarter of 2021 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. Monitoring locations can be viewed in figure 1.

The most recent settlement levels for Area 5 were measured on February 22nd, 2021. The survey data is given in Table 2, and the settlement at each point is given in Table 3. Although settlement is proceeding at a very low rate, there is no indication that any differential settlement is occurring, nor any concern to cover system integrity.

TABLE 2
CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for SECOND QUARTER of 2021

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
--	--	5/28/2020	757.63	--	--	--	--	5/28/2020	767.91
--	--	8/12/2020	757.49	--	--	--	--	8/12/2020	767.83
--	--	11/19/2020	757.36	--	--	--	--	11/19/2020	767.67
--	--	2/22/2021	757.47	--	--	--	--	2/22/2021	767.75

^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 SECOND QUARTER of 2021

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	03/2020- 02/2021
^a ASSM-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	N/A
ASSM-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	0.24
^b ASSM-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	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	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	0.23
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	0.24
	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	0.02

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

^b ASSM-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 second quarter of 2021. This was due to multiple factors including low precipitation throughout the latter half of second 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 second quarter of 2021.

Figure 2 shows the Area 5 Top Deck stormwater monitoring station locations.

V. CONCLUSION

Stormwater samples for the Area 5 Top Deck were unable to be collected during the second quarter of 2021 due to multiple factors, including lack of sufficient precipitation during the quarter. This observation was in line with the overall regional precipitation levels for the summer months. Therefore, no determinations can be made regarding Area 5's second quarter 2021 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 LV1A).

The inspection reports for the second quarter of 2021 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 second quarter of 2021. New survey points are be planned 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.

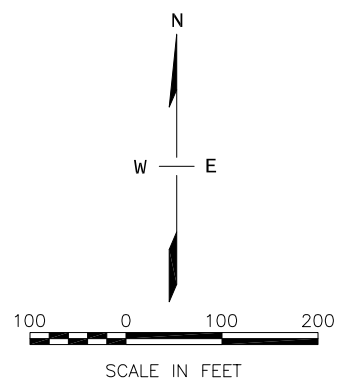
Figures

FIGURE 1
AREA 5 SETTLEMENT MONITORING LOCATIONS



LEGEND:
○ MONITORING STATION

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

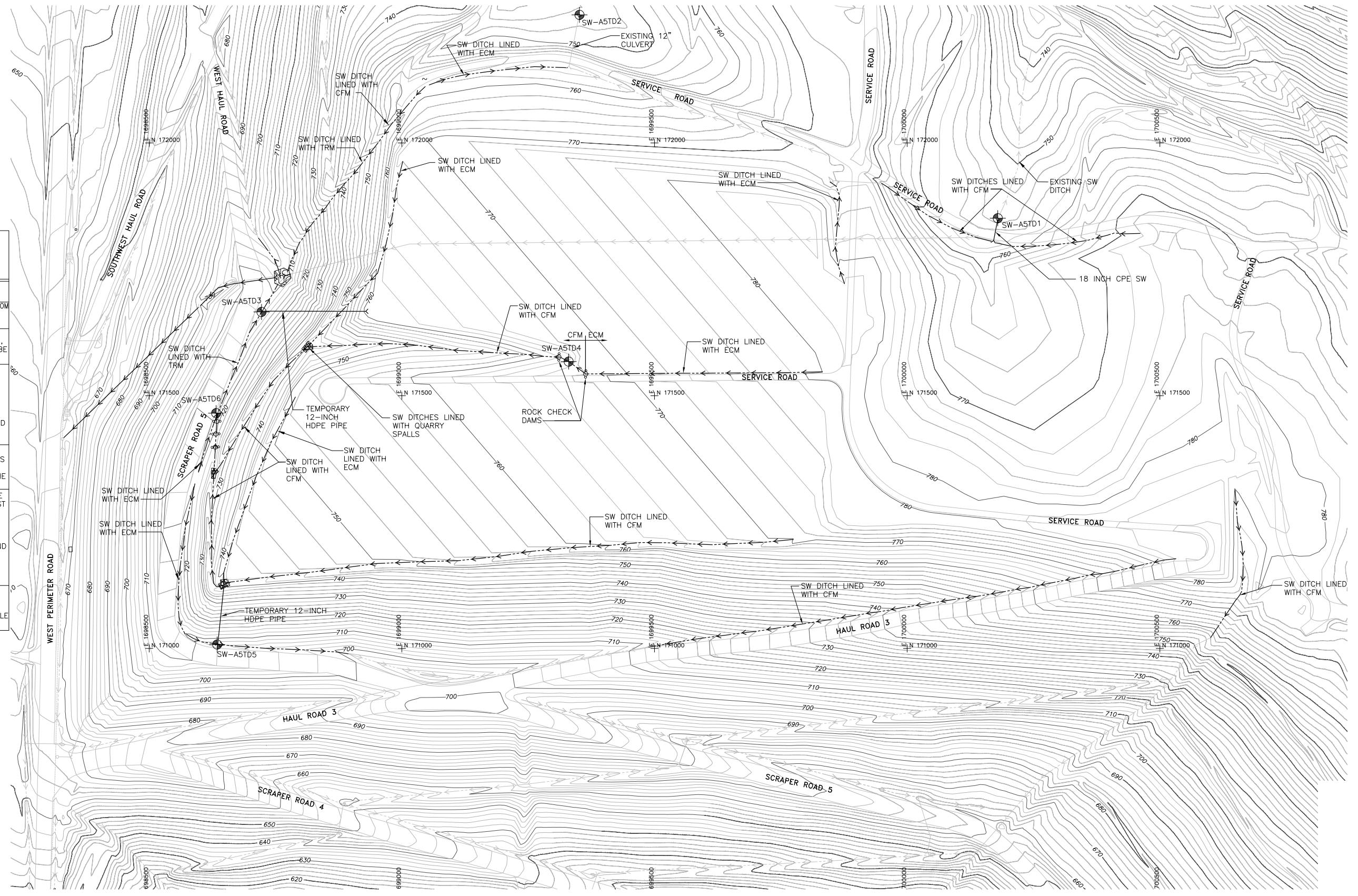


Figure 2
**Area 5 Top Deck
 Stormwater Monitoring Stations**

Cedar Hills Regional Landfill
 Area 5 Stage 4 Final Closure
 King County, Washington

Appendix A:
Inspection Reports

SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Permit Compliance

Inspected By: Sterling Bath Date: 4/26/2021 – 4/28/2021 7:00 am/8:00 am/7:30 am

Location: Cedar Hills Ambient Temperature: (°47/42/45F) Weather Condition: Partly Cloudy (All Days)

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	X						
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:				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	X			11. Best Management		X					
				12. Compliance Points	X						
				13. Other		X					

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if "Fair or Poor", include remedy to get item to "Good"	Date Corrective Action Implemented
				Good	Fair	Poor		
1	C6/D10	A6			X		Gap in hog fuel on northwest corner of Area 6. Cover to prevent short circuiting of stormwater ditch.	
2	C5	A6/7			X		Spots of yellow grass found on south Area 6 and Area 7. No odor, emissions or leaks detected. Continue to monitor.	
3	D10	A6			X		Body of water on south slope of Area 6. When slope is dry drain and redo rock-lined ditch. Such that this area drains.	
4	C5	A6			X		Vegetation on south slope of Area 6. Should be removed so that liners remain intact.	
5	C6	A6			X		Rills on south slope of Area 6. Should be filled, compacted and hydroseeded.	
6	D13	A6			X		Discolored seepage on south and east slopes of Area 6. Cover with hog fuel to treat.	
7	D10		C4		X		Stormwater ditch on northeast corner of Area 4 is broken. Repair stormwater ditch to prevent erosion of hillside.	
8	D11	A7			X		Unnecessary fences on southeast corner of Area 7. Remove sediment fences.	
9	D11	A5			X		Unnecessary fences on west side of Area 5. Remove sediment fences.	
10	D11	A6			X		Sediment built up behind silt fences north of Area 6 and some damaged silt fences. Remove sediment behind silt fences north of. Repair damaged silt fences in this area.	
11	D11		H6		X		Old silt fence posts south of the southeast pit area. Fences no longer necessary can be removed.	

12	D11	A8			X	Construction fences just south west of Area 8 no longer needed and should be removed.
13	C11	A8			X	Triangular silt dikes no longer needed on west side of Area 8. Should be removed before they are blown away.
14	C6	A8			X	Rill in northwest corner of Area 8. Should be filled and compacted.
15	D10	A7			X	Cracking in south stormwater ditch of Area 7. Should be cold patched and monitored.
16	D11	A6			X	Clogged check dam northwest of Area 6. Remove sediment and replace riprap.
17	C11	A6			X	Remove plastic sheeting on southwest corner of Area 6.
18	C6	A7			X	Rills and bare slopes around Area 7. Will be remedied through Area 7 closure project underway.
19	C11	A7			X	Litter on west side of Area 7. Should be removed.
20	C13	A7			X	Elevated levels of methane detected around Area 7. Will continue to seal areas of elevated methane.
21	D11	A6			X	Triangular silt dikes no longer needed on south Area 6 slope can be removed.
22	D9	A6			X	Trash rack on south Area 6 slope clogged. Removed debris.
23	D11		G5		X	Need new "Only Rain Down the Drain" markers at least 4 storm drains. Add new markers.

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = SP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

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 the site is well maintained. There is a gap if the hog fuel cover on the northwest corner of Area 8 where it looks like runoff has been running into the stormwater ditch. Spots of yellow grass were noticed on the south sides of Area 6 and Area 7. No odor, emissions or leaks were detected. Continue to monitor. Body of water on south slope of Area 6. Needs to be drained when conditions are dry enough for heavy equipment to get on the slope. Vegetation on south slope of Area 6. Should be removed to protect cover from roots. Rills on the south slope of Area 6 and northwest corner of Area 8 should be filled, compacted and hydroseeded when conditions allow. Discolored seepage detected on south and east slopes of Area 6. Cover with hog fuel as a treatment BMP and continue to monitor. Stormwater ditch on northeast corner of Area 4 is broken and needs to be repaired to prevent erosion of the hillside. Unnecessary silt and construction fences were found on the southeast corner of Area 7, the west side of Area 5, the southwest corner of Area 8 and south of the southeast pit area. These unnecessary fences should be removed. Silt fences north of Area 6 have built up sediment behind them and some need to be repaired. These silt fences are useful and should not be removed. Triangular silt dikes on the west side of Area 8 should be disposed of before they are scattered by the wind. The first check dam along the west Area 6 stormwater ditch is clogged with sediment. The sediment clogged rip rap should be removed and replaced. Cracking noticed in the south stormwater ditch of Area 7. Cracks should be cold patched and monitored. Plastic sheeting on the southwest corner of Area 6 is no longer needed and should be removed. Rills and bare slopes on sides of Area 7. Will be addressed during Area 7 closure project. Litter of west side of Area 7 should be picked up. Elevated levels of methane detected in cover holes that appear to be caused by wildlife. I will continue to work with contractors to get these holes sealed. Triangular silt dikes on the south slope of Area 6 are no longer necessary and should be removed. A track rack on in a stormwater ditch on the south slope of Area 6 is clogged with debris. This should be unclogged. Four stormwater drains found during inspection without "Only Rain Down the Drain" signage. Add new signage. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 21\04 - Apr\Photos

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
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SWPPP Modifications Necessary? (Circle **Y** or **N**) Potential Pollutant Sources **Y / N** Site Map **Y / N**
If Y, log changes in Appendix I of SWPPP

INSPECTION REPORT SIGNATURE PAGE

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: 5/27/2021

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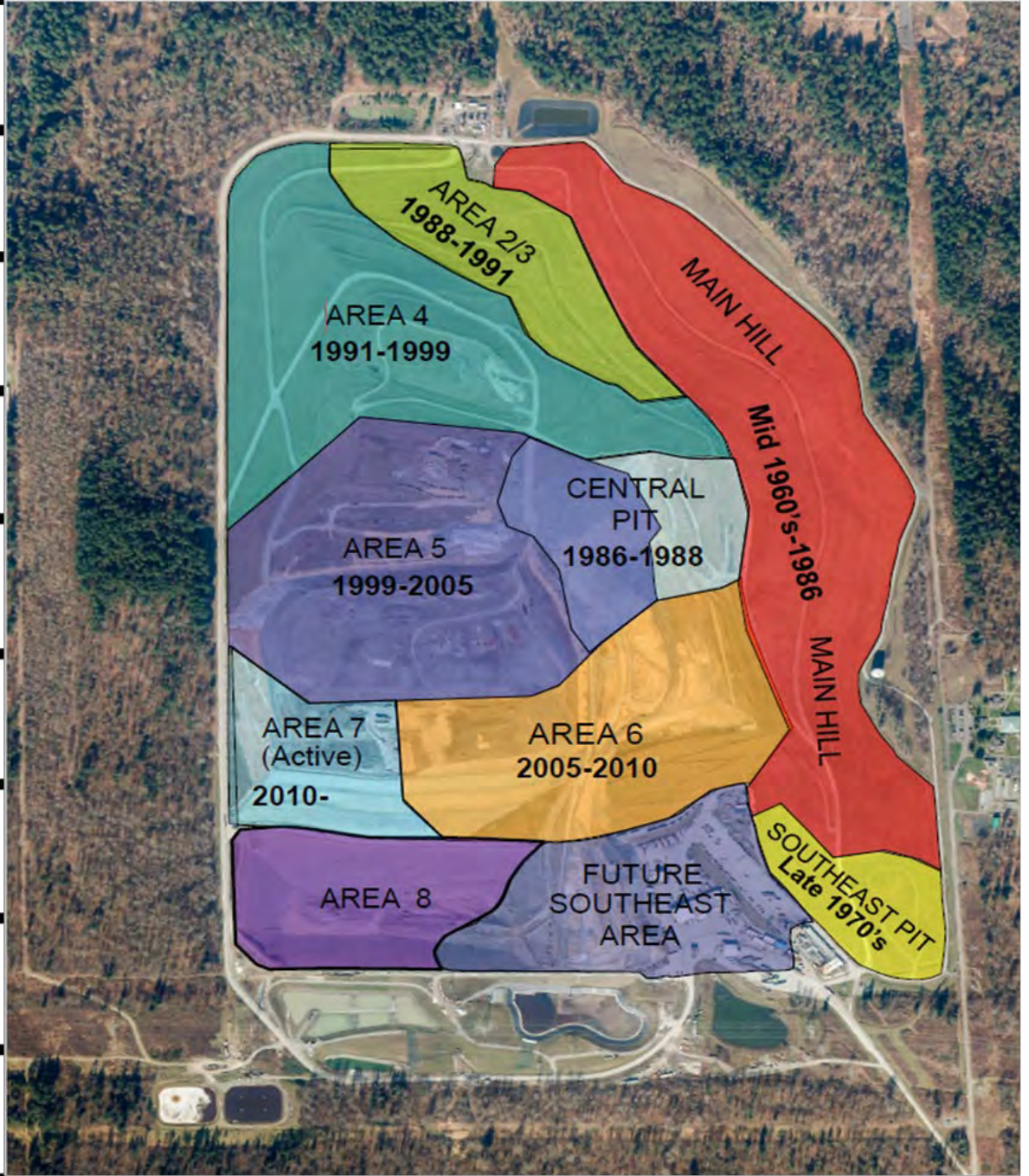
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Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if "Fair or Poor", include remedy to get item to "Good"	Date Corrective Action Implemented
				Good	Fair	Poor		
1	D11	A6			X		Silt fences north of Area 6 is filled with sediment, sediment should be removed.	
2	D10	A6			X		First check dam northwest of Area 6 is clogged with sediment. The sediment should be removed from sediment and riprap replaced.	
3	D11	A8			X		Remnants of silt fences by southwest corner of Area 8 should be removed.	
4	D10	A7			X		Stormwater ditch south of Area 7 is cracking should be cold-patched.	
5	D13	A7			X		Stained asphalt near southeast corner of Area 7. Investigate for possible emissions and monitor for seeps.	
6	D10	A4	C4		X		Stormwater ditch on northwest Area 4 is damaged and should be repaired.	
7	D13	A6			X		Old triangular silt dikes on the south side of Area 6 are falling apart and no longer needed, and thus should be removed.	
8	D9	A6			X		Trash rack on south Area 6 is clogged with debris and should be cleaned.	
9	C5	A6			X		Yellow grass on south side of Area 6. Investigate for possible landfill causes.	
10	D13	A6			X		Body of water on south side of Area 6. Slope should be graded to allow proper drainage of this area.	
11	C11	A8			X		Trash in trees to the west of Area 8. Should be removed.	
12	C11	A8			X		Triangular silt dikes on west side of Area 8. Should be disposed of before they can blow away.	

13	C6	A8			X		Rill in northwest corner of Area 8. Fill and compact and monitor for damage to DLM.
14	C6	A7			X		Rills on west slope of Area 7. Fill, compact and hydroseed when conditions permit.
15	C11	A7			X		Old sheeting on west side of Area 7 should be removed.
16	C11	A6			X		Old sheeting on southwest corner of Area 6 should be removed.
17	C5	A7			X		Yellow grass on east side of Area 7. Investigate for possible landfill causes.
18	D11		G5		X		Stormwater drains around the Cedar Hills Shop need to be labeled with "No rain down the drain".

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = SP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

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 the site is maintained. A series of silt fences north of Area 6 are filled with sediment which should be removed. The first check dam from the north on the west side of Area 6 is clogged with sediment and should be cleaned of sediment. Remnants of silt fences by the southwest corner of Area 8 should be removed. Stormwater ditch south of Area 7 is cracking and should be cold-patched. There is a stained patch of asphalt near the southeast corner of Area 7. Investigate for possible emissions and monitor for seeps. Stormwater ditch on northwest Area 4 is damaged and should be repaired. There are old triangular silt dikes on the south side of Area 6 that are falling apart and no longer needed, and thus should be removed. Trash rack on south side of Area 6 is clogged with debris and should be cleaned. There is yellow grass on the south side of Area 6 and the east side of Area 7 investigate for seeps or emissions. There is a body of water on the south side of Area 6. Slope should be regraded to allow proper drainage of this area. Trash in trees west of Area 8 should be removed. Triangular silt dikes on the west side of Area 8 should be disposed of before they can blow away. Rills on northwest corner of Area 8 should be filled and compacted. Continue to monitor for damage to DLM. Rills on west slope of Area 7 should be filled, compacted and hydroseeded when conditions permit. Old sheeting on the west side of Area 7 and the southwest corner of Area 6 should be removed. Stormwater drains around Cedar Hills Shop building needs to be labeled with "No rain down the drain" or similar marking.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 21\05 - May\Photos

<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**) Potential Pollutant Sources **Y / N** Site Map **Y / N**
If Y, log changes in Appendix I of SWPPP

INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 5/25/21 to 5/26/2021 SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

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

X *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: _____

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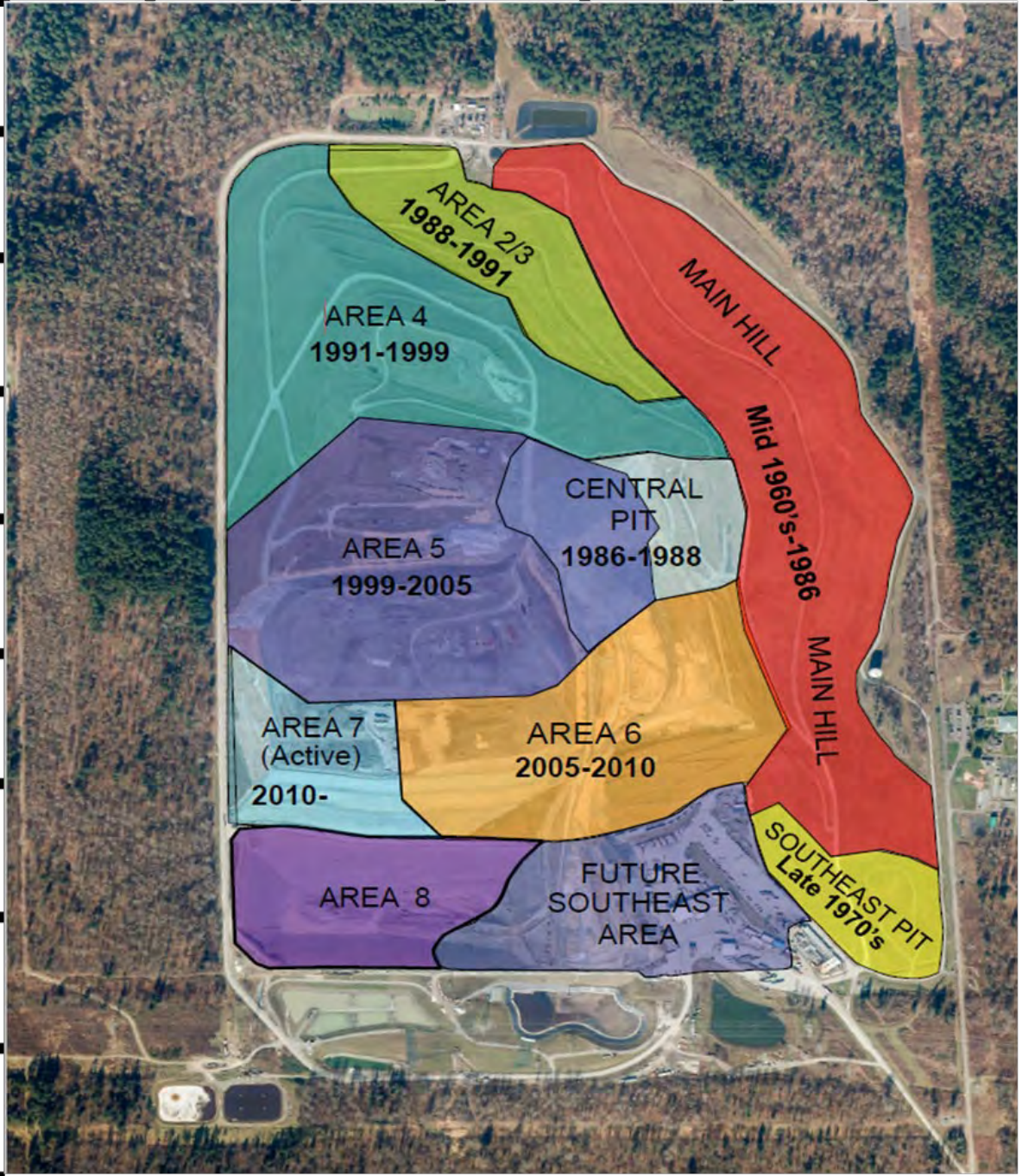
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Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if "Fair or Poor", include remedy to get item to "Good"	Date Corrective Action Implemented
				Good	Fair	Poor		
1	D11	A6			X		Silt fences north of Area 6 are backed up with sediment. Remove built up sediment to maintain fence.	
2	D11	A6			X		Damaged silt fence north of Area 6. Repair fence.	
3	D11	A6			X		Aged triangular silt dikes on the south slope of Area 6. Remove silt dikes as they are no longer needed.	
4	D9	A6			X		Debris clogged stormwater pipe south of Area 6. Debris should be removed from pipe.	
5	D11	A6			X		Body of water on south slope of Area 6. Slope should be modified to allow for proper drainage.	
6	C5	A6			X		Brown patch on south slope of Area 6. Operations is aware and will be excavating to look for damage to the cover.	
7	D10	A4			X		Damaged stormwater ditch on the northwest corner of Area 4. Ditch should be repaired to protect hillside.	
8	D11		I4		X		Damaged silt fences near Pump Station 4. Silt fences should be repaired.	
9	D9		I3		X		Sand filter valves has an incorrectly sized valve cover. Replace valve cover with correctly sized one.	
10	D11		G5		X		A number of stormwater drains around the Cedar Hills shop building need markers. KCSWD is working with KC Roads to install markers.	

AREA CODES (Cedar Hills):

Area 2/3 = A2/3

Area 7 = A7

East Main Hill = EMH

Southwest Main Hill = SWMH

Area 4 = A4

Area 8 = A8

Leachate Lagoon = LL

Stockpile = SP

Area 5 = A5

Central Pit = CP

North Flare Station = NFS

Area 6 = A6

CSW Lagoon = CSW

Southeast Pit Area = SEPA

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 the site is maintained. There are silt fences north of Area 6 backed up with sediment. The sediment should be removed to maintain the fence. There are damaged silt fences north of Area 6 and near Pump Station 4 that should be repaired. On the south side of Area 6 there are aged triangular silt dikes that are no longer needed and should be removed. A stormwater pipe on the south side of Area 6 is clogged with sediment that should be removed. There is a body of water on the south side of Area 6. The slope in this area should be modified to allow for proper drainage. Brown patches on the south slope of Area 6 should be excavated to look for damage to the cover system. There is a damaged stormwater ditch on the northwest corner of Area 4 that should be repaired to protect the hillside. Sand filter valve cover is incorrectly sized and a correctly sized one should be placed over. Several stormwater drains around the Cedar Hills Shop Building need markers. KCSWD is working with roads to install markers.

Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 21\06 - Jun\Photo

<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: 6/25/2021

SITE: Cedar Hills Regional Landfill

INSPECTOR / QUALIFIED PERSONNEL

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

X *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: 7/20/2021

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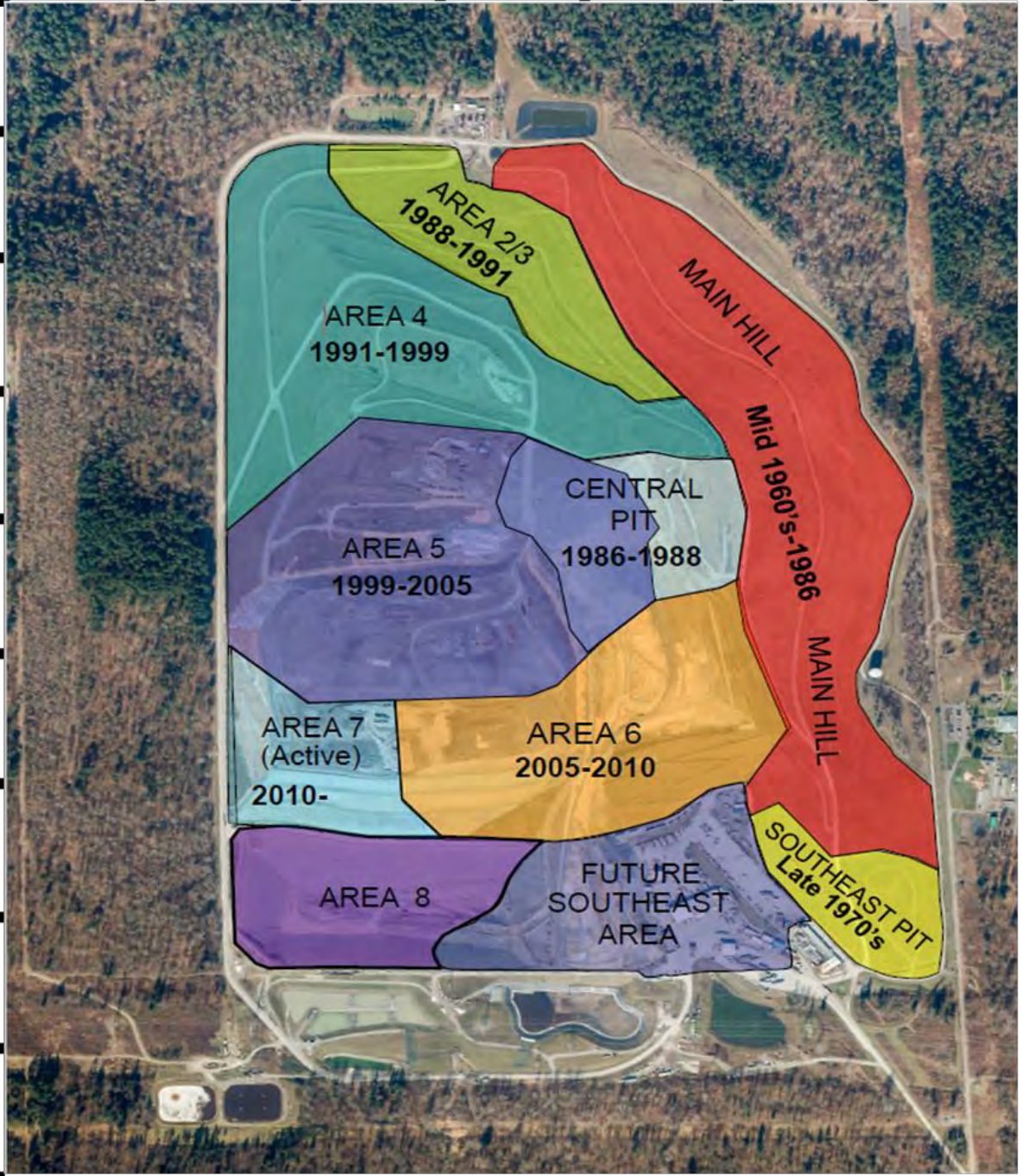
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SOLID WASTE INSPECTION REPORT

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: Wednesday, April 28, 2021 Time In: 11:15 am Time Out: 1:30 pm Inspector: Darshan Dhillon Result: COMPLETE

VIOLATIONS OBSERVED (if any)

OVERALL INSPECTION COMMENTS:

Weather: Partly sunny with scattered clouds

1.0 ACTIONS AND RECOMMENDATIONS:

1.1 Road striping faded away needs to be re striped Stripe lines on the road by the diesel pump are not visible at all. It is a safety issue and must be repainted all over the paved roads in the Cedar Hills Regional Landfill property by May 30, 2021

1.2 Fabric of the silt fence in the contaminated storm water is falling apart from the silt fence structure. It needs to be repaired and falling pieces needed to be tied up to the silt fence structure by May 15, 2021

2.0 OBSERVATIONS:

2.1 No evidence of fluid spill was observed at the site where a waste trailer tractor flipped over in the storm water trench.

2.2 Few weeks ago smoke was detected from well # CH00040. Following parameters were measured using new GEM 5000 meter from well # C00040 on 4/28/2021 at 12:30 pm:

- Temperature 96 F
- Carbon monoxide no detection
- Hydrogen sulfide gas no detection
- Oxygen 20.4 ppm
- Methane 8.9% by volume

2.3 No water was observed in the sand filter.

2.4 Turbidity in the storm water pond appeared to be less than 25 NTU.

2.5 Traffic safety measures have been in place and speed signs have been posted and being observed.

2.6 Preparations for liner tie-in of Area 7 and Area 8 have started.

2.7. Area 8 being filled up at a fast rate and getting close to Area 7 interface.

2.8 Stock pile soil is used for landfill cover.

2.9 No landfill gas (LFG) exceedances were detected during LFG measurements.

2.10 Workers were wearing required PPE.

2.11 All wells were secured with padlocks.

2.12 Perimeter fence has been kept in good repair.

NEW ENVIRONMENTAL HEALTH SERVICES OFFICE HOURS effective February 3, 2020:

- Monday, Wednesday and Friday, 8:00 am to 3:00 pm
- Tuesdays and Thursdays, 10:30 am to 3:00 pm



Darshan Dhillon
HEI III

PIC Phone #:

Email:



Scott Barden
Operations Manager

INSPECTION CHECKLIST

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 requirment 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, June 30, 2021 Time In: 10:00 am Time Out: 12:50 pm Inspector: Darshan Dhillon Result: COMPLETE

VIOLATIONS OBSERVED (if any)
-

OVERALL INSPECTION COMMENTS:

1.0 ACTIONS AND RECOMMENDATIONS:
 1.1 Fading away road striping still needs to be repainted by July 31, 2021. This action and recommendation was mentioned in an inspection report on 4/28/2021.

2.0 OBSERVATIONS:
 2.1 Followed up on fire incident under Bonneville Power Authority (BPA) by the west property line of the Cedar Hills Regional Landfill (CHRLF). Fire encroached about 6 feet inside the CHRLF property line. I spoke to Russ Gawler, Fire Fighter Aid to the Divisional Supervisor. Russ described that the fire is under control and they are identifying hotspots and eliminating any possibility of restarting the fire. A fire line created along the west perimeter fence of the landfill by the county bulldozers. Multiple agencies helped to extinguish the fire. Fire departments from Snohomish, Kit Sap, and Olympia helped to control the fire. The fire was under the BPA lines. Fire crews could not work under the power lines due to heavy and thick smoke power because electric current transmits through the smoke. Fire crew was able to work and extinguish fire after BPA power was turned off by BPA. The fire crews were identifying and eliminating hot spots before leaving the site. Two helicopters were also deployed to throw water on the fire. Situation is fully under control at the time of inspection.

Public Health discussed future strategies with CHRLF operations on how to control future fire incidents at the landfills. Operations informed that they have three water tankers equipped with fire hoses and ready for deployment at all times to extinguish new fire incidents.

2.2 Contaminated soil has been removed from the southwest corner of Area 7. Soil samples were collected and analyzed from the site from where contaminated soil was removed and disposed off. Most samples were non detect except very low level of selanium (still below cleanup levels). Ecology is reviewing the analyzed results and providing advice to KCSWD on how to handle contaminated soil. Soil was contaminated by leachate from Area 7.

- 2.3 Inlet chamber of the storm water pond being cleaned.
- 2.4 Turbidity in the storm water pond appeared to be less than 25 NTU.
- 2.5 Traffic safety measures have been in place to ensure workers safety at site. Speed signs have been posted and observed.
- 2.6 Area 7 and Area 8 liner tie-in activities are in progress required material is being procured.
- 2.7 Upper portion of Area 7's south slope is being prepared for liner cover installation.
- 2.8 Area 6 is being used for screening the soil being used for A7 final cap and slope construction.
- 2.9 No landfill gas (LFG) exceedances were detected during LFG measurements.
- 2.10 Workers were wearing required Personal Protection Equipment.
- 2.11 All wells were secured with padlocks.
- 2.12 Perimeter fence has been kept in good repair.

NEW ENVIRONMENTAL HEALTH SERVICES OFFICE HOURS effective February 3, 2020:

- Monday, Wednesday and Friday, 8:00 am to 3:00 pm
 - Tuesdays and Thursdays, 10:30 am to 3:00 pm
- Chinook (Seattle) 206-263-9566
Eastgate (Bellevue) 206-477-8050



Darshan Dhillon
HEI III



Scott Barden
Assistant Ops. Manager

PIC Phone #: 206-263-8863

Email: Scott.Barden@kingcounty.gov

INSPECTION CHECKLIST

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

OUT

Cedar Hills Area 5 Maintenance

for the period 04/01/2021 to 06/30/2021

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	0000024229	CLOSED	Monthly Gas System PM	04/25/2021	N
	CHAREA5	0000024229	CLOSED	Monthly Stormwater PM	04/25/2021	N
	CHAREA5	0000024229	CLOSED	Monthly Cover System PM	04/25/2021	N
	CHAREA5	0000024368	CLOSED	Monthly Gas System PM	05/25/2021	N
	CHAREA5	0000024368	CLOSED	Monthly Stormwater PM	05/25/2021	N
	CHAREA5	0000024368	CLOSED	Monthly Cover System PM	05/25/2021	N
	CHAREA5	0000024503	CLOSED	Monthly Gas System PM	06/15/2021	N
	CHAREA5	0000024503	CLOSED	Monthly Stormwater PM	06/15/2021	N
	CHAREA5	0000024503	CLOSED	Monthly Cover System PM	06/15/2021	N
	CHAREA5E	0000024185	CLOSED	Monthly Header PM	04/10/2021	N
	CHAREA5E	0000024323	CLOSED	Monthly Header PM	05/03/2021	N
	CHAREA5E	0000024459	CLOSED	Monthly Header PM	06/08/2021	N
	CHAREA5W	0000024186	CLOSED	Monthly Header PM	04/10/2021	N
	CHAREA5W	0000024322	CLOSED	Monthly Header PM	05/03/2021	N
	CHAREA5W	0000024458	CLOSED	Monthly Header PM	06/08/2021	N

Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 04/01/2021 to 06/30/2021

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	0000050050	CLOSED	PMM	04/09/2021	N
	Cedar Hills	0000050346	CLOSED	PMM	05/03/2021	N
	Cedar Hills	0000050692	CLOSED	PMM	06/01/2021	N

Control Structures

	Cedar Hills	0000049234	CLOSED	PMS	04/09/2021	N
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Trash Racks

	Cedar Hills	0000050049	CLOSED	PMW	04/09/2021	N
	Cedar Hills	0000050180	CLOSED	PMW	04/15/2021	N
	Cedar Hills	0000050242	CLOSED	PMW	04/19/2021	N
	Cedar Hills	0000050284	CLOSED	PMW	04/26/2021	N
	Cedar Hills	0000050345	CLOSED	PMW	05/03/2021	N
	Cedar Hills	0000050461	CLOSED	PMW	05/12/2021	N
	Cedar Hills	0000050498	CLOSED	PMW	05/20/2021	N
	Cedar Hills	0000050590	CLOSED	PMW	05/27/2021	N
	Cedar Hills	0000050691	CLOSED	PMW	06/01/2021	N
	Cedar Hills	0000050745	CLOSED	PMW	06/07/2021	N
	Cedar Hills	0000050790	CLOSED	PMW	06/16/2021	N
	Cedar Hills	0000050919	CLOSED	PMW	06/27/2021	N

Ditches

	Cedar Hills	0000049233	CLOSED	PMQ	04/09/2021	N
	Cedar Hills	0000050049	CLOSED	PMW	04/09/2021	N
	Cedar Hills	0000050050	CLOSED	PMM	04/09/2021	N
	Cedar Hills	0000050180	CLOSED	PMW	04/15/2021	N
	Cedar Hills	0000050242	CLOSED	PMW	04/19/2021	N
	Cedar Hills	0000050284	CLOSED	PMW	04/26/2021	N
	Cedar Hills	0000050345	CLOSED	PMW	05/03/2021	N
	Cedar Hills	0000050346	CLOSED	PMM	05/03/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000050461	CLOSED	PMW	05/12/2021	N
	Cedar Hills	0000050498	CLOSED	PMW	05/20/2021	N
	Cedar Hills	0000050590	CLOSED	PMW	05/27/2021	N
	Cedar Hills	0000050691	CLOSED	PMW	06/01/2021	N
	Cedar Hills	0000050692	CLOSED	PMM	06/01/2021	N
	Cedar Hills	0000050745	CLOSED	PMW	06/07/2021	N
	Cedar Hills	0000050790	CLOSED	PMW	06/16/2021	N
	Cedar Hills	0000050919	CLOSED	PMW	06/27/2021	N

Pipes/Culverts

	Cedar Hills	0000049233	CLOSED	PMQ	04/09/2021	N
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Ponds/Lagoons

	Cedar Hills	0000049233	CLOSED	PMQ	04/09/2021	N
	Cedar Hills	0000049234	CLOSED	PMS	04/09/2021	N
	Cedar Hills	0000050049	CLOSED	PMW	04/09/2021	N
	Cedar Hills	0000050180	CLOSED	PMW	04/15/2021	N
	Cedar Hills	0000050242	CLOSED	PMW	04/19/2021	N
	Cedar Hills	0000050284	CLOSED	PMW	04/26/2021	N
	Cedar Hills	0000050345	CLOSED	PMW	05/03/2021	N
	Cedar Hills	0000050461	CLOSED	PMW	05/12/2021	N
	Cedar Hills	0000050498	CLOSED	PMW	05/20/2021	N
	Cedar Hills	0000050590	CLOSED	PMW	05/27/2021	N
	Cedar Hills	0000050691	CLOSED	PMW	06/01/2021	N
	Cedar Hills	0000050745	CLOSED	PMW	06/07/2021	N
	Cedar Hills	0000050790	CLOSED	PMW	06/16/2021	N
	Cedar Hills	0000050919	CLOSED	PMW	06/27/2021	N

General

	Cedar Hills	0000049233	CLOSED	PMQ	04/09/2021	N
	Cedar Hills	0000050049	CLOSED	PMW	04/09/2021	N
	Cedar Hills	0000050180	CLOSED	PMW	04/15/2021	N
	Cedar Hills	0000050242	CLOSED	PMW	04/19/2021	N
	Cedar Hills	0000050284	CLOSED	PMW	04/26/2021	N
	Cedar Hills	0000050345	CLOSED	PMW	05/03/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000050461	CLOSED	PMW	05/12/2021	N
	Cedar Hills	0000050498	CLOSED	PMW	05/20/2021	N
	Cedar Hills	0000050590	CLOSED	PMW	05/27/2021	N
	Cedar Hills	0000050691	CLOSED	PMW	06/01/2021	N
	Cedar Hills	0000050745	CLOSED	PMW	06/07/2021	N
	Cedar Hills	0000050790	CLOSED	PMW	06/16/2021	N
	Cedar Hills	0000050919	CLOSED	PMW	06/27/2021	N

Leachate System

CHPS2	0000050105	CLOSED	PMW	04/06/2021	N
CHPS2	0000050155	CLOSED	PMW	04/13/2021	N
CHPS2	0000050215	CLOSED	PMW	04/18/2021	N
CHPS2	0000050258	CLOSED	PMW	04/26/2021	N
CHPS2	0000050334	CLOSED	PMW	05/03/2021	N
CHPS2	0000050451	CLOSED	PMW	05/10/2021	N
CHPS2	0000050541	CLOSED	PMW	05/17/2021	N
CHPS2	0000050559	CLOSED	PMW	05/24/2021	N
CHPS2	0000050624	CLOSED	PMW	06/04/2021	N
CHPS2	0000050763	CLOSED	PMW	06/07/2021	N
CHPS2	0000050786	CLOSED	PMW	06/14/2021	N
CHPS2	0000050915	CLOSED	PMW	06/29/2021	N
CHPS3	0000050103	CLOSED	PMW	04/06/2021	N
CHPS3	0000050153	CLOSED	PMW	04/13/2021	N
CHPS3	0000050213	CLOSED	PMW	04/18/2021	N
CHPS3	0000050256	CLOSED	PMW	04/26/2021	N
CHPS3	0000050332	CLOSED	PMW	05/03/2021	N
CHPS3	0000050449	CLOSED	PMW	05/10/2021	N
CHPS3	0000050539	CLOSED	PMW	05/17/2021	N
CHPS3	0000050557	CLOSED	PMW	05/24/2021	N
CHPS3	0000050622	CLOSED	PMW	06/04/2021	N
CHPS3	0000050761	CLOSED	PMW	06/07/2021	N
CHPS3	0000050784	CLOSED	PMW	06/14/2021	N
CHPS3	0000050852	CLOSED	PMW	06/21/2021	N
CHPS3	0000050913	CLOSED	PMW	06/29/2021	N
CHPS4	0000050102	CLOSED	PMW	04/07/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS4	0000050152	CLOSED	PMW	04/14/2021	N
	CHPS4	0000050212	CLOSED	PMW	04/18/2021	N
	CHPS4	0000050255	CLOSED	PMW	04/26/2021	N
	CHPS4	0000050331	CLOSED	PMW	05/03/2021	N
	CHPS4	0000050448	CLOSED	PMW	05/10/2021	N
	CHPS4	0000050538	CLOSED	PMW	05/17/2021	N
	CHPS4	0000050556	CLOSED	PMW	05/24/2021	N
	CHPS4	0000050621	CLOSED	PMW	06/04/2021	N
	CHPS4	0000050760	CLOSED	PMW	06/07/2021	N
	CHPS4	0000050783	CLOSED	PMW	06/14/2021	N
	CHPS4	0000050851	CLOSED	PMW	06/21/2021	N
	CHPS4	0000050912	CLOSED	PMW	06/29/2021	N
	LEPS	0000050099	CLOSED	PMW	04/07/2021	N
	LEPS	0000050108	CLOSED	PMM	04/07/2021	Y
	LEPS	0000050150	CLOSED	PMW	04/14/2021	N
	LEPS	0000050209	CLOSED	PMW	04/19/2021	N
	LEPS	0000050252	CLOSED	PMW	04/26/2021	N
	LEPS	0000050328	CLOSED	PMW	05/03/2021	N
	LEPS	0000050337	CLOSED	PMM	05/10/2021	Y
	LEPS	0000050445	CLOSED	PMW	05/10/2021	N
	LEPS	0000050535	CLOSED	PMW	05/17/2021	N
	LEPS	0000050553	CLOSED	PMW	05/24/2021	N
	LEPS	0000050618	CLOSED	PMW	06/04/2021	N
	LEPS	0000050627	CLOSED	PMM	06/01/2021	Y
	LEPS	0000050757	CLOSED	PMW	06/07/2021	N
	LEPS	0000050780	CLOSED	PMW	06/14/2021	N
	LEPS	0000050848	CLOSED	PMW	06/21/2021	N
	LEPS	0000050909	CLOSED	PMW	06/29/2021	N
	Cedar Hills	0000049233	CLOSED	PMQ	04/09/2021	N
	CHPS1	0000050106	CLOSED	PMW	04/06/2021	N
	CHPS1	0000050156	CLOSED	PMW	04/13/2021	N
	CHPS1	0000050216	CLOSED	PMW	04/18/2021	N
	CHPS1	0000050259	CLOSED	PMW	04/26/2021	N
	CHPS1	0000050335	CLOSED	PMW	05/03/2021	N
	CHPS1	0000050452	CLOSED	PMW	05/10/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS1	0000050542	CLOSED	PMW	05/17/2021	N
	CHPS1	0000050560	CLOSED	PMW	05/24/2021	Y
	CHPS1	0000050625	CLOSED	PMW	06/04/2021	N
	CHPS1	0000050764	CLOSED	PMW	06/07/2021	N
	CHPS1	0000050787	CLOSED	PMW	06/14/2021	N
	CHPS1	0000050855	CLOSED	PMW	06/21/2021	Y
	CHPS1	0000050916	CLOSED	PMW	06/29/2021	N

Landfill Cover

CHSTOCKPILE	0000024226	CLOSED	PMV	04/25/2021	N
CHAPONDS	0000024227	CLOSED	PMV	04/25/2021	N
CHAREA4	0000024228	CLOSED	PMV	04/25/2021	N
CHAREA5	0000024229	CLOSED	PMV	04/25/2021	N
CHAREA6	0000024230	CLOSED	PMV	04/25/2021	N
CHAREAS23	0000024233	CLOSED	PMV	04/25/2021	N
CHCENTRALPIT	0000024234	CLOSED	PMV	04/25/2021	N
CHEMH	0000024235	CLOSED	PMV	04/25/2021	N
CHSEPA	0000024236	CLOSED	PMV	04/25/2021	N
CHSSWA	0000024237	CLOSED	PMV	04/25/2021	N
CHSWMH	0000024238	CLOSED	PMV	04/25/2021	N
CHNFLARESTN	0000024239	CLOSED	PMV	04/25/2021	N
CHSTOCKPILE	0000024365	CLOSED	PMV	05/25/2021	N
CHAPONDS	0000024366	CLOSED	PMV	05/25/2021	N
CHAREA4	0000024367	CLOSED	PMV	05/25/2021	N
CHAREA5	0000024368	CLOSED	PMV	05/25/2021	N
CHAREA6	0000024369	CLOSED	PMV	05/25/2021	N
CHAREAS23	0000024372	CLOSED	PMV	05/25/2021	N
CHCENTRALPIT	0000024373	CLOSED	PMV	05/25/2021	N
CHEMH	0000024374	CLOSED	PMV	05/25/2021	N
CHSEPA	0000024375	CLOSED	PMV	05/25/2021	N
CHSSWA	0000024376	CLOSED	PMV	05/25/2021	N
CHSWMH	0000024377	CLOSED	PMV	05/25/2021	N
CHNFLARESTN	0000024378	CLOSED	PMV	05/25/2021	N
CHSTOCKPILE	0000024500	CLOSED	PMV	06/15/2021	N
CHAPONDS	0000024501	CLOSED	PMV	06/15/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREA4	0000024502	CLOSED	PMV	06/15/2021	N
	CHAREA5	0000024503	CLOSED	PMV	06/15/2021	N
	CHAREA6	0000024504	CLOSED	PMV	06/15/2021	N
	CHAREAS23	0000024508	CLOSED	PMV	06/15/2021	N
	CHCENTRALPIT	0000024509	CLOSED	PMV	06/15/2021	N
	CHEMH	0000024510	CLOSED	PMV	06/15/2021	N
	CHSEPA	0000024511	CLOSED	PMV	06/15/2021	N
	CHSSWA	0000024512	CLOSED	PMV	06/15/2021	N
	CHSWMH	0000024513	CLOSED	PMV	06/15/2021	N
	CHNFLARESTN	0000024514	CLOSED	PMV	06/15/2021	N

Landfill Gas

	CHEMH	0000024207	CLOSED	PMW	04/01/2021	N
	CHEMH	0000024278	CLOSED	PMW	04/15/2021	N
	CHEMH	0000024345	CLOSED	PMW	05/06/2021	N
	CHEMH	0000024417	CLOSED	PMW	05/17/2021	N
	CHEMH	0000024480	CLOSED	PMW	06/03/2021	N
	CHEMH	0000024553	CLOSED	PMW	06/17/2021	N
	CHAREAS23	0000024195	CLOSED	PMW	04/07/2021	N
	CHAREAS23	0000024269	CLOSED	PMW	04/27/2021	N
	CHAREAS23	0000024332	CLOSED	PMW	05/07/2021	N
	CHAREAS23	0000024408	CLOSED	PMW	05/22/2021	N
	CHAREAS23	0000024468	CLOSED	PMW	06/25/2021	N
	CHAREAS23	0000024550	CLOSED	PMW	06/25/2021	N
	CHAREA6	0000024149	CLOSED	PMW	04/01/2021	N
	CHAREA6	0000024149	CLOSED	PMW	04/02/2021	N
	CHAREA6	0000024241	CLOSED	PMW	04/17/2021	N
	CHAREA6	0000024241	CLOSED	PMW	04/24/2021	N
	CHAREA6	0000024286	CLOSED	PMW	05/03/2021	N
	CHAREA6	0000024380	CLOSED	PMW	05/18/2021	N
	CHAREA6	0000024425	CLOSED	PMW	06/09/2021	N
	CHAREA6	0000024516	CLOSED	PMW	06/22/2021	N
	CHSEPA	0000024173	CLOSED	PMW	04/06/2021	N
	CHSEPA	0000024254	CLOSED	PMW	04/21/2021	N
	CHSEPA	0000024309	CLOSED	PMW	05/11/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHSEPA	0000024393	CLOSED	PMW	05/21/2021	N
	CHSEPA	0000024446	CLOSED	PMW	06/12/2021	N
	CHSEPA	0000024529	CLOSED	PMW	06/22/2021	N
	CHCMH	0000024211	CLOSED	PMW	04/07/2021	N
	CHCMH	0000024211	CLOSED	PMW	04/11/2021	N
	CHCMH	0000024211	CLOSED	PMW	04/13/2021	N
	CHCMH	0000024279	CLOSED	PMW	04/19/2021	N
	CHCMH	0000024279	CLOSED	PMW	04/21/2021	N
	CHCMH	0000024279	CLOSED	PMW	04/22/2021	N
	CHCMH	0000024279	CLOSED	PMW	04/25/2021	N
	CHCMH	0000024350	CLOSED	PMW	05/05/2021	N
	CHCMH	0000024350	CLOSED	PMW	05/06/2021	N
	CHCMH	0000024350	CLOSED	PMW	05/12/2021	N
	CHCMH	0000024418	CLOSED	PMW	05/15/2021	N
	CHCMH	0000024418	CLOSED	PMW	05/21/2021	N
	CHCMH	0000024418	CLOSED	PMW	05/22/2021	N
	CHCMH	0000024484	CLOSED	PMW	06/08/2021	N
	CHCMH	0000024484	CLOSED	PMW	06/09/2021	N
	CHCMH	0000024484	CLOSED	PMW	06/15/2021	N
	CHCMH	0000024554	CLOSED	PMW	06/23/2021	N
	CHCMH	0000024554	CLOSED	PMW	06/24/2021	N
	CHCMH	0000024554	CLOSED	PMW	06/27/2021	N
	CHAREA5E	0000024183	CLOSED	PMW	04/10/2021	N
	CHAREA5E	0000024261	CLOSED	PMW	04/16/2021	N
	CHAREA5E	0000024320	CLOSED	PMW	05/03/2021	N
	CHAREA5E	0000024400	CLOSED	PMW	06/02/2021	N
	CHAREA5E	0000024456	CLOSED	PMW	06/09/2021	N
	CHAREA5E	0000024536	CLOSED	PMW	06/22/2021	N
	CHAREA5W	0000024184	CLOSED	PMW	04/10/2021	N
	CHAREA5W	0000024262	CLOSED	PMW	04/10/2021	N
	CHAREA5W	0000024321	CLOSED	PMW	05/03/2021	N
	CHAREA5W	0000024401	CLOSED	PMW	05/15/2021	N
	CHAREA5W	0000024457	CLOSED	PMW	06/09/2021	N
	CHAREA5W	0000024537	CLOSED	PMW	06/22/2021	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
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Landfill Roads

	CHSTOCKPILE	0000024226	CLOSED	PMR	04/25/2021	N
	CHSTOCKPILE	0000024365	CLOSED	PMR	05/25/2021	N
	CHSTOCKPILE	0000024500	CLOSED	PMR	06/15/2021	N
	CHACTIVEAREA	0000024217	CLOSED	PMR	04/25/2021	N
	CHACTIVEAREA	0000024356	CLOSED	PMR	05/25/2021	N
	CHACTIVEAREA	0000024491	CLOSED	PMR	06/15/2021	N
	CHPSR	0000024219	CLOSED	PMR	04/25/2021	N
	CHPSR	0000024358	CLOSED	PMR	05/25/2021	N
	CHPSR	0000024493	CLOSED	PMR	06/15/2021	N
	CHMAINGATE	0000024218	CLOSED	PMR	04/25/2021	N
	CHMAINGATE	0000024357	CLOSED	PMR	05/25/2021	N
	CHMAINGATE	0000024492	CLOSED	PMR	06/15/2021	N

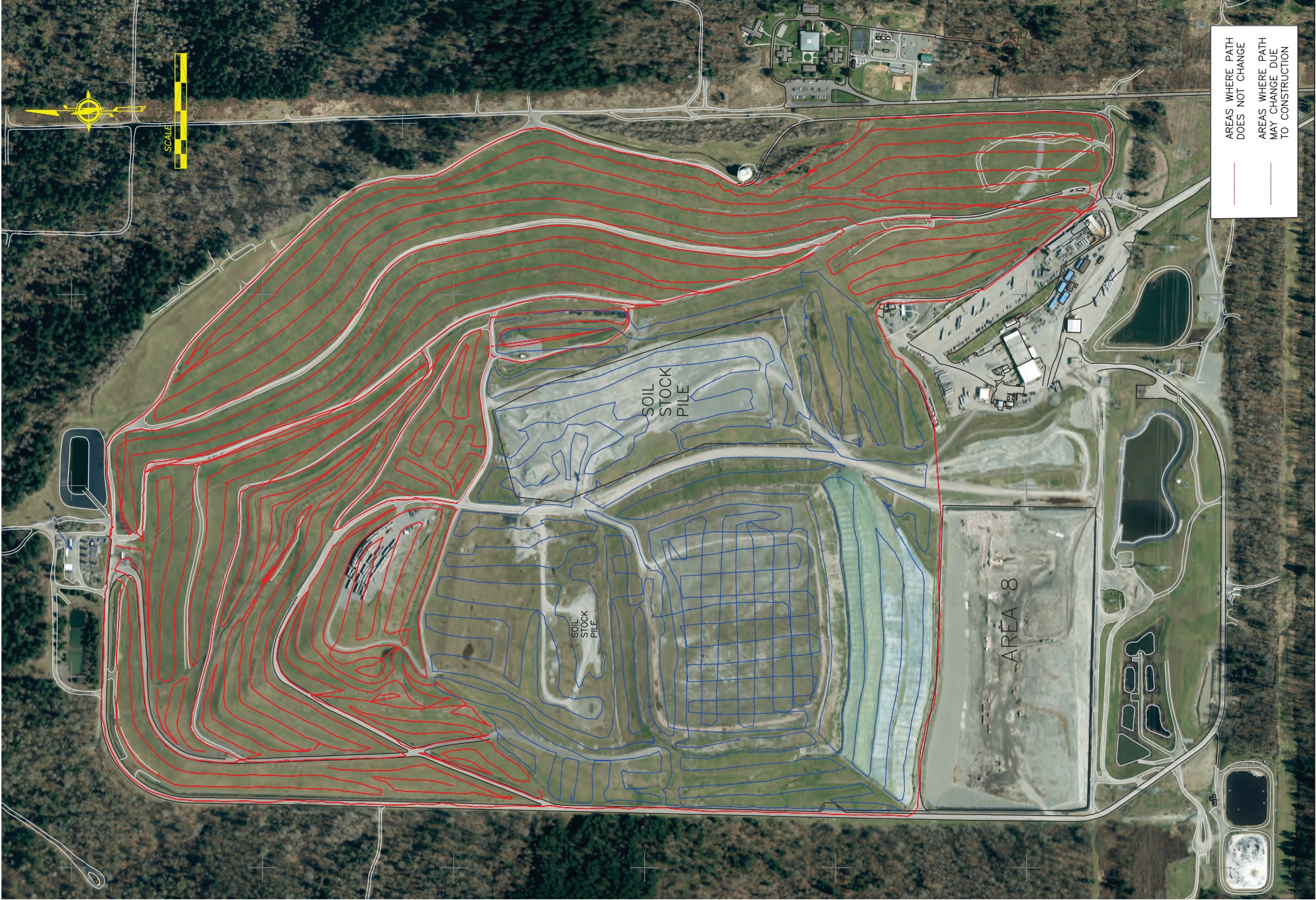
Landfill Roads

	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



— AREAS WHERE PATH DOES NOT CHANGE

— AREAS WHERE PATH MAY CHANGE DUE TO CONSTRUCTION