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King County
Department of Natural Resources and Parks
Solid Waste Division
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December 26, 2022

TO: Jeromeo Cruz, Environmental Scientist III, Environmental Health Division, Public Health – Seattle and King County (PHSKC)
DS LB

VIA: Laura Belt, P.E., Engineer Supervisor, Facility Engineering and Science Section (FESS), Solid Waste Division (SWD), Department of Natural Resources & Parks (DNRP)
DS ST

FM: Subrina Tahsin, Engineer II, SWD, DNRP

RE: Cedar Hills Regional Landfill Environmental Monitoring Report for the Third Quarter of 2022

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 July 1st, 2022 through September 30th, 2022. 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 Third Quarter of 2022. 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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December 26, 2022

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 Third Quarter of 2022

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 July 1st, 2022 through September 30th, 2022. 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 Third Quarter of 2022. 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
EF99840290E4443...
Subrina Tahsin
Engineer II

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Enclosures

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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)
Jeromeo Cruz, Environmental Scientist III, Environmental Health Division, Seattle-King County Department of Public Health (SKCDPH)
Glynda Steiner, P.E., CCM, Deputy Division Director, Solid Waste Division (SWD), Department of Natural Resources and Parks (DNRP)
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Laura Belt, P.E., Engineer Supervisor, SWD, DNRP

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CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

Third Quarter 2022

King County
Department of
Natural Resources and Parks
Solid Waste Division

Serving Community | Protecting Environment | Operating Excellence

www.kingcounty.gov/solidwaste

December 2022

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.

1st ——— 2nd ——— 3rd ✓ ——— 4th ——— YEAR 2022	Reference (section, subsection)	Included in this report	Location – page # or appendix #
***Quarterly Groundwater Reports**: 173-351-415 (2) plus the referenced section*			
Statistical calculations and summaries			
Descriptive statistics	420, (1)	☐	
Statistical tests	420, (2)	☒	3
Notification of statistical increase (if applicable)	420, (4)	☒	3
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	☒	28,40
Static water level readings	415, (2)	☒	App B
Potentiometric surface elevation maps depicting flow direction	415, (2)	☒	App A
Flow rate – calculated	415, (2)	☒	App A
Cation-anion balances	430, (5a)	☒	29-31, 42
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	☐	
Trilinear diagrams	430, (5b)	☒	33, 35, 44, 46
Leachate analyses (if sampled and tested)	415, (2)	☒	App B
Data entered into EIM database (date entered:)	415, (3)	☐	
Complete copy of the lab report with chain of custody record.		☐	
***Annual Groundwater Reports**: 173-351-415 (1)* **YEAR**			
Summary of statistical results and trends	415, (1)	☐	
Summary of groundwater flow rate and direction for the year	415, (1)	☐	
Copy of all potentiometric maps for the year	415, (1)	☐	
Summary geochemical evaluation	415, (1)	☐	
For Quarterly and Annual Reports			
Stamped by a licensed professional	RCW 18.220	☒	v

DocuSigned by:
Subrina Tahsin
EF99840290E4443...

Signature of Report Author

December 26, 2022
Date

Cedar Hills Regional Landfill
Landfill

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ECY 070-316 (Rev. 11/12)

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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:** December 26, 2022
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: DocuSigned by: Laura Belt 62EB1763091846C... Dec 19, 2022		

LAURA L. BELT
STATE OF WASHINGTON
39313
REGISTERED
PROFESSIONAL ENGINEER

EXPIRES 08/10/2023

KING COUNTY CEDAR HILLS REGIONAL LANDFILL
SUMMARY OF QUARTERLY ENVIRONMENTAL MONITORING
THIRD QUARTER OF 2022

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King County Cedar Hills Regional Landfill
Summary of Quarterly Environmental Monitoring
Third Quarter of 2022

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 third 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; however, these parameters remain below regulatory standards and in general exhibit stability.

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

Groundwater samples were analyzed for both dissolved and total metal fractions. However, only total metals results (per WAC 173-351-430(2)(b)(ii)) were compared to primary groundwater and drinking water quality standards, as listed in WAC 173-351-990 Appendix I and Title 40 CFR Subpart G Part 141. Dissolved iron and manganese were compared to secondary groundwater quality standards, as listed in WAC 173-351-990 Appendix II. Implementation of the most recent SAP resulted in a reduction in the total number of wells that are monitored. The remaining wells to be monitored were designated either as quarterly (all quarters of the year), or as semi-annual (second and fourth quarters of the year). This quarter, wells designated for quarterly monitoring were sampled, and are listed in Table 1.

Analytical Results

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

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-66, MW-68*, MW-81, MW-83, MW-84, MW-93, MW-94, MW-113, MW-114, MW-115	MW-72, MW-74R, MW-75, MW-80, MW-85, MW-87*

*Also exceeded Primary Federal Ground Water Quality Criteria

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-68, MW-113	MW-72, MW-75, MW-80, MW-87

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-68, MW-93, MW-113	MW-72, MW-75, MW-80, MW-83, MW-87

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-114*, MW-115*	--

*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 2021. Calculated prediction limits and analytical results for Appendix I parameters are presented in Table 5 and prediction limits exceeded for the third quarter 2022 are summarized below. Newly installed Monitoring wells MW-113 through MW-115 have collected sufficient background data as of the third quarter 2022. Per the SAP , new prediction limits for 2023 will be calculated using data till the end of 2022 Prediction limits for MW-113, MW-114 and MW-115 will be calculated at that time..

	Upgradient and Cross-gradient	Downgradient
Quarterly Sampled Wells	MW-59 (Nitrate as N), MW-66 (cis-1,2-Dichloroethene), MW-81 (cis-1,2-Dichloroethene), MW-83 (cis-1,2-Dichloroethene), MW-93** (total Arsenic, Nitrate as N), MW-94 (cis-1,2-Dichloroethene).	MW-72 (Nitrate as N), MW-74 (cis-1,2-Dichloroethene), MW-75* (total Barium, Nitrate as N), MW-80 (Nitrate as N), MW-87(total Vanadium, Nitrate as N).

MW-76 (total Copper) passed the retesting protocol after a 1-of-3 UPL exceedances in the second quarter of 2022.

A few wells at CHRLF) had 1-of-3 UPL exceedances in the third quarter of 2022, including MW-59 (Nitrate as N), MW-66 (cis-1,2-Dichloroethene), MW-81 (cis-1,2-Dichloroethene), MW-83 (cis-1,2-Dichloroethene), MW-93 (Nitrate as N), MW-94 (cis-1,2-Dichloroethene), MW-72 (Nitrate as N), MW-74 (cis-1,2-Dichloroethene), MW-75 (Nitrate as N), MW-80 (Nitrate as N), MW-87(total Vanadium, Nitrate as N).

Monitoring well MW-75 (total Barium) had 2-of-3 UPL exceedances in the third quarter of 2022. MW-93 again exceeded UPL for arsenic in the third quarter of 2022. A 3-of-3 UPL exceedance was reported in the second quarter of 2022.

County is evaluating few Cedar Hills GW wells through third party consultants and planning to extend the evaluation by adding few more wells as necessary based on recent field observations and data analytics.

Volatile Detections

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

- Cis-1,2-Dicholoroethene was detected in quarterly monitored well MW-59;
- Trichloroethene (TCE) was detected in quarterly monitored wells MW-83, MW-94 and the newly installed wells MW-114 and 115.

These upgradient and cross-gradient well detections are consistent with past data including the recently installed wells (MW-114 and MW-115) and continuing migration from QCF.

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

1.1.2 Perched Zones

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

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

Groundwater elevations measured during the quarter in the Perched Zones are within historical ranges. Samples were collected from sixteen EPZ monitoring wells (MW-30A, MW-47, MW-50, MW-62, MW-102, MW-103, MW-104, MW-105, MW-107, MW-108, MW-109, MW-110, MW-111, MW-112, MW-EB6). MW-101, which monitors the SSWA Perched Zone, was also sampled. Groundwater quality data from perched zones wells collected during the third quarter of 2022 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, then additional sampling will be conducted per the SAP, and results assessed with respect to potential leakage from the lagoon.

This quarter, the conductivity at MW-105 was field measured at 176.8 µmhos/cm.

Analytical Results

Exceedances of regulatory standards for the perched zone wells are tabulated and presented in Table 7. All exceedances are consistent with past analyses and known impacts. MW-101 and MW-109 exceeded Primary Federal Ground Water Quality Criteria for arsenic for multiple consecutive quarters; MW-109 and MW-110 exceeded Primary Federal Ground Water Quality Criteria for both Chromium and total Sodium for multiple quarters; MW-47 exceeded Primary Federal Ground Water Quality Criteria for Vinyl Chloride. Exceedances for EPZ replacement monitoring wells MW-102 through MW-104 and MW-107 through MW-112 are also included in Table 7.

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 aquifer monitoring wells, perched zone prediction limits are derived from cumulative data through the end of 2021. Calculated prediction limits for Appendix I parameters along with analytical results are presented in Table 9.

No UPL exceedances occurred for Perched Zone wells in the third quarter of 2022. Monitoring wells MW-107 through MW-112 now have enough background data from sampling events to calculate prediction limits for analytical parameters. This prediction limit will be calculated for the next quarterly report.

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. Few detections are qualified 'JT' and "D" in Table 10. Qualifier 'JT' indicates sample result present but unquantified or in other words above the method detection limit (MDL) but below the Reporting Detection Limit (RDL). Qualifier 'D' indicates Re-analysis Due to Dilution.

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

1.2 Stormwater

1.2.1 CHRLF ISGP

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

ISGP required monitoring activities for the third quarter of 2022 are listed in Table 12. There were no effluent limit exceedances at any sampling locations during the third quarter of 2022 (see Table 14). ISGP Discharge Monitoring Reports (DMRs) are included in Appendix B.

1.2.2 CHRLF CSWGP

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

The four locations monitored are listed as follows:

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

In Spring 2021 the CSGP permit was fully transferred to the contractor, Goodfellow Bros., and KCSWD was no longer responsible for the permit. KCSWD submitted their last monthly DMR to Ecology for March 2021. The CSGP permit was terminated in fall 2022. There is a plan for a new permit coming in 2023, and if that happens, we will notify.

There were no exceedances at monitoring locations C1, C2 and C4 during the third quarter of 2022 (see Table 14).

1.3 Landfill Gas

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

1.3.1 Compliance Probe Network

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

No methane exceedances were observed at any compliance probe during the third quarter of 2022.

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 third quarter of 2022 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 third quarter of 2022 are presented in Appendix B.

1.3.4 Supplemental Migration Monitoring

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

This quarter, no methane was detected at levels above the detection limit at any monitoring location. These readings are used to inform adjustments to adjacent extraction wells. The location map and supplemental monitoring results are included in Appendix B. Review of historical data indicates the system has been effective in controlling LFG migration to the perimeter probes.

2.0 Analytical Methods

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

2.1 Regulatory Standards

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

2.2 Trilinear Diagrams and Major Ion Balance

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

2.3 Prediction Limits

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

To evaluate the groundwater data for CHRLF, one-sided UPLs are calculated based on intra-well comparisons. Intra-well comparisons present a more conservative approach to determining if a statistically significant release has occurred and is recommended for evaluation of detection monitoring data. In the intra-well approach, a threshold background value is set by determining an UPL. Prediction limits set a comparison threshold for background data with compliance well data and are used to etermine 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 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

$$UPL = x + \kappa s$$

or

Transformed Distribution:

$$UPL = y + \kappa s_y$$

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 Appendix I parameters. If there is an exceedance of the UPL, retesting of that analytical parameter at the respective location is required to determine if the exceedance represents a statistically significant increase over background.

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

2.4 Laboratory Data Quality

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

2.4.1 Lower Limit of Quantification

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

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

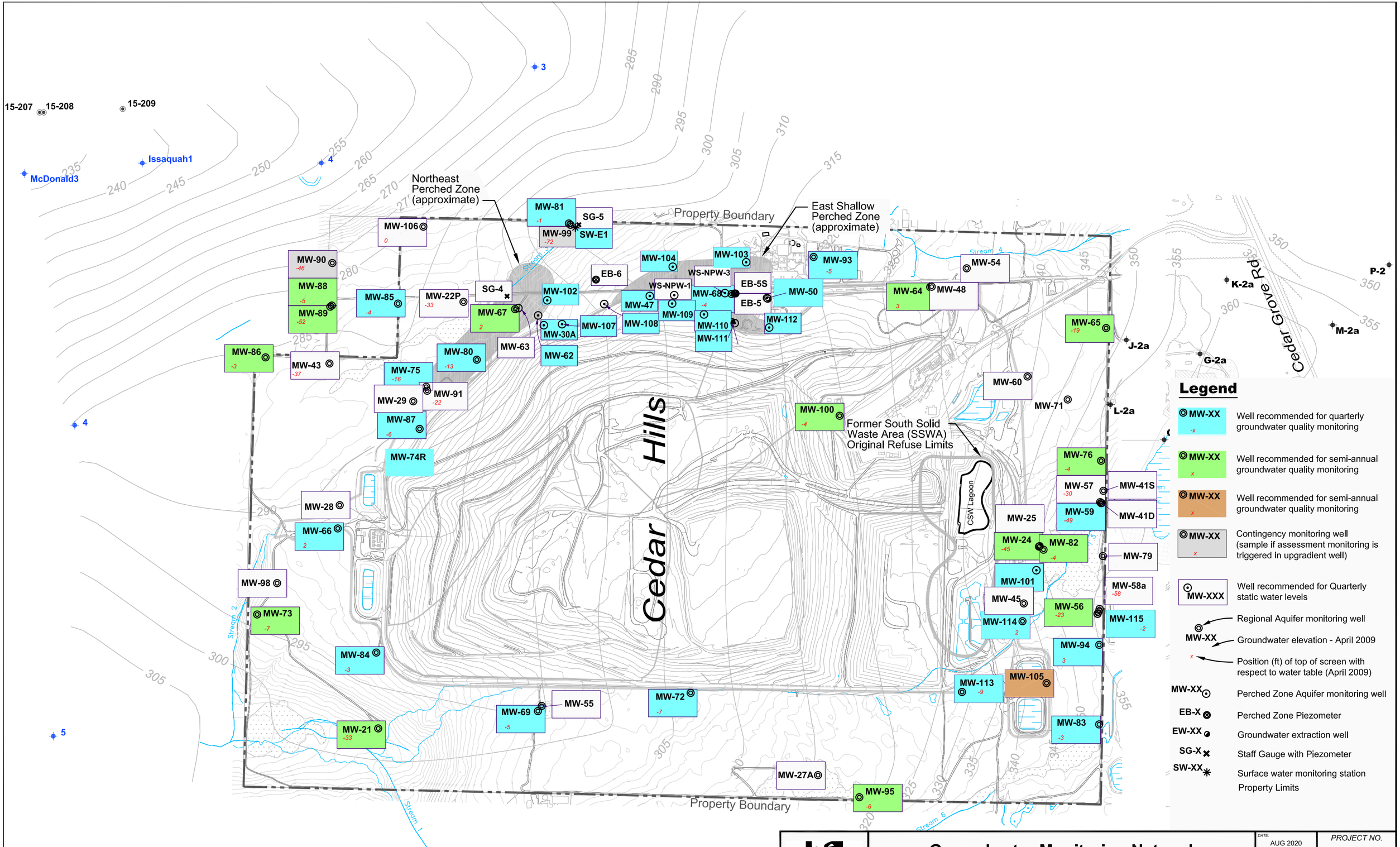
2.4.2 Analytical Uncertainty and Data Review

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

3. 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.



Legend

- MW-XX -x — Well recommended for quarterly groundwater quality monitoring
- MW-XX x — Well recommended for semi-annual groundwater quality monitoring
- MW-XX x — Well recommended for semi-annual groundwater quality monitoring
- MW-XX x — Contingency monitoring well (sample if assessment monitoring is triggered in upgradient well)
- MW-XXX — Well recommended for Quarterly static water levels
- MW-XX — Regional Aquifer monitoring well
- MW-XX — Groundwater elevation - April 2009
- x — Position (ft) of top of screen with respect to water table (April 2009)
- MW-XX — Perched Zone Aquifer monitoring well
- EB-X — Perched Zone Piezometer
- EW-XX — Groundwater extraction well
- SG-X — Staff Gauge with Piezometer
- SW-XX — Surface water monitoring station
- Property Limits

King County

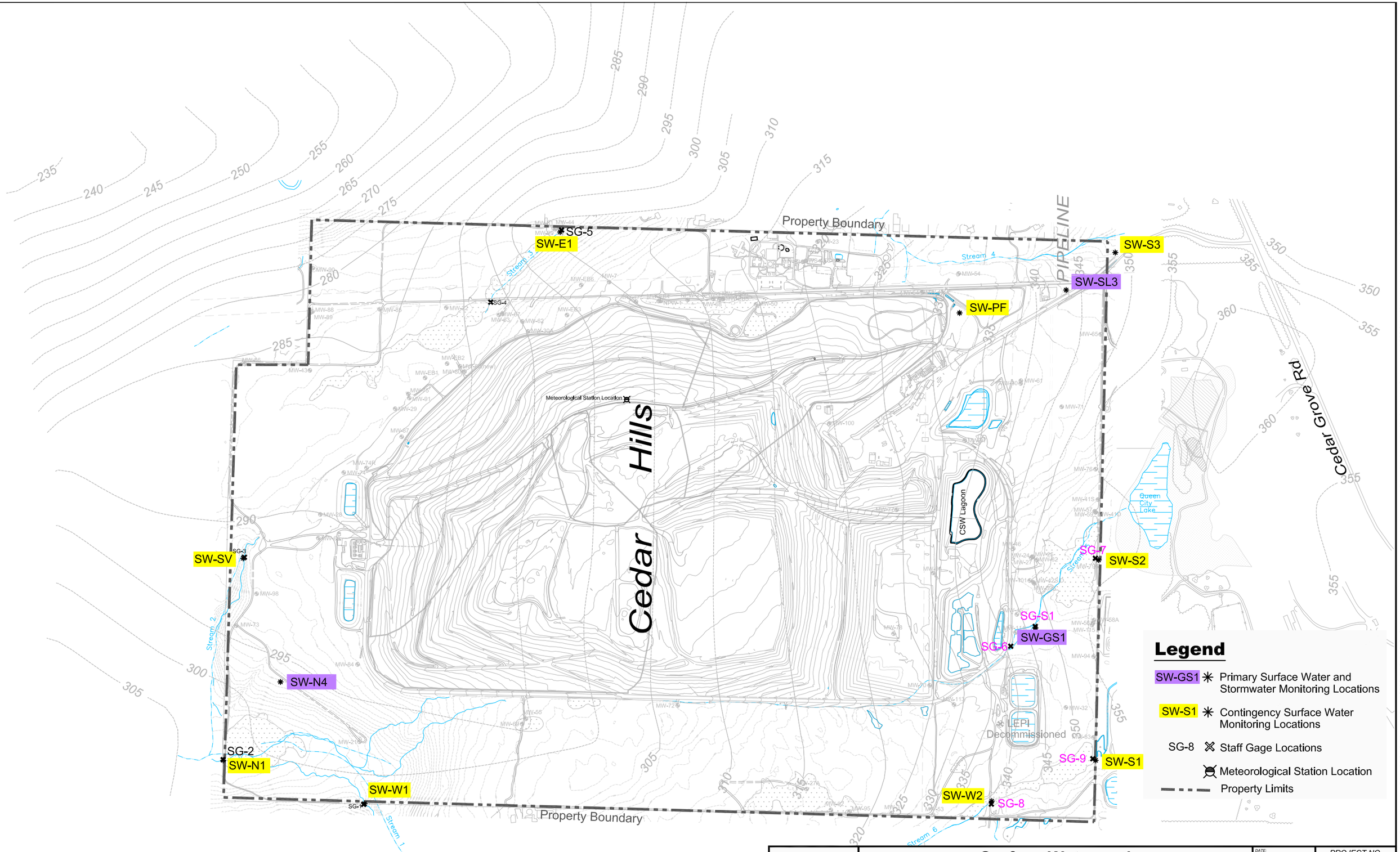
Groundwater Monitoring Network

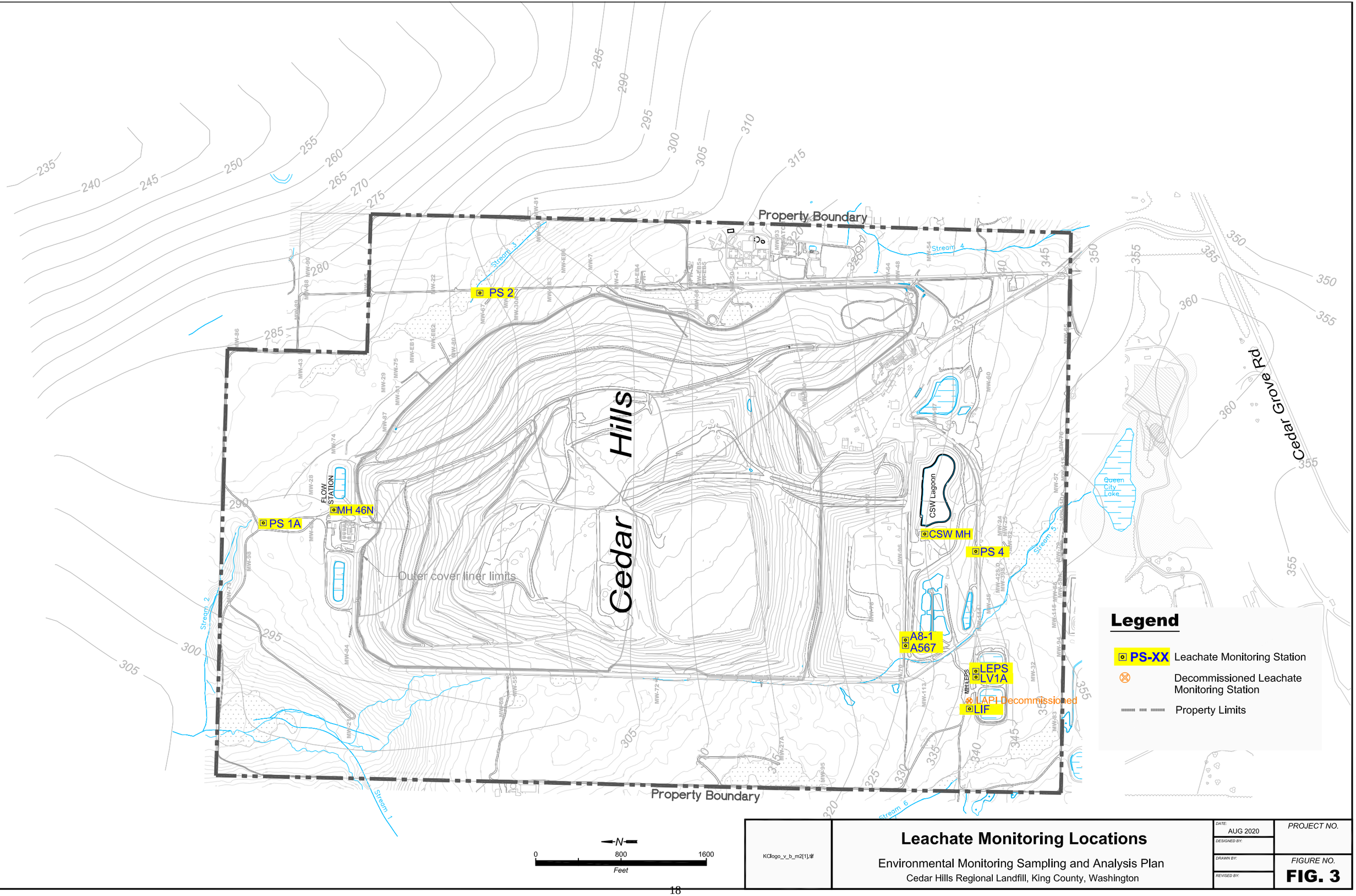
Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE: AUG 2020
DESIGNED BY:
DRAWN BY:
REVISED BY:
PROJECT NO.
FIGURE NO. **FIG. 1**

CAD Path: S:\CAD\CEDARHIL\CH Monitoring well and GP for CLEE quarterly Aug 2020\Fig 7.1 - Fig.1\Fig 1 GW Monitoring Network Aug 2020 2 change background map.dwg Figure 7.1 (11 x 17) || Coordinate System: NAD 1983 State Plane Washington North FIPS 4601 Feet || Date Saved: Jan 14, 2021 4:13pm User: uedag


Property Boundary
SG-5
SW-E1
SW-S3
SW-SL3
SW-PF
PIPELINE
Stream 3
Stream 4
SG-4
Meteorological Station Location
Cedar Hills
Cedar Grove Rd
CSW Lagoon
Queen City Lake
SW-SV
SG-3
SG-7
SW-S2
SG-S1
SW-GS1
SG-6
SW-N4
Stream 2
SG-2
SW-N1
SW-W1
SG-1
Stream 1
LEPI Decommissioned
SG-9
SW-S1
SW-W2
SG-8
Stream 6
Property Boundary
N
0
800
1600
Feet
Legend
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
King County
Surface Water and Storm Monitoring Network
Environmental Monitoring Sampling and Analysis Plan
Cedar Hills Regional Landfill, King County, Washington
DATE: AUG 2020
DESIGNED BY:
DRAWN BY:
REVISED BY:
PROJECT NO.
FIGURE NO.
FIG. 2
CAD Path: S:\CAD\CEDARHIL\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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Leachate Monitoring Locations

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE: AUG 2020

DESIGNED BY:

DRAWN BY:

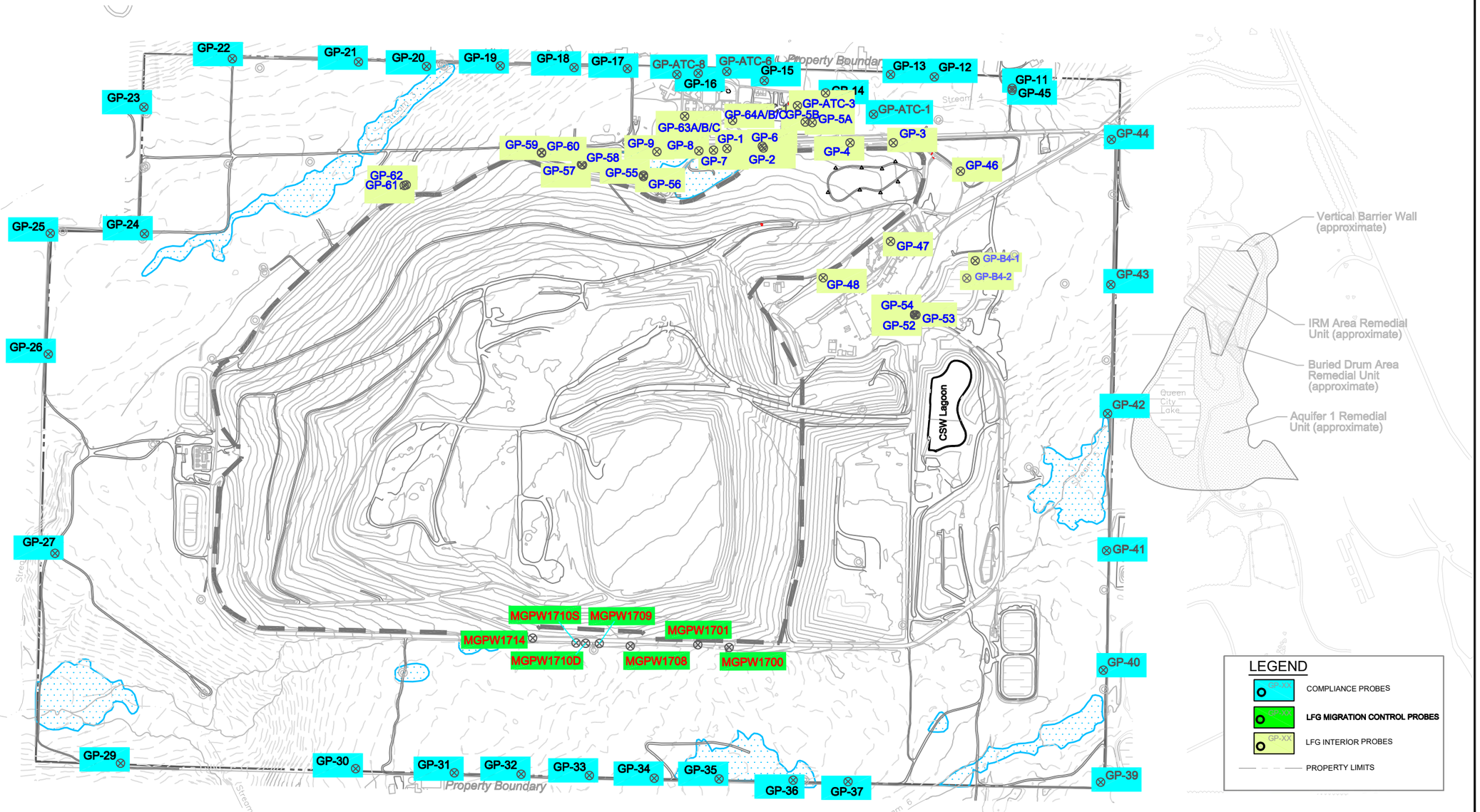
REVISED BY:

PROJECT NO.

FIGURE NO.

FIG. 3

CAD Path: S:\CAD\CEDARHILLS\CH Monitoring well and GP for CLEE quarterly Aug 2020\Fig 3 Fig 3 Leachate map rev 12-21-20.dwg Figure 7.1 (11 x 17) || Coordinate System: NAD 1983 State Plane Washington North FIPS 4601 Feet || Date Saved: Jan 14, 2021 4:21pm || User: uedag



King County

Landfill Gas Migration Monitoring Network

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE: AUG 2020

DESIGNED BY:

DRAWN BY:

REVISED BY:

PROJECT NO.

FIGURE NO.

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 only general indication of background conditions.
MW-74R (Downgradient)	4	249	11/1/00	Water Table	Detection		Quarterly	Quarterly	Detection zone monitors north end facilities. Quarterly monitoring recommended due to
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 intrawell statistics.
MW-89 (Downgradient)	4	291	11/12/01	Deep	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities in deep Regional Aquifer. Continue monitoring in place of MW-43.
MW-90 (Downgradient)	4	274	8/14/02	Deep	Assessment		Quarterly	Contingent	Water quality monitoring redundant with MW-89. Reserve as contingency well in event assessment monitoring is triggered in MW-88,89 or 85.
MW-91 (Downgradient)	6	289	10/26/01	Deep	Detection	WL only	Quarterly	None	Large diameter well used for testing. Redundant with well MW-75.
MW-93 (Cross Gradient)	4	320	6/24/02	Water Table	Detection		Quarterly	Quarterly	Well monitors the Main Hill gas affected area.
MW-94 (Upgradient)	4	145	7/2/02	Water Table	Detection	Background	Quarterly	Quarterly	Quarterly monitoring of QCF impacts in shallow Regional upgradient well.
MW-95 (Cross Gradient)	4	263	7/22/02	Water Table	Detection		Quarterly	Semi-annual	Monitor off-site water quality at southwest end of facility. Downgradient flow paths poorly defined and may by-pass facility.
MW-99 (Upgradient)	4	279	8/30/02	Deep	Assessment		Quarterly	Contingent	Monitors easterly upgradient water quality from offsite. Reserve as contingency well in event assessment monitoring is triggered in MW-81.
MW-100 (Downgradient)	4	300	8/26/02	Water Table	Detection		Quarterly	Semi-annual	Well useful for flowpath and geochemical modeling. Assists in tracking QCF contaminant migration through facility.
MW-106 (Cross gradient)	4	203	2/19/09	Water Table	Detection	WL only	Quarterly	None	Defines east side flow paths.
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	8/221990	Deep	Non-Potable	WL only	Quarterly	None	Well provides non potable water to the fire supression tank on-site
NPW3	6	376	6/51990	Deep	Non-Potable	WL only	Quarterly	None	Well provides non potable water to the fire supression 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 3RD QUARTER 2022

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
Static Water Levels	NA	7/8/22 12:00 AM	Groundwater Elevation Measurement	--	North half of landfill.
Static Water Levels	NA	7/8/22 12:00 AM	Groundwater Elevation Measurement	--	South half of landfill.
MW-21	Regional	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-24	Regional	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-24	Regional	9/27/22 7:35 AM	Groundwater Elevation Measurement		
MW-24	Regional	9/27/22 8:13 AM	Quarterly Groundwater Sampling	W24-220927-	
MW-30A	Perched	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-30A	Perched	7/26/22 7:05 AM	Groundwater Elevation Measurement		
MW-30A	Perched	7/26/22 7:54 AM	Quarterly Groundwater Sampling	W30A220726-	
MW-47	Perched	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-47	Perched	7/26/22 7:20 AM	Groundwater Elevation Measurement		
MW-47	Perched	7/26/22 9:45 AM	Quarterly Groundwater Sampling	W47-220726-	
MW-50	Perched	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-56	Regional	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-56	Regional	9/28/22 8:05 AM	Groundwater Elevation Measurement		
MW-56	Regional	9/28/22 10:22 AM	Quarterly Groundwater Sampling	W56-220928-	
MW-59	Regional	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-59	Regional	7/14/22 11:17 AM	Groundwater Elevation Measurement		
MW-59	Regional	7/14/22 11:50 AM	Quarterly Groundwater Sampling	W59-220714-	
MW-62	Perched	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-64	Perched	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-64	Perched	9/27/22 10:52 AM	Groundwater Elevation Measurement		
MW-64	Perched	9/27/22 12:29 PM	Quarterly Groundwater Sampling	W64-220927-	
MW-65	Regional	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-65	Regional	9/27/22 7:25 AM	Groundwater Elevation Measurement		
MW-65	Regional	9/27/22 8:10 AM	Quarterly Groundwater Sampling	W65-220927-	
MW-66	Regional	7/8/22 12:00 AM	Groundwater Elevation Measurement		
MW-66	Regional	7/12/22 8:10 AM	Groundwater Elevation Measurement		
MW-66	Regional	7/12/22 8:41 AM	Quarterly Groundwater Sampling	W66-220712-	
MW-67	Regional	7/8/22	Groundwater Elevation Measurement		
MW-68	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-68	Regional	7/15/2022	Groundwater Elevation Measurement		
MW-68	Regional	7/15/22	Quarterly Groundwater Sampling	W68-220715-	
MW-69	Regional	7/8/22	Groundwater Elevation Measurement		
MW-72	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-72	Regional	7/12/22	Groundwater Elevation Measurement		
MW-72	Regional	7/12/22	Quarterly Groundwater Sampling	W72-220712-	
MW-73	Regional	7/8/22	Groundwater Elevation Measurement		
MW-74R	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-74R	Regional	7/12/22	Groundwater Elevation Measurement		
MW-74R	Regional	7/12/22	Quarterly Groundwater Sampling	W74R220712-	
MW-75	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-75	Regional	7/12/22	Groundwater Elevation Measurement		

TABLE 2

CEDAR HILLS REGIONAL LANDFILL:

GROUNDWATER MONITORING ACTIVITIES 3RD QUARTER 2022

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-75	Regional	7/12/22	Quarterly Groundwater Sampling	W75-220712-	
MW-76	Regional	7/8/22	Groundwater Elevation Measurement		
MW-76	Regional	9/27/2022	Groundwater Elevation Measurement		
MW-76	Regional	9/27/22	Quarterly Groundwater Sampling	W76-220927-	
MW-80	Regional	7/8/22	Groundwater Elevation Measurement		
MW-80	Regional	7/15/2022	Groundwater Elevation Measurement		
MW-80	Regional	7/15/2022	Quarterly Groundwater Sampling	W80-220715-	
MW-81	Regional	7/8/22	Groundwater Elevation Measurement		
MW-81	Regional	7/11/22	Groundwater Elevation Measurement		
MW-81	Regional	7/11/2022	Quarterly Groundwater Sampling	W81-220711-	
MW-82	Regional	7/8/22	Groundwater Elevation Measurement		
MW-82	Regional	9/27/22	Groundwater Elevation Measurement		
MW-82	Regional	9/27/22	Quarterly Groundwater Sampling	W82-220927-	
MW-83	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-83	Regional	7/14/22	Groundwater Elevation Measurement		
MW-83	Regional	7/14/22	Quarterly Groundwater Sampling	W83-220714-	
MW-84	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-84	Regional	7/11/22	Groundwater Elevation Measurement		
MW-84	Regional	7/11/22	Quarterly Groundwater Sampling	W84-220711-	
MW-85	Regional	7/8/22	Groundwater Elevation Measurement		
MW-85	Regional	7/13/2022	Groundwater Elevation Measurement		
MW-85	Regional	7/13/22	Quarterly Groundwater Sampling	W85-220713-	
MW-86	Regional	7/8/22	Groundwater Elevation Measurement		
MW-87	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-87	Regional	7/12/2022	Groundwater Elevation Measurement		
MW-87	Regional	7/12/22	Quarterly Groundwater Sampling	W87-220712-	
MW-88	Regional	7/8/22	Groundwater Elevation Measurement		
MW-89	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-90	Regional	7/8/22	Groundwater Elevation Measurement		
MW-93	Regional	7/9/22	Groundwater Elevation Measurement		
MW-93	Regional	7/13/22	Groundwater Elevation Measurement		
MW-93	Regional	7/13/2022	Quarterly Groundwater Sampling	W93-220713-	
MW-94	Regional	7/8/22	Groundwater Elevation Measurement		
MW-94	Regional	7/14/22	Groundwater Elevation Measurement		
MW-94	Regional	7/14/2022	Quarterly Groundwater Sampling	W94-220714-	
MW-95	Regional	7/8/22	Groundwater Elevation Measurement		
MW-95	Regional	9/27/22	Groundwater Elevation Measurement		
MW-95	Regional	9/27/22	Quarterly Groundwater Sampling	W95-220927-	
MW-99	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-EB6	Perched	7/8/22	Groundwater Elevation Measurement		
MW-EB6	Perched	7/14/2022	Groundwater Elevation Measurement		

TABLE 2

CEDAR HILLS REGIONAL LANDFILL:

GROUNDWATER MONITORING ACTIVITIES 3RD QUARTER 2022

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-EB6	Perched	7/14/2022	Quarterly Groundwater Sampling	WEB6220714-	
MW-100	Regional	7/8/22	Groundwater Elevation Measurement		
MW-101	Perched	7/8/22	Groundwater Elevation Measurement		
MW-101	Perched	8/1/22	Groundwater Elevation Measurement		
MW-101	Perched	8/1/22	Quarterly Groundwater Sampling	W101220801-	
MW-102	Perched	7/8/22	Groundwater Elevation Measurement		
MW-102	Perched	7/18/2022	Groundwater Elevation Measurement		
MW-102	Perched	7/18/22	Quarterly Groundwater Sampling	W102220718-	
MW-103	Perched	7/8/2022	Groundwater Elevation Measurement		
MW-103	Perched	7/21/22	Groundwater Elevation Measurement		
MW-103	Perched	7/21/22	Quarterly Groundwater Sampling	W103220721-	
MW-104	Perched	7/8/22	Groundwater Elevation Measurement		
MW-105	Perched	7/8/2022	Groundwater Elevation Measurement		
MW-107	Perched	7/8/22	Groundwater Elevation Measurement		
MW-107	Perched	7/15/2022	Groundwater Elevation Measurement		
MW-107	Perched	7/15/2022	Quarterly Groundwater Sampling	W107220715-	
MW-108	Perched	7/8/22	Groundwater Elevation Measurement		
MW-109	Perched	7/8/22	Groundwater Elevation Measurement		
MW-109	Perched	7/21/22	Groundwater Elevation Measurement		
MW-109	Perched	7/21/22	Quarterly Groundwater Sampling	W109220721-	
MW-110	Perched	7/8/22	Groundwater Elevation Measurement		
MW-110	Perched	7/20/2022	Groundwater Elevation Measurement		
MW-110	Perched	7/20/22	Quarterly Groundwater Sampling	W110220720-	
MW-111	Perched	7/8/2022	Groundwater Elevation Measurement		
MW-111	Perched	7/15/22	Groundwater Elevation Measurement		
MW-111	Perched	7/21/22	Quarterly Groundwater Sampling	W111220721-	
MW-112	Perched	7/8/22	Groundwater Elevation Measurement		
MW-112	Perched	7/15/2022	Groundwater Elevation Measurement		
MW-112	Perched	7/15/22	Quarterly Groundwater Sampling	W112220715-	
MW-113	Regional	7/8/2022	Groundwater Elevation Measurement		
MW-113	Regional	7/13/2022	Groundwater Elevation Measurement		
MW-113	Regional	7/13/22	Quarterly Groundwater Sampling	W113220713-	
MW-114	Regional	7/8/22	Groundwater Elevation Measurement		
MW-114	Regional	7/13/22	Groundwater Elevation Measurement		
MW-114	Regional	7/13/22	Quarterly Groundwater Sampling	W114220713-	
MW-115	Regional	7/8/22	Groundwater Elevation Measurement		
MW-115	Regional	7/14/2022	Groundwater Elevation Measurement		
MW-115	Regional	7/21/22	Groundwater Elevation Measurement		
MW-115	Regional	7/14/2022	Quarterly Groundwater Sampling	W115220714-	
MW-115	Regional	7/21/22	Quarterly Groundwater Sampling	W115220721R	

Table 3
CEDAR HILLS REGIONAL LANDFILL:
REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from July 01, 2022 to September 30, 2022)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Upgradient and Crossgradient Wells					
pH (Field)	pH Units	MW-114	7/13/2022	W114220713-	6.1
		MW-115	7/14/2022	W115220714-	5.85
		MW-115	7/21/2022	W115220721R	6
		MW-59	7/14/2022	W59-220714-	6.47
		MW-83	7/14/2022	W83-220714-	6.26
		MW-84	7/11/2022	W84-220711-	6.4
		MW-94	7/14/2022	W94-220714-	6.14
Arsenic, Total	µg/L	MW-113	7/13/2022	W113220713-	0.571
		MW-114	7/13/2022	W114220713-	0.298
		MW-115	7/14/2022	W115220714-	0.19
		MW-59	7/14/2022	W59-220714-	0.426
		MW-66	7/12/2022	W66-220712-	0.69
		MW-68	7/15/2022	W68-220715-	71.8
		MW-81	7/11/2022	W81-220711-	0.559
		MW-83	7/14/2022	W83-220714-	0.346
		MW-84	7/11/2022	W84-220711-	0.339
		MW-93	7/13/2022	W93-220713-	1.54
		MW-94	7/14/2022	W94-220714-	0.134
Iron, Dissolved	µg/L	MW-113	7/13/2022	W113220713-	1270
		MW-59	7/14/2022	W59-220714-	4640
		MW-68	7/15/2022	W68-220715-	442
Manganese, Dissolved	µg/L	MW-113	7/13/2022	W113220713-	415
		MW-59	7/14/2022	W59-220714-	130
		MW-68	7/15/2022	W68-220715-	270
		MW-93	7/13/2022	W93-220713-	168
Trichlorothene	µg/L	MW-114	7/13/2022	W114220713-	11.5
		MW-115	7/14/2022	W115220714-	5.11
		MW-115	7/21/2022	W115220721R	4.86

Table 4
Ion Balance Calculations.
Cedar Hills Regional Landfill.
Regional Groundwater Monitoring Wells
Data Collected from July 01, 2022 - September 30 2022

			Quarterly Upgradient and Crossgradient Wells																
	Site ID		MW-59			MW-66			MW-81			MW-83			MW-84			MW-93		
	Date		7/14/22			7/12/22			7/11/22			7/14/22			7/11/22			7/13/22		
Cations	**Molecular Weight**	**n**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	%(meq)
pH			6.5			6.8			6.7			6.3			6.4			7.1		
Conductance			217.8			204.2			162.6			589.0			176.0			298.9		
TDSobs			139.0			131.0			116.0			377.0			115.0			199.0		
Calcium	40.1	2	19.5	0.97	39.8	17.2	0.86	37.3	15.6	0.78	43.8	67.6	3.37	50.5	15.2	0.76	38.2	32.2	1.61	46.7
Magnesium	24.3	2	12.0	0.99	40.4	13.4	1.10265	47.9	8.4	0.69	39.1	32.5	2.67	40.0	11.1	0.91339	46.0	16.9	1.39	40.4
Potassium	39.1	1	1.2	0.031	1.3	1.2	0.03	1.3	0.9	0.023	1.3	3.3	0.08	1.3	1.2	0.03	1.5	1.6	0.04	1.2
Sodium	23.0	1	6.5	0.28	11.5	7.1	0.31	13.5	6.5	0.28	15.8	12.2	0.53	7.9	6.5	0.28	14.3	9.1	0.40	11.5
Iron	55.8	2	4.6	0.17	6.8	0.0	0.00036	0.016	0.0	0.00036	0.02	0.1	0.00314	0.0470	0.0	0.00036	0.018	0.0	0.00036	0.010
Manganese	54.9	2	0.13	0.004732608	0.19	0.00	3.7E-06	0.0002	0.00	3.6E-06	0.0002	0.41	0.015	0.2245	0.00	4.4E-05	0.002	0.17	0.00612	0.1776
Ammonia-N	14.0	1	0.006	0.000406939	0.02	0.002	0.00014	0.006	0.002	0.00014	0.008	0.014	0.00099	0.0149	0.002	0.00014	0.007	0.055	0.00393	0.114
				2.45			**2.3**			**1.8**			**6.7**			**2.0**			**3.4**	
Alkalinity, Total			78.8			89.1			61.2			205.0			75.3			126.0		
Carbonate	60.0	2	0.003	0.000106466	0.0	0.006	0.00021	0.0	0.005	0.00018	0.0	0.002	7.7E-05	0.0	0.003	0.00011	0.0	0.016	0.00052	0.040
Bicarbonate	61.0	1	21.95	0.36	34.4	23.17	0.38	45.5	24.39	0.40	45.6	25.62	0.42	15.2	26.83	0.44	51.8	28.03	0.46	35.6
Chloride	35.5	1	12.8	0.36	34.5	4.1	0.11	13.7	4.6	0.13	14.8	72.9	2.06	74.7	3.3	0.09	10.9	2.6	0.07	5.6
Nitrate-N	14.0	1	0.010	0.000713929	0.07	0.548	0.039	4.7	1.460	0.10	11.9	0.353	0.03	0.9	0.101	0.01	0.8	0.023	0.00	0.1
Sulfate	96.1	2	15.6	0.32	31.0	14.5	0.30	36.1	11.7	0.24	27.8	12.1	0.25	9.2	14.9	0.31	36.5	36.3	0.76	58.6
Total Anions (meq/L)				**1.05**			**0.8**			**0.9**			**2.8**			**0.8**			**1.3**	
Total Ions (meq/L)				**3.5**			**3.1**			**2.7**			**9.4**			**2.8**			**4.7**	
Cation/Anion Ratio				**2.34**			**2.76**			**2.03**			**2.43**			**2.34**			**2.67**	
Percent Difference				**40.1**			**46.7**			**33.9**			**41.6**			**40.1**			**45.5**	
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)				2.27			2.30			1.78			6.66			1.99			3.43	
Calcium					42.79			37.30			43.79			50.63			38.19			46.79
Magnesium					43.42			47.93			39.07			40.14			45.99			40.50
Sodium + Potassium					13.79			14.77			17.14			9.22			15.83			12.70
sum (SO_4, Cl, HCO_3+CO_3)				1.05			0.80			0.77			2.73			0.84			1.29	
Sulfate					31.06			37.92			31.50			9.23			36.83			58.66
Chloride					34.52			14.35			16.78			75.37			10.95			5.65
Bicarbonate + Carbonate					34.42			47.73			51.72			15.39			52.22			35.70

Table 4
Ion Balance Calculations.
Cedar Hills Regional Landfill.
Regional Groundwater Monitoring Wells
Data Collected from July 01, 2022 - September 30 2022

			Quarterly Upgradient and Crossgradient Wells																
	Site ID		MW-94			MW-113			MW-114			MW-115			MW-68			MW-72		
	Date		7/14/22			7/13/22			7/13/22			7/14/22			7/15/22			7/12/2022		
Cations	**Molecular Weight**	**n**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**
pH			6.1			6.7			6.1			5.9			6.6			6.8		
Conductance			275.0			362.2			288.0			316.4			256.9			316.3		
TDSobs			183.0			237.0			203.0			204.0			157.0			200.0		
Calcium	40.1	2	30.0	1.50	49.0	38.4	1.92	46.4	30.1	1.50	48.5	35.5	1.77	51.4	26.9	1.34	45.2	31.7	1.58	43.1
Magnesium	24.3	2	13.4	1.10	36.1	20.9	1.72	41.6	15.1	1.24	40.2	15.5	1.28	37.0	14.4	1.18	39.9	19.2	1.58	43.0
Potassium	39.1	1	2.6	0.07	2.2	2.1	0.05	1.3	2.3	0.06	1.9	2.2	0.06	1.7	1.6	0.04	1.4	2.0	0.05	1.4
Sodium	23.0	1	8.9	0.39	12.7	8.8	0.38	9.3	6.7	0.29	9.4	7.9	0.34	10.0	8.7	0.38	12.7	8.0	0.34972	9.529
Iron	55.8	2	0.0	0.00036	0.012	1.3	0.0454814	1.100	0.0	0.0003581	0.012	0.0	0.0003581	0.010	0.4	0.016	0.53	2.6	0.09454	2.5761
Manganese	54.9	2	0.00	1.2E-05	0.0004	0.42	0.0151079	0.3655	0.00	7.681E-06	0.0002	0.00	4.441E-05	0.0013	0.27	0.010	0.33	0.34	0.01227	0.334
Ammonia-N	14.0	1	0.002	0.00014	0.005	0.017	0.0012208	0.030	0.002	0.0001428	0.005	0.002	0.0001428	0.004	0.017	0.001	0.042	0.016	**0.0**	
				3.1			**4.1**			**3.1**			**3.4**			**3.0**			**3.7**	
Alkalinity, Total			114.0			144.0			107.0			127.0			123.0			132.0		
Carbonate	60.0	2	0.002	6.6E-05	0.006	0.008	0.0002629	0.017	0.002	6.561E-05	0.005	0.001	3.832E-05	0.002	0.007	0.00024	0.02	0.012	0.00	0.0
Bicarbonate	61.0	1	29.28	0.48	42.4	30.48	0.50	32.4	31.72	0.52	37.8	32.94	0.54	35.2	35.37	0.58	59.1	37.79	0.62	41.8
Chloride	35.5	1	15.7	0.44	39.2	29.3	0.83	53.6	19.3	0.54	39.6	25.3	0.71	46.5	3.1	0.088	9.0	8.2	0.23	15.6
Nitrate-N	14.0	1	0.645	0.05	4.1	0.010	0.00	0.0	2.130	0.15	11.1	1.190	0.08	5.5	0.010	0.00071	0.073	0.010	0.00	0.0
Sulfate	96.1	2	7.8	0.16	14.3	10.3	0.21	13.9	7.7	0.16	11.6	9.4	0.20	12.7	15.0	0.31	31.8	30.3	**0.6**	
Total Anions (meq/L)				**1.1**			**1.5**			**1.4**			**1.5**			**1.0**			**1.5**	
Total Ions (meq/L)				**4.2**			**5.7**			**4.5**			**5.0**			**4.0**			5.153	
Cation/Anion Ratio				**2.70**			**2.68**			**2.25**			**2.25**			**3.03**			**2.476**	
Percent Difference				**45.9**			**45.7**			**38.4**			**38.4**			**50.4**			**42.456**	
Trilinear Diagram Data																				
sum (Ca, Mg, Na+K)				3.05			4.07			3.09			3.45			2.95			3.56	
Calcium					49.03			47.06			48.55			51.38			45.56			44.41
Magnesium					36.12			42.24			40.16			37.00			40.22			44.35
Sodium + Potassium					14.85			10.71			11.29			11.62			14.21			
																				100.000
sum (SO_4, Cl, HCO_3+CO_3)				1.08			1.54			1.22			1.45			0.98			1.48	
Sulfate					14.95			13.92			13.03			13.49			31.86			42.58
Chloride					40.82			53.64			44.48			49.25			8.98			15.59
Bicarbonate + Carbonate					44.23			32.45			42.48			37.26			59.16			41.84

Table 4
Ion Balance Calculations.
Cedar Hills Regional Landfill.
Regional Groundwater Monitoring Wells
Data Collected from July 01, 2022 - September 30 2022

			Quarterly Downgradient to Waste Cells and North End Facilities													
	Site ID		MW-74R			MW-75			MW-80			MW-85			MW-87	
	Date		7/12/22			7/12/22			7/15/22			7/13/22			7/12/22	
Cations	**Molecular Weight**	**n**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**
pH			6.2			6.4			6.8			6.7			6.3		
Conductance			581.0			377.0			297.8			359.6			513.0		
TDSobs			367.0			259.0			199.0			227.0			374.0		
Calcium	40.1	2	56.0	2.79	40.7	35.0	1.75	39.8	32.7	1.63	47.1	37.4	1.87	44.2	48.4	2.42	41.4
Magnesium	24.3	2	42.0	3.46	50.3	25.2	2.07	47.3	16.5	1.36	39.2	22.9	1.88	44.6	32.9	2.71	46.4
Potassium	39.1	1	2.4	0.06	0.9	2.1	0.05	1.2	1.7	0.042	1.2	1.8	0.046	1.1	2.6	0.07	1.1
Sodium	23.0	1	12.8	0.56	8.1	9.1	0.40	9.0	7.7	0.34	9.7	9.8	0.426	10.1	10.4	0.45	7.8
Iron	55.8	2	0.0	0.00036	0.005	3.0	0.11	2.46	2.3	0.082	2.4	0.0	0.00036	0.0085	4.8	0.17047	2.923
Manganese	54.9	2	0.00	3.6E-06	0.00005	0.26	0.00961	0.22	0.35	0.013	0.37	0.00	3.6E-06	0.00009	0.51	0.01838	0.3153
Ammonia-N	14.0	1	0.002	0.00014	0.002	0.010	0.00068	0.015	0.011	0.00079	0.023	0.002	0.00014	0.0034	0.021	0.00149	0.026
				6.9			**4.4**			**3.5**			**4.2**			**5.8**	
Alkalinity, Total			250.0			121.0			125.0			161.0			122.0		
Carbonate	60.0	2	0.003	9.3E-05	0.00	0.005	0.00017	0.01	0.012	0.00041	0.03	0.011	0.00035	0.02	0.004	0.00015	0.004
Bicarbonate	61.0	1	39.03	0.64	26.7	40.25	0.66	27.1	41.45	0.68	45.4	42.68	0.70	43.0	45.13	0.74	18.9
Chloride	35.5	1	32.8	0.93	38.6	13.9	0.39	16.1	4.8	0.13	9.0	9.5	0.27	16.5	17.0	0.48	12.3
Nitrate-N	14.0	1	0.320	0.02285	0.95	0.010	0.00071	0.029	0.010	0.00071	0.05	0.102	0.00728	0.4	0.010	0.00	0.0
Sulfate	96.1	2	38.8	0.81	33.7	66.3	1.38	56.7	32.7	0.68	45.5	31.3	0.65	40.0	129.0	2.69	68.8
Total Anions (meq/L)				**2.4**			**2.4**			**1.5**			**1.6**			**3.9**	
Total Ions (meq/L)				**9.3**			**6.8**			**5.0**			**5.9**			**9.7**	
Cation/Anion Ratio				**2.87**			**1.80**			**2.31**			**2.59**			**1.49**	
Percent Difference				**48.3**			**28.7**			**39.7**			**44.4**			**19.8**	
Trilinear Diagram Data																	
sum (Ca, Mg, Na+K)				6.87			4.27			3.37			4.22			5.64	
Calcium					40.69			40.90			48.45			44.20			42.82
Magnesium					50.32			48.57			40.31			44.63			48.00
Sodium + Potassium					8.99			10.53			11.24			11.17			9.19
sum (SO_4, Cl, HCO_3+CO_3)				2.37			2.43			1.50			1.62			3.91	
Sulfate					34.04			56.75			45.53			40.21			68.78
Chloride					38.99			16.12			9.00			16.60			12.28
Bicarbonate + Carbonate					26.97			27.13			45.47			43.19			18.95

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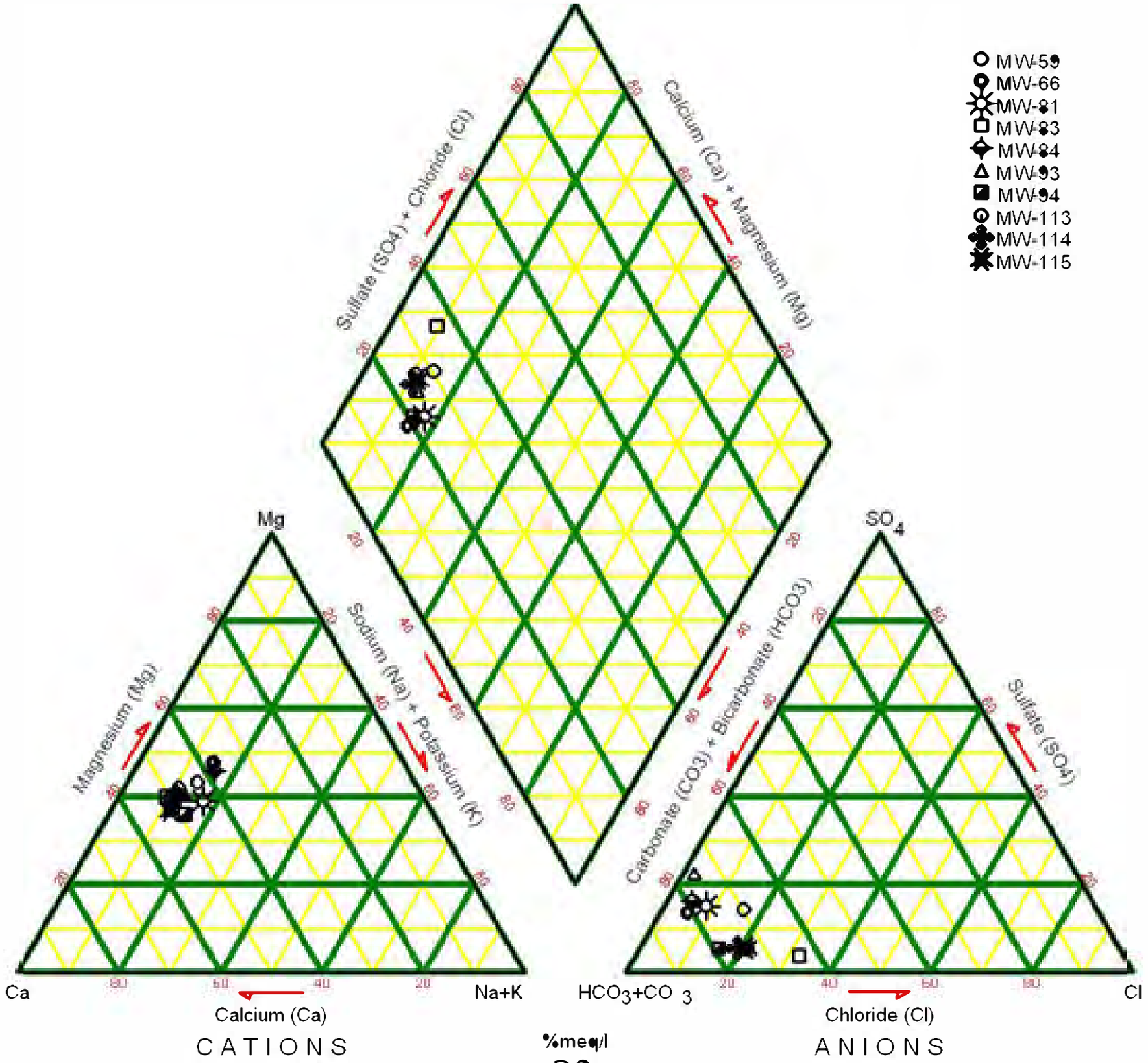

igure Trilinear Diagram Do ngradient egional ells
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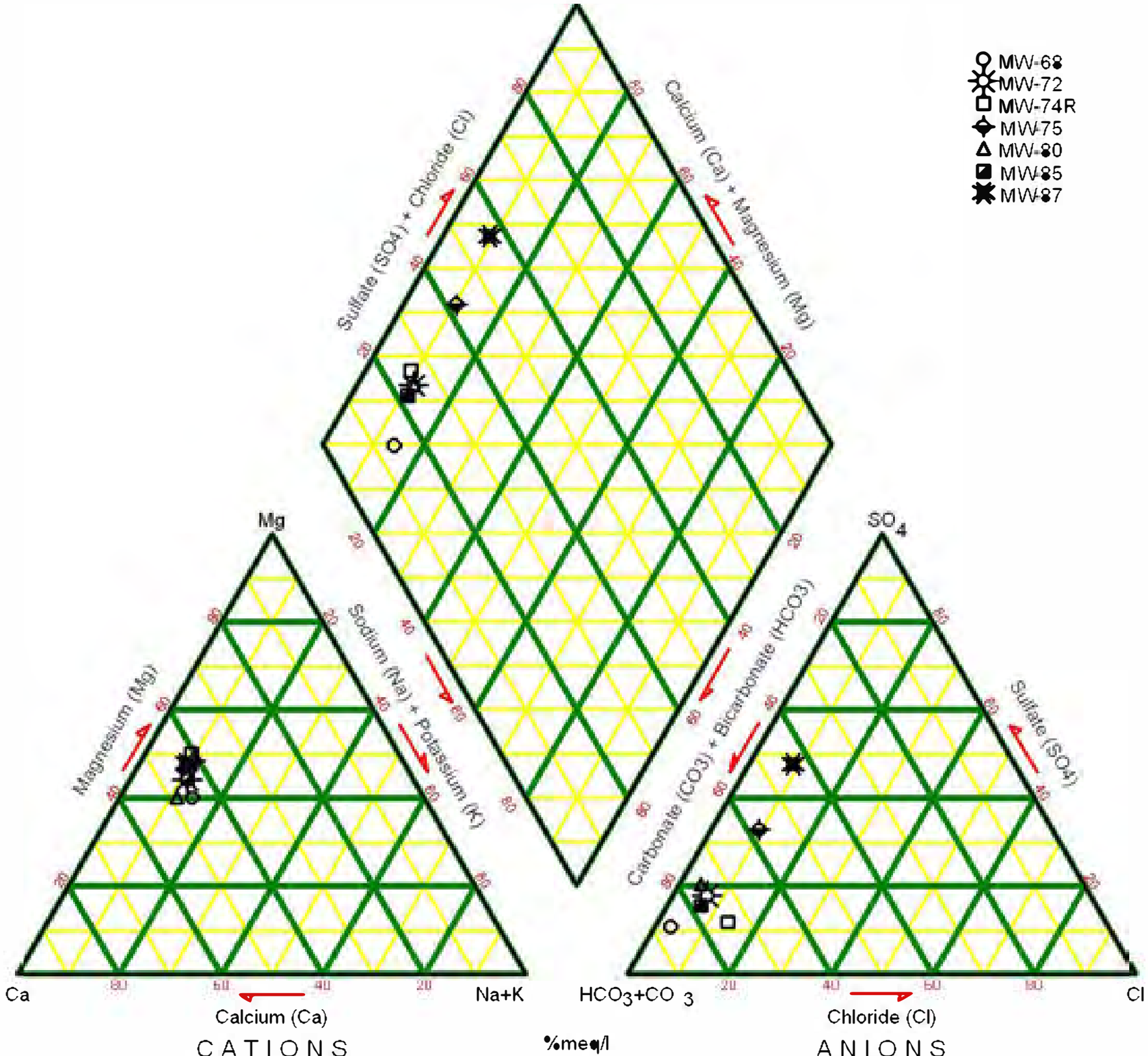


TABLE 5
INTRAWELL PREDICTION LIMIT VALUES AND RESULTS.
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY AND SEMI-ANNUAL MONITORING WELLS
(Data Collected from July 01, 2022 - September 31, 2022)

Well	Parameter / Units	Total Antimony ug/L	Total Arsenic ug/L	Total Barium ug/L	Total Beryllium ug/L	Total Cadmium ug/L	Total Chromium ug/L	Total Cobalt ug/L	Total Copper ug/L	Total Lead ug/L	Total Nickel ug/L	Total Selenium ug/L	Total Silver ug/L	Total Thallium ug/L	Total Vanadium ug/L	Total Zinc ug/L	Nitrate as N mg/L	cis -1,2-Dichloroethene ug/L	Tetrachloroethene *ug/L*	Trichloroethene ug/L	Vinyl Chloride ug/L
Upgradient and Crossgradient Wells																					
MW-59	Limit	1	1	5.1161	1	2	5	3	2	1	10	1	3	1	2	7.48	0.05	1.41	0.2	0.2	0.02
	Result	<0.3	0.426	4.74	<0.1	<0.05	0.61	<0.05	0.2	<0.1	0.39	<0.5	<0.04	0.075	0.075	1.59	**1.36**	<0.01	<0.1	<0.1	<0.01
MW-66	Limit	1	1	6.7714	1	2	5	3	2	1	10	1.04	3	1	2	4	0.910	0.2	0.2	0.2	0.02
	Result	<0.3	0.69	4.25	<0.1	<0.05	0.299	<0.05	0.2	<0.1	0.315	0.902	<0.04	0.075	0.741	1.32	0.1	**0.548**	<0.1	<0.1	<0.01
MW-81	Limit	1	1	4.8700	1	2	5	3	2	1	10	1.04	3	1	2.53	8.95	1.7376423	0.2	0.2	0.2	0.02
	Result	<0.3	0.559	3.64	<0.1	<0.05	0.469	<0.05	0.27	<0.1	0.659	0.853	<0.04	0.075	1.78	0.995	0.1	**1.46**	<0.1	<0.1	<0.01
MW-83	Limit	1	1	12.3680	1	2	62.8	3	7.71	1	10	1	3	1	2	4	4.97	0.2	0.2	2.82	0.02
	Result	<0.3	0.346	7.43	<0.1	<0.05	0.333	0.139	2.05	<0.1	2.84	<0.5	<0.04	0.075	0.797	2.24	0.1	**0.353**	<0.1	1.3	<0.01
MW-84	Limit	1	1	5.0300	1	2	5	3	2	1	10	1	3	1	2	4	0.662	0.2	0.2	0.2	0.02
	Result	<0.3	0.339	4.85	<0.1	<0.05	0.2	<0.05	0.2	<0.1	0.424	<0.5	<0.04	0.075	0.587	0.891	0.1	0.101	<0.1	<0.1	<0.01
MW-93	Limit	1	1.46090887	10.8000	1	2	5	3	2	1	10	1	3	1	2.65	11.2000	0.0549	0.2	0.2	0.2	0.02
	Result	<0.3	**1.54**	8.01	<0.1	<0.05	0.324	0.0842	0.374	<0.1	0.483	<0.5	<0.04	0.075	2.32	5.26	**0.1**	0.023 T	<0.1	<0.1	<0.01
MW-94	Limit	1	1	5.4200	1	2	5	3	5.1	1	10	1	3	1	2	4	2.56	0.2	0.2	3.54	0.02
	Result	<0.3	0.134	1.98	<0.1	<0.05	0.2	0.134	1.57	<0.1	0.726	<0.5	<0.04	0.075	1.29	0.719	0.1	**0.645**	<0.1	2.04	<0.01
Downgradient Wells																					
MW-68	Limit	1	325.78304	19.7000	1	2	5	1.5	11.599948	1	5	1	3	1	3.7	4	0.05	0.20	1	0.2	0.02
	Result	<0.3	71.8	11.6	<0.1	<0.05	0.286	0.225	1.59	0.1	0.599	<0.5	<0.04	0.075	1.27	1.1	<0.1	<0.01	<0.1	<0.1	<0.01
MW-69*	Limit	1	3.86	14.1738	1	2	5	3	2	1	10	1	3	1	2	11.2	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	1	1	16.1904	1	2	5	3	3.31	1.04	10	1	3	1	2	25.8331325	0.068	0.2	0.2	0.2	0.02
	Result	<0.3	0.157	13.6	<0.1	<0.05	0.552	<0.05	<0.0002	<0.0001	0.204	0.5	<0.00004	<0.000075	0.134	1.17	**0.1**	<0.01	<0.1	<0.1	<0.01
MW-74R	Limit	1	1.45	15.9477	1	2	5	3	2	1	10	1.04	3	1	2	4	0.49	0.2	0.2	0.20	0.02
	Result	<0.3	0.424	15	<0.1	<0.05	0.214	<0.05	<0.0002	<0.0001	1.08	0.715	<0.00004	<0.000075	0.699	0.61	0.1	**0.32**	<0.1	<0.1	<0.01
MW-75	Limit	1	1	13.9271	1	2	5	3	2	1	10	1	3	1	2	4	0.050	0.2	0.2	0.2	0.02
	Result	<0.3	0.506	**14.8**	<0.1	<0.05	0.2	<0.05	<0.0002	<0.0001	0.123	0.5	<0.00004	<0.000075	0.119	0.831	**0.1**	<0.01	<0.1	<0.1	<0.01
MW-80	Limit	1	39.2	23.0000	1	2	5	3	2	1	10	1	3	1	2	11.7000	0.028	0.2	1	0.2	0.02
	Result	<0.3	3.18	15.2	<0.1	<0.05	0.2	<0.05	<0.0002	<0.0001	0.285	0.5	<0.00004	<0.000075	0.11	1.58	**0.1**	<0.01	<0.1	<0.1	<0.01
MW-85	Limit	1	1	7.6003	1.0000	2	5	3	2	1	10	1.36104486	3	1	2	4	1.63	0.2	0.2	0.20	0.02
	Result	<0.3	0.743	7.6	<0.1	<0.05	0.215	<0.05	<0.0002	<0.0001	0.853	0.000853	<0.00004	<0.000075	1.03	0.539	0.1	0.102	<0.1	<0.1	<0.01
MW-87	Limit	1	25.6	38.3409	1	2	5	3	3.47	1	10	1	3	1	4.68	8.92	0.0803	0.20	0.2	0.2	0.02
	Result	<0.3	**32.8**	**47.4**	0.238	0.0629	1.15	0.217	1.66	0.527	0.476	0.675	<0.00004	<0.000075	**7.11**	3	**0.1**	<0.01	<0.1	<0.1	<0.01

NOTE:
Results greater than Limit Value in **Bold Red**
* MW-69 and MW-86. No sample collected; well was damaged.

TABLE 6

CEDAR HILLS REGIONAL LANDFILL.

REGIONAL AQUIFER VOLATILE ORGANIC COMPOUND DETECTIONS

(Data Collected from July 1, 2022 to September, 2022)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Upgradient and Crossgradient Wells				
Cis- 1,2-Dichloroethene	MW-59	7/14/2022	W59-220714-	1.36
Trichloroethene	MW-114	7/14/2022	W83-220714-	1.3
	MW-115	7/14/2022	W94-220714-	2.04
	MW-83	7/13/2022	W114220713-	11.5
	MW-94	7/14/2022	W115220714-	5.11
Downgradient Wells				
No volatile organic compound detections for this Quarter				

TABLE 7
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from July 01 2022 to September 30, 2022)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
East Perched Zone Wells					
pH (Field)	pH Units	MW-102	7/18/2022	W102220718-	6.36
		MW-107	7/15/2022	W107220715-	5.96
		MW-109	7/21/2022	W109220721-	8.88
		MW-110	7/20/2022	W110220720-	6.19
		MW-111	7/21/2022	W111220721-	5.81
		MW-30A	7/26/2022	W30A220726-	6.36
		MW-47	7/26/2022	W47-220726-	6.28
		MW-EB6	7/14/2022	WEB6220714-	6.17
1,1-Dichloroethane	µg/L	MW-30A	7/26/2022	W30A220726-	1.94
Arsenic, Total	mg/L	MW-101	8/1/2022	W101220801-	11.4
		MW-102	7/18/2022	W102220718-	0.28
		MW-103	7/21/2022	W103220721-	7.96
		MW-107	7/15/2022	W107220715-	3.57
		MW-109	7/21/2022	W109220721-	26
		MW-110	7/20/2022	W110220720-	3.12
		MW-111	7/21/2022	W111220721-	0.524
		MW-112	7/15/2022	W112220715-	3.04
		MW-30A	7/26/2022	W30A220726-	0.58
		MW-47	7/26/2022	W47-220726-	2.38
		MW-EB6	7/14/2022	WEB6220714-	1.38
Iron, Dissolved	mg/L	MW-107	7/15/2022	W107220715-	2240
		MW-109	7/21/2022	W109220721-	10400
		MW-47	7/26/2022	W47-220726-	3080
Manganese, Dissolved	mg/L	MW-107	7/15/2022	W107220715-	1340
		MW-109	7/21/2022	W109220721-	2410 D
		MW-110	7/20/2022	W110220720-	3430 D
		MW-112	7/15/2022	W112220715-	177
		MW-47	7/26/2022	W47-220726-	1020 D
Sodium	mg/l	MW-109	7/21/2022	W109220721-	701000 D
		MW-110	7/20/2022	W110220720-	30700
Vinyl Chloride	µg/L	MW-107	7/15/2022	W107220715-	0.058 D
		MW-109	7/21/2022	W109220721-	0.127 DJT
		MW-110	7/20/2022	W110220720-	0.208 D
		MW-47	7/26/2022	W47-220726-	3.44 D
Benzene	µg/L	MW-109	7/21/2022	W109220721-	1.3 JT
Specific conductance, field	µg/L	MW-109	7/21/2022	W109220721-	2791
		MW-47	7/26/2022	W47-220726-	845
Total Dissolved Solids	mg/L	MW-109	7/21/2022	W109220721-	2000
		MW-47	7/26/2022	W47-220726-	569
Chromium	µg/L	MW-109	7/21/2022	W109220721-	74.1
South Solid Waste Area Perched Wells					

TABLE 7
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from July 01 2022 to September 30, 2022)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Arsenic, Total	mg/L	MW-101	8/1/2022	W101220801-	11.4
Iron, Dissolved	mg/L	MW-101	8/1/2022	W101220801-	579
Manganese, Dissolved	mg/L	MW-101	8/1/2022	W101220801-	1020 D
Vinyl Chloride	µg/L	MW-101	8/1/2022	W101220801-	0.268 D

See Data Qualifier List for Qualifier Information.
Exceedance Criteria: WAC 173-200-040 - Water Quality Standards for Groundwaters of the State of Washington

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

Data Collected from July 01, 2022 to September30, 2022

		East Perched Zone																											
Site ID		**MW-30A**			**MW-47**			**MW-102**			**MW-103**			**MW-107**			**MW-109**			**MW-110**			**MW-111**			**MW-112**			**MW-EB6**		
Date		**7/26/2022**			**7/26/2022**			**7/18/2022**			**7/26/2022**			**7/15/2022**			**7/21/2022**			**7/20/2022**			**7/21/2022**			**7/26/2022**			**7/14/2022**		
Cations	**Molecular Weight**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**	**mg/L**	**meq/L**	**%(meq)**
pH		6.4			6.3			6.4			7.5			6.0			8.9			6.2			5.8			7.5			6.2		
Conductance		310.0			845.0			148.0			246.1			121.5			2791.0			683.0			80.5			261.1			95.5		
TDSobs		215.0			569.0			114.0			174.0			87.0			2000.0			426.0			77.3			207.0			69.0		
Calcium	40.1	31.8	1.59	43.3	117.0	5.84	51.8	15.1	0.75	44.8	24.3	1.21	44.2	14.3	0.71	49.0	33.9	1.69	4.6	78.0	3.89	44.6	7.9	0.39	48.4	28.9	1.44	41.6	7.0	0.35	31.7
Magnesium	24.3	17.7	1.46	39.7	54.2	4.46	39.6	5.6	0.46	27.2	10.5	0.86	31.5	4.4	0.36	24.8	16.6	1.37	3.7	39.6	3.26	37.3	2.3	0.19	23.2	14.3	1.18	34.0	3.8	0.32	28.6
Potassium	39.1	1.7	0.043	1.17	4.8	0.123	1.09	1.0	0.027	1.58	2.5	0.064	2.35	1.6	0.042	2.86	2.1	0.053	0.14	3.0	0.077	0.88	0.3	0.008	0.96	2.7	0.069	1.99	0.9	0.023	2.09
Sodium	23.0	13.3	0.58	15.8	16.2	0.70	6.2	10.2	0.44	26.4	13.9	0.60	22.0	4.2	0.18	12.5	768.0	33.41	90.3	31.6	1.37	15.7	5.1	0.22	27.4	15.5	0.67	19.5	9.4	0.41	37.0
Iron	55.8	0.0	0.00069	0.0190	3.1	0.1103	0.9783	0.0	0.00036	0.0213	0.0	0.00036	0.0130	2.2	0.08022	5.5078	10.4	0.3724461	1.0066	0.1	0.00211	0.0242	0.0	0.00036	0.0442	0.0	0.00054	0.0155	0.1	0.00184	0.1668
Manganese	54.9	0.0	1.5E-05	0.00042	1.0	0.03713	0.32934	0.0	1.9E-05	0.00114	0.0	3.9E-05	0.00143	1.3	0.04878	3.34938	2.4	0.0877353	0.23712	3.4	0.12487	1.43007	0.0	7.3E-05	0.00898	2.7	0.09829	2.83872	0.0	0.00038	0.03430
Ammonia-N	14.0	0.0	0.00014	0.0039	0.0	0.00175	0.0155	0.0	0.00014	0.0085	0.0	0.00014	0.0052	0.4	0.02913	1.9999	0.3	0.0232027	0.0627	0.0	0.00255	0.0292	0.0	0.00014	0.0176	0.0	0.00163	0.0472	0.1	0.00381	0.3447
			3.67			**11.27**			**1.68**			**2.75**	**100.0**		**1.46**			**37.00**			**8.73**			**0.81**			**3.46**	**100.0**		**1.10**	
Alkalinity, Total		149.0			486.0			62.7			117.00			57.7			1710.0			406.0			22.2			125.00			45.2		
Carbonate	60.0	0.005	0.000	0.014	0.005	0.000	0.010	0.006	0.000	0.017	0.097	0.003	0.241	0.003	0.000	0.008	2.205	0.073	6.230	0.005	0.000	0.014	0.002	0.000	0.005	0.104	0.003	0.193	0.005	0.000	0.013
Bicarbonate	61.0	47.57	0.780	60.361	48.79	0.800	51.629	57.33	0.940	73.947	58.36	0.957	70.801	60.99	1.000	90.851	58.96	0.966	81.925	64.65	1.060	88.649	65.88	1.080	77.680	66.89	1.096	60.723	68.31	1.120	89.245
Chloride	35.5	1.6	0.046	3.537	11.4	0.322	20.759	4.8	0.135	10.633	4.7	0.131	9.728	0.5	0.014	1.243	2.1	0.059	5.022	1.9	0.054	4.554	1.0	0.028	2.050	5.0	0.140	7.749	0.6	0.017	1.356
Nitrate-N	14.0	4.2	0.298	23.047	0.0	0.001	0.046	1.0	0.070	5.506	0.0	0.002	0.122	0.0	0.001	0.065	0.2	0.014	1.210	0.0	0.001	0.060	2.2	0.156	11.248	0.1	0.004	0.200	0.1	0.006	0.441
Sulfate	96.1	8.1	0.168	13.040	20.5	0.427	27.555	6.0	0.126	9.897	12.4	0.258	19.109	4.1	0.086	7.833	3.2	0.066	5.613	3.9	0.080	6.723	6.0	0.125	9.017	27.0	0.562	31.136	5.4	0.112	8.945
Total Anions (meq/L)			**1.29**			**1.55**			**1.27**			**1.35**	**100.0**		**1.10**			**1.18**			**1.20**			**1.39**			**1.81**	**100.0**		**1.25**	
Total Ions (meq/L)			**4.957**			**12.824**			**2.952**			**4.097**			**2.557**			**38.180**			**9.927**			**2.201**			**5.268**			**2.358**	
Cation/Anion Ratio			**2.838**			**7.279**			**1.324**			**2.033**			**1.324**			**31.367**			**7.305**			**0.583**			**1.918**			**0.880**	
Percent Difference			**47.884**			**75.842**			**13.924**			**34.049**			**13.924**			**93.821**			**75.917**			**-26.317**			**31.454**			**-6.395**	
Trilinear Diagram Data																															
sum (Ca, Mg, Na+K)			3.66			11.13			1.68			2.75			1.30			36.52			8.60			0.81			3.36			1.10	
Calcium				43.3			52.5			44.8			44.2			55.0			4.6			45.2			48.4			42.9			31.9
Magnesium				39.7			40.1			27.2			31.5			27.8			3.7			37.9			23.3			35.0			28.8
Sodium + Potassium				17.0			7.4			28.0			24.4			17.2			91.6			16.9			28.3			22.1			39.4
													100.0															100.0			
sum (SO_4, Cl, HCO_3+CO_3)			0.994			1.548			1.201			1.349			1.100			1.165			1.195			1.234			1.802			1.249	
Sulfate				16.9			27.6			10.5			19.1			7.8			5.7			6.7			10.2			31.2			9.0
Chloride				4.6			20.8			11.3			9.7			1.2			5.1			4.6			2.3			7.8			1.4
Bicarbonate + Carbonate				78.5			51.7			78.3			71.1			90.9			89.2			88.7			87.5			61.0			89.7
													100.0															100.0			

igure Trilinear Diagram ast Perc ed one ells
Cedar ills egional andfill
T ird Quarter

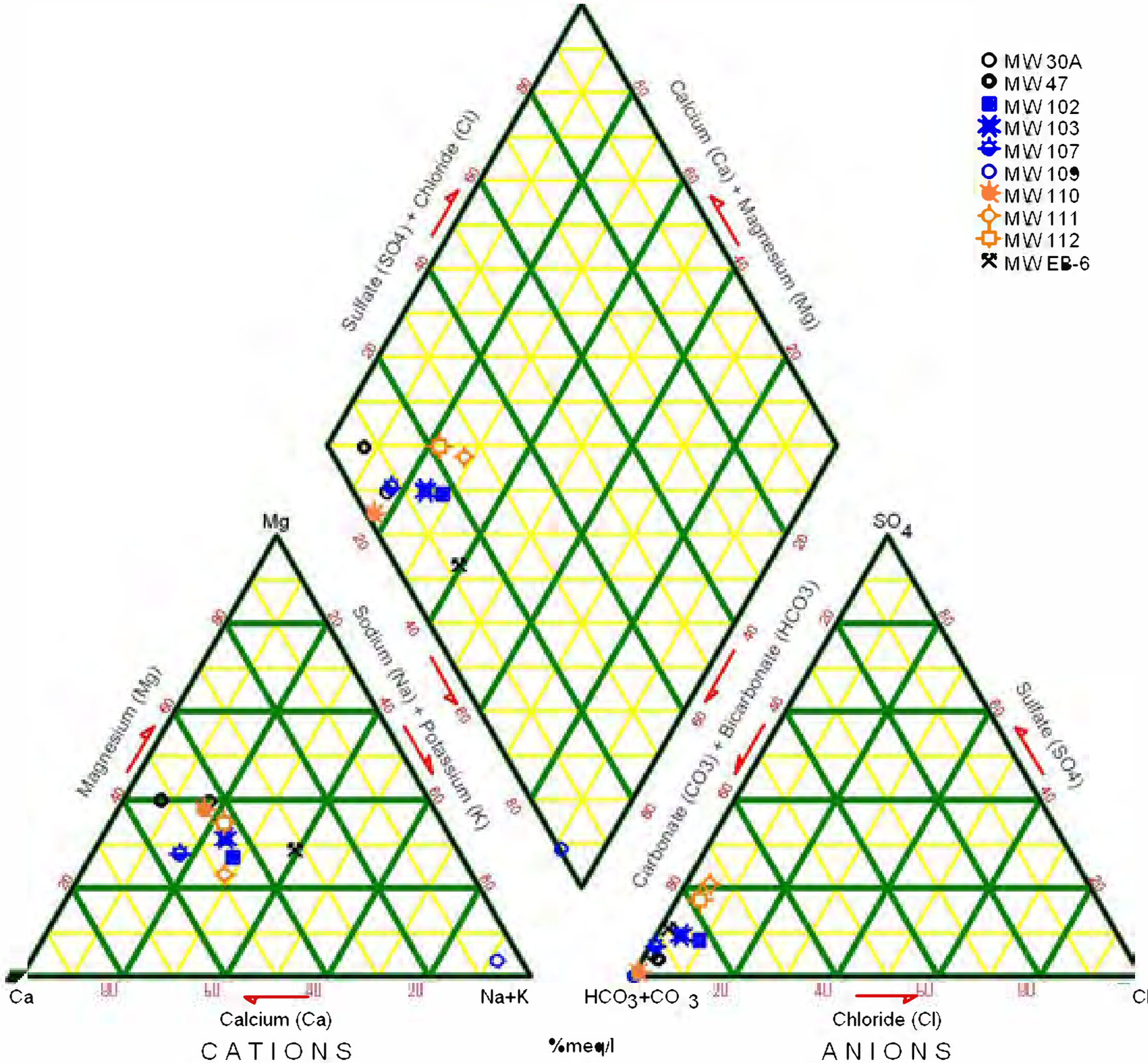


Figure Trilinear Diagram SS rea Perc ed ones ells
Cedar ills egional andfill
T ird Quarter

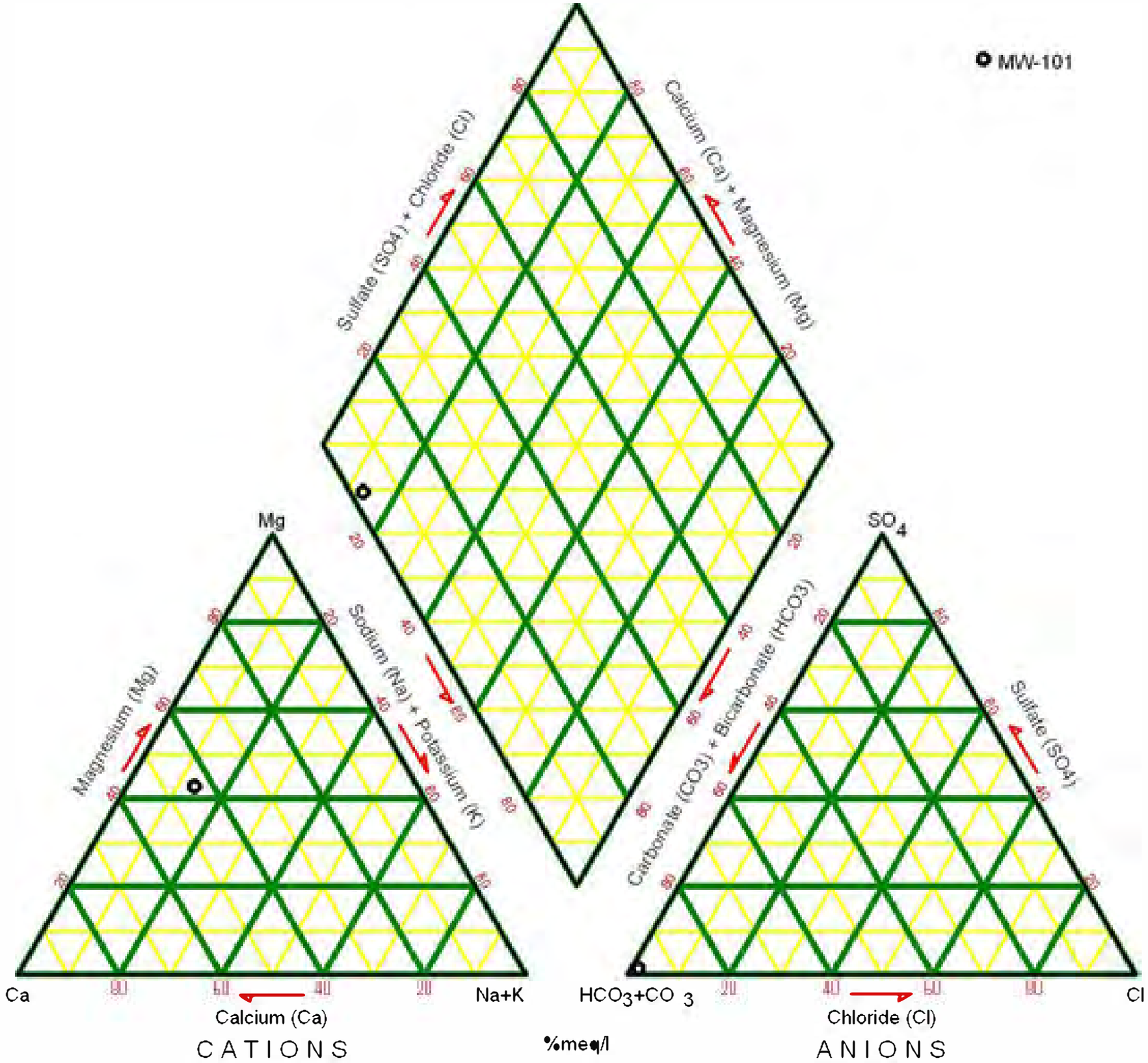


TABLE 9
INTRAWELL PREDICTION LIMIT VALUES AND RESULTS
CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES MONITORING WELLS
(Data Collected from Jul 01, 2022 - September 30, 2022)

Well	Parameter / Units	Total Antimony ug/L	Total Arsenic ug/L	Total Barium ug/L	Total Beryllium ug/L	Total Cadmium ug/L	Total Chromium ug/L	Total Cobalt ug/L	Total Copper ug/L	Total Lead ug/L	Total Nickel ug/L	Total Selenium ug/L	Total Silver ug/L	Total Thallium ug/L	Total Vanadium ug/L	Total Zinc ug/L	Nitrate as N mg/L	1,1-Dichloroethane ug/L	1,1-Dichloroethene ug/L	1,2-Dichloroethane ug/L	cis-1,2-Dichloroethene *ug/L*	trans-1,2-Dichloroethene ug/L	Trichloroethene ug/L	Vinyl Chloride ug/L
East Perched Zone Wells																								
MW-30A	Limit	1	1	7.7400	1	2	5	3	10.3	1	10	1	3	1	3.31	18.8	17	4.24	2.00	0.20	8.67	0.20	1.47	0.03
	Result	<0.3	0.58	6.29	<0.1	<0.05	0.852	0.126	0.658	<0.1	1.19	<0.5	<0.04	<0.075	2.53	1.24	4.17	1.94	0.1	0.1	1.90	0.1	0.696	0.01
MW-47	Limit	1	11.3	46.1776	1	2	5	3	10.5	1.43	10	1	3	1	3.17	168	0.024	0.99	2.00	0.44	6.26	0.41	0.23	8.32
	Result	<0.3	2.38	31.4	<0.1	<0.05	0.254	0.295	<0.2	<0.1	1.75	<0.5	<0.04	<0.075	0.157	1.01	0.01	0.478	0.1	0.1	1.32	0.1	0.1	3.44
MW-62*	Limit	1	1	3.5161	1	2	5	3	2	1	10	1	3	1	2.12	4	7.4273256	10.20	0.20	0.20	10.30	0.20	0.47	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	N/A	N/A	N/A
South Solid Waste Area Wells																								
MW-101	Limit	1	13.500	34.4092	1	2	5	3	4.16	1.09	10	1	3	1	3.8700	7.29	0.062	0.21	0.20	0.23	0.28	0.20	0.20	0.87
	Result	<0.3	11.4	16.1	<0.1	<0.05	0.231	0.214	<0.2	<0.1	3.04	<0.5	<0.04	<0.075	0.289	1.18	0.01	0.112	0.1	0.127	0.17	0.1	0.1	0.268

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 July 01, 2022 to September 30, 2022)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
East Perched Zone Wells				
1,1-Dichloroethane	MW-30A	7/26/2022	W30A220726-	1.94
	MW-47	7/26/2022	W47-220726-	0.478
	MW-110	7/20/2022	W110220720-	0.284
1,2-Dichlorobenzene	MW-110	7/20/2022	W110220720-	0.818
1,2-Dichloroethane	MW-110	7/20/2022	W110220720-	0.305
1,2-Dichloropropane	MW-110	7/20/2022	W110220720-	0.244
1,4-Dichlorobenzene	MW-107	7/15/2022	W107220715-	0.205
	MW-109	7/21/2022	W109220721-	1.21 JT
	MW-110	7/20/2022	W110220720-	0.172 JT
Benzene	MW-109	7/21/2022	W109220721-	1.3 JT
	MW-110	7/20/2022	W110220720-	0.492
Chlorobenzene	MW-109	7/21/2022	W109220721-	1.27 JT
	MW-110	7/20/2022	W110220720-	0.95
Chloroethane	MW-110	7/20/2022	W110220720-	0.148 JT
Cis-1,2-Dichloroethene	MW-30A	7/26/2022	W30A220726-	1.9
	MW-47	7/26/2022	W47-220726-	1.32
	MW-110	7/20/2022	W110220720-	4.75
	MW-111	7/21/2022	W111220721-	0.135 JT
Dichlorodifluoromethane	MW-47	7/26/2022	W47-220726-	2.76
Tetrachloroethene	MW-30A	7/26/2022	W30A220726-	0.111 JT
Toluene	MW-109	7/21/2022	W109220721-	458
Trans-1,2-Dichloroethene	MW-110	7/20/2022	W110220720-	0.273
Trichloroethene	MW-30A	7/26/2022	W30A220726-	0.696
Vinyl Chloride	MW-47	7/26/2022	W47-220726-	3.44 D
	MW-107	7/15/2022	W107220715-	0.058 D
	MW-109	7/21/2022	W109220721-	0.127 DJT
	MW-110	7/20/2022	W110220720-	0.208 D
South Solid Waste Area Perched Wells				
1,1-DICHLOROETHANE	MW-101	8/1/2022	W101220801-	0.112 JT
1,2-Dichloroethane	MW-101	8/1/2022	W101220801-	0.127 JT
Cis-1,2-Dichloroethene	MW-101	8/1/2022	W101220801-	0.173 JT
Vinyl Chloride	MW-101	8/1/2022	W101220801-	0.268 D

See Data Qualifier List for Qualifier Information.

TABLE 11
CEDAR HILLS REGIONAL LANDFILL.
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
(Data Collected from Jul 01, 2022 to September 30, 2022)

Analyte	Site ID	Date	Sample ID	Sample Value (mg/L)
No Field Blank Detections for 3Q2022				

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
No Trip Field Blank Detections for 3Q2022				

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
No Method Blank Detections for 3Q2022				

See Data Qualifier List for Qualifier Information.

TABLE 12
CEDAR HILLS REGIONAL LANDFILL.
STORM AND SURFACE WATER MONITORING ACTIVITIES 3rd QUARTER 2022

Station ID	Date	Planned Acitvity	Sample ID	Comment
SW-GS1	NST*	NPDES Permit Sample	NST	
SW-SL3	NST	NPDES Permit Sample	NST	
SW-N4	NST	NPDES Permit Sample	NST	
SW-TD1	NST	Top-Deck SW Monitoring	NST	
SW-TD2	NST	Top-Deck SW Monitoring	NST	
SW-E1	NST	East Perched Zone SW Monitoring	NST	
Stream Gauges	10/3/2022	Monthly Stream Gauge Level Measurement	--	North half of the landfill
Stream Gauges	10/3/2022	Monthly Stream Gauge Level Measurement	--	South half of the landfill

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 July 01, 2022 - September 30, 2022)

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-nitroanaline	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 analine	95-69-2	0.1	ug/L
	4-Chloro-2-methyl analine 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
	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
Benzotrichloride	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 sufate	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-methylethylylamine	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 Jul 01, 2022 to September 30, 2022)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
No Suspect Data for 3Q2022						

See Data Qualifier List for Qualifier Information.

APPENDIX A

Potentiometric Surface Maps and Aquifer Flow Calculations

King County

Water and Land Resources Division

Department of Natural Resources and Parks

King Street Center
201 South Jackson Street, Suite 5600
Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192
TTY Relay: 711

TECHNICAL MEMORANDUM

December 7, 2022

TO: Subrina Tahsin, Engineer II, Facility Engineering and Science Section, Solid Waste Division, Department of Natural Resources and Parks (DNRP)

VIA: Eric Ferguson, Water Quality Planner – Hydrogeologist, Science and Technical Support Section, Water and Land Resources Division, DNRP

FM: Adrienne Scott, Engineer II, Facility Engineering and Science Section, Solid Waste Division, Department of Natural Resources and Parks (DNRP)

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations
Third Quarter 2022 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 third quarter of 2022 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, 2022). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater levels at the Landfill on July 8, 2022; the measurements were used to:

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

There are no significant changes in the interpreted groundwater conditions for the regional aquifer in this quarter, when compared to the report submitted for the second quarter of 2022.

Groundwater Elevation Data

The SWD recorded regional aquifer groundwater level measurements at 42 monitoring wells during the third quarter of 2022. 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. All of the wells had water levels within 3 feet of water levels measured during the second quarter 2022. The average water level difference measured in the 25 wells is 0.014 ft lower than water levels measured during the second quarter of 2022.

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 July 8, 2022.

Direction of Groundwater Flow

Interpreted groundwater flow directions in the regional aquifer, based on measurements taken on July 8, 2022, are shown in Figure A-1. Calculated groundwater elevations during the third quarter of 2022 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 July 8, 2022, and mapping of groundwater elevation contours. Flow directions for the regional aquifer in the third quarter of 2022 are similar to those for the second quarter of 2022.

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).

Gradients

The hydraulic gradient for the regional aquifer was determined using potentiometric surface maps (Figure A-1). Table A-2 lists the gradients of regional aquifer for the northern, central and southern portions beneath the Landfill.

The calculated hydraulic gradient is greatest under the southern portion of the Landfill (0.016 ft/ft) and slightly lower under the rest of the Landfill based on measurements made during the third quarter of 2022. The gradients calculated for the regional aquifer in the third quarter of 2022 are within the range of gradients calculated during the second quarter of 2022.

Groundwater Velocities

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:

$$v = \frac{1}{n_{eff}} K \frac{\Delta H}{\Delta L}$$

v = Groundwater velocity [L/t]

n_{eff} = Effective porosity [dimensionless]

K = Hydraulic conductivity [L/t]

$\frac{\Delta H}{\Delta L}$ = Hydraulic gradient [L/L]

Table A-2 summarizes the groundwater parameters used to calculate groundwater velocities for the regional aquifer in the northern, central and southern portions beneath the Landfill. The mean horizontal groundwater velocities for the regional aquifer beneath the Landfill, are lowest under the southern portion of the Landfill (0.011 ft/d) and much greater under the rest of the Landfill (with a mean of 1.91 ft/d under the central portion). The velocities calculated for the regional aquifer in the third quarter of 2022 are within the range of groundwater velocities calculated during the second quarter of 2022.

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). 2022. Proposal for 2022 Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations; King County Closed Landfills (Cedar Falls, Enumclaw, Hobart, and Vashon Island) and Cedar Hills Regional Landfill. February 18.

Thank you for the opportunity to provide hydrogeologic services to SWD. If you have any questions, please contact me at 206-477-4690 or eric.ferguson@kingcounty.gov.

Sincerely,



Eric Ferguson, WA LHG
Water Quality Planner III- Hydrogeologist
King County Water and Land Resources Division

Enclosures:

Table A-1:	Well Details and Groundwater Elevations – Third Quarter 2022
Table A-2:	Groundwater Parameters – Regional Aquifer – Third Quarter 2022
Figure A-1:	Groundwater Potentiometric Surface Map – Third Quarter 2022 – Regional Aquifer

Table A-1: Well Details and Groundwater Elevations – Third Quarter 2022
Cedar Hills Regional Landfill
King County, Washington

							July 8, 2022	
	Well Identification	Easting[1]	Northing[1]	Top of Casing Elevation[2]	Top of Screen Elevation[2]	Bottom of Screen Elevation[2]	Measured Depth to Water[3]	Groundwater Elevations[2]
		ft	ft	ft MSL	ft MSL	ft MSL	ft	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	225.51	341.64
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	265.63	330.92
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	238.27	293.01
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	220.41	296.02
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	332.28	314.79
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	361.57	310.30
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	190.72	294.98
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	239.75	291.51
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	134.58	357.13
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	184.07	309.59
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	121.06	353.79
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	143.29	353.52
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	235.94	294.86
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	245.24	286.52
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	248.94	287.10
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	247.80	289.51
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	226.47	287.21
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	308.65	323.50
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	139.86	355.65
	MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.64	319.90
	MW-100	1700791.72	169610.46	620.32	319.06	309.06	297.81	322.51
	MW-106	1702536.99	173461.69	475.47	280.04	270.04	189.66	285.81
	MW-113	1698238.80	168478.70	531.09	334.79	325.09	188.05	343.04
	MW-114	1698892.70	167919.80	490.45	353.65	344.05	137.77	352.68
	MW-115	1698960.70	167225.80	484.87	352.87	343.27	128.84	356.03
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	NM	NM
	MW-22	1701844.34	173088.17	517.09	236.02	231.22	231.77	285.32
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	144.76	331.23
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	262.79	284.27
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	278.13	302.30
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	124.82	355.51
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	101.26	355.38
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	148.79	330.48
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	123.20	333.93
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	208.72	337.11
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	245.04	287.36
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.73	291.68
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	231.33	281.49
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	220.70	281.52
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	246.27	285.75
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	200.05	293.59
	WS-NPW-1	1701906.96	171138.99	646.33	282.80	267.90	333.15	313.18
	WS-NPW-3	1701922.88	170663.28	645.81	285.00	273.90	331.42	314.39
Other	MW-69[4]	1698061.86	172400.20	653.69	293.57	279.97	NM	NM

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 near future.

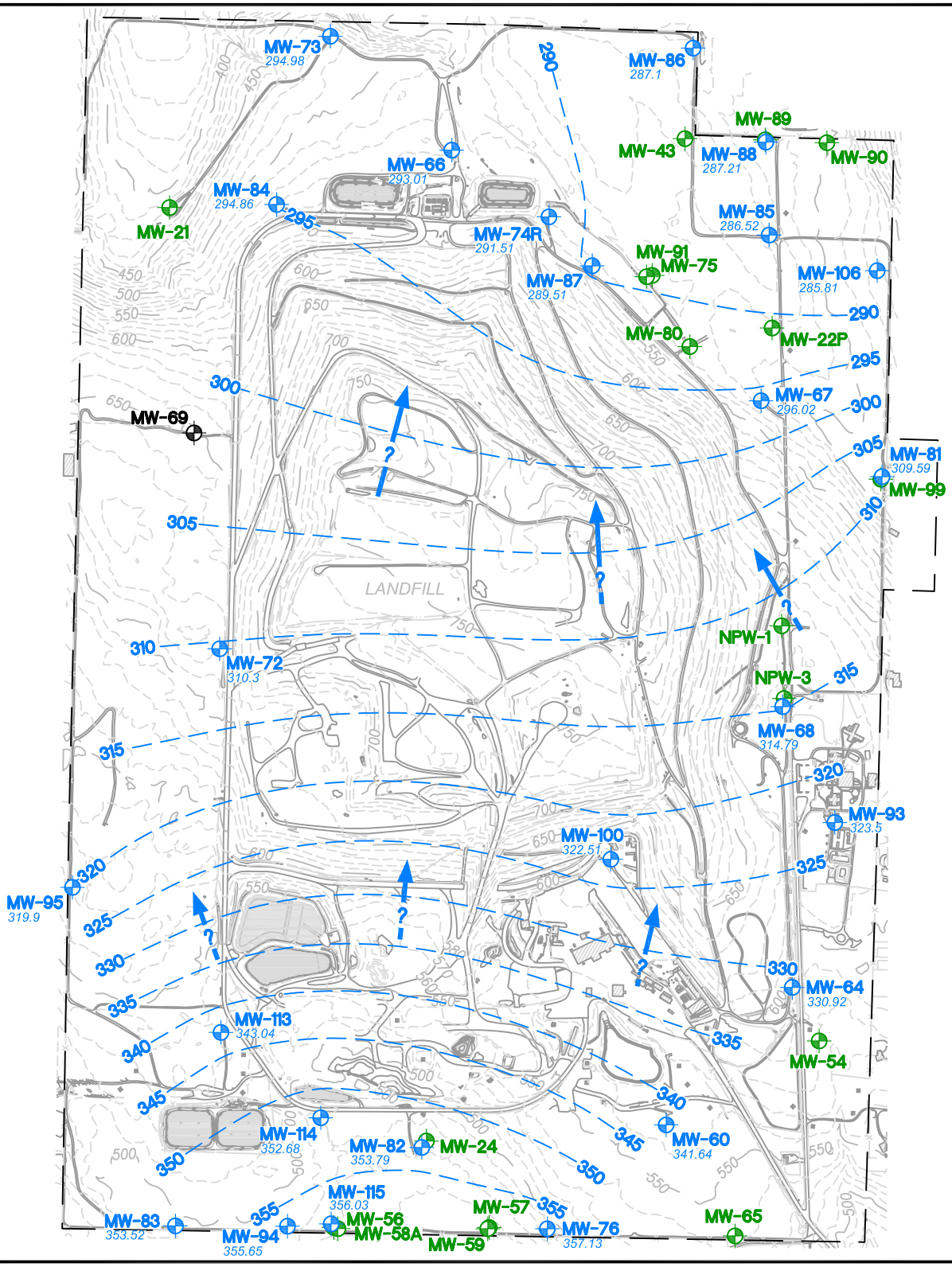
NM Not measured.
NA Not Applicable

Table A-2: Groundwater Parameters – Regional Aquifer
Third Quarter 2022
Cedar Hills Regional Landfill
King County, Washington

					Third Quarter 2022 - July 8, 2022		
Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity[1,2] (K)			Effective Porosity[1] (n_{eff})	Horizontal Hydraulic Gradient[3] (DH/DL)	Horizontal Groundwater Velocity (v)	General Groundwater Flow Direction
	Range	cm/s	ft/d		ft/ft	ft/d	
Northern	Minimum	2.10E-03	6	24%	0.007	0.17	NNW, N, NNE, NE
	Maximum	4.20E-02	120			3.35	
	Mean	2.10E-02	60			1.68	
Central	Minimum	2.10E-03	6	24%	0.008	0.19	N, NNW
	Maximum	4.20E-02	120			3.80	
	Mean	2.10E-02	60			1.90	
Southern	Minimum	6.40E-06	0.018	26%	0.016	0.001	NW, N, NNE
	Maximum	6.40E-04	1.8			0.109	
	Mean	6.40E-05	0.18			0.011	

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** XXX.XX — 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

N

0 1000 2000 Feet

Contour Interval 10 Feet

Notes:

1. Groundwater measurements made on July 8, 2022.
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

King County

Groundwater Potentiometric Surface Map
Third Quarter 2022 - Regional Aquifer
Cedar Hills Regional Landfill
King County, Washington

DATE: October 2022	PROJECT NO. 1126980
DESIGNED BY: AMS	
DRAWN BY: KK	FIGURE NO. A-1
REVISED BY: EWF	

CH_3Q2022.dwg

APPENDIX B

Field and Analytical Test Results

Groundwater Field and Analytical Data

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Groundwater Field and Analytical Data

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
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	7/8/2022	620.32	297.81	322.51	
MW-101	7/8/2022	474.72	31.16	443.56	
MW-101	8/1/2022	474.72	32.11	442.61	
MW-102	7/8/2022	552.48	45.29	507.19	
MW-102	7/18/2022	552.48	45.58	506.9	
MW-103	7/8/2022	639.08	14.03	625.05	
MW-103	7/21/2022	639.08	15.36	623.72	
MW-104	7/8/2022	629.68	23.82	605.86	
MW-105	7/8/2022	521.23	19.05	502.18	
MW-107	7/8/2022	589.029	29.06	559.97	
MW-107	7/15/2022	589.03	29.91	559.12	
MW-108	7/8/2022	612.258	16.32	595.94	
MW-109	7/8/2022	638.728	9.7	629.03	
MW-109	7/21/2022	638.73	10.77	627.96	
MW-110	7/8/2022	641.742	7.27	634.47	
MW-110	7/20/2022	641.74	8.67	633.07	
MW-111	7/8/2022	643.797	9.93	633.87	
MW-111	7/15/2022	643.8	11.28	632.52	
MW-112	7/8/2022	638.929	13.25	625.68	
MW-112	7/15/2022	638.93	13.59	625.34	
MW-113	7/8/2022	531.09	188.05	343.04	
MW-113	7/13/2022	531.09	187.91	343.18	
MW-114	7/8/2022	490.45	137.77	352.68	
MW-114	7/13/2022	490.45	137.68	352.77	
MW-115	7/8/2022	484.87	128.84	356.03	
MW-115	7/14/2022	484.87	128.88	355.99	
MW-115	7/21/2022	484.87	129.05	355.82	
MW-21	7/8/2022	420.66			
MW-24	7/8/2022	475.99	144.76	331.23	
MW-24	9/27/2022	475.99	145.58	330.41	
MW-30A	7/8/2022	568.43	25.85	542.58	
MW-30A	7/26/2022	568.43	26.22	542.21	
MW-47	7/8/2022	634.6	17.9	616.7	
MW-47	7/26/2022	634.6	18.88	615.72	
MW-50	7/8/2022	637.02	30.09	606.93	
MW-56	7/8/2022	480.33	124.82	355.51	
MW-56	9/28/2022	480.33	127.52	352.81	
MW-59	7/8/2022	457.13	123.2	333.93	
MW-59	7/14/2022	457.13	123.15	333.98	
MW-62	7/8/2022	556.21	51.93	504.28	
MW-64	7/8/2022	596.55	265.63	330.92	
MW-64	9/27/2022	596.55	265.83	330.72	
MW-65	7/8/2022	545.83	208.72	337.11	
MW-65	9/27/2022	545.83	209.84	335.99	
MW-66	7/8/2022	531.28	238.27	293.01	
MW-66	7/12/2022	531.28	238.08	293.2	
MW-67	7/8/2022	516.43	220.41	296.02	
MW-68	7/8/2022	647.07	332.28	314.79	

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
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-68	7/15/2022	647.07	332.32	314.75	
MW-69	7/8/2022	653.69			
MW-72	7/8/2022	671.87	361.57	310.3	
MW-72	7/12/2022	671.87	361.14	310.73	
MW-73	7/8/2022	485.7	190.72	294.98	
MW-74R	7/8/2022	531.26	239.75	291.51	
MW-74R	7/12/2022	531.26	239.45	291.81	
MW-75	7/8/2022	532.4	245.04	287.36	
MW-75	7/12/2022	532.4	244.8	287.6	
MW-76	7/8/2022	491.71	134.58	357.13	
MW-76	9/27/2022	491.71	139.54	352.17	
MW-80	7/8/2022	530.41	238.73	291.68	
MW-80	7/15/2022	530.41	238.63	291.78	
MW-81	7/8/2022	493.66	184.07	309.59	
MW-81	7/11/2022	493.66	184.09	309.57	
MW-82	7/8/2022	474.85	121.06	353.79	
MW-82	9/27/2022	474.85	123.53	351.32	
MW-83	7/8/2022	496.81	143.29	353.52	
MW-83	7/14/2022	496.81	143.25	353.56	
MW-84	7/8/2022	530.8	235.94	294.86	
MW-84	7/11/2022	530.8	235.98	294.82	
MW-85	7/8/2022	531.76	245.24	286.52	
MW-85	7/13/2022	531.76	245.3	286.46	
MW-86	7/8/2022	536.04	248.94	287.10	
MW-87	7/8/2022	537.31	247.8	289.51	
MW-87	7/12/2022	537.31	247.57	289.74	
MW-88	7/8/2022	513.68	226.47	287.21	
MW-89	7/8/2022	512.82	231.33	281.49	
MW-90	7/8/2022	502.22	220.7	281.52	
MW-93	7/9/2022	632.15	308.65	323.5	
MW-93	7/13/2022	632.15	308.5	323.65	
MW-94	7/8/2022	495.51	139.86	355.65	
MW-94	7/14/2022	495.51	139.9	355.61	
MW-95	7/8/2022	571.54	251.64	319.90	
MW-95	9/27/2022	571.54	251.34	320.20	
MW-99	7/8/2022	493.64	200.05	293.59	
MW-EB6	7/8/2022	589.61	27	562.61	
MW-EB6	7/14/2022	589.61	27.41	562.20	

Environmental Monitoring Data

Data Collected from

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

Site	Sample ID	Date	pH (Field) (std. Units)	Conductance (Field) (umhos/cm)	Temperature (Field) (^{o}C)	Purge Volume (Field) (gal)	Dissolved Oxygen (Field) (mg/L)	ORP (Field) mV	Turbidity (Field) NTU
MW-101	W101220801-	8/1/2022	6.68	440	12.204	3			2.24
MW-102	W102220718-	7/18/2022	6.36	148	10.81	3	8.29	510.4	3.29
MW-103	W103220721-	7/21/2022	7.53	246.1	10.817	7	8.38	203	11
MW-107	W107220715-	7/15/2022	5.96	121.5	11.94	1	0.37	53.5	0.53
MW-109	W109220721-	7/21/2022	8.88	2791	12.3	4.32	0.25	-134.9	8.26
MW-110	W110220720-	7/20/2022	6.19	683	13.864	5.1	0.41	100.9	0.47
MW-111	W111220721-	7/21/2022	5.81	80.5	14.62	2.5	6.22	167.2	3.16
MW-112	W112220715-	7/15/2022	7.5	261.1	12.21	0.7	0.55	86.8	0.31
MW-113	W113220713-	7/13/2022	6.72	362.2	10.169	3.5	0.74	-91.4	1.72
MW-114	W114220713-	7/13/2022	6.1	288	9.15	3.75	3.11	209.5	1.1
MW-115	W115220714-	7/14/2022	5.85	316.4	9.529	2	3.94	216.4	1.99
MW-115	W115220721R	7/21/2022	6	316.3	9.795	2	4.04	218.3	2.18
MW-30A	W30A220726-	7/26/2022	6.36	310	12.388	5.7	5.43	191.6	4.31
MW-47	W47-220726-	7/26/2022	6.28	845	10.53	20	0.98	-36.9	2.36
MW-59	W59-220714-	7/14/2022	6.47	217.8	10.06	2.5	1	-67.7	0.53
MW-66	W66-220712-	7/12/2022	6.75	204.2	10.4	3.3	5.58	143.8	0.35
MW-68	W68-220715-	7/15/2022	6.62	256.9	11.5	4.5	0.88	263.7	9.15
MW-72	W72-220712-	7/12/2022	6.82	316.3	10.94	7	0.67	13.6	30.5
MW-74R	W74R220712-	7/12/2022	6.16	581	10.144	3	5.31	234.4	3.42
MW-75	W75-220712-	7/12/2022	6.4	377	9.365	5.25	0.56	-62.8	3.97
MW-80	W80-220715-	7/15/2022	6.78	297.8	11.14	4.25	0.72	209.8	1.14
MW-81	W81-220711-	7/11/2022	6.66	162.6	10.24	2.25	5.41	220.4	0.49
MW-83	W83-220714-	7/14/2022	6.26	589	10.564	5	0.74	40.8	1.78
MW-84	W84-220711-	7/11/2022	6.4	176	10.04	3.9	0.82	188	0.63
MW-85	W85-220713-	7/13/2022	6.7	359.6	10.051	3	2.8	166.5	0.17
MW-87	W87-220712-	7/12/2022	6.3	513	12.11	3	1.46	-33.4	233
MW-93	W93-220713-	7/13/2022	7.05	298.9	11.528	5	0.77	127.7	0.11
MW-94	W94-220714-	7/14/2022	6.14	275	10.035	3	2.91	123.1	0.98
MW-EB6	WEB6220714-	7/14/2022	6.17	95.5	10.83	2.1	0.72	113.6	2.66

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Conventionals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Alkalinity, Bicarbonate ($CaHCO_3$) (mg/L)	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 (SO4) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-101	W101220801-	8/1/2022		252	0.0129	2.54	< 0.01 U	459	3.56	285	4.07	289	2.6
MW-102	W102220718-	7/18/2022	62.7	62.7	< 0.002 U	4.79	0.98	157	6.04	114	0.57 T	123	1.2
MW-103	W103220721-	7/21/2022	117	117	< 0.002 U	4.66	0.023 T	255	12.4	174	0.64 T	178	8.4
MW-107	W107220715-	7/15/2022	57.7	57.7	0.408	0.485	< 0.01 U	126	4.14	87	6.53	100	0.7 T
MW-109	W109220721-	7/21/2022	1710	1710	0.325	2.1	< 0.2 U	2760	3.18	2000	70.6	2000	2.2
MW-110	W110220720-	7/20/2022	406	406	0.0357	1.93	< 0.01 U	730	3.86	426	2.95	455	0.8 T
MW-111	W111220721-	7/21/2022	22.2	22.2	< 0.002 U	1.01	2.19	83	6.02	77.3	< 0.5 U	76	1.3
MW-112	W112220715-	7/15/2022	125	125	0.0229	4.96	0.0507	305	27	207	< 0.5 U	205 H	< 0.5 U
MW-113	W113220713-	7/13/2022		144	0.0171	29.3	< 0.01 U	383	10.3	237	1.4	234	2
MW-114	W114220713-	7/13/2022		107	< 0.002 U	19.3	2.13	302	7.66	203	0.69 T	193	< 0.5 U
MW-115	W115220714-	7/14/2022		127	< 0.002 U	25.3	1.19	352	9.39	204	1.03	225	< 0.5 U
MW-30A	W30A220726-	7/26/2022	149	149	< 0.002 U	1.62	4.17	333	8.09	215	< 0.5 U	218	3.2
MW-47	W47-220726-	7/26/2022	486	486	0.0245	11.4	< 0.01 U	912	20.5	569	3.82	573	6.4
MW-59	W59-220714-	7/14/2022		78.8	0.0057 T	12.8	< 0.01 U	222	15.6	139	< 0.5 U	145	0.9 T
MW-66	W66-220712-	7/12/2022		89.1	< 0.002 U	4.05	0.548	215	14.5	131	< 0.5 U	131	< 0.5 U
MW-68	W68-220715-	7/15/2022	123	123	0.0173	3.12	< 0.01 U	269	15	157	< 0.5 U	172 H	5.2
MW-72	W72-220712-	7/12/2022		132	0.016	8.19	< 0.01 U	327	30.3	200	< 0.5 U	212	13.3
MW-74R	W74R220712-	7/12/2022		250	< 0.002 U	32.8	0.32	614	38.8	367	0.69 T	384	< 0.5 U
MW-75	W75-220712-	7/12/2022		121	0.0095 T	13.9	< 0.01 U	397	66.3	259	< 0.5 U	271	3.8
MW-80	W80-220715-	7/15/2022	125	125	0.011	4.77	< 0.01 U	313	32.7	199	< 0.5 U	199 H	3
MW-81	W81-220711-	7/11/2022		61.2	< 0.002 U	4.6	1.46	171	11.7	116	< 0.5 U	113	< 0.5 U
MW-83	W83-220714-	7/14/2022		205	0.0139	72.9	0.353	634	12.1	377	4.84	427	< 0.5 U
MW-84	W84-220711-	7/11/2022		75.3	< 0.002 U	3.27	0.101	187	14.9	115	< 0.5 U	118	< 0.51 U
MW-85	W85-220713-	7/13/2022		161	< 0.002 U	9.54	0.102	384	31.3	227	< 0.5 U	237	< 0.5 U
MW-87	W87-220712-	7/12/2022		122	0.0209	17	< 0.01 U	527	129	374	2.09	470	84
MW-93	W93-220713-	7/13/2022		126	0.0551	2.58	0.023 T	317	36.3	199	< 0.5 U	206	< 0.5 U
MW-94	W94-220714-	7/14/2022		114	< 0.002 U	15.7	0.645	292	7.79	183	2.88	193	< 0.5 U
MW-EB6	WEB6220714-	7/14/2022	45.2	45.2	0.0533	0.603	0.0775	102	5.39	69	0.77 T	87	3.08

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Conventionals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Alkalinity, Bicarbonate ($CaHCO_3$) (mg/L)	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 (SO4) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Metals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Antimony Dissolved (ug/L)	Antimony Total (ug/L)	Arsenic Dissolved (ug/L)	Arsenic Total (ug/L)	Barium Dissolved (ug/L)	Barium Total (ug/L)	Beryllium Dissolved (ug/L)	Beryllium Total (ug/L)	Cadmium Dissolved (ug/L)	Cadmium Total (ug/L)
MW-101	W101220801-	8/1/2022	< 0.3	< 0.3	10.8	11.4	17.9	16.1	< 0.1	< 0.1	< 0.05	< 0.05
MW-102	W102220718-	7/18/2022	< 0.3	< 0.3	0.235	0.28	2.89	3.76	< 0.1	< 0.1	< 0.05	< 0.05
MW-103	W103220721-	7/21/2022	< 0.3	< 0.3	7.76	7.96	7.83	12.2	< 0.1	< 0.1	< 0.05	< 0.05
MW-107	W107220715-	7/15/2022	< 0.3	< 0.3	3.64	3.57	4.66	4.93	< 0.1	< 0.1	< 0.05	< 0.05
MW-109	W109220721-	7/21/2022	0.617	7.58E-01	26.6	26	79	78	0.329	0.439	< 0.05	< 0.05
MW-110	W110220720-	7/20/2022	< 0.3	< 0.3	2.67	3.12	24.5	25.9	< 0.1	< 0.1	0.0915	0.105
MW-111	W111220721-	7/21/2022	< 0.3	< 0.3	0.476	0.524	4.07	4.37	< 0.1	< 0.1	< 0.05	< 0.05
MW-112	W112220715-	7/15/2022	< 0.3	< 0.3	3.05	3.04	8.28	8.56	< 0.1	< 0.1	< 0.05	< 0.05
MW-113	W113220713-	7/13/2022	< 0.3	< 0.3	0.585	0.571	2.6	2.73	< 0.1	< 0.1	< 0.05	< 0.05
MW-114	W114220713-	7/13/2022	< 0.3	< 0.3	0.291	0.298	1.81	1.94	< 0.1	< 0.1	< 0.05	< 0.05
MW-115	W115220714-	7/14/2022	< 0.3	< 0.3	1.87E-01	0.19	1.38	1.46	< 0.1	< 0.1	< 0.05	< 0.05
MW-30A	W30A220726-	7/26/2022	< 0.3	< 0.3	4.92E-01	0.58	5.23	6.29	< 0.1	< 0.1	< 0.05	< 0.05
MW-47	W47-220726-	7/26/2022	< 0.3	< 0.3	2.34	2.38	28.5	31.4	< 0.1	< 0.1	< 0.05	< 0.05
MW-59	W59-220714-	7/14/2022	< 0.3	< 0.3	0.431	0.426	4.7	4.74	< 0.1	< 0.1	< 0.05	< 0.05
MW-66	W66-220712-	7/12/2022	< 0.3	< 0.3	0.694	0.69	4.16	4.25	< 0.1	< 0.1	< 0.05	< 0.05
MW-68	W68-220715-	7/15/2022	< 0.3	< 0.3	9.26	71.8	10.2	11.6	< 0.1	< 0.1	< 0.05	< 0.05
MW-72	W72-220712-	7/12/2022	< 0.3	< 0.3	0.0795	0.157	11.8	13.6	< 0.1	< 0.1	< 0.05	< 0.05
MW-74R	W74R220712-	7/12/2022	< 0.3	< 0.3	0.417	0.424	15	15	< 0.1	< 0.1	< 0.05	< 0.05
MW-75	W75-220712-	7/12/2022	< 0.3	< 0.3	0.449	0.506	13.6	14.8	< 0.1	< 0.1	< 0.05	< 0.05
MW-80	W80-220715-	7/15/2022	< 0.3	< 0.3	3.14	3.18	14.8	15.2	< 0.1	< 0.1	< 0.05	< 0.05
MW-81	W81-220711-	7/11/2022	< 0.3	< 0.3	0.539	0.559	3.43	3.64	< 0.1	< 0.1	< 0.05	< 0.05
MW-83	W83-220714-	7/14/2022	< 0.3	< 0.3	0.341	0.346	7.24	7.43	< 0.1	< 0.1	< 0.05	< 0.05
MW-84	W84-220711-	7/11/2022	< 0.3	< 0.3	0.331	0.339	4.6	4.85	< 0.1	< 0.1	< 0.05	< 0.05
MW-85	W85-220713-	7/13/2022	< 0.3	< 0.3	0.737	0.743	7.42	7.6	< 0.1	< 0.1	< 0.05	< 0.05
MW-87	W87-220712-	7/12/2022	< 0.3	< 0.3	0.71	32.8	28.1	47.4	< 0.1	0.238	< 0.05	0.0629
MW-93	W93-220713-	7/13/2022	< 0.3	< 0.3	1.5	1.54	7.74	8.01	< 0.1	< 0.1	< 0.05	< 0.05
MW-94	W94-220714-	7/14/2022	< 0.3	< 0.3	0.134	0.134	1.97	1.98	< 0.1	< 0.1	< 0.05	< 0.05
MW-EB6	WEB6220714-	7/14/2022	< 0.3	< 0.3	1.19	1.38	5.83	7.25	< 0.1	< 0.1	< 0.05	< 0.05

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Metals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Calcium Dissolved (ug/L)	Calcium Total (ug/L)	Chromium Dissolved (ug/L)	Chromium Total (ug/L)	Cobalt Dissolved (ug/L)	Cobalt Total (ug/L)	Copper Dissolved (ug/L)	Copper Total (ug/L)	Iron Dissolved (ug/L)	Iron Total (ug/L)	Lead Dissolved (ug/L)	Lead Total (ug/L)
MW-101	W101220801-	8/1/2022	49000	48500	0.329	0.231	0.231	2.14E-01	< 0.2	< 0.2	579	721	< 0.1	< 0.1
MW-102	W102220718-	7/18/2022	15100	15300	0.383	0.899	< 0.05	0.112	0.235	0.551	< 10	175	< 0.1	< 0.1
MW-103	W103220721-	7/21/2022	24300	24500	< 0.2	0.992	< 0.05	0.246	0.407	1.4	< 10	339	< 0.1	0.308
MW-107	W107220715-	7/15/2022	14300	14100	0.716	1.73	2	2.04	3.49	5.78	2240	2360	< 0.1	< 0.1
MW-109	W109220721-	7/21/2022	33900	33800	78.2	7.41E+01	0.558	0.761	6.25	18.9	10400	11200	0.833	2.02
MW-110	W110220720-	7/20/2022	78000	76600	0.324	< 0.2	1.43	1.53	0.473	0.507	58.9	72.6	< 0.1	< 0.1
MW-111	W111220721-	7/21/2022	7860	7570	1.83	1.99E+00	< 0.05	< 0.05	< 0.2	0.24	< 10	76.5	< 0.1	< 0.1
MW-112	W112220715-	7/15/2022	28900	29600	0.446	5.47E-01	< 0.05	< 0.05	< 0.2	< 0.2	15	15	< 0.1	< 0.1
MW-113	W113220713-	7/13/2022	38400	38800	< 0.2	3.12E-01	< 0.05	< 0.05	< 0.2	< 0.2	1270	1330	< 0.1	< 0.1
MW-114	W114220713-	7/13/2022	30100	30300	0.257	0.302	0.0944	0.127	< 0.2	< 0.2	< 10	12.4	< 0.1	< 0.1
MW-115	W115220714-	7/14/2022	35500	36300	< 0.2	0.853	< 0.05	0.0671	0.248	0.347	< 10	64.5	< 0.1	< 0.1
MW-30A	W30A220726-	7/26/2022	31800	31400	0.774	0.852	< 0.05	0.126	0.231	0.658	19.4	225	< 0.1	< 0.1
MW-47	W47-220726-	7/26/2022	117000	115000	0.221	0.254	2.90E-01	0.295	< 0.2	< 0.2	3080	3140	< 0.1	< 0.1
MW-59	W59-220714-	7/14/2022	19500	20200	1.1	0.61	< 0.05	< 0.05	< 0.2	< 0.2	4640	4720	< 0.1	< 0.1
MW-66	W66-220712-	7/12/2022	17200	16900	0.377	2.99E-01	< 0.05	< 0.05	< 0.2	< 0.2	< 10	13.3	< 0.1	< 0.1
MW-68	W68-220715-	7/15/2022	26900	27200	0.203	2.86E-01	0.205	0.225	< 0.2	1.59	442	2030	< 0.1	< 0.1
MW-72	W72-220712-	7/12/2022	31700	31000	< 0.2	0.552	< 0.05	< 0.05	< 0.2	< 0.2	2640	5050	< 0.1	< 0.1
MW-74R	W74R220712-	7/12/2022	56000	55000	0.222	0.214	< 0.05	< 0.05	0.213	< 0.2	< 10	< 10	< 0.1	< 0.1
MW-75	W75-220712-	7/12/2022	35000	34500	0.353	< 0.2	< 0.05	< 0.05	< 0.2	< 0.2	3010	3150	< 0.1	< 0.1
MW-80	W80-220715-	7/15/2022	32700	33600	0.924	< 0.2	< 0.05	< 0.05	< 0.2	< 0.2	2280	2370	< 0.1	< 0.1
MW-81	W81-220711-	7/11/2022	15600	15500	0.282	0.469	< 0.05	< 0.05	< 0.2	0.27	< 10	10.6	< 0.1	< 0.1
MW-83	W83-220714-	7/14/2022	67600	68900	1.54	0.333	0.15	0.139	1.66	2.05	87.6	43.3	< 0.1	< 0.1
MW-84	W84-220711-	7/11/2022	15200	14800	0.311	< 0.2	< 0.05	< 0.05	< 0.2	< 0.2	< 10	13.1	< 0.1	< 0.1
MW-85	W85-220713-	7/13/2022	37400	37100	< 0.2	0.215	< 0.05	< 0.05	< 0.2	< 0.2	< 10	< 10	< 0.1	< 0.1
MW-87	W87-220712-	7/12/2022	48400	49300	< 0.2	1.15	0.153	0.217	< 0.2	1.66	4760	33400	< 0.1	0.527
MW-93	W93-220713-	7/13/2022	32200	32100	< 0.2	0.324	0.0681	0.0842	< 0.2	0.374	< 10	27.5	< 0.1	< 0.1
MW-94	W94-220714-	7/14/2022	30000	31200	0.284	< 0.2	0.132	0.134	1.6	1.57	< 10	< 10	< 0.1	< 0.1
MW-EB6	WEB6220714-	7/14/2022	7010	7120	0.651	0.377	0.193	0.241	1.11	2.06	51.4	133	< 0.1	0.194

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Metals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Magnesium Dissolved (ug/L)	Magnesium Total (ug/L)	Manganese Dissolved (ug/L)	Manganese Total (ug/L)	Mercury Dissolved (ug/L)	Mercury Total (ug/L)	Nickel Dissolved (ug/L)	Nickel Total (ug/L)	Potassium Dissolved (ug/L)	Potassium Total (ug/L)
MW-101	W101220801-	8/1/2022	29000	29000	1020	1040	< 0.05	< 0.05	3.27	3.04	2650	2540
MW-102	W102220718-	7/18/2022	5560	5570	0.527	2.94	< 0.05	< 0.05	0.508	0.894	1040	1110
MW-103	W103220721-	7/21/2022	10500	10700	1.08	145	< 0.05	< 0.05	0.185	1.12	2520	2540
MW-107	W107220715-	7/15/2022	4390	4340	1340	1360	< 0.05	< 0.05	5.51	6.6	1630	1710
MW-109	W109220721-	7/21/2022	16600	16000	2410	2550	< 0.05	< 0.05	7.81	8.64	2080	1980
MW-110	W110220720-	7/20/2022	39600	39500	3430	3630	< 0.05	< 0.05	7.11	6.58	3000	3030
MW-111	W111220721-	7/21/2022	2290	2240	2	2.68	< 0.05	< 0.05	2.13	2	303	318
MW-112	W112220715-	7/15/2022	14300	14400	177	191	< 0.05	< 0.05	0.492	0.627	2700	2880
MW-113	W113220713-	7/13/2022	20900	20400	415	435	< 0.05	< 0.05	0.4	0.449	2060	2020
MW-114	W114220713-	7/13/2022	15100	14900	0.211	0.493	< 0.05	< 0.05	0.454	0.422	2330	2330
MW-115	W115220714-	7/14/2022	15500	15500	1.22	1.76	< 0.05	< 0.05	0.426	1.14	2230	2270
MW-30A	W30A220726-	7/26/2022	17700	17600	0.425	3.53	< 0.05	< 0.05	1.19	1.19	1670	1670
MW-47	W47-220726-	7/26/2022	54200	54000	1020	997	< 0.05	< 0.05	1.97	1.75	4800	4680
MW-59	W59-220714-	7/14/2022	12000	12000	130	134	< 0.05	< 0.05	0.993	0.39	1220	1230
MW-66	W66-220712-	7/12/2022	13400	13200	0.102	0.275	< 0.05	< 0.05	0.356	0.315	1160	1140
MW-68	W68-220715-	7/15/2022	14400	14400	270	303	< 0.05	< 0.05	0.557	0.599	1610	1680
MW-72	W72-220712-	7/12/2022	19200	18700	337	358	< 0.05	< 0.05	0.19	0.204	1980	1970
MW-74R	W74R220712-	7/12/2022	42000	41400	< 0.1	< 0.1	< 0.05	< 0.05	1.1	1.08	2370	2390
MW-75	W75-220712-	7/12/2022	25200	24300	264	268	< 0.05	< 0.05	0.175	0.123	2120	2040
MW-80	W80-220715-	7/15/2022	16500	16600	352	379	< 0.05	< 0.05	0.151	0.285	1650	1740
MW-81	W81-220711-	7/11/2022	8440	8240	< 0.1	0.147	< 0.05	< 0.05	0.298	0.659	910	898
MW-83	W83-220714-	7/14/2022	32500	31700	412	479	< 0.05	< 0.05	3.78	2.84	3280	3310
MW-84	W84-220711-	7/11/2022	11100	11000	1.21	1.73	< 0.05	< 0.05	0.501	0.424	1170	1130
MW-85	W85-220713-	7/13/2022	22900	22700	< 0.1	< 0.1	< 0.05	< 0.05	0.322	0.327	1780	1750
MW-87	W87-220712-	7/12/2022	32900	32000	505	555	< 0.05	< 0.05	0.314	0.476	2570	2550
MW-93	W93-220713-	7/13/2022	16900	16400	168	182	< 0.05	< 0.05	0.259	0.483	1580	1540
MW-94	W94-220714-	7/14/2022	13400	13500	0.323	0.334	< 0.05	< 0.05	0.81	0.726	2570	2620
MW-EB6	WEB6220714-	7/14/2022	3840	3770	10.4	13.4	< 0.05	< 0.05	1.69	1.52	903	925

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Metals Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Selenium Dissolved (ug/L)	Selenium Total (ug/L)	Silver Dissolved (ug/L)	Silver Total (ug/L)	Sodium Dissolved (ug/L)	Sodium Total (ug/L)	Thallium Dissolved (ug/L)	Thallium Total (ug/L)	Vanadium Dissolved (ug/L)	Vanadium Total (ug/L)	Zinc Dissolved (ug/L)	Zinc Total (ug/L)
MW-101	W101220801-	8/1/2022	< 0.5	< 0.5	< 0.04	< 0.04	15500	15600	< 0.075	< 0.075	0.248	0.289	0.924	1.18
MW-102	W102220718-	7/18/2022	< 0.5	< 0.5	< 0.04	< 0.04	10200	10200	< 0.075	< 0.075	0.882	1.2	0.958	4
MW-103	W103220721-	7/21/2022	< 0.5	< 0.5	< 0.04	< 0.04	13900	13000	< 0.075	< 0.075	1.63	2.22	0.938	3.76
MW-107	W107220715-	7/15/2022	< 0.5	< 0.5	< 0.04	< 0.04	4180	4210	< 0.075	< 0.075	1.47	1.63	2.91	6.98
MW-109	W109220721-	7/21/2022	1.72	1.86	< 0.04	< 0.04	768000	701000	< 0.075	< 0.075	279	253	2.23	5.69
MW-110	W110220720-	7/20/2022	< 0.5	< 0.5	< 0.04	< 0.04	31600	30700	< 0.075	< 0.075	0.761	0.787	0.924	1.07
MW-111	W111220721-	7/21/2022	< 0.5	< 0.5	< 0.04	< 0.04	5100	5090	< 0.075	< 0.075	0.88	1.03	1.38	1.65
MW-112	W112220715-	7/15/2022	< 0.5	< 0.5	< 0.04	< 0.04	15500	15500	< 0.075	< 0.075	0.656	0.776	0.767	1.06
MW-113	W113220713-	7/13/2022	< 0.5	< 0.5	< 0.04	< 0.04	8810	8850	< 0.075	< 0.075	0.178	0.0861	0.729	1.13
MW-114	W114220713-	7/13/2022	< 0.5	< 0.5	< 0.04	< 0.04	6660	6740	< 0.075	< 0.075	9.51E-01	0.955	0.928	0.572
MW-115	W115220714-	7/14/2022	< 0.5	< 0.5	< 0.04	< 0.04	7900	7970	< 0.075	< 0.075	0.597	5.81E-01	0.607	5.47
MW-30A	W30A220726-	7/26/2022	< 0.5	< 0.5	< 0.04	< 0.04	13300	13600	< 0.075	< 0.075	2.22	2.53E+00	2.38	1.24
MW-47	W47-220726-	7/26/2022	< 0.5	< 0.5	< 0.04	< 0.04	16200	16400	< 0.075	< 0.075	0.149	0.157	2.58	1.01
MW-59	W59-220714-	7/14/2022	< 0.5	< 0.5	< 0.04	< 0.04	6490	6410	< 0.075	< 0.075	0.152	< 0.075	5.61	1.59
MW-66	W66-220712-	7/12/2022	0.898	0.902	< 0.04	< 0.04	7130	7220	< 0.075	< 0.075	0.804	0.741	1.17	1.32
MW-68	W68-220715-	7/15/2022	< 0.5	< 0.5	< 0.04	< 0.04	8680	8500	< 0.075	< 0.075	0.209	1.27	0.872	1.1
MW-72	W72-220712-	7/12/2022	< 0.5	< 0.5	< 0.04	< 0.04	8040	7870	< 0.075	< 0.075	0.141	0.134	0.861	1.17
MW-74R	W74R220712-	7/12/2022	0.72	0.715	< 0.04	< 0.04	12800	12900	< 0.075	< 0.075	0.675	0.699	0.711	0.61
MW-75	W75-220712-	7/12/2022	< 0.5	< 0.5	< 0.04	< 0.04	9090	8900	< 0.075	< 0.075	0.122	0.119	0.737	0.831
MW-80	W80-220715-	7/15/2022	< 0.5	< 0.5	< 0.04	< 0.04	7730	7770	< 0.075	< 0.075	< 0.075	0.11	1.25	1.58
MW-81	W81-220711-	7/11/2022	0.892	0.853	< 0.04	< 0.04	6470	6470	< 0.075	< 0.075	1.76	1.78	1.08	0.995
MW-83	W83-220714-	7/14/2022	< 0.5	< 0.5	< 0.04	< 0.04	12200	11900	< 0.075	< 0.075	0.827	0.797	7.3	2.24
MW-84	W84-220711-	7/11/2022	< 0.5	< 0.5	< 0.04	< 0.04	6540	6410	< 0.075	< 0.075	0.551	0.587	1	0.891
MW-85	W85-220713-	7/13/2022	0.857	0.853	< 0.04	< 0.04	9800	9860	< 0.075	< 0.075	1.07	1.03	0.618	0.539
MW-87	W87-220712-	7/12/2022	< 0.5	0.675	< 0.04	< 0.04	10400	10600	< 0.075	< 0.075	0.126	7.11	1.05	3
MW-93	W93-220713-	7/13/2022	< 0.5	< 0.5	< 0.04	< 0.04	9100	8900	< 0.075	< 0.075	2.25	2.32	2.88	5.26
MW-94	W94-220714-	7/14/2022	< 0.5	< 0.5	< 0.04	< 0.04	8910	9040	< 0.075	< 0.075	1.31	1.29	0.771	0.719
MW-EB6	WEB6220714-	7/14/2022	< 0.5	< 0.5	< 0.04	< 0.04	9400	9320	< 0.075	< 0.075	2.79	3.13	3.93	2.97

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	1,1,1,2-Tetrachloroethane ug/l 630-20-6	1,1,1-Trichloroethane ug/l 71-55-6	1,1,2,2-Tetrachloroethane ug/l 79-34-5	1,1,2-Trichloroethane ug/l 79-00-5	1,1-Dichloroethane ug/l 75-34-3	1,1-Dichloroethene ug/l 75-35-4	1,1-Dichloropropene ug/l 563-58-6	1,2,3-Trichloropropane ug/l 96-18-4	1,2-Dibromo-3-Chloropropane ug/l 96-12-8
MW-101	W101220801-	8/1/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	0.112 JT	< 0.1 U		< 0.1 U	< 2.5 U
MW-102	W102220718-	7/18/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-103	W103220721-	7/21/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-107	W107220715-	7/15/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-109	W109220721-	7/21/2022	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 25 U
MW-110	W110220720-	7/20/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	0.284	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-111	W111220721-	7/21/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-112	W112220715-	7/15/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-113	W113220713-	7/13/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-114	W114220713-	7/13/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-115	W115220714-	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-115	W115220721R	7/21/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-30A	W30A220726-	7/26/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	1.94	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-47	W47-220726-	7/26/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	0.478	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-59	W59-220714-	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-66	W66-220712-	7/12/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-68	W68-220715-	7/15/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-72	W72-220712-	7/12/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-74R	W74R220712-	7/12/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-75	W75-220712-	7/12/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-80	W80-220715-	7/15/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
MW-81	W81-220711-	7/11/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-83	W83-220714-	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-84	W84-220711-	7/11/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-85	W85-220713-	7/13/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-87	W87-220712-	7/12/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-93	W93-220713-	7/13/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-94	W94-220714-	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
MW-EB6	WEB6220714-	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220711Z	7/7/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220712Y	7/7/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220712Z	7/11/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220713Y	7/12/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220713Z	7/11/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220714Y	7/13/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220714Z	7/13/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220715Y	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220715Z	7/14/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220718Y	7/15/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220720Z	7/15/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220721Y	7/20/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220721Y2	7/18/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220721Z	7/20/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220726Y	7/21/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220726Z	7/20/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220801Y	7/28/2022	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U		< 0.1 U	< 2.5 U

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	1,2-Dibromoethane ug/l 106-93-4	1,2-Dichlorobenzene ug/l 95-50-1	1,2-Dichloroethane ug/l 107-06-2	1,2-Dichloropropane ug/l 78-87-5	1,3-Dichlorobenzene ug/l 541-73-1	1,3-Dichloropropane ug/l 142-28-9	1,4-Dichlorobenzene ug/l 106-46-7	2,2-Dichloropropane ug/l 594-20-7	2-Butanone ug/l 78-93-3	2-Hexanone ug/l 591-78-6	2-Methyl-1-Propanol ug/l 78-83-1	3-Chloropropene ug/l 107-05-1	4-Methyl-2-Pentanone ug/l 108-10-1
MW-101	W101220801-	8/1/2022	< 0.1 U	< 0.1 U	0.127 JT	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-102	W102220718-	7/18/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-103	W103220721-	7/21/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-107	W107220715-	7/15/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	0.205	< 0.1 U	< 0.25 U	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-109	W109220721-	7/21/2022	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	1.21 JT	< 1 U	< 2.5 U	< 5 U	< 50 DU	< 1 U	< 25 U
MW-110	W110220720-	7/20/2022	< 0.1 U	0.818	0.305	0.244	< 0.1 U	< 0.1 U	0.172 JT	< 0.1 U	< 1.3 U	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-111	W111220721-	7/21/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-112	W112220715-	7/15/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-113	W113220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-114	W114220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-115	W115220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-115	W115220721R	7/21/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-30A	W30A220726-	7/26/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-47	W47-220726-	7/26/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-59	W59-220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-66	W66-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-68	W68-220715-	7/15/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-72	W72-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-74R	W74R220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-75	W75-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-80	W80-220715-	7/15/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
MW-81	W81-220711-	7/11/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-83	W83-220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-84	W84-220711-	7/11/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-85	W85-220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-87	W87-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-93	W93-220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-94	W94-220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
MW-EB6	WEB6220714-	7/14/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220711Z	7/7/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220712Y	7/7/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220712Z	7/11/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220713Y	7/12/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220713Z	7/11/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220714Y	7/13/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220714Z	7/13/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220715Y	7/14/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220715Z	7/14/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220718Y	7/15/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220720Z	7/15/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220721Y	7/20/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U
VOA TRIP BLANK	VTRP220721Y2	7/18/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220721Z	7/20/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220726Y	7/21/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220726Z	7/20/2022	< 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	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U
VOA TRIP BLANK	VTRP220801Y	7/28/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U			< 0.1 U		< 1 U	< 0.5 U			< 2.5 U

Environmental Monitoring Data

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

Site	Sample ID	Date	Acetone ug/l 67-64-1	Acetonitrile ug/l 75-05-8	Acrolein ug/l 107-02-8	Acrylonitrile ug/l 107-13-1	Benzene ug/l 71-43-2	Bromochloromethane ug/l 74-97-5	Bromodichloromethane ug/l 75-27-4	Bromoform ug/l 75-25-2	Bromomethane ug/l 74-83-9	Carbon Disulfide ug/l 75-15-0	Carbon Tetrachloride ug/l 56-23-5	Chlorobenzene ug/l 108-90-7	Chlorodibromomethane ug/l 124-48-1
MW-101	W101220801-	8/1/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-102	W102220718-	7/18/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-103	W103220721-	7/21/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-107	W107220715-	7/15/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-109	W109220721-	7/21/2022	< 25 U	< 50 U	< 25 U	< 0.35 DU	1.3 JT	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	1.27 JT	< 5 U
MW-110	W110220720-	7/20/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	0.492	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	0.95	< 0.5 U
MW-111	W111220721-	7/21/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-112	W112220715-	7/15/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-113	W113220713-	7/13/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-114	W114220713-	7/13/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-115	W115220714-	7/14/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-115	W115220721R	7/21/2022	< 2.5 U			< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-30A	W30A220726-	7/26/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-47	W47-220726-	7/26/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-59	W59-220714-	7/14/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-66	W66-220712-	7/12/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-68	W68-220715-	7/15/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-72	W72-220712-	7/12/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-74R	W74R220712-	7/12/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-75	W75-220712-	7/12/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-80	W80-220715-	7/15/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-81	W81-220711-	7/11/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-83	W83-220714-	7/14/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-84	W84-220711-	7/11/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-85	W85-220713-	7/13/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-87	W87-220712-	7/12/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-93	W93-220713-	7/13/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-94	W94-220714-	7/14/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
MW-EB6	WEB6220714-	7/14/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220711Z	7/7/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220712Y	7/7/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220712Z	7/11/2022	< 2.5 U			< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220713Y	7/12/2022	< 2.5 U			< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220713Z	7/11/2022	< 2.5 U			< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220714Y	7/13/2022	< 2.5 U			< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220714Z	7/13/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220715Y	7/14/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220715Z	7/14/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220718Y	7/15/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220720Z	7/15/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220721Y	7/20/2022	< 2.5 U			< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220721Y2	7/18/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220721Z	7/20/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220726Y	7/21/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220726Z	7/20/2022	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220801Y	7/28/2022	< 2.5 U			< 0.035 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Chloroethane ug/l 75-00-3	Chloroform ug/l 67-66-3	Chloromethane ug/l 74-87-3	Chloroprene ug/l 126-99-8	Cis-1,2-Dichloroethene ug/l 156-59-2	Cis-1,3-Dichloropropene ug/l 10061-01-5	Dibromomethane ug/l 74-95-3	Dichlorodifluoromethane ug/l 75-71-8	Ethylbenzene ug/l 100-41-4	M & P Xylene ug/l MPX	Methyl Iodide ug/l 74-88-4	Methyl Methacrylate ug/l 80-62-6
MW-101	W101220801-	8/1/2022	< 0.1 U	< 0.1 U	< 0.25 U		0.173 JT	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-102	W102220718-	7/18/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
MW-103	W103220721-	7/21/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
MW-107	W107220715-	7/15/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
MW-109	W109220721-	7/21/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 2.5 U
MW-110	W110220720-	7/20/2022	0.148 JT	< 0.1 U	< 0.25 U	< 0.1 U	4.75	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.25 U
MW-111	W111220721-	7/21/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	0.135 JT	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.25 U
MW-112	W112220715-	7/15/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
MW-113	W113220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-114	W114220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-115	W115220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-115	W115220721R	7/21/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-30A	W30A220726-	7/26/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	1.9	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.25 U
MW-47	W47-220726-	7/26/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	1.32	< 0.25 U	< 0.1 U	2.76	< 0.1 U	< 0.1 U	< 0.1 U	< 0.25 U
MW-59	W59-220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.25 U		1.36	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-66	W66-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-68	W68-220715-	7/15/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
MW-72	W72-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-74R	W74R220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-75	W75-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-80	W80-220715-	7/15/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
MW-81	W81-220711-	7/11/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-83	W83-220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-84	W84-220711-	7/11/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-85	W85-220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-87	W87-220712-	7/12/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-93	W93-220713-	7/13/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-94	W94-220714-	7/14/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
MW-EB6	WEB6220714-	7/14/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220711Z	7/7/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220712Y	7/7/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220712Z	7/11/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220713Y	7/12/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220713Z	7/11/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220714Y	7/13/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220714Z	7/13/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220715Y	7/14/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220715Z	7/14/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220718Y	7/15/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220720Z	7/15/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220721Y	7/20/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	
VOA TRIP BLANK	VTRP220721Y2	7/18/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220721Z	7/20/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220726Y	7/21/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220726Z	7/20/2022	< 0.1 U	< 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	< 0.1 U	< 0.25 U
VOA TRIP BLANK	VTRP220801Y	7/28/2022	< 0.1 U	< 0.1 U	< 0.25 U		< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Groundwater Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Methylacrylonitrile ug/l 126-98-7	Methylene Chloride ug/l 75-09-2	O-Xylene ug/l 95-47-6	Propionitrile ug/l 107-12-0	Styrene ug/l 100-42-5	Tetrachloroethene ug/l 127-18-4	Toluene ug/l 108-88-3	Trans-1,2-Dichloroethene ug/l 156-60-5	Trans-1,3-Dichloropropene ug/l 10061-02-6	Trans-1,4-Dichloro-2-Butene ug/l 110-57-6	Trichloroethene ug/l 79-01-6	Trichlorofluoromethane ug/l 75-69-4	Vinyl Acetate ug/l 108-05-4	Vinyl Chloride ug/l 75-01-4
MW-101	W101220801-	8/1/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	0.268 D
MW-102	W102220718-	7/18/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
MW-103	W103220721-	7/21/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
MW-107	W107220715-	7/15/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	0.058 D
MW-109	W109220721-	7/21/2022	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U	< 1 U	458	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U	0.127 DJT
MW-110	W110220720-	7/20/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	0.273	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	0.208 D
MW-111	W111220721-	7/21/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
MW-112	W112220715-	7/15/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
MW-113	W113220713-	7/13/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-114	W114220713-	7/13/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	11.5	< 0.1 U	< 0.1 U	< 0.01 U
MW-115	W115220714-	7/14/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	5.11	< 0.1 U	< 0.1 U	< 0.01 U
MW-115	W115220721R	7/21/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	4.86	< 0.1 U	< 0.1 U	< 0.01 DU
MW-30A	W30A220726-	7/26/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	0.111 JT	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	0.696	< 0.1 U	< 0.1 U	< 0.01 DU
MW-47	W47-220726-	7/26/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	3.44 D
MW-59	W59-220714-	7/14/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-66	W66-220712-	7/12/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-68	W68-220715-	7/15/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
MW-72	W72-220712-	7/12/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-74R	W74R220712-	7/12/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-75	W75-220712-	7/12/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-80	W80-220715-	7/15/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
MW-81	W81-220711-	7/11/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-83	W83-220714-	7/14/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	1.3	< 0.1 U	< 0.1 U	< 0.01 U
MW-84	W84-220711-	7/11/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-85	W85-220713-	7/13/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-87	W87-220712-	7/12/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-93	W93-220713-	7/13/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
MW-94	W94-220714-	7/14/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	2.04	< 0.1 U	< 0.1 U	< 0.01 U
MW-EB6	WEB6220714-	7/14/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220711Z	7/7/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
VOA TRIP BLANK	VTRP220712Y	7/7/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 U
VOA TRIP BLANK	VTRP220712Z	7/11/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220713Y	7/12/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220713Z	7/11/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220714Y	7/13/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220714Z	7/13/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220715Y	7/14/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220715Z	7/14/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220718Y	7/15/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220720Z	7/15/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220721Y	7/20/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220721Y2	7/18/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220721Z	7/20/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220726Y	7/21/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220726Z	7/20/2022	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU
VOA TRIP BLANK	VTRP220801Y	7/28/2022		< 2.5 U	< 0.1 U		< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 5 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.01 DU

Storm and Surface Water Field and Analytical Data

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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: 07/01/2022 - 07/31/2022 **Outfall:** CHL - Queen City Farms Lake (QCFL) **Version:** 3

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		CHL	CHL
1-F	**7/1/22**	2.4	M
1-Sa	**7/2/22**	M	M
2-Su	**7/3/22**	M	M
2-M	**7/4/22**	M	M
2-T	**7/5/22**	3.28	M
2-W	**7/6/22**	4.07	M
2-Th	**7/7/22**	3.65	M
2-F	**7/8/22**	2.30	M
2-Sa	**7/9/22**	M	M
3-Su	**7/10/22**	M	M
3-M	**7/11/22**	3.16	M
3-T	**7/12/22**	3.64	M
3-W	**7/13/22**	3.03	M
3-Th	**7/14/22**	2.72	M
3-F	**7/15/22**	6.11	M
3-Sa	**7/16/22**	M	M
4-Su	**7/17/22**	M	M
4-M	**7/18/22**	4.89	M
4-T	**7/19/22**	3.2	M
4-W	**7/20/22**	3.98	M
4-Th	**7/21/22**	4.4	M
4-F	**7/22/22**	2.65	M
4-Sa	**7/23/22**	M	M
5-Su	**7/24/22**	M	M
5-M	**7/25/22**	5.50	M
5-T	**7/26/22**	3.31	M
5-W	**7/27/22**	3.38	M
5-Th	**7/28/22**	2.97	M
5-F	**7/29/22**	3.06	M
5-Sa	**7/30/22**	M	M
6-Su	**7/31/22**	M	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum		6.11	M
		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

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: 07/01/2022 - 07/31/2022 **Outfall:** grav - The gravel pit lake infiltrates and has no surface discharge outlet **Version:** 3

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-F	**7/1/22**	C	C
2-Su	**7/3/22**	C	C
3-Su	**7/10/22**	C	C
4-Su	**7/17/22**	C	C
5-Su	**7/24/22**	C	C
6-Su	**7/31/22**	C	C
Minimum			M
			BM: >= 6.5 (RO)
Maximum		M	M
		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

Washington State Department of Ecology **Discharge Monitoring Report (DMR)**

Permit Number: WAR305034 **Permittee:** Cedar Hills regional Landfill

Facility County: King **Receiving Waterbody:** McDonald Creek

Monitoring Period: 07/01/2022 - 07/31/2022 **Outfall:** McDo - Outfall SW N4 The discharge on the northern boundary drains to McDonald Creek at Lat 47 477875 and Long 122 054943 **Version:** 3

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-F	**7/1/22**	C	C	C	C
2-Su	**7/3/22**	C	C	C	C
3-Su	**7/10/22**	C	C	C	C
4-Su	**7/17/22**	C	C	C	C
5-Su	**7/24/22**	C	C	C	C
6-Su	**7/31/22**	C	C	C	C
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		M	M	M	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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	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 — **Signature**

8/15/2022 11:31:23 AM — **Date**

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: 08/01/2022 - 08/31/2022 **Outfall:** CHL - Queen City Farms Lake (QCFL) **Version:** 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		CHL	CHL
1-M	**8/1/22**	C	C
2-Su	**8/7/22**	C	C
3-Su	**8/14/22**	C	C
4-Su	**8/21/22**	C	C
5-Su	**8/28/22**	C	C
Minimum			
			BM: >= 6.5 (RO)
Maximum			
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

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: 08/01/2022 - 08/31/2022 **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-M	**8/1/22**	C	C
2-Su	**8/7/22**	C	C
3-Su	**8/14/22**	C	C
4-Su	**8/21/22**	C	C
5-Su	**8/28/22**	C	C
Minimum			
			BM: >= 6.5 (RO)
Maximum			
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Triangular Silt Dike
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Triangular Silt Dike
	5	Check Dams
	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:** McDonald Creek

Monitoring Period: 08/01/2022 - 08/31/2022 **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-M	**8/1/22**	C	C	C	C
2-Su	**8/7/22**	C	C	C	C
3-Su	**8/14/22**	C	C	C	C
4-Su	**8/21/22**	C	C	C	C
5-Su	**8/28/22**	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

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
Signature

9/1/2022 2:52:42 PM
Date

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: 09/01/2022 - 09/30/2022 **Outfall:** CHL - Queen City Farms Lake (QCFL) **Version:** 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		CHL	CHL
1-Th	**9/1/22**	C	C
2-Su	**9/4/22**	C	C
3-Su	**9/11/22**	C	C
4-Su	**9/18/22**	C	C
5-Su	**9/25/22**	C	C
Minimum			
			BM: >= 6.5 (RO)
Maximum			
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

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: 09/01/2022 - 09/30/2022 **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	**9/1/22**	C	C
2-Su	**9/4/22**	C	C
3-Su	**9/11/22**	C	C
4-Su	**9/18/22**	C	C
5-Su	**9/25/22**	C	C
Minimum			
			BM: >= 6.5 (RO)
Maximum			
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

Reporting Codes Used: C - No Discharge

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Silt Fence
	1	Straw Wattles
	1	Triangular Silt Dike
	2	Check Dams
	2	Silt Fence
	2	Straw Wattles
	2	Triangular Silt Dike
	3	Check Dams
	3	Silt Fence
	3	Straw Wattles
	3	Triangular Silt Dike
	4	Check Dams
	4	Silt Fence
	4	Straw Wattles
	4	Triangular Silt Dike
	5	Check Dams
	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:** McDonald Creek

Monitoring Period: 09/01/2022 - 09/30/2022 **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	**9/1/22**	C	C	C	C
2-Su	**9/4/22**	C	C	C	C
3-Su	**9/11/22**	C	C	C	C
4-Su	**9/18/22**	C	C	C	C
5-Su	**9/25/22**	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

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 — **Signature**

10/5/2022 10:23:05 AM — **Date**

Washington Department of Ecology
Electronic Submission Cover Letter

DEPARTMENT OF ECOLOGY
State of Washington

WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1845457 - 11/1/2022 9:29:48 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 Tuesday November 1 2022

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



jwAjpBYzI/tNjXKpL4jDjRY76fiFHF//xmT5aV1Yoiyp7ql6orgOF9t6/3B6SYz2jMPQfhhN2E
+6cUaCOX27shgwqstOxmvk/ZrDpHlp9A4=

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: 07/01/2022 - 09/30/2022 **Outfall:** GS1 - Discharge to unnamed stream (wetland) **Version:** 1

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

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Week	Monitoring Point	pH Standard Units Quarterly Grab
		GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
Minimum		
		>= 6.0 (RO)
Average		
Maximum		
		<= 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: 07/01/2022 - 09/30/2022 **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
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
Minimum												
Average												
		BM: <= 25		BM: <= 14								
Maximum												
Month 1 Average												
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average												
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average												
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

Week	Monitoring Point	pH Standard Units Quarterly Grab
		N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
Minimum		
		>= 6.0 (RO)
Average		
Maximum		
		<= 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: 07/01/2022 - 09/30/2022 **Outfall:** SL3 - Discharge to unnamed stream (ditch) **Version:** 1

Week	Monitoring Point	Turbidity (NTU) Weasured 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
		SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Western WA - 2020 Permit	ISGP Non-Haz Waste Landfill (40CFR part 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
Minimum												
Average												
		BM: <= 25		BM: <= 14								
Maximum												
Month 1 Average												
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 2 Average												
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110
Month 3 Average												
					<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14	<= 15	<= 110

Reporting Codes Used: C - No Discharge

Overall DMR Notes/Comment

Reporting Code: C - No Discharge

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 — **Signature**

11/1/2022 9:29:43 AM — **Date**

Week	Monitoring Point	pH Standard Units Quarterly Grab
		SL3
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2020 permit
Minimum		
		>= 6.0 (RO)
Average		
Maximum		
		<= 9.0 (RO)
Month 1 Average		
Month 2 Average		
Month 3 Average		

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
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							
SW-G1	SW-W1							
SW-G1	SW-W1							
SW-G2	SW-N1							
SW-G2	SW-N1							
SW-G2	SW-N1							
SW-G3	SW -V							
SW-G3	SW -V							
SW-G3	SW -V							
SW-G4	Upstream of SW-E1							
SW-G4	Upstream of SW-E1							
SW-G4	Upstream of SW-E1							
SW-G5	SW-E1							
SW-G5	SW-E1					No sample taken		
SW-G5	SW-E1							
SW-G6	Upstream of SW-GS1							
SW-G6	Upstream of SW-GS1							
SW-G6	Upstream of SW-GS1							
SW-G7	SW-S2							
SW-G7	SW-S2							
SW-G7	SW-S2							
SW-G8	Upstream of SW-S1							
SW-G8	Upstream of SW-S1							
SW-G8	Upstream of SW-S1							
SW-G9	SW-S1							
SW-G9	SW-S1							
SW-G9	SW-S1							

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill - Surface Water Field Parameters

Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	pH (Field) (std. Units)	Spec. Conductance (Field) (umho/cm)	Temperature (Field) (^{o}C)	Turbidity (Field) (NTU)	Dissolved Oxygen, (Field) (mg/L)
SW-E1	SE1-220526Q						
SW-GS1	SGS1220405P						
SW-N4	SN4-220405P		No sample taken				
SW-SL3	SSL3220405P						

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Alkalinity, N (mg/L)	Aluminum Dissolved (mg/L)	Aluminum Total (mg/L)	Ammonia As N (mg/L)	Antimony Dissolved (mg/L)	Antimony Total (mg/L)	Arsenic Dissolved (mg/L)	Arsenic Total (mg/L)	Barium Dissolved (mg/L)
SW-E1	SE1-220114Q										
SW-EMER	SA7SE220308E										
SW-GS1	SGS1220120P										
SW-N4	SN4-220120P										
SW-SL3	SSL3220120P					No sample taken					
SW-TD1	STD1220114-										
SW-TD2	STD2220301-										

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Barium Total (mg/L)	Beryllium Dissolved (mg/L)	Beryllium Total (mg/L)	Biological N (mg/L)	Cadmium Dissolved (mg/L)	Cadmium Total (mg/L)	Calcium Dissolved (mg/L)	Calcium Total (mg/L)	Chemical Oxygen N (mg/L)
SW-E1	SE1-220114Q										
SW-EMER	SA7SE220308E										
SW-GS1	SGS1220120P										
SW-N4	SN4-220120P										
SW-SL3	SSL3220120P						No sample taken				
SW-TD1	STD1220114-										
SW-TD2	STD2220301-										

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Chloride N (mg/L)	Chromium Dissolved (mg/L)	Chromium Total (mg/L)	Cobalt Dissolved (mg/L)	Cobalt Total (mg/L)	Copper Dissolved (mg/L)	Copper Total (mg/L)	Cyanide N (mg/L)
SW-E1	SE1-220114Q									
SW-EMER	SA7SE220308E									
SW-GS1	SGS1220120P									
SW-N4	SN4-220120P									
SW-SL3	SSL3220120P		No sample taken							
SW-TD1	STD1220114-									
SW-TD2	STD2220301-									

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Fluoride N (mg/L)	Hardness T (mg/L)	Iron Dissolved (mg/L)	Iron Total (mg/L)	Lead Dissolved (mg/L)	Lead Total (mg/L)	Magnesium Dissolved (mg/L)	Magnesium Total (mg/L)
SW-E1	SE1-220114Q									
SW-EMER	SA7SE220308E									
SW-GS1	SGS1220120P									
SW-N4	SN4-220120P									
SW-SL3	SSL3220120P					No sample taken				
SW-TD1	STD1220114-									
SW-TD2	STD2220301-									

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Manganese Dissolved (mg/L)	Manganese Total (mg/L)	Mercury Dissolved (mg/L)	Mercury Total (mg/L)	Nickel Dissolved (mg/L)	Nickel Total (mg/L)	Nitrate N (mg/L)	Nitrate + Nitrite N (mg/L)	Phosphorus, N (mg/L)
SW-E1	SE1-220114Q										
SW-EMER	SA7SE220308E										
SW-GS1	SGS1220120P										
SW-N4	SN4-220120P										
SW-SL3	SSL3220120P										
SW-TD1	STD1220114-										
SW-TD2	STD2220301-										

No sample taken

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Potassium Dissolved (mg/L)	Potassium Total (mg/L)	Selenium Dissolved (mg/L)	Selenium Total (mg/L)	Silver Dissolved (mg/L)	Silver Total (mg/L)	Sodium Dissolved (mg/L)	Sodium Total (mg/L)	Specific N (mg/L)
SW-E1	SE1-220114Q										
SW-EMER	SA7SE220308E										
SW-GS1	SGS1220120P										
SW-N4	SN4-220120P										
SW-SL3	SSL3220120P										
SW-TD1	STD1220114-										
SW-TD2	STD2220301-										

No sample taken

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Sulfate N (mg/L)	Sulfide N (mg/L)	Thallium Dissolved (mg/L)	Thallium Total (mg/L)	Tin Dissolved (mg/L)	Tin Total (mg/L)	Total Dissolved N (mg/L)	Total Kjeldahl N (mg/L)	Total Organic N (mg/L)
SW-E1	SE1-220114Q										
SW-EMER	SA7SE220308E										
SW-GS1	SGS1220120P										
SW-N4	SN4-220120P										
SW-SL3	SSL3220120P						No sample taken				
SW-TD1	STD1220114-										
SW-TD2	STD2220301-										

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Conventionals and Metals Parameters
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Total Solids N (mg/L)	Total Suspended N (mg/L)	TOTAL N (mg/L)	VANADIUM Dissolved (mg/L)	VANADIUM Total (mg/L)	VOLATILE N (mg/L)	ZINC Dissolved (mg/L)	ZINC Total (mg/L)
SW-E1	SE1-220114Q									
SW-EMER	SA7SE220308E									
SW-GS1	SGS1220120P									
SW-N4	SN4-220120P									
SW-SL3	SSL3220120P						No sample taken			
SW-TD1	STD1220114-									
SW-TD2	STD2220301-									

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Volatile Organic Compounds
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	3-,4-Methylphenol mixture 15831-10-4 (ug/L)	Alpha-Terpineol 98-55-5 (ug/L)	Benzoic Acid 65-85-0 (ug/L)	Phenol 108-95-2 (ug/L)
SW-GS1 SW-N4 SW-SL3			No sample taken			

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	1,1,1,2-Tetrachloroethane ug/l N	1,1,1-Trichloroethane ug/l N	1,1,2,2-Tetrachloroethane ug/l N	1,1,2-Trichloroethane ug/l N	1,1-Dichloroethane ug/l N	1,1-Dichloroethene ug/l N	1,2,3-Trichloropropane ug/l N	1,2-Dibromo-3-Chloropropane ug/l N	1,2-Dibromoethane ug/l N	1,2-Dichlorobenzene ug/l N	1,2-Dichloroethane ug/l N	1,2-Dichloropropane ug/l N	1,4-Dichlorobenzene ug/l N	2-Butanone ug/l N
SW-E1			No sample taken													

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Acrylonitrile	Benzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibromomethane
			ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
			N	N	N	N	N	N	N	N	D	T	D	T	D
SW-E1			'No sample taken												

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Chloroethane mg/l T	Chloroform ug/l N	Chloromethane ug/l N	Cis-1,2-Dichloroethene mg/l D	Cis-1,3-Dichloropropene mg/l T	Dibromomethane mg/l N	Dichlorodifluoromethane ug/l N	Ethylbenzene ug/l N	M & P Xylene ug/l N	Methyl Iodide ug/l N	Methylene Chloride mg/l D	O-Xylene mg/l T	Styrene mg/l D
SW-E1			'No sample taken												

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trans-1,4-Dichloro-2-Butene	Trichloroethene	Trichlorofluoromethane	Vinyl Acetate	Vinyl Chloride	CHROMIUM	CHROMIUM	CIS-1,2-DICHLOROETHENE	-DICHLOROPR	COBALT
												7440-47-3	7440-47-3	156-59-2	10061-01-5	7440-48-4
			mg/l	ug/l	ug/l	mg/l	ug/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	ug/l	ug/l	mg/l
			T	N	N	N	N	N	N	N	N	D	T	N	N	D
SW-E1			'No sample taken													

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	COBALT	COPPER	COPPER	DIBROMOMETHANE	DICHLORODIFLUOROMETHANE	DISSOLVED OXYGEN, FIELD	ETHYLBENZENE	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 T	mg/l D	mg/l T	ug/l N	ug/l N	mg/l N	ug/l N	mg/l D	mg/l T	mg/l D	mg/l T	ug/l N	mg/l D	mg/l T
SW-E1			'No sample taken													

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	MANGANESE	MANGANESE	MERCURY	MERCURY	METHYL IODIDE	METHYLENE CHLORIDE	NICKEL	NICKEL	NITRATE	O-XYLENE	pH, FIELD	PHENOL	POTASSIUM	POTASSIUM
			7439-96-5	7439-96-5	7439-97-6	7439-97-6	74-88-4	75-09-2	7440-02-0	7440-02-0	14797-55-8	95-47-6	pH-F	108-95-2	7440-09-7	7440-09-7
			mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l	mg/l	ug/l	pH units	ug/l	mg/l	mg/l
			D	T	D	T	N	N	D	T	N	N	N	N	D	T
SW-E1			No sample taken													

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	SELENIUM	SELENIUM	SILVER	SILVER	SODIUM	SODIUM	SPEC COND, FIELD	SPECIFIC CONDUCTANCE	STYRENE	SULFATE	TEMPERATURE, FIELD	TETRACHLOROETHENE	THALLIUM	THALLIUM
			7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	7440-23-5	COND-F	COND	100-42-5	14808-79-8	TEMP	127-18-4	7440-28-0	7440-28-0
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	umhos/cm	umhos/cm	ug/l	mg/l	deg c	ug/l	mg/l	mg/l
			D	T	D	T	D	T	N	N	N	N	N	N	D	T
SW-E1			'No sample taken													

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Surface Water Elevation Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	TOLUENE	TOTAL DISSOLVED SOLIDS	TOTAL ORGANIC CARBON	TOTAL SOLIDS	TOTAL SUSPENDED SOLIDS	TRANS-1,2-DICHLOROETHENE	TRANS-1,3-DICHLOROPROPENE
			108-88-3	TDS	TOC	TS	TSS	156-60-5	10061-02-6
			ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l
			N	N	N	N	N	N	N
SW-E1			'No sample taken						

Leachate Field and Analytical Data

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Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Sample Roster
Contact Person: Natalya Usova (206) 263-0608

Leachate Monitoring Activities 3rd Quarter 2022

Station ID	Date	Activity	Sample ID	Comment
LS-A567	7/27/2022	Special Investigation	L567220727I	
LS-A567	8/18/2022	Special Investigation	L567220818I	
LS-A567	9/20/2022	Special Investigation	L567220920I	
LS-A81	7/27/2022	Special Investigation	LA81220727I	
LS-A81	8/18/2022	Special Investigation	LA81220818I	
LS-A81	9/20/2022	Special Investigation	LA81220920I	
LS-LEPS	7/6/2022	Monthly Characterization Sample	LEPS220706M	
LS-LEPS	7/6/2022	Permit Sample	LEPS220706P	
LS-LEPS	7/19/2022	Permit Sample	LEPS220719P	
LS-LEPS	8/3/2022	Permit Sample	LEPS220803P	
LS-LEPS	8/10/2022	Monthly Characterization Sample	LEPS220810M	
LS-LEPS	8/23/2022	Permit Sample	LEPS220823P	
LS-LEPS	9/1/2022	Permit Sample	LEPS220901P	
LS-LEPS	9/7/2022	Monthly Characterization Sample	LEPS220907M	
LS-LEPS	9/7/2022	Permit Sample	LEPS220907P	
LS-LEPS	9/27/2022	Permit Sample	LEPS220927P	
LS-MH46N	7/6/2022	Monthly Characterization Sample	L46N220706M	
LS-MH46N	8/10/2022	Monthly Characterization Sample	L46N220810M	
LS-MH46N	9/6/2022	Monthly Characterization Sample	L46N220906M	
LS-PS2A	7/6/2022	Monthly Characterization Sample	LP2A220706M	
LS-PS2A	8/10/2022	Monthly Characterization Sample	LP2A220810M	
LS-PS2A	9/6/2022	Monthly Characterization Sample	LP2A220906M	
LS-V1A	7/6/2022	Monthly Characterization Sample	LV1A220706M	
LS-V1A	8/10/2022	Monthly Characterization Sample	LV1A220810M	
LS-V1A	9/7/2022	Monthly Characterization Sample	LV1A220907M	

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
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) (^{o}C)
LS-A567	44769.32986	L567220727I	7.74	21700	33.9
LS-A567	8/18/2022	L567220818I	7.81	22441	30.9
LS-A567	9/20/2022	L567220920I	7.94	23039	30
LS-A81	7/27/2022	LA81220727I	8.35	21990	25.2
LS-A81	8/18/2022	LA81220818I	8.03	30575	24.3
LS-A81	9/20/2022	LA81220920I	7.63	33324	23.8
LS-LEPS	7/6/2022	LEPS220706M	8.31	7370	19.3
LS-LEPS	7/6/2022	LEPS220706P	8.31	7370	19.3
LS-LEPS	7/19/2022	LEPS220719P	8.37	8106	18.4
LS-LEPS	8/3/2022	LEPS220803P	8.3	7548	22.2
LS-LEPS	8/10/2022	LEPS220810M	8.3	7163	20.3
LS-LEPS	8/23/2022	LEPS220823P	8.5	8355	21.1
LS-LEPS	9/1/2022	LEPS220901P	8.5	8910	20.7
LS-LEPS	9/7/2022	LEPS220907M	8.59	9570	20.7
LS-LEPS	9/7/2022	LEPS220907P	8.59	9570	20.7
LS-LEPS	9/27/2022	LEPS220927P	8.63	12054	18.3
LS-MH46N	7/6/2022	L46N220706M	6.97	7287	26.8
LS-MH46N	8/10/2022	L46N220810M	7.2	9464	24.4
LS-MH46N	9/6/2022	L46N220906M	7.12	10933	25.3
LS-PS2A	7/6/2022	LP2A220706M	7.35	3394	14.5
LS-PS2A	8/10/2022	LP2A220810M	6.51	207	15.7
LS-PS2A	9/6/2022	LP2A220906M	6.5	285	17
LS-V1A	7/6/2022	LV1A220706M	8.27	9118	20.9
LS-V1A	8/10/2022	LV1A220810M	7.98	24895	23.3
LS-V1A	9/7/2022	LV1A220907M	8.43	8939	24.4

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Conventional Analyticl Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Alkalinity, Bicarbonate mg/l	Alkalinity, Carbonate mg/l	Alkalinity, Total (As Caco3) mg/l	Ammonia As N mg/l	Biological Oxygen Demand - 5 Day mg/l	Chemical Oxygen Demand mg/l	Chloride mg/l	Coliforms, Fecal cfu/100ml	Coliforms, Total cfu/100ml	Cyanide mg/l	Fixed Suspended Solids mg/l
LS-A567	L567220727I	7/27/2022	9460	< 1 U	9460	2260	939	5010 S	2620				< 2.5 U
LS-A567	L567220818I	8/18/2022	9920	< 1 U	9920	2400	1080	5090 S	2520				< 2 U
LS-A567	L567220920I	9/20/2022	10200	< 1 U	10200	2080	865	4850 S	2930				< 1.7 U
LS-A81	LA81220727I	7/27/2022	8740	392	9140	1790	361	4520 S	3230				< 2.5 U
LS-A81	LA81220818I	8/18/2022	12500	< 1 U	12500	2780	1780	6870 S	3280				12
LS-A81	LA81220920I	9/20/2022	16300	< 1 U	16300	3550	2580	8450 S	3450				9.5
LS-LEPS	LEPS220706M	7/6/2022			3190	585	141	1100	683	7000	43000	0.012 ST	
LS-LEPS	LEPS220810M	8/10/2022			2440	357	108	1130	861	700	8700	0.03 ST	
LS-LEPS	LEPS220907M	9/7/2022			3590	526	215	1720	1390	2700 C	64000	0.0505 S	
LS-MH46N	L46N220706M	7/6/2022			2250	439	51.7	1100	1060	< 1 U	50	< 0.008 SU	
LS-MH46N	L46N220810M	8/10/2022			2870	562	70.8	1590	1470	< 1 U	9	0.0098 ST	
LS-MH46N	L46N220906M	9/6/2022			2980	633	87	1710	1630	< 1 U	< 90 CU	< 0.02 SU	
LS-PS2A	LP2A220706M	7/6/2022			1060	160	153	757	536	1	61000	0.0082 T	
LS-PS2A	LP2A220810M	8/10/2022			37.9	2.13	< 2 U	19 T	7.67	< 1 U	14	< 0.002 U	
LS-PS2A	LP2A220906M	9/6/2022			3.8 T	2.71	2.48	17 T	18.3	< 1 U	130	< 0.002 U	
LS-V1A	LV1A220706M	7/6/2022			3460	765	1510	3190	743	58000	450000	< 0.008 SU	
LS-V1A	LV1A220810M	8/10/2022			6120	1200	1190	3480	1430	440000	3400000 C	0.028 ST	
LS-V1A	LV1A220907M	9/7/2022			3870	974 J	1150	3330	1440	220000	2900000	0.039 ST	

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Conventional Analyticl Data
Contact Person: Natalya Usova (206) 263-0608

Site	Sample ID	Date	Fluoride	Hardness	Nitrate + Nitrite As N	Phosphorus, Soluble Reactive	Specific Conductance	Sulfate	Sulfide	Total Dissolved Solids	Total Fats, Oils & Grease	Total Kjeldahl Nitrogen	Total Organic Carbon	Total Solids	Total Suspended Solids	Total Volatile Solids	Volatile Suspended Solids
			mg/l	mg/l	mg/l	mg/l	umhos/cm	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
LS-A567	L567220727I	7/27/2022	< 5 U	503	< 0.2 U		22400	38.2	0.2 T	10700		1960 S	1610 S	11100	18	3310	18
LS-A567	L567220818I	8/18/2022	< 5 U	483	< 0.2 U		23000	34.1	2.81	12200		2000 S	1640 S	11700	12.8	4230	14.4
LS-A567	L567220920I	9/20/2022	< 2 U	474	0.2 T		24200	32	3.34	11400		1980 S	1700 S	12200	10.7	3540 B	10.3
LS-A81	LA81220727I	7/27/2022	< 5 U	1150	< 0.2 U		22800	644	94.2	14200		1620 S	1480 S	14900	27	5320	25.5
LS-A81	LA81220818I	8/18/2022	< 20 U	1460	< 0.2 U		29800	1750	32.7	18200		2810 S	2180 S	18400	73	7400	61
LS-A81	LA81220920I	9/20/2022	< 20 U	1320	0.19 T		34100	777	36.8	16000		3600 S	2840 S	17200	40.5	6560 B	31
LS-LEPS	LEPS220706M	7/6/2022	1.3 T		< 0.1 U	0.0721	7590	29.6	0.15 T		2.4 BT	637	278		235	1210	220
LS-LEPS	LEPS220810M	8/10/2022	0.941		92.9	0.801	7430	42.5	< 5 U		< 1.9 U	439	304		100	1100	100
LS-LEPS	LEPS220907M	9/7/2022	0.962		7.76	1	9930	50.6	0.18 T		2.6 T	565	489		353	2440	320
LS-MH46N	L46N220706M	7/6/2022	1.9 T		< 0.05 U	2.34	7320	0.439	1.12		2.8 BT	455	353		< 0.51 U	984	< 0.51 U
LS-MH46N	L46N220810M	8/10/2022	1.9 T		0.052 T	3.13	9570	0.499	1.28		2.6 T	599	499		< 0.5 U	1060	< 0.5 U
LS-MH46N	L46N220906M	9/6/2022	2.14		0.054 T	2.9	10500	3.59	1.19		1.9 T	658	507		0.8 T	1480	0.8 T
LS-PS2A	LP2A220706M	7/6/2022	1.7 T		20.8	0.138	4130	16.8	< 0.01 U		3.5 BT	200	244		19.2	933	8.6
LS-PS2A	LP2A220810M	8/10/2022	0.065 T		3.43	0.00997	204	29.3	0.011 T		2 T	3.09	8.46		1.4 T	100 T	1 T
LS-PS2A	LP2A220906M	9/6/2022	0.102		7.83	0.00672	278	61.4	< 0.01 U		< 1.9 U	3.49	8.39		< 1 U	95	< 1 U
LS-V1A	LV1A220706M	7/6/2022	< 5 U		16.7	2.37	8560	28.2	< 0.5 U		5.6 BT	791	1010		84	1890	50.7
LS-V1A	LV1A220810M	8/10/2022	< 20 U		97.3	3.09	14100	26.5	< 5 U		4.4 T	1300	1160 S		76	2180	62.7
LS-V1A	LV1A220907M	9/7/2022	< 1 U		203	1.5	11100	46.3	< 13 U		2.1 T	789 J	1080		180	3260	140

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Aluminum Dissolved ug/l	Aluminum Total ug/l	Antimony Dissolved ug/l	Antimony Total ug/l	Arsenic Dissolved ug/l	Arsenic Total ug/l	Barium Dissolved ug/l	Barium Total ug/l	Beryllium Dissolved ug/l	Beryllium Total ug/l
LS-A567	L567220727I	7/27/2022	368 438	18.1 19.7	372 376	452 456	< 1 U< 1 U	.502 U< 0.502 U	600 53500	191 196	68 68.3	17.7 46.6
LS-A567	L567220818I	8/18/2022	395 399	17.6 17.1	373 383	452 465	< 0.996 U< 1 U	0.498 U< 0.5 U	200 48300	190 200	65.4 72.8	2.48 37
LS-A567	L567220920I	9/20/2022	442 409	17.8 18.5	400 417	513 468	< 1 U< 1.01 U	.501 U< 0.503 U	800 48200	210 226	73.6 76.8	32.4 4.36
LS-A81	LA81220727I	7/27/2022	1010 1100	20.6 23.9	144 145	32.6 40.5	< 1 U< 1.01 U	.502 U< 0.504 U	900 15700	428 418	189 186	< 2.01 U4.77
LS-A81	LA81220818I	8/18/2022	843 939	25.3 27	139 153	90.5 100	.991 U< 0.991 U	.495 U< 0.496 U	000 47800	444 482	131 181	< 1.98 U7.43
LS-A81	LA81220920I	9/20/2022	1910 1460	25.1 23.8	171 161	185 136	.994 U< 0.998 U	.548 < 0.499 U	400 75100	1290 1210	136 93.6	12.4 < 2 U
LS-LEPS	LEPS220706M	7/6/2022	119	21.6	168	93.8	< 1 U	< 0.501 U	44800	81.3	19.3	< 2 U
LS-LEPS	LEPS220706P	7/6/2022	313	19.6	169	99.8	< 1 U	< 0.502 U	45700	74.9	18.5	5.85
LS-LEPS	LEPS220719P	7/19/2022	416	25	204	120	< 0.998 U	< 0.499 U	48200	92.6	23	6.96
LS-LEPS	LEPS220803P	8/3/2022	911	28.2	221	150	< 1 U	< 0.5 U	59200	104	26.3	10.7
LS-LEPS	LEPS220810M	8/10/2022	133	29.3	201	100	< 1 U	< 0.502 U	47200	95.7	23.9	< 2.01 U
LS-LEPS	LEPS220823P	8/23/2022	539	39	259	155	< 1 U	< 0.501 U	61300	131	31.3	7.19
LS-LEPS	LEPS220901P	9/1/2022	280	41	268	141	< 1.01 U	< 0.506 U	48300	136	33	2.82
LS-LEPS	LEPS220907M	9/7/2022	158	44.7	285	157	< 1.01 U	< 0.504 U	53600	157	38.1	4.12
LS-LEPS	LEPS220907P	9/7/2022	427	39.8	275	179	< 1 U	< 0.5 U	58800	143	35.9	6.56
LS-LEPS	LEPS220927P	9/27/2022	536	43	304	193	< 1.01 U	< 0.504 U	53200	186	40.6	6.64
LS-MH46N	L46N220706M	7/6/2022	< 50.2 U	< 3.01 U	78.7	266	< 1 U	< 0.502 U	64200	57.9	22.2	< 2.01 U
LS-MH46N	L46N220810M	8/10/2022	< 50.4 U	< 3.03 U	101	394	< 1.01 U	< 0.504 U	84200	82.4	30.1	< 2.02 U
LS-MH46N	L46N220906M	9/6/2022	< 50.6 U	< 3.03 U	107	471	< 1.01 U	< 0.506 U	87800	92.6	34.5	< 2.02 U
LS-PS2A	LP2A220706M	7/6/2022	83	8.27	20.7	11.8	< 1 U	< 0.501 U	17000	24.1	21.2	65.1
LS-PS2A	LP2A220810M	8/10/2022	< 49.4 U	< 2.96 U	1.83	< 4.94 U	< 0.988 U	< 0.494 U	17200	2.45	< 0.494 U	9.33
LS-PS2A	LP2A220906M	9/6/2022	< 49.7 U	< 2.98 U	2.62	6.64	< 0.994 U	< 0.497 U	19300	< 1.99 U	0.978	8.98
LS-V1A	LV1A220706M	7/6/2022	1460 188	30.3 29.9	230 226	127 115	< 1 U< 0.999 U	< 0.5 U< 0.5 U	3000 46500	93.5 90.1	22.2 21.6	9.83 4.57
LS-V1A	LV1A220810M	8/10/2022	338 694	38.3 40.1	236 248	185 200	1.01 U< 1.01 U	.503 U< 0.504 U	8400 57000	165 175	34.8 39	2.57 8.51
LS-V1A	LV1A220907M	9/7/2022	815 240	40.8 44.6	269 265	229 194	1.01 U< 1.01 U	.505 U< 0.504 U	6200 65700	151 164	37.2 37.6	9.73 2.95

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Cadmium Dissolved ug/l	Cadmium Total ug/l	Calcium Dissolved ug/l	Calcium Total ug/l	Chromium Dissolved ug/l	Chromium Total ug/l	Cobalt Dissolved ug/l	Cobalt Total ug/l	Copper Dissolved ug/l
LS-A567	L567220727I	7/27/2022	3110 7800	1.14 2.68	86900 89600	290 308	).1 U< 0.1 U	240 246	38000 749000	5.02 U< 5.02 U	0.401 U< 0.401 U
LS-A567	L567220818I	8/18/2022	3140 3180	< 0.996 U1.92	85800 88000	263 264	).1 U< 0.1 U	228 251	70000 761000	< 4.98 U< 5 U	< 0.398 U< 0.4 U
LS-A567	L567220920I	9/20/2022	5700 2930	2.75 < 1.01 U	83700 89100	303 264	).1 U< 0.1 U	262 265	:000 D841000	5.01 U< 5.03 U	0.401 U< 0.402 U
LS-A81	LA81220727I	7/27/2022	1270 7580	< 1 U2.05	78000 269000	208 254	).1 U< 0.1 U	444 443	50000 1340000	8.51 9.72	0.401 U< 0.403 U
LS-A81	LA81220818I	8/18/2022	4550 26200	< 0.991 U2.53	19000 325000	329 356	).1 U< 0.1 U	506 583	70000 1560000	13.5 9.48 J	0.396 U< 0.396 U
LS-A81	LA81220920I	9/20/2022	50300 3860	5.51 < 0.998 U	67000 285000	890 737	).1 U< 0.1 U	1380 947	0000 D1560000	9.66 8.06	0.398 U< 0.399 U
LS-LEPS	LEPS220706M	7/6/2022	3290	< 1 U	54200	420	< 0.1 U	79.9	275000	< 5.01 U	< 0.4 U
LS-LEPS	LEPS220706P	7/6/2022	3330	1.13	52900	470	< 0.1 U	78.7	259000	< 5.02 U	< 0.402 U
LS-LEPS	LEPS220719P	7/19/2022	3780	1.57	61000	555	< 0.1 U	94	319000	< 4.99 U	< 0.399 U
LS-LEPS	LEPS220803P	8/3/2022	4970	2.14	66000	775	< 0.1 U	102	349000	< 5 U	< 0.4 U
LS-LEPS	LEPS220810M	8/10/2022	3390	1.03	60100	469	< 0.1 U	95.6	335000	< 5.02 U	< 0.402 U
LS-LEPS	LEPS220823P	8/23/2022	4870	1.94	76600	780	< 0.1 U	127	425000	< 5.01 U	< 0.401 U
LS-LEPS	LEPS220901P	9/1/2022	4380	1.53	76600	504	< 0.1 U	135	445000	< 5.06 U	< 0.405 U
LS-LEPS	LEPS220907M	9/7/2022	4080	1.19	89400	569	< 0.1 U	153	509000	< 5.04 U	< 0.404 U
LS-LEPS	LEPS220907P	9/7/2022	4600	1.76	87400	704	< 0.1 U	151	480000	< 5 U	< 0.4 U
LS-LEPS	LEPS220927P	9/27/2022	4770	1.95	95800	641	< 0.1 U	178	562000	< 5.04 U	< 0.403 U
LS-MH46N	L46N220706M	7/6/2022	2000	< 1 U	37400	478	< 0.1 U	91.1	238000	< 5.02 U	< 0.401 U
LS-MH46N	L46N220810M	8/10/2022	2320	< 1.01 U	50200	546	< 0.1 U	128	311000	< 5.04 U	< 0.403 U
LS-MH46N	L46N220906M	9/6/2022	2330	< 1.01 U	51700	525	< 0.1 U	139	347000	< 5.06 U	< 0.405 U
LS-PS2A	LP2A220706M	7/6/2022	4490	< 1 U	9620	214	< 0.1 U	85.1	145000	< 5.01 U	< 0.401 U
LS-PS2A	LP2A220810M	8/10/2022	634	< 0.988 U	7160	29.7	< 0.1 U	4.29	3230	< 4.94 U	< 0.395 U
LS-PS2A	LP2A220906M	9/6/2022	753	< 0.994 U	8420	193	< 0.1 U	6.07	4820	< 4.97 U	< 0.398 U
LS-V1A	LV1A220706M	7/6/2022	4660 2530	1.71 < 0.999 U	57300 56600	669 608	).1 U< 0.1 U	86.9 85.2	96000 296000	< 5 U< 5 U	< 0.4 U< 0.4 U
LS-V1A	LV1A220810M	8/10/2022	3430 4710	< 1.01 U1.74	08000 113000	705 733	).1 U< 0.1 U	171 187	75000 560000	5.03 U< 5.04 U	< 0.402 U0.895
LS-V1A	LV1A220907M	9/7/2022	4770 3480	2.04 < 1.01 U	90800 92500	865 818	).1 U< 0.1 U	153 155	06000 522000	5.05 U< 5.04 U	0.404 U< 0.403 U

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

			Copper	Iron	Iron	Lead	Lead	Magnesium	Magnesium	Manganese	Manganese	Mercury
			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
Site	Date	Sample ID										
LS-A567	L567220727I	7/27/2022	9000 25100	0.752 U	< 0.752 U	37.7	37.4	155	158	67.2	111	69.5	69.1	0.402	0.419	0.0001 U
LS-A567	L567220818I	8/18/2022	9000 25000	0.747 U	< 0.75 U	41.9	42.3	158	158	20.3	65.8	78.2	78.7	0.328	0.34	0.0001 U
LS-A567	L567220920I	9/20/2022	00 D27400	0.751 U	< 0.754 U	42.1	43.9	180	174	102	49.3	71.4	72.5	0.339	0.355	5E-05 U
LS-A81	LA81220727I	7/27/2022	9000 29800	0.753 U	< 0.755 U	20.5	30.9	141	141	141	614	25.7	26	3.32	3.34	0.0001 U
LS-A81	LA81220818I	8/18/2022	9000 33400	0.743 U	< 0.743 U	31.1	31.4	148	150	46.4	809	148	148	1.31	1.38	0.0001 U
LS-A81	LA81220920I	9/20/2022	00 D33700	0.746 U	< 0.749 U	34.3	24.3	150	137	2080	49.5					
LS-LEPS	LEPS220706M	7/6/2022	710000	< 0.751 U	10.6	28.5	50.8	118	118	1.86	1.87	5E-05 U
LS-LEPS	LEPS220706P	7/6/2022	678000	< 0.753 U	8.1	28.5	99.3	2.37	4.19	0.0676	0.164	0.0001 U
LS-LEPS	LEPS220719P	7/19/2022	825000	< 0.748 U	8.71	35.5	125	6.17	7.56	0.46	0.533	5E-05 U
LS-LEPS	LEPS220803P	8/3/2022	910000	< 0.75 U	9.08	40	167	6.23	7.53	0.464	0.535	5E-05 U
LS-LEPS	LEPS220810M	8/10/2022	902000	< 0.753 U	10.6	37	84.4	26.6		0.516		0.0001 U
LS-LEPS	LEPS220823P	8/23/2022	1120000	< 0.751 U	12.2	52.2	176					
LS-LEPS	LEPS220901P	9/1/2022	1160000	< 0.758 U	13.4	52.9	122		26.7		0.651	
LS-LEPS	LEPS220907M	9/7/2022	1330000	< 0.757 U	14.8	66.6	130		22		0.874	
LS-LEPS	LEPS220907P	9/7/2022	1280000	< 0.75 U	12.5	59.8	191		25.8		0.796	
LS-LEPS	LEPS220927P	9/27/2022	1470000	< 0.756 U	15	70.7	188		24.9		0.633	
LS-MH46N	L46N220706M	7/6/2022	754000	< 0.752 U	< 5.02 U	70.4	< 5.02 U		28.9		0.517	
LS-MH46N	L46N220810M	8/10/2022	1050000	< 0.757 U	< 5.04 U	108	< 5.04 U					
LS-MH46N	L46N220906M	9/6/2022	1150000	< 0.758 U	< 5.06 U	132	< 5.06 U		34.8		0.535	
LS-PS2A	LP2A220706M	7/6/2022	508000	< 0.751 U	32.6	7.9	78.6		42.1		0.556	
LS-PS2A	LP2A220810M	8/10/2022	7310	< 0.741 U	< 4.94 U	1.82	10.7		45.3		0.62	
LS-PS2A	LP2A220906M	9/6/2022	11800	< 0.746 U	< 4.97 U	1.16	52.8		28.5		0.605	
LS-V1A	LV1A220706M	7/6/2022	9000 76500	0.75 U	< 0.749 U	11.1	10.6	34	30.7	112	58	28.7		0.853		5E-05 U
LS-V1A	LV1A220810M	8/10/2022	9000 14200	0.755 U	< 0.755 U	16.5	15.7	73.5	74.1	138	252					
LS-V1A	LV1A220907M	9/7/2022	9000 13600	0.757 U	< 0.756 U	11	14.9	68.2	68.1	218	151		27.6		0.902	

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Mercury Total ug/l	Nickel Dissolved ug/l	Nickel Total ug/l	Potassium Dissolved ug/l	Potassium Total ug/l	Selenium Dissolved ug/l	Selenium Total ug/l	Silver Dissolved ug/l	Silver Total ug/l	Sodium Dissolved ug/l
LS-A567	L567220727I	7/27/2022	0.0001 U	0.173	0.178	517	514	0.00501 U	0.00499 U	0.000401 U	0.000399 U	1700
LS-A567	L567220818I	8/18/2022	0.0001 U	0.188	0.214	642	641	0.00505 U	0.00507 U	0.000404 U	0.000406 U	2150
LS-A567	L567220920I	9/20/2022	5E-05 U	0.187	0.189	543	544	0.00505 U	0.0051 U	0.000404 U	0.000408 U	1730
LS-A81	LA81220727I	7/27/2022	0.0001 U	0.0235	0.0267	67.4	66.8	0.00495 U	0.00495 U	0.000396 U	0.000396 U	128
LS-A81	LA81220818I	8/18/2022	0.0001 U	0.146	0.166	521	529	0.00505 U	0.00503 U	0.000404 U	0.000402 U	1170
LS-A81	LA81220920I	9/20/2022										
LS-LEPS	LEPS220706M	7/6/2022	5E-05 U	0.143	0.154	389	379	0.0051 U	0.00509 U	0.000408 U	0.000407 U	878
LS-LEPS	LEPS220706P	7/6/2022	0.0001 U	0.000995 U	0.00861	1.29	1.83	0.00498 U	0.00497 U	0.000398 U	0.000398 U	3.68
LS-LEPS	LEPS220719P	7/19/2022	5E-05 U	0.00443	0.0114	9.39	9.33	0.00507 U	0.00493 U	0.000405 U	0.000394 U	26.9
LS-LEPS	LEPS220803P	8/3/2022	5E-05 U	0.00421	0.011	9.44	9.42	0.00501 U	0.00491 U	0.000401 U	0.000393 U	27.3
LS-LEPS	LEPS220810M	8/10/2022		0.0364		113		0.005 U		0.0004 U		311
LS-LEPS	LEPS220823P	8/23/2022										
LS-LEPS	LEPS220901P	9/1/2022	0.0001 U		0.0371		114		0.00498 U		0.000398 U	
LS-LEPS	LEPS220907M	9/7/2022	0.0001 U		0.0296		82		0.00499 U		0.000399 U	
LS-LEPS	LEPS220907P	9/7/2022	0.0001 U		0.0342		94.6		0.00501 U		0.000401 U	
LS-LEPS	LEPS220927P	9/27/2022	0.0001 U		0.0329		95		0.005 U		0.0004 U	
LS-MH46N	L46N220706M	7/6/2022	0.0001 U		0.0406		125		0.00498 U		0.000398 U	
LS-MH46N	L46N220810M	8/10/2022										
LS-MH46N	L46N220906M	9/6/2022	0.0001 U		0.0525		150		0.005 U		0.0004 U	
LS-PS2A	LP2A220706M	7/6/2022	0.0001 U		0.0618		194		0.00503 U		0.000403 U	
LS-PS2A	LP2A220810M	8/10/2022	0.0001 U		0.0695		222		0.00497 U		0.000398 U	
LS-PS2A	LP2A220906M	9/6/2022	0.0001 U		0.0436		129		0.00508 U		0.000406 U	
LS-V1A	LV1A220706M	7/6/2022		0.0355		110		0.005 U		0.0004 U		305
LS-V1A	LV1A220810M	8/10/2022										
LS-V1A	LV1A220907M	9/7/2022	5E-05 U		0.0362		108		0.00495 U		0.000396 U	

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill --- Leachate Metal Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Sodium Total ug/l	Thallium Dissolved ug/l	Thallium Total ug/l	Tin Dissolved ug/l	Tin Total ug/l	Vanadium Dissolved ug/l	Vanadium Total ug/l	Zinc Dissolved ug/l	Zinc Total ug/l
LS-A567	L567220727I	7/27/2022	1660	0.000751 U	0.000749 U	0.0317	0.0327	0.103	0.105	0.0562	0.0836
LS-A567	L567220818I	8/18/2022	2070	0.000758 U	0.00076 U	0.0357	0.0382	0.131	0.13	0.0491	0.0622
LS-A567	L567220920I	9/20/2022	1760	0.000758 U	0.000765 U	0.0285	0.0289	0.108	0.108	0.0398	0.0706
LS-A81	LA81220727I	7/27/2022	125	0.000742 U	0.000743 U	0.00495 U	0.00495 U	0.00607	0.00789	0.00495 U	0.14
LS-A81	LA81220818I	8/18/2022	1150	0.000757 U	0.000754 U	0.00655	0.0101	0.0386	0.0388	0.0545	0.76
LS-A81	LA81220920I	9/20/2022									
LS-LEPS	LEPS220706M	7/6/2022	866	0.000765 U	0.000764 U	0.0051 U	0.00604	0.0372	0.0364	0.0225	0.482
LS-LEPS	LEPS220706P	7/6/2022	4.18	0.000747 U	0.000746 U	0.00498 U	0.00497 U	0.00106	0.0098	0.00498 U	0.0195
LS-LEPS	LEPS220719P	7/19/2022	26.4	0.00076 U	0.000739 U	0.00507 U	0.00493 U	0.00238	0.0109	0.00646	0.0192
LS-LEPS	LEPS220803P	8/3/2022	26.1	0.000752 U	0.000736 U	0.00501 U	0.00491 U	0.00221	0.0111	0.007	0.0182
LS-LEPS	LEPS220810M	8/10/2022		0.00075 U		0.005 U		0.0129		0.0417	
LS-LEPS	LEPS220823P	8/23/2022									
LS-LEPS	LEPS220901P	9/1/2022	301		0.000747 U		0.00498 U		0.015		0.132
LS-LEPS	LEPS220907M	9/7/2022	222		0.000749 U		0.00499 U		0.0108		0.104
LS-LEPS	LEPS220907P	9/7/2022	254		0.000752 U		0.00501 U		0.0145		0.166
LS-LEPS	LEPS220927P	9/27/2022	257		0.00075 U		0.005 U		0.0134		0.108
LS-MH46N	L46N220706M	7/6/2022	333		0.000747 U		0.00498 U		0.0158		0.0938
LS-MH46N	L46N220810M	8/10/2022									
LS-MH46N	L46N220906M	9/6/2022	420		0.00075 U		0.00641		0.0201		0.139
LS-PS2A	LP2A220706M	7/6/2022	519		0.000755 U		0.00668		0.025		0.155
LS-PS2A	LP2A220810M	8/10/2022	582		0.000746 U		0.00719		0.0267		0.157
LS-PS2A	LP2A220906M	9/6/2022	331 D		0.000762 U		0.00508 U		0.0176		0.0898
LS-V1A	LV1A220706M	7/6/2022		0.000751 U		0.005 U		0.0138		0.0434	
LS-V1A	LV1A220810M	8/10/2022									
LS-V1A	LV1A220907M	9/7/2022	288		0.000743 U		0.00495 U		0.016		0.108

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate VOAs Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	1,1,1,2-Tetrachloroethane (ug/L)	1,1,1-Trichloroethan (ug/L)	1,1,2,2-Tetrachloroethane (ug/L)	1,1,2-Trichloroethand (ug/L)	1,1-Dichloroethan (ug/L)	1,1-Dichloroethene (ug/L)	1,1-Dichloropropene (ug/L)	1,2,3-Trichloropropan (ug/L)
LS-LEPS	LEPS220706M	7/6/2022	16855	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220810M	8/10/2022	16869	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220907M	9/7/2022	16889	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220706M	7/6/2022	16826	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220810M	8/10/2022	16835	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220906M	9/6/2022	16887	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220706M	7/6/2022	16826	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220810M	8/10/2022	16835	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220906M	9/6/2022	16887	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220706M	7/6/2022	16855	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220810M	8/10/2022	16869	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220907M	9/7/2022	16941	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220706Y	7/5/2022	16855	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220706Z	7/5/2022	16826	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220810X	8/9/2022	2/2/1946	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220810Y	8/9/2022	3/8/1946	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220906Y	9/1/2022	16887	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220907X	9/6/2022	16941	< 2.5 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220907Y	9/6/2022	16889	< 0.25 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 July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate VOAs Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Dibromo-3-Chloroprop (ug/L)	1,2-Dibromoethane (ug/L)	1,2-Dichlorobenzen (ug/L)	1,2-Dichloroethane (ug/L)	2,2-Dichloropropan (ug/L)	1,3-Dichlorobenzen (ug/L)	1,3-Dichloropropan (ug/L)	1,4-Dichlorobenzen (ug/L)	2,2-Dichloropropar (ug/L)	2-Butanone (ug/L)
LS-LEPS	LEPS220706M	7/6/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220810M	8/10/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220907M	9/7/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220706M	7/6/2022	< 1 U	< 25 U	< 1 U	2.49	< 1 U	< 1 U	< 1 U	< 1 U	10.9	< 1 U
LS-MH46N	L46N220810M	8/10/2022	< 1 U	< 25 U	< 1 U	2.07	< 1 U	< 1 U	< 1 U	< 1 U	8.02	< 1 U
LS-MH46N	L46N220906M	9/6/2022	< 1 U	< 25 U	< 1 U	2.18	< 1 U	< 1 U	< 1 U	< 1 U	9.76	< 1 U
LS-PS2A	LP2A220706M	7/6/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220810M	8/10/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220906M	9/6/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220706M	7/6/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220810M	8/10/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	1.11 JT	< 1 U
LS-V1A	LV1A220907M	9/7/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220706Y	7/5/2022	< 0.1 U	< 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
VOA TRIP BLANK	VTRP220706Z	7/5/2022	< 0.1 U	< 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
VOA TRIP BLANK	VTRP220810X	8/9/2022	< 0.1 U	< 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
VOA TRIP BLANK	VTRP220810Y	8/9/2022	< 0.1 U	< 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
VOA TRIP BLANK	VTRP220906Y	9/1/2022	< 0.1 U	< 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
VOA TRIP BLANK	VTRP220907X	9/6/2022	< 1 U	< 25 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220907Y	9/6/2022	< 0.1 U	< 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

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
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-Propano (ug/L)	3-Chloropropene (ug/L)	Methyl-2-Pentano (ug/L)	Acetone (ug/L)	Acetonitrile (ug/L)	Acrolein (ug/L)	Acrylonitrile (ug/L)	Benzene (ug/L)
LS-LEPS	LEPS220706M	7/6/2022	< 2.5 U	< 5 U	< 50 DU	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-LEPS	LEPS220810M	8/10/2022	< 2.5 U	< 5 U	< 50 DU	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-LEPS	LEPS220907M	9/7/2022	161	< 5 U	< 50 U	< 1 U	< 25 U	348	< 50 U	< 25 U	< 0.35 DU
LS-MH46N	L46N220706M	7/6/2022	< 2.5 GU	< 5 U	< 50 DGU	< 1 U	< 25 U	< 25 GU	< 50 GU	< 25 U	< 0.35 DGU
LS-MH46N	L46N220810M	8/10/2022	< 2.5 U	< 5 U	< 50 DU	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-MH46N	L46N220906M	9/6/2022	4.92 JT	< 5 U	< 50 U	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-PS2A	LP2A220706M	7/6/2022	11.9	< 5 U	< 50 DU	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-PS2A	LP2A220810M	8/10/2022	< 2.5 U	< 5 U	< 50 DU	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-PS2A	LP2A220906M	9/6/2022	< 2.5 U	< 5 U	< 50 U	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
LS-V1A	LV1A220706M	7/6/2022	2260 D	< 5 U	< 50 DU	< 1 U	< 25 U	2940 D	< 50 U	< 25 U	< 0.35 DU
LS-V1A	LV1A220810M	8/10/2022	2610 D	< 5 U	62.8 DJT	< 1 U	33.8 JT	3800 D	97.8 JT	< 25 U	< 0.35 DU
LS-V1A	LV1A220907M	9/7/2022	1590	< 5 U	< 50 U	< 1 U	< 25 U	2560 D	89.8 JT	< 25 U	< 0.35 DU
VOA TRIP BLANK	VTRP220706Y	7/5/2022	< 0.25 U	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU
VOA TRIP BLANK	VTRP220706Z	7/5/2022	< 0.25 U	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU
VOA TRIP BLANK	VTRP220810X	8/9/2022	< 0.25 U	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU
VOA TRIP BLANK	VTRP220810Y	8/9/2022	< 0.25 U	< 0.5 U	< 5 DU	< 0.1 U	< 2.5 U	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU
VOA TRIP BLANK	VTRP220906Y	9/1/2022	< 0.25 U	< 0.5 U	< 5 U	< 0.1 U	< 2.5 U	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU
VOA TRIP BLANK	VTRP220907X	9/6/2022	< 2.5 U	< 5 U	< 50 U	< 1 U	< 25 U	< 25 U	< 50 U	< 25 U	< 0.35 DU
VOA TRIP BLANK	VTRP220907Y	9/6/2022	< 0.25 U	< 0.5 U	< 5 U	< 0.1 U	< 2.5 U	< 2.5 U	< 5 U	< 2.5 U	< 0.035 DU

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate VOAs Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	romochloromethan	omodichlorometha	Bromoform	Bromomethane	Carbon Disulfide	arbon Tetrachlori	Chlorobenzene	lorodibromometha	Chloroethane
			(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
LS-LEPS	LEPS220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-LEPS	LEPS220810M	8/10/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-LEPS	LEPS220907M	9/7/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-MH46N	L46N220706M	7/6/2022	4.32	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	2.51	< 5 U
LS-MH46N	L46N220810M	8/10/2022	3.3	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	1.97 JT	< 5 U
LS-MH46N	L46N220906M	9/6/2022	3.19	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	1.96 JT	< 5 U
LS-PS2A	LP2A220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-PS2A	LP2A220810M	8/10/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-PS2A	LP2A220906M	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-V1A	LV1A220706M	7/6/2022	2.05	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
LS-V1A	LV1A220810M	8/10/2022	1.83 JT	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	1.26 JT	< 5 U
LS-V1A	LV1A220907M	9/7/2022	2.07	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	1.24 JT	< 5 U
VOA TRIP BLANK	VTRP220706Y	7/5/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220706Z	7/5/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220810X	8/9/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220810Y	8/9/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220906Y	9/1/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U
VOA TRIP BLANK	VTRP220907X	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 5 U
VOA TRIP BLANK	VTRP220907Y	9/6/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.5 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate VOAs Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Chloroform (ug/L)	Chloromethane (ug/L)	Chloroprene (ug/L)	cis-1,2-Dichloroethene (ug/L)	cis-1,3-Dichloropropene (ug/L)	Dibromomethane (ug/L)	Dichlorodifluoromethane (ug/L)	Ethylbenzene (ug/L)	M & P Xylene (ug/L)
LS-LEPS	LEPS220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220810M	8/10/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220907M	9/7/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	1.68 JT	< 2.5 U	< 1 U	< 1 U	44.3
LS-MH46N	L46N220810M	8/10/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	1.05 JT	< 2.5 U	< 1 U	< 1 U	32
LS-MH46N	L46N220906M	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	32.7
LS-PS2A	LP2A220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220810M	8/10/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220906M	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220810M	8/10/2022	< 1 U	< 1 U	3.13 JT	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	1.24 JT
LS-V1A	LV1A220907M	9/7/2022	< 1 U	< 1 U	4.45 JT	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220706Y	7/5/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220706Z	7/5/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220810X	8/9/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220810Y	8/9/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220906Y	9/1/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220907X	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 2.5 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220907Y	9/6/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 0.1 U	< 0.1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate VOAs Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Methyl Iodide (ug/L)	Methyl Methacrylate (ug/L)	Methylacrylonitrile (ug/L)	Methylene Chloride (ug/L)	O-Xylene (ug/L)	Propionitrile (ug/L)	Styrene (ug/L)	Tetrachloroethene (ug/L)
LS-LEPS	LEPS220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
LS-LEPS	LEPS220810M	8/10/2022	< 1 U	< 3 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
LS-LEPS	LEPS220907M	9/7/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
LS-MH46N	L46N220706M	7/6/2022	42.8	< 1 U	< 2.5 U	< 1 GU	< 25 U	2.21	< 5 GU	1.2 JT
LS-MH46N	L46N220810M	8/10/2022	25.2	< 3 U	< 2.5 U	< 1 U	25.5 JT	1.83 JT	< 5 U	< 1 U
LS-MH46N	L46N220906M	9/6/2022	25.9	< 1 U	< 2.5 U	< 1 U	< 25 U	2.13	< 5 U	< 1 U
LS-PS2A	LP2A220706M	7/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
LS-PS2A	LP2A220810M	8/10/2022	< 1 U	< 3 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
LS-PS2A	LP2A220906M	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
LS-V1A	LV1A220706M	7/6/2022	2.22	< 1 U	< 2.5 U	< 1 U	< 25 U	1.2 JT	< 5 U	< 1 U
LS-V1A	LV1A220810M	8/10/2022	2.8	< 3 U	< 2.5 U	< 1 U	< 25 U	1.64 JT	< 5 U	< 1 U
LS-V1A	LV1A220907M	9/7/2022	1.33 JT	< 1 U	< 2.5 U	< 1 U	< 25 U	< 1 U	5.49 JT	< 1 U
VOA TRIP BLANK	VTRP220706Y	7/5/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U
VOA TRIP BLANK	VTRP220706Z	7/5/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U
VOA TRIP BLANK	VTRP220810X	8/9/2022	< 0.1 U	< 0.3 U	< 0.25 U	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U
VOA TRIP BLANK	VTRP220810Y	8/9/2022	< 0.1 U	< 0.3 U	< 0.25 U	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U
VOA TRIP BLANK	VTRP220906Y	9/1/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U
VOA TRIP BLANK	VTRP220907X	9/6/2022	< 1 U	< 1 U	< 2.5 U	< 1 U	< 25 U	< 1 U	< 5 U	< 1 U
VOA TRIP BLANK	VTRP220907Y	9/6/2022	< 0.1 U	< 0.1 U	< 0.25 U	< 0.1 U	< 2.5 U	< 0.1 U	< 0.5 U	< 0.1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate VOAs Analytical Data
Contact Person: Natalya Usova (206) 263-0608

Site	Date	Sample ID	Toluene (ug/L)	ıns-1,2-Dichloroeth	rans-1,3-Dichloropropeıns-1,4-Dichloro-2-But	Trichloroethene	richlorofluoromethan	Vinyl Acetate (ug/L)	Vinyl Chloride (ug/L)
LS-LEPS	LEPS220706M	7/6/2022	< 1 U	4.36	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220810M	8/10/2022	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-LEPS	LEPS220907M	9/7/2022	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220706M	7/6/2022	< 1 U	3.35	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220810M	8/10/2022	< 1 U	2.75	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-MH46N	L46N220906M	9/6/2022	< 1 U	2.52	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220706M	7/6/2022	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220810M	8/10/2022	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-PS2A	LP2A220906M	9/6/2022	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220706M	7/6/2022	< 1 U	5.46	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220810M	8/10/2022	< 1 U	8.37	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
LS-V1A	LV1A220907M	9/7/2022	< 1 U	3.99	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220706Y	7/5/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220706Z	7/5/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220810X	8/9/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220810Y	8/9/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220906Y	9/1/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U
VOA TRIP BLANK	VTRP220907X	9/6/2022	< 1 U	< 1 U	< 1 U	< 5 U	< 5 U	< 1 U	< 1 U	< 1 U
VOA TRIP BLANK	VTRP220907Y	9/6/2022	< 0.1 U	< 0.1 U	< 0.1 U	< 0.5 U	< 0.5 U	< 0.1 U	< 0.1 U	< 0.1 U

See Data Qualifier List for Qualifier Information.

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate PCB Analytical Data
Contact Person: Natalya Usova (206) 263-0608

		Chemical_Name	2,4,5-T	,4,5-Tp Silve	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	Aroclor 1248
		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	12672-29-6
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	ug/l
LS-LEPS	LEPS220706M	7/6/2022	< 0.5 U	< 1 U	< 1 U	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.025 U	< 0.025 U	< 0.025 U	0.0512	< 0.025 U
LS-LEPS	LEPS220810M	8/10/2022	< 0.5 HU	< 1.2 HU	< 1 HU	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.1 U	< 0.1 GU	< 0.025 U	< 0.025 U	< 0.025 U	0.0382	< 0.025 U
LS-LEPS	LEPS220907M	9/7/2022	< 0.5 U	< 2.4 U	1.23	< 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	0.0548	< 0.025 U
LS-MH46N	L46N220706M	7/6/2022	< 0.5 U	< 1 U	< 1.5 U	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.025 U	0.061	< 0.025 U	0.114	< 0.025 U
LS-MH46N	L46N220810M	8/10/2022	< 0.5 HU	< 1 HU	2.86 HJ	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.1 U	< 0.1 GU	< 0.025 U	0.0584	< 0.025 U	0.103	< 0.025 U
LS-MH46N	L46N220906M	9/6/2022	< 0.5 U	0.937 J	5.91	< 0.025 GU	< 0.025 GU	< 0.025 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.025 U	0.0635 J	< 0.025 U	0.122	< 0.025 U
LS-PS2A	LP2A220706M	7/6/2022	< 0.5 U	< 7.5 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	0.225	< 0.025 U
LS-PS2A	LP2A220810M	8/10/2022	< 0.5 HU	< 0.5 HU	< 1 HU	< 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	< 0.025 U
LS-PS2A	LP2A220906M	9/6/2022	< 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	< 0.025 U
LS-V1A	LV1A220706M	44748.40625	< 0.5 U	< 1 U	< 1 U	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.025 GU	< 0.025 U	< 0.025 GU	< 0.025 U	< 0.025 U	< 0.025 U	0.0825	< 0.025 U
LS-V1A	LV1A220810M	44783.49653	< 0.5 HU	< 1 HU	1.67 HJ	< 0.1 U	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.1 U	< 0.1 GU	< 0.025 U	< 0.025 U	< 0.025 U	0.154	< 0.025 U
LS-V1A	LV1A220907M	44811.25	< 0.5 U	< 3.8 U	1.72	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.1 GU	< 0.1 U	< 0.1 GU	< 0.025 U	< 0.1 U	< 0.025 U	0.119	< 0.025 U

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate PCB Analytical Data
Contact Person: Natalya Usova (206) 263-0608

		Chemical_Name	Aroclor 1254	Aroclor 1260	Beta Bhc	Delta Bhc	Dieldrin	Dinoseb	Endosulfan I	Endosulfan Ii	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Heptachlor
		CAS_RN	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	7421-93-4	76-44-8
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	ug/l
LS-LEPS	LEPS220706M	7/6/2022	< 0.025 U	< 0.025 U	< 0.05 GU	< 0.025 GU	< 0.025 U	< 1.5 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 GU	< 0.025 U
LS-LEPS	LEPS220810M	8/10/2022	< 0.025 U	< 0.025 U	< 0.1 U	< 0.1 U	< 0.1 U	< 1 HU	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 GU	< 0.1 U
LS-LEPS	LEPS220907M	9/7/2022	< 0.025 U	< 0.025 GU	< 0.1 U	< 0.1 U	< 0.1 GU	< 3.2 U	< 0.3 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 GU	< 0.1 GU
LS-MH46N	L46N220706M	7/6/2022	< 0.025 U	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.025 U	< 1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 GU	< 0.025 U
LS-MH46N	L46N220810M	8/10/2022	< 0.025 U	< 0.025 U	< 0.1 U	< 0.1 U	< 0.1 U	< 1 HU	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 GU	< 0.1 U
LS-MH46N	L46N220906M	9/6/2022	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 3.6 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 GU	< 0.025 GU
LS-PS2A	LP2A220706M	7/6/2022	0.156	0.0843	< 0.01 U	< 0.01 U	< 0.01 U	< 1 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-PS2A	LP2A220810M	8/10/2022	< 0.025 U	< 0.025 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.5 HU	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U
LS-PS2A	LP2A220906M	9/6/2022	< 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	< 0.01 U	< 0.01 U
LS-V1A	LV1A220706M	44748.40625	< 0.025 U	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.025 U	< 1 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 GU	< 0.025 U
LS-V1A	LV1A220810M	44783.49653	< 0.025 U	< 0.025 U	< 0.1 U	< 0.1 U	< 0.1 U	< 2.4 HU	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 GU	< 0.1 U
LS-V1A	LV1A220907M	44811.25	< 0.025 U	< 0.025 GU	< 0.1 U	< 0.1 U	< 0.1 U	< 3.4 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 GU	< 0.1 GU

Environmental Monitoring Data

Data Collected from July 01, 2022 to September 30, 2022
Cedar Hills Landfill ---Leachate PCB Analytical Data
Contact Person: Natalya Usova (206) 263-0608

		Chemical_Name	Heptachlor Epoxid	Isodrin	Lindane(Gamma Bhc	Methoxychlor	Total Aroclors	Toxaphene	Trans-Chlordane
		CAS_RN	1024-57-3	465-73-6	58-89-9	72-43-5	T_AROCLOR	8001-35-2	5103-74-2
Site	Date	Sample ID	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LEPS	LEPS220706M	7/6/2022	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.125 U	0.0512	< 2.5 U	< 0.025 GU
LS-LEPS	LEPS220810M	8/10/2022	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.5 U	0.0382	< 10 U	< 0.1 GU
LS-LEPS	LEPS220907M	9/7/2022	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.5 U	0.0548	< 10 U	< 0.1 GU
LS-MH46N	L46N220706M	7/6/2022	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.125 U	0.175	< 2.5 U	< 0.025 GU
LS-MH46N	L46N220810M	8/10/2022	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.5 U	0.1614	< 10 U	< 0.1 GU
LS-MH46N	L46N220906M	9/6/2022	< 0.025 U	< 0.025 GU	< 0.025 U	< 0.125 U	0.1855	< 2.5 U	< 0.025 GU
LS-PS2A	LP2A220706M	7/6/2022	< 0.01 U	< 0.01 U	< 0.01 U	< 0.05 U	0.4653	< 1 U	< 0.01 U
LS-PS2A	LP2A220810M	8/10/2022	< 0.01 U	< 0.01 U	< 0.01 U	< 0.05 U	< 0.025 U	< 1 U	< 0.01 U
LS-PS2A	LP2A220906M	9/6/2022	< 0.01 U	< 0.01 U	< 0.01 U	< 0.05 U	< 0.025 U	< 1 U	< 0.01 U
LS-V1A	LV1A220706M	44748.40625	< 0.025 U	< 0.025 GU	< 0.025 GU	< 0.125 U	0.0825	< 2.5 U	< 0.025 GU
LS-V1A	LV1A220810M	44783.49653	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.5 U	0.154	< 10 U	< 0.1 GU
LS-V1A	LV1A220907M	44811.25	< 0.1 U	< 0.1 GU	< 0.1 U	< 0.5 U	0.119	< 10 U	< 0.1 GU

Data Qualifiers

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

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

Landfill Gas Monitoring Data

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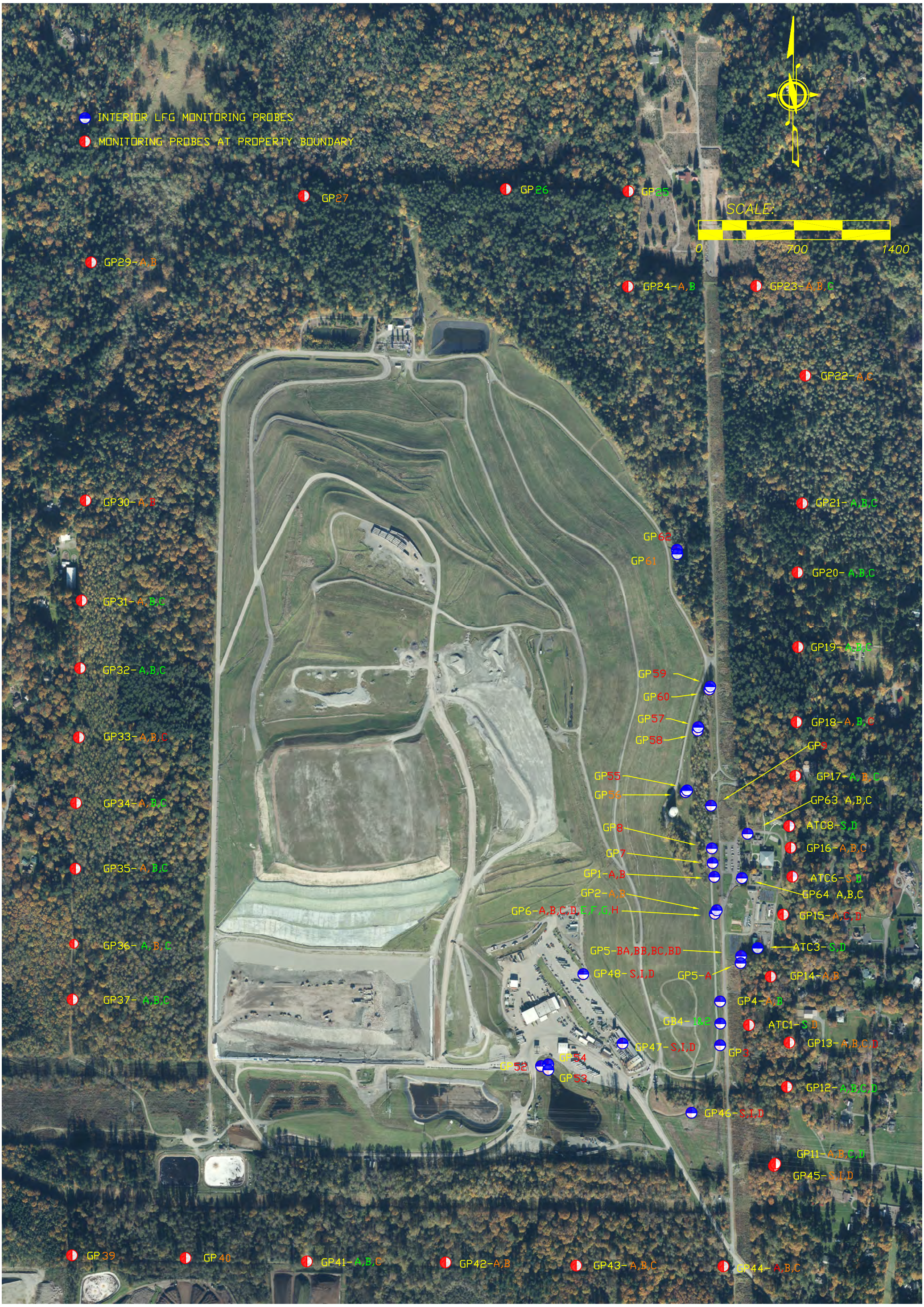
Compliance Probes


INTERIOR LFG MONITORING PROBES
MONITORING PROBES AT PROPERTY BOUNDARY
SCALE:
0
700
1400
GP27
GP26
GP25
GP29-A,B
GP24-A,B
GP23-A,B,C
GP22-A,C
GP30-A,B
GP31-A,B,C
GP32-A,B,C
GP33-A,B,C
GP34-A,B,C
GP35-A,B,C
GP36-A,B,C
GP37-A,B,C
GP62
GP61
GP59
GP60
GP57
GP58
GP55
GP56
GP8
GP7
GP1-A,B
GP2-A,B
GP6-A,B,C,D,E,F,G,H
GP5-BA,BB,BC,BD
GP5-A
GP48-S,I,D
GP47-S,I,D
GP54
GP52
GP53
GP21-A,B,C
GP20-A,B,C
GP19-A,B,C
GP18-A,B,C
GP9
GP17-A,B,C
GP63 A,B,C
ATC8-S,D
GP16-A,B,C
ATC6-S,D
GP64 A,B,C
GP15-A,C,D
ATC3-S,D
GP14-A,B
GP4-A,B
GB4-1&2
ATC1-S,D
GP3
GP13-A,B,C,D
GP12-A,B,C,D
GP46-S,I,D
GP11-A,B,C,D
GP45-S,I,D
GP39
GP40
GP41-A,B,C
GP42-A,B
GP43-A,B,C
GP44-A,B,C

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
July 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	7/11/2022 10:37	0.0	0.0	20.7	0.0	0.03	
ATC-1S	7/11/2022 10:35	0.0	0.6	19.3	0.0	0.02	
ATC-6D	7/11/2022 9:41	0.0	0.2	18.9	0.0	-0.01	
ATC-6S	7/11/2022 9:40	0.0	1.9	17.3	0.0	-0.05	
ATC-8D	7/11/2022 9:36	0.0	3.5	15.8	0.0	-0.02	
ATC-8S	7/11/2022 9:34	0.0	0.2	19.4	0.0	0.02	
GP-11A	7/11/2022 11:10	0.0	0.2	20.7	0	0.06	
GP-11B	7/11/2022 11:12	0.0	0.0	21.0	0	0.01	
GP-11C	7/11/2022 11:13	0.0	0.0	21.0	0	0.85	
GP-11D	7/11/2022 11:14	0.0	0.1	20.9	0	0.36	
GP-12A	7/11/2022 10:53	0.0	0.0	20.9	0	0.5	
GP-12B	7/11/2022 10:54	0.0	0.0	20.9	0	0	
GP-12C	7/11/2022 10:56	0.0	0.1	18.9	0	-11.56	
GP-12D	7/11/2022 10:57	0.0	0.1	20.8	0	0.02	
GP-13A	7/11/2022 10:42	0.0	2.6	15.6	0	0.03	
GP-13B	7/11/2022 10:44	0.0	0.0	0.0	0	0	NR Pressure
GP-13C	7/11/2022 10:46	0.0	0.0	20.9	0	-0.01	
GP-13D	7/11/2022 10:49	0.0	0.0	21.0	0	-0.33	
GP-14A	7/11/2022 11:03	0.0	0.0	21.0	0	-0.12	
GP-14B	7/11/2022 11:04	0.0	0.0	21.0	0	-0.26	
GP-15A	7/11/2022 10:03	0.0	0.0	20.5	0	-0.01	
GP-15C	7/11/2022 10:05	0.0	0.6	16.7	0	0.12	
GP-15D	7/11/2022 10:07	0.0	0.0	20.5	0	-0.11	
GP-16A	7/11/2022 9:28	0.0	4.4	7.2	0	0.02	
GP-16B	7/11/2022 9:29	0.0	0.1	20.0	0	0.02	
GP-16C	7/11/2022 9:31	0.0	0.1	20.1	0	-1	
GP-17A	7/11/2022 14:04	0.0	0.0	0.0	0	0	NR H2O
GP-17B	7/11/2022 14:05	0.0	0.6	17.4	0	0.02	
GP-17C	7/11/2022 14:07	0.0	0.0	20.1	0	0.73	
GP-18A	7/11/2022 14:13	0.0	1.7	11.6	0	0.01	
GP-18B	7/11/2022 14:15	0.0	0.2	13.7	0	0.37	
GP-18C	7/11/2022 14:16	0.0	0.0	20.1	0	0.52	
GP-19A	7/11/2022 14:21	0.0	0.0	20.3	0	-0.02	
GP-19B	7/11/2022 14:22	0.0	0.5	15.5	0	0.47	
GP-19C	7/11/2022 14:23	0.0	0.0	20.4	0	0.11	
GP-20A	7/11/2022 14:27	0.0	0.0	20.4	0	-0.03	
GP-20B	7/11/2022 14:29	0.0	0.2	18.2	0	0.02	
GP-20C	7/11/2022 14:30	0.0	0.1	6.0	0	0.17	
GP-21A	7/11/2022 14:33	0.0	0.1	20.0	0	0.03	
GP-21B	7/11/2022 14:35	0.0	0.1	9.3	0	0	
GP-21C	7/11/2022 14:36	0.0	0.0	0.0	0	0	NR Pressure

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
July 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-22A	7/11/2022 14:39	0.0	2.3	11.1	0	0	
GP-22C	7/11/2022 14:41	0.0	1.0	2.7	0	0.69	
GP-23A	7/11/2022 13:06	0.0	0.0	20.2	0	0	
GP-23B	7/11/2022 13:08	0.0	0.0	20.2	0	0.05	
GP-23C	7/11/2022 13:10	0.0	0.0	20.2	0	0.01	
GP-24A	7/11/2022 13:14	0.0	6.8	8.7	0	0.03	
GP-24B	7/11/2022 13:15	0.0	1.7	13.6	0	-0.03	
GP-25	7/11/2022 13:01	0.0	4.1	12.2	0	0	
GP-26	7/11/2022 12:58	0.0	0.4	19.4	0	0.12	
GP-27	7/11/2022 12:44	0.0	9.4	6.1	0	0.9	
GP-29A	7/11/2022 12:49	0.0	2.1	16.2	0	0	
GP-29B	7/11/2022 12:51	0.0	0.6	19.7	0	0.01	
GP-30A	7/11/2022 7:02	0.0	1.9	17.2	0	0.01	
GP-30B	7/11/2022 7:04	0.0	0.2	20.0	0	0.02	
GP-31A	7/11/2022 6:52	0.0	0.0	0.0	0	0	NR H2O
GP-31B	7/11/2022 6:54	0.0	0.3	18.0	0	0.09	
GP-31C	7/11/2022 6:55	0.0	0.1	20.5	0	0.04	
GP-32A	7/11/2022 7:10	0.0	0.3	20.4	0	0.01	
GP-32B	7/11/2022 7:11	0.0	0.1	20.5	0	0.01	
GP-32C	7/11/2022 7:13	0.0	0.2	20.4	0	0.01	
GP-33A	7/11/2022 7:22	0.0	3.0	15.6	0	0.03	
GP-33B	7/11/2022 7:24	0.0	0.1	20.6	0	-0.01	
GP-33C	7/11/2022 7:25	0.0	0.1	20.6	0	-0.02	
GP-34A	7/11/2022 7:29	0.0	0.0	0.0	0	0	NR H2O
GP-34B	7/11/2022 7:31	0.0	0.1	20.6	0	0.04	
GP-34C	7/11/2022 7:33	0.0	0.1	20.7	0	-1.01	
GP-35A	7/11/2022 7:37	0.0	0.5	20.4	0	0	
GP-35B	7/11/2022 7:39	0.0	0.1	20.7	0	0	
GP-35C	7/11/2022 7:40	0.0	0.1	20.7	0	0	
GP-36A	7/11/2022 7:44	0.0	0.3	5.5	0	0.47	
GP-36B	7/11/2022 7:45	0.0	0.0	0.0	0	0	NR H2O
GP-36C	7/11/2022 7:46	0.0	0.2	13.0	0	-0.01	
GP-37A	7/11/2022 7:52	0.0	0.0	0.0	0	0	NR H2O
GP-37B	7/11/2022 7:53	0.0	0.0	0.0	0	0	NR Pressure
GP-37C	7/11/2022 7:54	0.0	0.5	3.2	0	-1.01	
GP-39	7/11/2022 8:01	0.0	1.9	16.7	0	0	
GP-40	7/11/2022 8:05	0.0	0.1	15.4	0	-0.01	
GP-41A	7/11/2022 8:21	0.0	0.1	20.5	0	-0.03	
GP-41B	7/11/2022 8:23	0.0	0.1	20.4	0	0	
GP-41C	7/11/2022 8:25	0.0	0.1	20.5	0	-0.02	
GP-42A	7/11/2022 8:28	0.0	0.0	0.0	0	0	NR Pressure

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
July 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-42B	7/11/2022 8:29	0.0	1.0	16.2	0	0.01	
GP-43A	7/11/2022 8:41	0.0	0.3	18.5	0	-0.01	
GP-43B	7/11/2022 8:42	0.0	0.1	20.3	0	-0.01	
GP-43C	7/11/2022 8:44	0.0	0.1	20.4	0	-0.73	
GP-44A	7/11/2022 8:49	0.0	0.1	20.3	0	-0.07	
GP-44B	7/11/2022 8:51	0.0	0.2	20.2	0	0.6	
GP-44C	7/11/2022 8:53	0.0	0.0	20.3	0	0.02	
GP-45D	7/11/2022 11:20	0.0	0.0	21.0	0	0.47	
GP-45I	7/11/2022 11:18	0.0	0.0	21.0	0	0.01	
GP-45S	7/11/2022 11:16	0.0	0.0	21.0	0	0.77	

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Location ID	Date/Time	CH4 (% Vol)	CO2 % Vol	O2 % Vol	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	8/17/2022 13:00	0.0	0.0	20.4	0.0	-0.13	
ATC-1S	8/17/2022 12:59	0.0	2.1	18.8	0.0	-0.11	
ATC-6D	8/17/2022 14:15	0.0	0.2	19.4	0.0	-0.06	
ATC-6S	8/17/2022 14:14	0.0	1.5	19.0	0.0	-0.12	
ATC-8D	8/17/2022 14:25	0.0	1.8	18.7	0.0	-0.01	
ATC-8S	8/17/2022 14:23	0.0	0.1	18.5	0.0	0.06	
GP-11A	8/17/2022 12:46	0.0	1.5	18.6	0.0	-0.04	
GP-11B	8/17/2022 12:47	0.0	0.1	20.5	0.0	0	
GP-11C	8/17/2022 12:48	0.0	0.1	20.5	0.0	0.53	
GP-11D	8/17/2022 12:50	0.0	0.1	20.5	0.0	-0.06	
GP-12A	8/17/2022 13:18	0.0	0.2	19.8	0.0	-0.09	
GP-12B	8/17/2022 13:20	0.0	0.0	20.2	0.0	-0.12	
GP-12C	8/17/2022 13:22	0.0	0.1	18.1	0.0	-7.21	
GP-12D	8/17/2022 13:24	0.0	0.1	19.9	0.0	0.24	
GP-13A	8/17/2022 13:07	0.0	1.8	19.0	0.0	-0.08	
GP-13B	8/17/2022 13:08	0.0	0.0	20.4	0.0	-0.11	
GP-13C	8/17/2022 13:10	0.0	0.0	20.4	0.0	0	
GP-13D	8/17/2022 13:11	0.0	0.1	20.3	0.0	0.71	
GP-14A	8/17/2022 13:30	0.0	0.0	19.7	0.0	0.29	
GP-14B	8/17/2022 13:32	0.0	0.0	20.2	0.0	0.09	
GP-15A	8/17/2022 13:58	0.0	0.1	19.8	0.0	-0.05	
GP-15C	8/17/2022 13:59	0.0	0.5	15.5	0.0	0.15	
GP-15D	8/17/2022 14:01	0.0	0.0	20.0	0.0	-1.24	
GP-16A	8/17/2022 14:18	0.0	2.9	18.0	0.0	-0.06	
GP-16B	8/17/2022 14:19	0.0	0.0	20.0	0.0	0.11	
GP-16C	8/17/2022 14:21	0.0	0.0	20.1	0.0	0.91	
GP-17A	8/17/2022 7:42	0.0	3.5	12.7	0.0	0.01	
GP-17B	8/17/2022 7:44	0.0	0.7	18.1	0.0	0.03	
GP-17C	8/17/2022 7:45	0.0	0.1	20.9	0.0	0.07	
GP-18A	8/17/2022 7:49	0.0	2.9	17.0	0.0	-0.01	
GP-18B	8/17/2022 7:51	0.0	0.3	14.6	0.0	0.04	
GP-18C	8/17/2022 7:52	0.0	0.1	19.1	0.0	-0.01	
GP-19A	8/17/2022 7:58	0.0	1.2	18.9	0.0	0	
GP-19B	8/17/2022 8:00	0.0	0.6	16.3	0.0	-0.06	
GP-19C	8/17/2022 8:01	0.0	0.1	20.9	0.0	0.03	
GP-20A	8/17/2022 8:10	0.0	1.9	18.9	0.0	-0.07	
GP-20B	8/17/2022 8:12	0.0	0.3	18.4	0.0	-0.15	
GP-20C	8/17/2022 8:13	0.0	0.2	7.4	0.0	-0.03	

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Location ID	Date/Time	CH4 (% Vol)	CO2 % Vol	O2 % Vol	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-21A	8/17/2022 8:23	0.0	0.1	20.7	0.0	-0.06	
GP-21B	8/17/2022 8:24	0.0	0.1	10.1	0.0	-0.07	
GP-21C	8/17/2022 8:25	0.0	1.1	14.2	0.0	-4.18	Pump Fail
GP-22A	8/17/2022 8:29	0.0	2.6	15.7	0.0	-0.06	
GP-22C	8/17/2022 8:31	0.0	0.9	3.5	0.0	0.04	
GP-23A	8/17/2022 8:38	0.0	0.1	20.9	0.0	-0.06	
GP-23B	8/17/2022 8:39	0.0	0.1	21.0	0.0	-0.12	
GP-23C	8/17/2022 8:40	0.0	0.1	21.0	0.0	-0.12	
GP-24A	8/17/2022 8:46	0.0	6.3	13.4	0.0	-0.05	
GP-24B	8/17/2022 8:47	0.0	0.1	21.0	0.0	-0.25	
GP-25	8/17/2022 8:51	0.0	3.9	17.8	0.0	-0.1	
GP-26	8/17/2022 8:54	0.0	0.4	20.8	0.0	-0.19	
GP-27	8/17/2022 8:59	0.0	9.7	11.6	0.0	-0.09	
GP-29A	8/17/2022 9:14	0.0	1.4	19.3	0.0	-0.08	
GP-29B	8/17/2022 9:16	0.0	0.6	20.6	0.0	-0.08	
GP-30A	8/17/2022 9:32	0.0	0.6	20.7	0.0	-0.11	
GP-30B	8/17/2022 9:33	0.0	0.2	20.9	0.0	-0.37	
GP-31A	8/17/2022 9:40	0.7	12.5	0.5	14.0	-0.25	
GP-31B	8/17/2022 9:41	0.0	0.3	17.2	0.0	-0.34	
GP-31C	8/17/2022 9:42	0.0	0.1	20.9	0.0	-0.13	
GP-32A	8/17/2022 9:45	0.0	0.3	20.8	0.0	-0.13	
GP-32B	8/17/2022 9:47	0.0	0.2	20.8	0.0	-0.15	
GP-32C	8/17/2022 9:48	0.0	0.3	20.7	0.0	-0.18	
GP-33A	8/17/2022 9:52	0.0	3.0	18.0	0.0	-0.14	
GP-33B	8/17/2022 9:53	0.0	0.5	19.0	0.0	-0.2	
GP-33C	8/17/2022 9:56	0.0	0.1	20.9	0.0	-0.14	
GP-34A	8/17/2022 10:09	0.2	0.5	10.5	4.0	0.2	
GP-34B	8/17/2022 10:10	0.0	0.2	20.7	0.0	0	
GP-34C	8/17/2022 10:12	0.0	0.1	20.2	0.0	0.16	
GP-35A	8/17/2022 10:16	0.0	11.8	1.9	0.0	0.12	
GP-35B	8/17/2022 10:18	0.0	0.1	20.8	0.0	-0.07	
GP-35C	8/17/2022 10:19	0.0	0.1	20.8	0.0	-0.16	
GP-36A	8/17/2022 10:23	0.0	1.0	20.1	0.0	-0.1	
GP-36B	8/17/2022 10:24	0.0	3.9	15.0	0.0	0.08	
GP-36C	8/17/2022 10:26	0.0	0.3	8.7	0.0	0.13	
GP-37A	8/17/2022 10:31	0.0	0.4	9.2	0.0	-0.08	Pump Fail
GP-37B	8/17/2022 10:32	0.0	0.4	16.9	0.0	0.46	Pump Fail
GP-37C	8/17/2022 10:34	0.0	0.5	0.7	0.0	0.69	

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Location ID	Date/Time	CH4 (% Vol)	CO2 % Vol	O2 % Vol	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-39	8/17/2022 10:41	0.0	2.1	18.4	0.0	0.03	
GP-40	8/17/2022 10:46	0.0	0.0	14.7	0.0	0.05	
GP-41A	8/17/2022 10:56	0.0	4.1	14.8	0.0	0.02	
GP-41B	8/17/2022 10:58	0.0	0.9	5.1	0.0	0.08	
GP-41C	8/17/2022 10:59	0.0	0.1	20.4	0.0	-0.08	
GP-42A	8/17/2022 11:04	0.0	4.0	14.2	0.0	-0.52	
GP-42B	8/17/2022 11:06	0.0	1.0	16.5	0.0	0.33	
GP-43A	8/17/2022 11:16	0.0	0.5	18.2	0.0	0.19	Pump Fail
GP-43B	8/17/2022 11:17	0.0	0.1	20.5	0.0	0.05	Pump Fail
GP-43C	8/17/2022 11:19	0.0	0.1	20.3	0.0	0.1	
GP-44A	8/17/2022 11:27	0.0	10.8	0.8	0.0	-0.04	
GP-44B	8/17/2022 11:28	0.0	0.2	20.2	0.0	0.14	
GP-44C	8/17/2022 11:30	0.0	0.0	20.9	0.0	-0.11	
GP-45D	8/17/2022 12:39	0.0	0.0	21.2	0.0	0.48	
GP-45I	8/17/2022 12:37	0.0	0.0	21.2	0.0	0.05	
GP-45S	8/17/2022 12:36	0.0	0.1	21.2	0.0	0	

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Location ID	Date/Time	CH4 (% Vol)	CO2 % Vol	O2 % Vol	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	9/15/2022 9:11	0.0	0.0	21.0	0.0	-0.06	
ATC-1S	9/15/2022 9:10	0.0	0.8	20.6	0.0	-0.04	
ATC-6D	9/15/2022 10:32	0.0	0.2	20.4	0.0	0.01	
ATC-6S	9/15/2022 10:31	0.0	0.7	20.3	0.0	-0.02	
ATC-8D	9/15/2022 10:22	0.0	0.9	20.0	0.0	-0.01	
ATC-8S	9/15/2022 10:21	0.0	0.1	20.6	0.0	-0.14	
GP-11A	9/15/2022 8:59	0.0	0.9	20.4	0	0.04	
GP-11B	9/15/2022 9:01	0.0	0.1	21.0	0	-0.62	
GP-11C	9/15/2022 9:02	0.0	0.0	21.0	0	-0.78	
GP-11D	9/15/2022 9:04	0.0	0.1	20.9	0	0.02	
GP-12A	9/15/2022 9:26	0.0	0.1	20.6	0	0	
GP-12B	9/15/2022 9:27	0.0	0.0	20.7	0	-0.03	
GP-12C	9/15/2022 9:29	0.0	0.1	20.3	0	0.01	
GP-12D	9/15/2022 9:30	0.0	0.0	20.7	0	-0.1	
GP-13A	9/15/2022 9:16	0.0	1.5	19.6	0	-0.04	
GP-13B	9/15/2022 9:18	0.0	0.1	20.6	0	-0.09	
GP-13C	9/15/2022 9:20	0.0	0.0	20.7	0	0.02	
GP-13D	9/15/2022 9:22	0.0	0.0	20.7	0	-1.5	
GP-14A	9/15/2022 9:36	0.0	0.0	20.6	0	-0.46	
GP-14B	9/15/2022 9:38	0.0	0.0	20.7	0	-0.53	
GP-15A	9/15/2022 9:58	0.0	3.1	11.9	0	-0.01	
GP-15C	9/15/2022 10:00	0.0	0.3	18.8	0	-0.41	
GP-15D	9/15/2022 10:01	0.0	0.1	20.5	0	-1.34	
GP-16A	9/15/2022 10:25	0.0	1.4	19.7	0	-0.02	
GP-16B	9/15/2022 10:27	0.0	0.1	20.6	0	-1.95	
GP-16C	9/15/2022 10:28	0.0	0.1	20.7	0	-1.59	
GP-17A	9/15/2022 10:54	0.0	3.1	16.9	0	0	
GP-17B	9/15/2022 10:55	0.0	0.5	18.1	0	-0.07	
GP-17C	9/15/2022 10:56	0.0	0.1	20.5	0	-1.5	
GP-18A	9/15/2022 10:59	0.0	2.6	18.1	0	0.44	
GP-18B	9/15/2022 11:00	0.0	0.2	17.2	0	0.01	
GP-18C	9/15/2022 11:03	0.0	0.1	20.0	0	-1.62	
GP-19A	9/15/2022 11:05	0.0	1.2	18.2	0	0.05	
GP-19B	9/15/2022 11:06	0.0	0.5	16.3	0	-0.01	
GP-19C	9/15/2022 11:07	0.0	0.0	20.5	0	0.81	
GP-20A	9/15/2022 11:10	0.0	0.1	20.5	0	0.01	
GP-20B	9/15/2022 11:11	0.0	0.2	17.7	0	0.02	
GP-20C	9/15/2022 11:13	0.0	0.2	12.5	0	0.01	
GP-21A	9/15/2022 11:15	0.0	0.3	20.1	0	0.02	

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Location ID	Date/Time	CH4 (% Vol)	CO2 % Vol	O2 % Vol	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-21B	9/15/2022 11:17	0.0	0.1	10.2	0	0.04	
GP-21C	9/15/2022 11:18	0.0	0.6	16.5	0	-0.22	
GP-22A	9/15/2022 11:22	0.0	2.1	18.5	0	0.01	
GP-22C	9/15/2022 11:23	0.0	0.3	6.5	0	-1.5	
GP-23A	9/15/2022 11:28	0.0	0.1	20.2	0	-0.07	
GP-23B	9/15/2022 11:29	0.0	0.0	20.4	0	0.27	
GP-23C	9/15/2022 11:30	0.0	0.0	20.4	0	0.03	
GP-24A	9/15/2022 11:33	0.0	4.9	15.4	0	-0.02	
GP-24B	9/15/2022 11:35	0.0	0.1	20.3	0	-0.45	
GP-25	9/15/2022 11:37	0.0	2.8	18.5	0	-0.15	
GP-26	9/15/2022 11:40	0.0	0.2	20.1	0	-0.9	
GP-27	9/15/2022 11:43	0.0	7.0	14.7	0	-0.01	
GP-29A	9/15/2022 11:48	0.0	1.6	19.0	0	-0.03	
GP-29B	9/15/2022 11:51	0.0	0.4	19.7	0	-0.03	
GP-30A	9/15/2022 7:19	0.0	0.3	20.3	0	0.08	
GP-30B	9/15/2022 7:21	0.0	1.0	19.4	0	-0.74	
GP-31A	9/15/2022 7:25	0.0	8.4	10.3	0	-0.68	
GP-31B	9/15/2022 7:27	0.0	0.2	19.2	0	-0.91	
GP-31C	9/15/2022 7:28	0.0	0.1	20.7	0	-0.03	
GP-32A	9/15/2022 7:31	0.0	0.1	20.8	0	-0.02	
GP-32B	9/15/2022 7:33	0.0	0.2	20.7	0	0	
GP-32C	9/15/2022 7:35	0.0	0.2	20.7	0	-0.06	
GP-33A	9/15/2022 7:38	0.0	2.0	19.1	0	-0.03	
GP-33B	9/15/2022 7:40	0.0	0.4	20.2	0	-0.08	
GP-33C	9/15/2022 7:42	0.0	0.1	20.9	0	-1.3	
GP-34A	9/15/2022 7:49	0.0	12.2	3.9	0	-0.11	
GP-34B	9/15/2022 7:51	0.0	0.1	20.8	0	-0.03	
GP-34C	9/15/2022 7:52	0.0	0.1	21.0	0	-1.21	
GP-35A	9/15/2022 7:57	0.0	7.3	11.4	0	-0.05	
GP-35B	9/15/2022 7:58	0.0	0.1	20.7	0	-0.08	
GP-35C	9/15/2022 8:00	0.0	0.1	20.8	0	-0.08	
GP-36A	9/15/2022 8:02	0.0	0.1	20.8	0	-1	
GP-36B	9/15/2022 8:04	0.0	3.5	18.1	0	-0.04	
GP-36C	9/15/2022 8:06	0.0	0.2	15.7	0	-0.71	
GP-37A	9/15/2022 8:09	0.0	1.7	17.8	0	-0.17	
GP-37B	9/15/2022 8:11	0.0	0.2	20.1	0	-0.1	
GP-37C	9/15/2022 8:14	0.0	0.4	5.2	0	-1.39	
GP-39	9/15/2022 8:19	0.0	0.9	19.1	0	0	
GP-40	9/15/2022 8:23	0.0	0.0	14.9	0	0.01	

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Location ID	Date/Time	CH4 (% Vol)	CO2 % Vol	O2 % Vol	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-41A	9/15/2022 8:27	0.0	4.0	15.7	0	0.01	
GP-41B	9/15/2022 8:29	0.0	0.9	5.9	0	-0.09	
GP-41C	9/15/2022 8:30	0.0	0.1	20.7	0	-0.03	
GP-42A	9/15/2022 8:34	0.0	3.8	15.5	0	-0.03	
GP-42B	9/15/2022 8:36	0.0	0.3	20.6	0	-0.86	
GP-43A	9/15/2022 8:40	0.0	0.1	20.8	0	0.01	
GP-43B	9/15/2022 8:41	0.0	0.0	20.8	0	-0.09	
GP-43C	9/15/2022 8:43	0.0	0.1	20.6	0	-0.08	
GP-44A	9/15/2022 8:46	0.0	8.2	10.5	0	-0.06	
GP-44B	9/15/2022 8:48	0.0	0.3	19.7	0	-0.3	
GP-44C	9/15/2022 8:49	0.0	0.1	20.8	0	-0.07	
GP-45D	9/15/2022 8:56	0.0	0.0	20.9	0	-0.74	
GP-45I	9/15/2022 8:55	0.0	0.0	20.9	0	-0.1	
GP-45S	9/15/2022 8:53	0.0	0.1	20.9	0	0	

Interior Probes

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CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
July 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	7/11/2022 9:56	0.0	0.1	20.6	0	-1.72	
ATC-3S	7/11/2022 9:53	0.0	0.3	20.3	0	-0.04	
GP-1A	7/14/2022 23:52	0.0	0.5	20.6	0	-0.02	
GP-1B	7/14/2022 23:54	0.0	0.1	21.0	0	-0.09	
GP-2A	7/15/2022 0:19	0.0	8.8	11.5	0	-0.05	
GP-2B	7/15/2022 0:21	0.0	0.2	21.0	0	-0.17	
GP-3	7/15/2022 0:40	0.0	14.0	9.7	0	-0.06	
GP-46D	7/15/2022 0:51	0.0	0.1	21.0	0	-0.16	
GP-46I	7/15/2022 0:49	16.2	1.0	2.5	>>>>	-0.98	
GP-46S	7/15/2022 0:44	0.0	0.1	20.2	0	-0.08	
GP-47D	7/11/2022 11:31	0	0.8	17.2	0	-0.01	
GP-47I	7/11/2022 11:29	0	0.2	20.7	0	0.05	
GP-47S	7/11/2022 11:27	0	0	21	0	0	
GP-48D	7/15/2022 1:01	12.6	8.8	1.4	>>>>	0.25	
GP-48I	7/15/2022 0:59	0.0	0.5	16.8	0	-0.03	
GP-48S	7/15/2022 0:57	0.0	0.2	21.0	0	0.03	0
GP-4A	7/15/2022 0:26	0.0	0.1	21.0	0	-0.15	
GP-4B	7/15/2022 0:28	0.0	0.1	21.0	0	-0.06	
GP-52	7/11/2022 12:19	0.0	0.1	20.6	0	0.58	
GP-53	7/11/2022 12:21	0.0	0.3	19.3	0	0.8	
GP-54	7/11/2022 12:23	0.0	0.0	20.6	0	0.07	
GP-55	7/14/2022 23:36	0.0	0.2	20.8	0	0.00	
GP-56	7/14/2022 23:39	0.0	1.1	18.2	0	-0.26	
GP-57	7/14/2022 23:27	50.1	24.8	0.3	>>>>	-7.54	
GP-58	7/14/2022 23:30	0.0	0.0	0.0	0	0.00	
GP-59	7/14/2022 23:19	0.0	0.8	19.9	0	-0.04	
GP-5A	7/11/2022 10:28	0.0	0.0	20.6	0	-2.26	0
GP-5BA	7/11/2022 10:20	0.0	0.2	20.0	0	-0.01	
GP-5BB	7/11/2022 10:22	0.0	0.1	20.4	0	-2.23	
GP-5BC	7/11/2022 10:24	0.0	0.0	20.5	0	-2.25	
GP-5BD	7/11/2022 10:25	0.0	0.0	20.5	0	-1.52	
GP-60	7/14/2022 23:22	0.0	0.1	20.8	0	-0.13	
GP-61	7/14/2022 23:03	0.0	1.8	18.9	0	0.13	
GP-62	7/14/2022 23:06	0.0	2.1	18.7	0	-0.06	
GP-63A	7/11/2022 9:20	0.0	0.2	19.8	0	-0.01	
GP-63B	7/11/2022 9:22	0.0	0.1	19.9	0	0.01	
GP-63C	7/11/2022 9:24	0.0	0.0	20.1	0	0.01	
GP-64A	7/11/2022 9:45	0.0	0.3	20.3	0	0.03	
GP-64B	7/11/2022 9:47	0.0	0.3	19.7	0	0.08	
GP-64C	7/11/2022 9:49	0.0	0.1	20.6	0	-1.29	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
July 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-6A	7/14/2022 23:59	0.0	0.1	21.0	0	-0.48	0
GP-6B	7/15/2022 0:02	0.0	1.6	10.8	0	0.10	
GP-6C	7/15/2022 0:03	0.0	1.6	17.2	0	0.06	
GP-6D	7/15/2022 0:05	0.0	0.1	21.0	0	-0.45	
GP-6E	7/15/2022 0:07	0.0	0.1	21.0	0	0.02	
GP-6F	7/15/2022 0:09	0.0	0.1	21.0	0	-0.02	
GP-6G	7/15/2022 0:10	0.0	1.1	14.0	0	-0.13	
GP-6H	7/15/2022 0:12	0.0	0.1	21.0	0	-0.41	
GP-7	7/14/2022 23:48	0.0	0.1	21.0	0	-0.10	
GP-8	7/14/2022 23:43	0.0	0.3	18.5	0	-0.14	
GP-9	7/14/2022 23:13	0.0	0.2	20.5	0	-0.01	
GP-B4-1	7/15/2022 0:34	0.8	6.6	7.9	16	-0.70	
GP-B4-2	7/15/2022 0:36	0.0	0.2	21.0	0	-0.10	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
August 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	8/17/2022 13:53	0.0	0.6	18.1	0	0.29	
ATC-3S	8/17/2022 13:52	0.0	11.4	3.7	0	0.15	
GP-1A	8/17/2022 22:19	0.0	1.9	19.6	0.0	0.15	
GP-1B	8/17/2022 22:21	0.0	0.1	20.8	0.0	0.12	
GP-2A	8/17/2022 22:50	0.0	8.0	11.8	0.0	0.12	
GP-2B	8/17/2022 22:52	0.0	0.1	20.8	0.0	0.09	
GP-3	8/17/2022 23:11	0.0	12.1	12.1	0.0	0.11	
GP-46D	8/17/2022 23:22	0.0	0.1	21.0	0.0	1.02	
GP-46I	8/17/2022 23:20	3.2	0.2	18.4	64.0	1.15	
GP-46S	8/17/2022 23:18	0.0	0.1	20.2	0.0	0.14	
GP-47D	8/17/2022 14:41	0.0	1.1	15.7	0	-0.06	
GP-47I	8/17/2022 14:40	12.5	11.1	5.0	>>>>	1.73	
GP-47S	8/17/2022 14:39	44.4	17.3	0.1	>>>>	1.69	
GP-48D	8/17/2022 23:33	11.5	9.3	0.3	>>>>	0.66	
GP-48I	8/17/2022 23:31	0.0	0.2	20.8	0.0	0.03	
GP-48S	8/17/2022 23:35	0.0	0.3	18.4	0.0	0.05	
GP-4A	8/17/2022 22:59	0.0	6.9	16.1	0.0	0.12	
GP-4B	8/17/2022 23:01	0.0	0.1	20.9	0.0	0.12	
GP-52	8/17/2022 14:47	0.0	4.5	9.3	0	0.02	
GP-53	8/17/2022 14:49	0.0	0.2	19.3	0	0.29	
GP-54	8/17/2022 14:50	0.0	0.0	20.1	0	-0.08	
GP-55	8/17/2022 22:04	0.0	0.2	20.5	0.0	0.12	
GP-56	8/17/2022 22:02	0.0	1.9	17.0	0.0	0.05	
GP-57	8/17/2022 21:57	48.9	25.1	0.1	>>>>	-2.84	
GP-58	8/17/2022 21:54	1.2	28.7	0.0	24.0	0.05	
GP-59	8/17/2022 21:50	20.1	7.7	0.3	>>>>	0.62	
GP-5A	8/17/2022 13:40	0.0	0.0	20.3	0	0.67	
GP-5BA	8/17/2022 13:42	0.0	4.4	11.2	0	0.06	
GP-5BB	8/17/2022 13:44	0.0	0.1	20.3	0	0.59	
GP-5BC	8/17/2022 13:45	0.0	0.1	20.3	0	0.78	
GP-5BD	8/17/2022 13:47	0.0	0.9	9.4	0	0.81	
GP-60	8/17/2022 21:48	0.0	0.1	20.7	0.0	0.07	
GP-61	8/17/2022 21:36	0.0	1.7	19.8	0.0	0.61	
GP-62	8/17/2022 21:34	0.0	1.9	19.0	0.0	0.05	
GP-63A	8/17/2022 14:29	0.0	7.6	14.8	0.0	0.02	
GP-63B	8/17/2022 14:30	0.0	0.1	19.8	0.0	-0.01	
GP-63C	8/17/2022 14:32	0.0	0.0	20.0	0.0	0.30	
GP-64A	8/17/2022 14:06	0.0	0.3	19.7	0.0	0.17	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
August 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-64B	8/17/2022 14:08	0.0	1.9	14.5	0.0	-0.03	
GP-64C	8/17/2022 14:10	0	0.1	19.9	0	0.72	
GP-6A	8/17/2022 22:32	0.0	0.1	20.9	0.0	1.07	0
GP-6B	8/17/2022 22:34	0.0	0.1	20.9	0.0	1.54	
GP-6C	8/17/2022 22:36	0.0	0.8	16.9	0.0	1.46	
GP-6D	8/17/2022 22:37	0.0	0.2	20.2	0.0	0.97	
GP-6E	8/17/2022 22:39	0.0	0.1	20.9	0.0	1.24	
GP-6F	8/17/2022 22:41	0.0	0.1	21.0	0.0	1.49	
GP-6G	8/17/2022 22:43	0.0	1.1	13.9	0.0	1.52	
GP-6H	8/17/2022 22:45	0.0	0.1	21.0	0.0	1.35	
GP-7	8/17/2022 22:15	0.0	0.1	20.7	0	0.96	
GP-8	8/17/2022 22:10	0.0	0.5	17.1	0	1.04	
GP-9							
GP-B4-1	8/17/2022 23:06	5.5	12.1	0.1	>>>>	1.26	
GP-B4-2	8/17/2022 23:08	0.0	2.8	19.2	0	1.25	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
September 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	9/15/2022 9:55	0	1.2	17.4	0	-1.21	
ATC-3S	9/15/2022 9:53	0	13.2	5.1	0	0.01	
GP-1A	9/14/2022 23:38	0.0	1.4	20.1	0	0.02	
GP-1B	9/14/2022 23:39	0.0	0.1	21.0	0	-0.11	
GP-2A	9/15/2022 0:02	0.0	6.5	14.1	0	-0.18	
GP-2B	9/15/2022 0:04	0.0	0.1	21.0	0	-0.61	
GP-3	9/15/2022 0:23	0.0	14.0	9.3	0	-0.56	
GP-46D	9/15/2022 0:31	0.0	0.1	21.0	0	0	
GP-46I	9/15/2022 0:29	1.2	0.2	19.9	24	-0.44	
GP-46S	9/15/2022 0:27	0.0	0.1	20.8	0	-0.75	
GP-47D	9/15/2022 10:46	0	0.8	18.9	0	-0.05	
GP-47I	9/15/2022 10:45	22.2	10.1	10.7	>>>>	-0.9	
GP-47S	9/15/2022 10:43	0	0.1	20.7	0	0	
GP-48D	9/15/2022 0:40	7.5	2.1	15.8	>>>>	-0.02	
GP-48I	9/15/2022 0:38	0.0	0.2	21.0	0	-0.03	
GP-48S	9/15/2022 0:37	0.0	0.3	19.6	0	-0.08	
GP-4A	9/15/2022 0:09	0.0	5.6	16.0	0	-0.61	
GP-4B	9/15/2022 0:11	0.0	0.1	21.0	0	-0.01	
GP-52	9/15/2022 12:42	0	0.5	19.3	0	-0.06	
GP-53	9/15/2022 12:43	0	0.2	19.1	0	-0.2	
GP-54	9/15/2022 12:44	0	0.1	20.1	0	-0.04	
GP-55	9/14/2022 23:24	3.9	3.0	16.1	78	-0.02	
GP-56	9/14/2022 23:26	0.0	2.1	17.8	0	-0.77	
GP-57	9/14/2022 23:16	52.7	25.0	0.1	>>>>	-0.49	
GP-58	9/14/2022 23:18	0.0	17.1	4.6	0	-0.47	
GP-59	9/14/2022 23:09	6.2	3.3	16.5	>>>>	-0.63	
GP-5A	9/15/2022 9:42	0	0	20.7	0	-1.64	
GP-5BA	9/15/2022 9:44	0	2.6	17	0	0.02	
GP-5BB	9/15/2022 9:45	0	0.1	20.7	0	-1.65	
GP-5BC	9/15/2022 9:46	0	0.1	20.7	0	-1.72	
GP-5BD	9/15/2022 9:48	0	0	20.7	0	-1.69	
GP-60	9/14/2022 23:11	0.0	0.2	20.6	0	-0.49	
GP-61	9/14/2022 22:46	0.0	0.4	20.1	0	-0.48	
GP-62	9/14/2022 22:48	0.0	2.0	18.5	0	-0.46	
GP-63A	9/15/2022 10:13	0	4	17.9	0	-0.04	
GP-63B	9/15/2022 10:15	0	0.2	20.5	0	-0.03	
GP-63C	9/15/2022 10:17	0	0.1	20.6	0	-0.57	
GP-64A	9/15/2022 10:07	0	3.5	14.5	0	0.01	
GP-64B	9/15/2022 10:09	0	0.1	20.4	0	-0.08	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
September 2022 Monitoring Data

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-64C	9/15/2022 10:10	0	0.1	20.6	0	-1.57	
GP-6A	9/14/2022 23:44	0.0	0.9	15.3	0	-0.62	
GP-6B	9/14/2022 23:46	0.0	2.3	7.0	0	-0.01	
GP-6C	9/14/2022 23:48	0.0	3.8	17.5	0	-0.01	
GP-6D	9/14/2022 23:50	0.0	2.0	10.1	0	-0.07	
GP-6E	9/14/2022 23:52	0.0	0.1	21.0	0	-0.02	
GP-6F	9/14/2022 23:54	0.0	0.6	15.6	0	-0.92	
GP-6G	9/14/2022 23:55	0.0	0.1	21.0	0	-0.57	
GP-6H	9/14/2022 23:57	0.0	3.1	2.8	0	-0.01	
GP-7	9/14/2022 23:34	0.0	2.1	11.6	0	-0.16	
GP-8	9/14/2022 23:31	0.0	0.1	21.0	0	-0.06	
GP-9	9/14/2022 22:54	0.0	0.5	18.9	0	-2.91	
GP-B4-1	9/15/2022 0:16	3.7	11.4	0.2	74	-0.08	
GP-B4-2	9/15/2022 0:18	0.0	1.1	20.9	0	-0.06	

Migration Probes

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CEDAR HILLS REGIONAL LANDFILL

West Perimeter Landfill Gas Migration Control Probes

Third Quarter 2022 Monitoring Data

Probe ID	Date	Time	Barometric Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	Static Pressure in INWC
MGPW 1700	7/6/2022	1p	29.89	0	0.3	20.1	0.15
MGPW 1700	7/18/2022	11:20AM	30.1	0	0.4	19.6	0.06
MGPW 1700	8/2/2022	2:12PM	29.98	0	0.1	19.8	0.04
MGPW 1708	7/6/2022	1:38PM	29.89	0	0.2	20.6	-0.88
MGPW 1708	7/18/2022	11:04AM	30.1	0	0.2	20.4	-1.97
MGPW 1708	8/2/2022	2:21pm	29.98	0	0.1	19.5	-0.9
MGPW 1710S	7/6/2022	1:23PM	29.89	0	0.3	20.3	-0.68
MGPW 1710S	7/18/2022	10:44AM	30.1	0	0.3	20.1	-1.90
MGPW 1710S	8/2/2022	2:31pm	29.98	0	0	19.4	-0.50
MGPW 1710D	7/6/2022	1:26pm	29.89	0	0.2	20.6	-0.89
MGPW 1710D	7/18/2022	10:48AM	30.1	0	0.2	20.4	-1.99
MGPW 1710D	8/2/2022	2:33pm	29.98	0	0	19.6	-0.8
MGPW 1714	7/6/2022	1:14pm	29.89	0	0.1	20.7	-0.92
MGPW 1714	7/18/2022	10:34AM	30.1	0	0.3	19.9	-1.97
MGPW 1714	8/2/2022	2:38pm	29.98	0	0.1	19.5	-0.7

On-Site Building Monitoring

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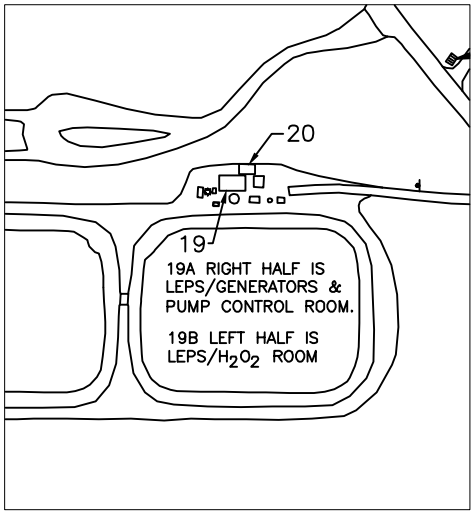
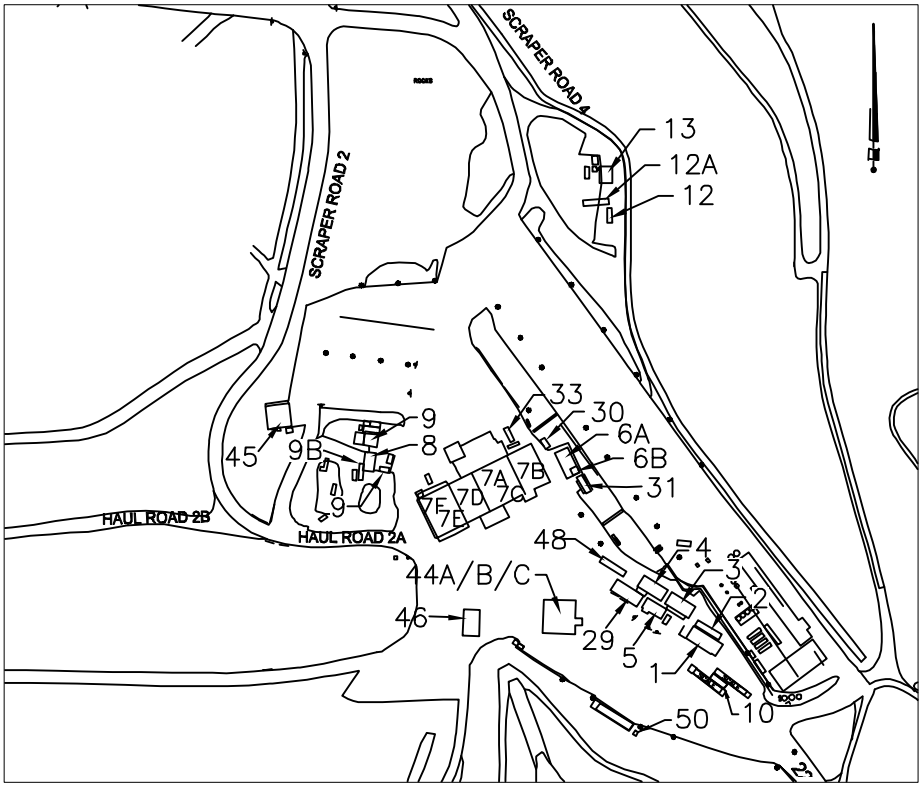
Aeration Ponds



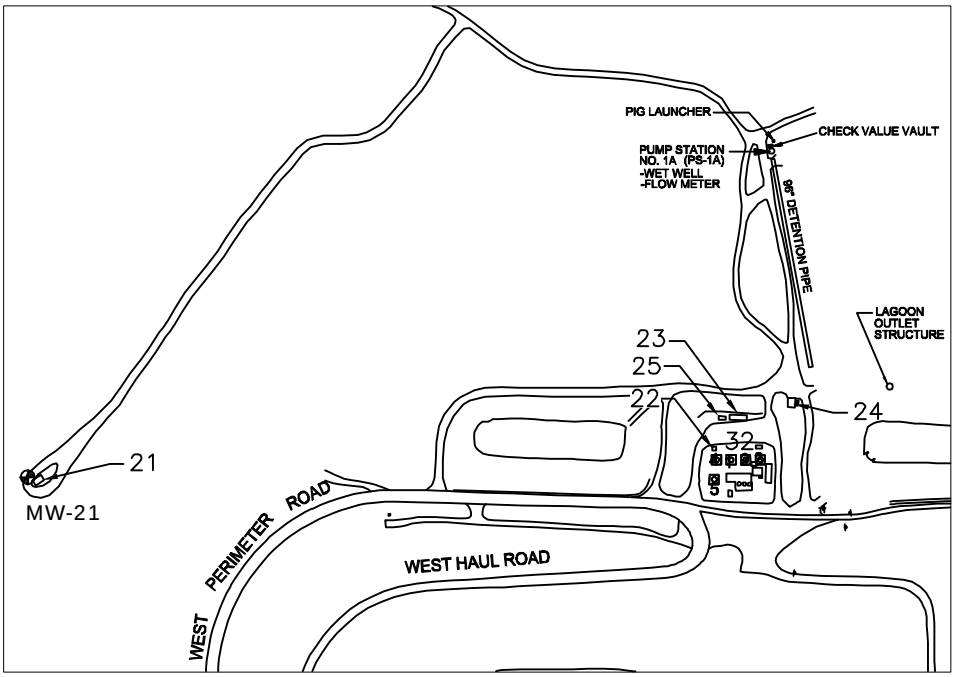
Shop and Office Buildings



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_2O_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

CEDAR HILLS REGIONAL LANDFILL BUILDING NUMBERS

North Flare Station



Source: KCSWD, February 2012

King County

Landfill Gas Structure Monitoring Location

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

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

THIRD QUARTER
BUILDING MONITORING

King County

INSTRUMENT: Place check by instrument used :

Foxboro TVA 2020

SEM 500 ×

WEATHER: Sunny

DATE: 07/20/22

TECH: SB

ENVIS ID		BLDG #	DESCRIPTION	CH_4 (ppm)	REMARKS	BAR PRESS (in. Hg)	TIME
GOC- 07/20/22		1	FRONT OFFICE			29.94	10:32PM
GCR- 07/20/22		2	CONF ROOM				
GAO- 07/20/22		3	PAYROLL OFFICE				
GEO- 07/20/22		4	ENGR. OFFICE				
GLRC- 07/20/22		5	LUNCHROOM				
GSPC 07/20/22			SPOC				
GELO- 07/20/22	A	6A	DRY STORAGE				
GELO- 07/20/22	B	6B	ELECTRICIAN OFFICE				
GAP- 07/20/22			ACCOUNT PAYABLE				
GSO- 07/20/22	A	7A	SHOP OFFICE				
GPR- 07/20/22	B	7B	PARTS ROOM				
GMS- 07/20/22	C	7C	SHOP PIT AREA/BAY				
GTB- 07/20/22	D	7D	SHOP TIRE BAY				
GEW- 07/20/22	E	7E	EAST WELD SHOP				
GWW- 07/20/22	F	7F	WEST WELD SHOP				
GCS- 07/20/22		8	CARPENTER'S				
GSS- 07/20/22		9	WASTEWATER				
GSS- 07/20/22	B	9B	CARPENTER/STORAGE	**NA**	REMOVED		
GSH- 07/20/22		10	SCALEHOUSE				
GB13- 07/20/22		13	WW COMPRESSOR				
GB16- 07/20/22		16	GENERATOR				
GB19- 07/20/22		19	LEPS (P.S.# 5)				
GB19- 07/20/22	B	19B	LEPS/H2O2 ROOM				
GB20- 07/20/22		20	LEPS ELEC PANALS				
GB21- 07/20/22		21	STORAGE(OLD PS 1)				
GB22- 07/20/22		22	STORAGE/N FLARE				
GB23- 07/20/22		23	LFGAS				
GB24- 07/20/22		24	NE GENERATOR BLDG				
GBWW- 07/20/22		30	WOMEN BRK RM				
GPWT- 07/20/22		PW	PRESSURE WASH RM				
GBRR- 07/20/22		RR	TRUCKWASH RR W				
GBSS- 07/20/22		SS	TRUCKWASH RR E				
GBZZ- 07/20/22		29	MANAGERS TRAILER				
GBPT- 07/20/22			CCG FASTER				
GCLS- 07/20/22			CHLORINE SHED				

APPENDIX C

Meteorological Data

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
7/1/22 0:00	9.65	350.7	18.22	15.37	29.26	0
7/1/22 0:15	10.58	352.9	16.72	15.38	29.26	0
7/1/22 0:30	10.4	351	16.22	15.41	29.26	0
7/1/22 0:45	6.89	5.201	13.99	14.46	29.26	0
7/1/22 1:00	7.305	14.18	7.999	14.1	29.26	0
7/1/22 1:15	8.15	14.95	7.831	13.85	29.26	0
7/1/22 1:30	8.6	15.62	8.47	13.95	29.26	0
7/1/22 1:45	7.887	15.46	8.12	13.98	29.26	0
7/1/22 2:00	6.312	12.38	8.91	13.62	29.26	0
7/1/22 2:15	6.587	18.27	9.19	13.56	29.26	0
7/1/22 2:30	5.768	16.96	8.93	13.34	29.26	0
7/1/22 2:45	5.136	16.49	11.98	13.19	29.26	0
7/1/22 3:00	3.399	38.75	8.9	13.14	29.26	0
7/1/22 3:15	2.379	102.3	42.06	13.25	29.26	0
7/1/22 3:30	3.352	159	10.62	13.17	29.26	0
7/1/22 3:45	3.611	153	5.932	12.86	29.26	0
7/1/22 4:00	2.734	142.1	12.01	13.13	29.26	0
7/1/22 4:15	2.485	123.1	15.02	13.25	29.26	0
7/1/22 4:30	2.084	120.1	17.31	13.05	29.27	0
7/1/22 4:45	2.856	131	14.71	13.13	29.27	0
7/1/22 5:00	2.504	110.2	10.67	12.79	29.27	0
7/1/22 5:15	2.277	104.5	14.36	13.09	29.27	0
7/1/22 5:30	3.517	126.2	11.15	13.22	29.27	0
7/1/22 5:45	3.392	128.9	7.65	13.64	29.27	0
7/1/22 6:00	3.524	131.8	8.05	13.87	29.28	0
7/1/22 6:15	4.646	128.2	6.014	14.32	29.28	0
7/1/22 6:30	4.157	129	9.01	14.61	29.28	0
7/1/22 6:45	4.568	138.6	12.87	14.66	29.28	0
7/1/22 7:00	4.419	166.4	11.32	14.69	29.28	0
7/1/22 7:15	3.354	166.2	17.32	15.11	29.28	0
7/1/22 7:30	3.843	176.2	19.41	15.59	29.29	0
7/1/22 7:45	3.931	177.7	17.3	15.83	29.28	0
7/1/22 8:00	3.636	186.8	18.9	16.17	29.28	0
7/1/22 8:15	3.213	156.5	20.96	16.58	29.28	0
7/1/22 8:30	3.396	189	43.59	17.12	29.28	0
7/1/22 8:45	3.603	203.8	40	17.07	29.28	0
7/1/22 9:00	3.009	163	68.3	17.69	29.28	0
7/1/22 9:15	3.199	188.7	36.56	17.47	29.28	0
7/1/22 9:30	3.05	212.5	55.72	18.49	29.28	0
7/1/22 9:45	3.997	214.8	36.44	18.9	29.28	0
7/1/22 10:00	3.811	286	63.58	19.76	29.27	0
7/1/22 10:15	5.869	245.8	25.36	19.21	29.27	0
7/1/22 10:30	5.547	242.2	15.7	19.6	29.27	0
7/1/22 10:45	6.101	273.9	26.59	20.08	29.27	0
7/1/22 11:00	5.849	260.6	27.9	20.11	29.27	0
7/1/22 11:15	7.722	264.9	27.88	20.49	29.27	0
7/1/22 11:30	7.326	243	19.52	20.67	29.26	0
7/1/22 11:45	8.37	235.2	20.06	20.7	29.26	0
7/1/22 12:00	7.982	255.5	16.82	21.14	29.26	0
7/1/22 12:15	6.603	240.5	22.21	20.9	29.26	0
7/1/22 12:30	8.85	225.1	22.31	21.24	29.26	0
7/1/22 12:45	8.52	241.3	22.63	21.43	29.25	0
7/1/22 13:00	9.7	235.9	19.7	21.9	29.25	0
7/1/22 13:15	8.26	247.4	31.61	21.9	29.25	0
7/1/22 13:30	8.32	234.7	19.14	21.99	29.25	0
7/1/22 13:45	9.05	248.2	20.1	22.37	29.24	0
7/1/22 14:00	10.06	226.9	15.32	22.39	29.24	0
7/1/22 14:15	7.027	258.5	30.78	22.84	29.24	0
7/1/22 14:30	7.212	280.1	24.08	22.82	29.23	0
7/1/22 14:45	6.418	259.4	24.01	22.82	29.23	0
7/1/22 15:00	8.19	242.3	20.69	23.35	29.23	0
7/1/22 15:15	8.38	245.3	17.22	23.19	29.23	0
7/1/22 15:30	8.17	256.7	29.38	23.4	29.22	0
7/1/22 15:45	9.03	261.2	19.86	23.53	29.22	0
7/1/22 16:00	7.872	279.2	20.6	23.44	29.22	0
7/1/22 16:15	6.977	270.4	26.25	23.45	29.21	0
7/1/22 16:30	9.34	265	23.18	23.16	29.21	0
7/1/22 16:45	6.815	293.4	17.2	23.34	29.21	0
7/1/22 17:00	7.894	276.3	28.64	23.34	29.2	0
7/1/22 17:15	6.768	254	17.26	23.24	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/1/22 17:30	7.462	286.4	20.14	22.92	29.2	0
7/1/22 17:45	6.232	288.6	16.71	22.89	29.19	0
7/1/22 18:00	6.946	275.6	10.57	22.42	29.19	0
7/1/22 18:15	6.151	271.3	8.85	21.84	29.19	0
7/1/22 18:30	8.41	248.1	16.06	21.38	29.19	0
7/1/22 18:45	8.65	243.2	6.001	20.87	29.19	0
7/1/22 19:00	9.03	238.8	6.113	20.5	29.19	0
7/1/22 19:15	8.69	239	6.246	20.25	29.19	0
7/1/22 19:30	9.04	238.3	6.147	20.16	29.19	0
7/1/22 19:45	8.11	236.1	6.759	19.81	29.19	0
7/1/22 20:00	6.353	241.6	5.966	19.35	29.19	0
7/1/22 20:15	6.782	251.6	7.72	19.02	29.2	0
7/1/22 20:30	6.782	263.3	7.244	18.73	29.2	0
7/1/22 20:45	7.038	261.1	6.653	18.34	29.2	0
7/1/22 21:00	5.076	284.6	35.35	17.98	29.21	0
7/1/22 21:15	3.238	4.987	19.27	17.31	29.21	0
7/1/22 21:30	5.674	6.87	11.55	16.86	29.2	0
7/1/22 21:45	8.86	5.387	16.16	16.42	29.2	0
7/1/22 22:00	9.67	6.707	12.47	16.14	29.2	0
7/1/22 22:15	10.18	5.268	14.86	15.82	29.2	0
7/1/22 22:30	11.23	358.9	16.63	15.55	29.2	0
7/1/22 22:45	10.06	0.805	18.13	15.32	29.2	0
7/1/22 23:00	9.66	3.694	16.88	15.12	29.2	0
7/1/22 23:15	7.855	5.861	13.81	14.74	29.2	0
7/1/22 23:30	7.196	14.57	9.67	14.08	29.2	0
7/1/22 23:45	5.657	15.4	11.62	13.84	29.2	0
7/2/22 0:00	4.933	16.4	14.49	13.67	29.2	0
7/2/22 0:15	4.686	23.51	9.88	13.38	29.2	0
7/2/22 0:30	5.326	19.16	10.26	13.12	29.2	0
7/2/22 0:45	4.705	19.95	11.53	13.04	29.19	0
7/2/22 1:00	7.17	13.74	9	12.94	29.19	0
7/2/22 1:15	6.399	12.8	7.917	12.66	29.19	0
7/2/22 1:30	6.005	16.08	10.23	12.48	29.19	0
7/2/22 1:45	5.742	17.92	11.95	12.33	29.19	0
7/2/22 2:00	5.383	10.57	12.85	12.33	29.19	0
7/2/22 2:15	4.809	14.73	14.87	12.44	29.19	0
7/2/22 2:30	6.279	10.19	12.41	12.39	29.19	0
7/2/22 2:45	6.047	10.02	11.75	12.28	29.19	0
7/2/22 3:00	6.104	4.725	12.75	12.3	29.19	0
7/2/22 3:15	5.373	14.5	15.6	12.22	29.19	0
7/2/22 3:30	4.945	9.77	10.4	12.15	29.19	0
7/2/22 3:45	4.07	13.61	10.53	12.11	29.19	0
7/2/22 4:00	5.237	11.82	8.32	12	29.19	0
7/2/22 4:15	3.367	19.66	7.881	11.96	29.19	0
7/2/22 4:30	2.958	19.55	8.46	11.96	29.19	0
7/2/22 4:45	2.948	17.67	7.646	11.98	29.19	0
7/2/22 5:00	3.186	14.48	12.23	11.99	29.19	0
7/2/22 5:15	2.121	28.77	8.05	12.07	29.19	0
7/2/22 5:30	2.899	11.04	6.613	12.09	29.19	0
7/2/22 5:45	2.581	13.39	7.621	12.06	29.19	0
7/2/22 6:00	2.336	11.82	8.14	11.96	29.19	0
7/2/22 6:15	2.025	349.5	14.7	11.9	29.19	0
7/2/22 6:30	2.901	2.52	13.14	11.81	29.19	0
7/2/22 6:45	2.286	347.6	17.28	11.78	29.18	0
7/2/22 7:00	1.748	358.4	28.39	12.03	29.18	0
7/2/22 7:15	2.091	23.39	9.37	11.99	29.18	0
7/2/22 7:30	2.44	22.46	12.44	11.94	29.18	0
7/2/22 7:45	2.34	23.2	13.16	12.05	29.18	0
7/2/22 8:00	2.656	29.57	7.879	12.1	29.18	0
7/2/22 8:15	3.001	14.11	7.39	12.3	29.18	0
7/2/22 8:30	2.041	24.65	12.98	12.75	29.17	0
7/2/22 8:45	1.564	13.84	23.48	13.34	29.17	0
7/2/22 9:00	0.914	38.45	70.37	13.78	29.17	0
7/2/22 9:15	1.839	164.2	46.06	13.85	29.17	0
7/2/22 9:30	2.37	194.3	42.2	14.11	29.17	0
7/2/22 9:45	0.992	132.2	36.75	14.22	29.16	0
7/2/22 10:00	3.03	258.6	51	14.5	29.16	0
7/2/22 10:15	2.3	331.5	40.79	14.68	29.16	0
7/2/22 10:30	1.869	287.7	37.36	14.73	29.15	0
7/2/22 10:45	1.635	295.1	30.44	15.16	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
7/2/22 11:00	3.051	288.3	17.79	15.24	29.15	0
7/2/22 11:15	3.165	249.6	34.12	15.52	29.15	0
7/2/22 11:30	3.315	253.3	45.03	15.58	29.15	0
7/2/22 11:45	4.613	242.8	21.87	15.81	29.15	0
7/2/22 12:00	3.691	246.6	21.48	16.1	29.14	0
7/2/22 12:15	5.212	248.2	35.21	16.24	29.14	0
7/2/22 12:30	3.655	263.7	26.37	16.44	29.14	0
7/2/22 12:45	2.984	249.6	38.12	16.65	29.13	0
7/2/22 13:00	4.095	256.9	30.78	16.64	29.13	0
7/2/22 13:15	4.531	239.6	24.54	16.63	29.13	0
7/2/22 13:30	4.744	265	13.69	16.73	29.13	0
7/2/22 13:45	5.017	229.6	26.01	16.81	29.13	0
7/2/22 14:00	5.177	237.1	26.19	16.97	29.12	0
7/2/22 14:15	4.178	240	40.62	16.94	29.12	0
7/2/22 14:30	3.715	257.7	25.07	17.09	29.11	0
7/2/22 14:45	5.603	266.4	10.54	17.06	29.11	0
7/2/22 15:00	4.626	234.4	27.01	17.25	29.11	0
7/2/22 15:15	5.678	207.9	12.4	17.3	29.11	0
7/2/22 15:30	4.608	219.8	16.26	17.5	29.1	0
7/2/22 15:45	5.869	255.5	12.96	17.62	29.1	0
7/2/22 16:00	6.089	256.9	18.56	17.6	29.09	0
7/2/22 16:15	4.831	254.9	18.91	17.62	29.09	0
7/2/22 16:30	4.269	260.1	13.11	17.41	29.09	0
7/2/22 16:45	6.052	260.7	9.47	17.19	29.09	0
7/2/22 17:00	4.865	239.7	22.43	17.29	29.08	0
7/2/22 17:15	4.021	220.9	20.82	17.27	29.08	0
7/2/22 17:30	2.676	198.2	19.99	17.31	29.08	0
7/2/22 17:45	5.115	218.1	20.58	17.22	29.09	0
7/2/22 18:00	6.019	207	8.88	16.92	29.09	0
7/2/22 18:15	4.935	209.2	9.28	16.8	29.09	0
7/2/22 18:30	3.584	218.9	12.63	16.79	29.09	0
7/2/22 18:45	2.349	185.5	21.82	16.89	29.09	0
7/2/22 19:00	1.556	165.9	27.31	16.75	29.08	0
7/2/22 19:15	2.514	117.9	10.19	16.4	29.09	0
7/2/22 19:30	2.034	139.5	12.99	16.19	29.08	0
7/2/22 19:45	2.127	109.9	49.35	16.16	29.09	0
7/2/22 20:00	1.31	36.97	14.02	16.04	29.09	0
7/2/22 20:15	2.592	85.3	9.83	15.95	29.1	0
7/2/22 20:30	3.421	104.2	7.563	15.92	29.1	0
7/2/22 20:45	4.477	109.4	6.531	15.94	29.1	0
7/2/22 21:00	4.076	112.6	9.25	15.87	29.1	0
7/2/22 21:15	3.606	115	6.24	15.78	29.1	0
7/2/22 21:30	3.913	93.9	9.2	15.72	29.11	0
7/2/22 21:45	4.801	94.5	12.32	15.55	29.11	0
7/2/22 22:00	3.886	81.1	10.45	15.06	29.1	0
7/2/22 22:15	4.052	90.2	10.56	14.61	29.11	0
7/2/22 22:30	5.717	211.6	49.07	14.37	29.11	0.01
7/2/22 22:45	7.403	232.4	7.764	13.94	29.11	0.01
7/2/22 23:00	5.204	242.3	10.69	13.57	29.11	0
7/2/22 23:15	4.776	246	10.66	13.37	29.11	0
7/2/22 23:30	1.654	211.5	18.76	13.49	29.11	0
7/2/22 23:45	2.285	223	13.83	13.71	29.11	0
7/3/22 0:00	2.993	255.3	17.96	13.63	29.1	0
7/3/22 0:15	1.784	301.6	27.47	13.47	29.1	0
7/3/22 0:30	1.729	279.6	34.05	13.23	29.1	0.01
7/3/22 0:45	1.604	266.1	22.77	12.95	29.11	0
7/3/22 1:00	1.353	309.9	26.91	12.8	29.1	0.01
7/3/22 1:15	3.913	233.2	29.85	12.78	29.1	0.01
7/3/22 1:30	4.659	214.3	9.64	12.57	29.1	0
7/3/22 1:45	4.304	208.6	8.29	12.45	29.1	0
7/3/22 2:00	5.929	205.8	7.922	12.38	29.1	0.01
7/3/22 2:15	4.926	187.9	16.6	12.33	29.1	0
7/3/22 2:30	6.477	142.3	17.39	12.09	29.1	0
7/3/22 2:45	6.103	116	10.84	11.88	29.11	0
7/3/22 3:00	7.038	130.6	8.2	11.75	29.11	0
7/3/22 3:15	6.818	131.6	6.842	11.63	29.11	0
7/3/22 3:30	6.108	130.6	8.11	11.59	29.11	0
7/3/22 3:45	5.686	118.5	10.36	11.58	29.11	0
7/3/22 4:00	6.515	128.8	6.899	11.48	29.11	0.01
7/3/22 4:15	6.425	120.6	8.79	11.48	29.11	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/3/22 4:30	6.627	116.6	9.47	11.46	29.12	0
7/3/22 4:45	7.783	122.1	8.2	11.4	29.11	0
7/3/22 5:00	6.376	144.8	15.33	11.46	29.11	0.01
7/3/22 5:15	6.511	150.1	12.98	11.41	29.11	0
7/3/22 5:30	5.317	136.7	14.35	11.4	29.12	0
7/3/22 5:45	7.296	136	12.52	11.41	29.12	0.01
7/3/22 6:00	7.908	131.2	6.613	11.29	29.12	0.01
7/3/22 6:15	7.218	133.7	6.785	11.26	29.12	0.02
7/3/22 6:30	6.694	130.3	7.4	11.26	29.12	0.01
7/3/22 6:45	7.524	132.1	7.854	11.23	29.12	0.01
7/3/22 7:00	7.032	132.5	6.681	11.28	29.12	0
7/3/22 7:15	6.625	125	5.575	11.28	29.12	0
7/3/22 7:30	5.945	129.5	7.839	11.31	29.11	0
7/3/22 7:45	6.686	125.8	7.182	11.33	29.12	0
7/3/22 8:00	7.313	123.3	7.867	11.33	29.12	0
7/3/22 8:15	6.993	115.8	9.29	11.32	29.12	0.01
7/3/22 8:30	8.38	126.6	7.522	11.33	29.12	0
7/3/22 8:45	7.723	120.7	9.58	11.29	29.13	0
7/3/22 9:00	4.317	110.7	14.25	11.34	29.12	0
7/3/22 9:15	3.188	119	11.32	11.43	29.12	0.01
7/3/22 9:30	4.112	125.3	9.64	11.5	29.12	0.01
7/3/22 9:45	5.715	127.5	6.191	11.57	29.12	0.01
7/3/22 10:00	5.718	128.3	6.915	11.67	29.12	0.02
7/3/22 10:15	7.738	127.9	6.258	11.5	29.13	0.01
7/3/22 10:30	7.667	132.3	7.378	11.45	29.13	0.02
7/3/22 10:45	7.864	127.9	6.458	11.4	29.13	0.02
7/3/22 11:00	8.11	127.1	8.31	11.53	29.13	0.03
7/3/22 11:15	8.53	130.8	7.933	11.62	29.13	0.02
7/3/22 11:30	7.514	125.1	8.78	11.73	29.14	0
7/3/22 11:45	7.766	130.3	9.08	11.67	29.14	0
7/3/22 12:00	9.43	149.8	12.48	11.74	29.14	0.02
7/3/22 12:15	9.17	157.5	7.696	11.92	29.14	0
7/3/22 12:30	7.602	152.1	9.55	12.01	29.14	0.01
7/3/22 12:45	8.5	147.3	11.99	11.92	29.15	0
7/3/22 13:00	8.01	149.1	11.16	11.9	29.15	0
7/3/22 13:15	5.76	155.5	10.46	12	29.15	0
7/3/22 13:30	5.642	137.1	13.76	11.99	29.15	0
7/3/22 13:45	6.114	147.5	13.51	11.96	29.15	0
7/3/22 14:00	4.727	154.7	13.42	11.95	29.16	0
7/3/22 14:15	4.532	121.1	7.253	11.89	29.16	0
7/3/22 14:30	4.736	131	14.47	11.93	29.15	0.01
7/3/22 14:45	4.41	115.4	12.28	11.95	29.15	0.01
7/3/22 15:00	4.198	102	14.57	12.03	29.15	0.01
7/3/22 15:15	5.381	108.3	14.4	11.88	29.15	0.01
7/3/22 15:30	5.378	97.8	12.3	11.77	29.15	0.01
7/3/22 15:45	5.652	87.1	9.94	11.8	29.15	0.01
7/3/22 16:00	6.158	90.1	8.41	11.77	29.15	0
7/3/22 16:15	5.847	84.3	10.01	11.85	29.15	0.01
7/3/22 16:30	5.721	93.6	8.02	11.91	29.14	0
7/3/22 16:45	5.24	96.1	10.02	12.04	29.14	0
7/3/22 17:00	6.029	94.7	7.592	12.14	29.14	0
7/3/22 17:15	5.119	96.6	9.19	12.4	29.14	0
7/3/22 17:30	4.18	80.5	14.38	12.57	29.14	0
7/3/22 17:45	4.752	75.9	12.16	12.5	29.14	0
7/3/22 18:00	4.089	84.6	9.94	12.62	29.14	0
7/3/22 18:15	3.178	94.3	13.14	12.68	29.14	0
7/3/22 18:30	3.45	109.4	12.95	12.67	29.14	0
7/3/22 18:45	2.412	114	11.76	12.72	29.14	0
7/3/22 19:00	2.396	87.4	16.76	12.67	29.14	0
7/3/22 19:15	1.462	46.86	10.27	12.5	29.14	0
7/3/22 19:30	1.849	72.01	16.52	12.36	29.15	0
7/3/22 19:45	2.721	100.9	6.627	12.42	29.14	0
7/3/22 20:00	2.448	146.7	30.69	12.66	29.14	0
7/3/22 20:15	1.203	134.8	13.06	12.61	29.14	0
7/3/22 20:30	0.81	75.15	19.4	12.51	29.15	0
7/3/22 20:45	0.687	63.9	3.992	12.38	29.15	0
7/3/22 21:00	0.617	69.71	0.926	12.27	29.15	0
7/3/22 21:15	1.31	82.1	11.09	12.21	29.15	0
7/3/22 21:30	1.774	73.84	8.15	12.21	29.15	0
7/3/22 21:45	1.603	64.01	20.49	12.16	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
7/3/22 22:00	3.193	112.6	5.304	12.2	29.14	0
7/3/22 22:15	2.252	123.7	7.806	12.33	29.14	0
7/3/22 22:30	2.334	150.1	8.78	12.32	29.14	0
7/3/22 22:45	2.741	113.3	19.54	12.3	29.14	0
7/3/22 23:00	1.261	103.3	26.48	12.31	29.14	0
7/3/22 23:15	4.4	235.6	10.98	12.26	29.14	0
7/3/22 23:30	3.367	209.9	12.22	12.42	29.14	0
7/3/22 23:45	1.694	134.9	25.21	12.34	29.14	0
7/4/22 0:00	1.329	174.3	24.03	12.19	29.14	0
7/4/22 0:15	1.204	129.9	39.87	12.01	29.14	0
7/4/22 0:30	0.64	78.35	4.864	11.79	29.14	0
7/4/22 0:45	1.05	101.1	19.24	11.69	29.14	0
7/4/22 1:00	0.562	92.6	20.42	11.59	29.14	0
7/4/22 1:15	1.957	133	9.88	11.51	29.14	0
7/4/22 1:30	1.352	86.8	16.04	11.47	29.14	0
7/4/22 1:45	1.986	86.8	9.26	11.35	29.14	0
7/4/22 2:00	2.945	114.9	7.897	11.12	29.14	0
7/4/22 2:15	3.052	129.4	6.814	10.99	29.14	0
7/4/22 2:30	3.189	150.9	9.36	11.12	29.14	0
7/4/22 2:45	3.486	128.2	8.16	11.18	29.14	0
7/4/22 3:00	2.729	143.7	22.72	11.26	29.14	0
7/4/22 3:15	2.209	156.2	27.78	11.33	29.14	0
7/4/22 3:30	2.28	165.5	15.28	11.31	29.15	0
7/4/22 3:45	2.369	153.2	12.56	11.31	29.15	0
7/4/22 4:00	2.241	138.9	16.86	11.25	29.15	0
7/4/22 4:15	1.367	137.9	10.09	11.24	29.15	0
7/4/22 4:30	2.696	135.3	10.08	11.13	29.15	0
7/4/22 4:45	3.771	157.1	5.39	11.15	29.15	0
7/4/22 5:00	5.085	160.9	6.24	11.16	29.15	0
7/4/22 5:15	3.556	143.8	10.69	11.23	29.15	0
7/4/22 5:30	4.398	134.9	11.66	11.16	29.15	0
7/4/22 5:45	4.255	149.1	11.86	11.27	29.16	0
7/4/22 6:00	4.28	141.9	10.75	11.31	29.16	0
7/4/22 6:15	4.227	158.5	12.7	11.41	29.16	0
7/4/22 6:30	3.947	145.7	13.61	11.44	29.16	0
7/4/22 6:45	3.872	131.4	10.57	11.61	29.16	0
7/4/22 7:00	4.693	133.1	10.42	11.76	29.17	0
7/4/22 7:15	5.718	125.9	8.09	12.08	29.17	0
7/4/22 7:30	5.606	130	12.71	12.22	29.17	0
7/4/22 7:45	6.907	132.7	9.65	12.33	29.17	0
7/4/22 8:00	6.837	126.6	8.87	12.39	29.17	0
7/4/22 8:15	5.487	125.3	12.84	12.6	29.17	0
7/4/22 8:30	4.68	129.8	23.42	13.12	29.17	0
7/4/22 8:45	4.643	151.9	21.78	13.05	29.16	0
7/4/22 9:00	3.363	159.1	22.54	13.25	29.16	0
7/4/22 9:15	2.857	148.7	16.84	13.3	29.16	0
7/4/22 9:30	3.827	176.1	25.06	13.46	29.16	0
7/4/22 9:45	4.668	163.7	14.86	13.8	29.16	0
7/4/22 10:00	4.583	188.4	18.54	13.79	29.16	0
7/4/22 10:15	1.741	247.8	31.73	13.85	29.16	0
7/4/22 10:30	2.407	208.6	32.68	14.37	29.16	0
7/4/22 10:45	1.274	221.7	25.89	14.57	29.16	0
7/4/22 11:00	2.268	141.3	24.79	14.97	29.16	0
7/4/22 11:15	2.545	199.9	58.41	15.51	29.16	0
7/4/22 11:30	3.924	219.4	35.27	15.86	29.16	0
7/4/22 11:45	4.964	230.2	43.35	16	29.16	0
7/4/22 12:00	5.35	250.2	27.29	16.13	29.16	0
7/4/22 12:15	2.249	223.6	50.67	16.86	29.16	0
7/4/22 12:30	4.743	209.7	31.94	17.24	29.16	0
7/4/22 12:45	6	253.4	21.69	16.9	29.17	0
7/4/22 13:00	2.777	335.6	58.08	17.39	29.16	0
7/4/22 13:15	3.721	320.7	56.74	17.7	29.16	0
7/4/22 13:30	4.884	235.5	42.52	17.93	29.16	0
7/4/22 13:45	6.353	247.4	26.32	18.08	29.16	0
7/4/22 14:00	6.023	265	26.51	18.49	29.16	0
7/4/22 14:15	5.706	213.4	29.27	18.54	29.16	0
7/4/22 14:30	6.368	277.5	18.1	18.58	29.16	0
7/4/22 14:45	7.642	256.8	15.55	18.89	29.16	0
7/4/22 15:00	8.19	258.1	16.09	18.59	29.16	0
7/4/22 15:15	7.417	258.2	10.67	18.39	29.16	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
7/4/22 15:30	7.229	252.5	13.09	18.02	29.16	0
7/4/22 15:45	6.534	254.5	15.99	18.6	29.16	0
7/4/22 16:00	5.214	257.3	22.42	19.01	29.16	0
7/4/22 16:15	6.579	231.7	18.79	19.14	29.16	0
7/4/22 16:30	4.224	248.2	28.18	19.13	29.16	0
7/4/22 16:45	4.101	249.6	46.23	19.33	29.15	0
7/4/22 17:00	4.548	243.1	21.76	19.48	29.15	0
7/4/22 17:15	3.713	261.5	26.38	19.61	29.15	0
7/4/22 17:30	3.136	275.1	37.08	19.39	29.15	0
7/4/22 17:45	3.121	260.5	48.29	19.6	29.15	0
7/4/22 18:00	5.282	259.1	16.66	19.14	29.15	0
7/4/22 18:15	5.321	255.6	16.69	18.94	29.15	0
7/4/22 18:30	4.758	263.9	12.8	18.88	29.15	0
7/4/22 18:45	3.671	282.5	33.38	18.47	29.15	0
7/4/22 19:00	4.352	2.728	19.61	17.46	29.15	0
7/4/22 19:15	3.334	0.642	19.71	17.26	29.16	0
7/4/22 19:30	2.653	8.13	15.21	17.11	29.16	0
7/4/22 19:45	4.558	358.4	15.7	16.49	29.16	0
7/4/22 20:00	6.013	349.9	13.63	16.29	29.16	0
7/4/22 20:15	5.322	326.3	7.598	16.3	29.16	0
7/4/22 20:30	4.365	336.7	9.27	16.08	29.16	0
7/4/22 20:45	3.602	1.931	14.3	15.65	29.16	0
7/4/22 21:00	4.425	15.61	4.766	14.85	29.16	0
7/4/22 21:15	5.089	19.92	6.002	14.6	29.17	0
7/4/22 21:30	7.172	20.81	7.521	14.68	29.16	0
7/4/22 21:45	8.06	14.99	13.2	14.26	29.16	0
7/4/22 22:00	8.84	5.11	16.84	14.38	29.16	0
7/4/22 22:15	8.33	8.3	14.11	14.28	29.16	0
7/4/22 22:30	8.22	8.77	13.82	14.15	29.16	0
7/4/22 22:45	8.03	12.53	12.25	13.93	29.16	0
7/4/22 23:00	7.453	8.88	12.01	13.54	29.16	0
7/4/22 23:15	8.27	9.04	11.6	13.34	29.16	0
7/4/22 23:30	7.174	6.294	14.05	13.02	29.16	0
7/4/22 23:45	7.003	9.94	11.05	12.93	29.16	0
7/5/22 0:00	6.476	11.66	10.39	12.75	29.16	0
7/5/22 0:15	7.386	11.29	10.98	12.63	29.16	0
7/5/22 0:30	6.893	12.2	8.5	12.39	29.16	0
7/5/22 0:45	6.37	15.52	8.28	12.11	29.16	0
7/5/22 1:00	5.703	24.74	9.95	11.93	29.16	0
7/5/22 1:15	5.953	29.27	7.461	11.79	29.16	0
7/5/22 1:30	5.852	9.71	12.33	11.71	29.16	0
7/5/22 1:45	5.37	0.503	16.37	11.66	29.16	0
7/5/22 2:00	4.176	8.31	9.99	11.54	29.15	0
7/5/22 2:15	4.608	1.422	15.21	11.28	29.15	0
7/5/22 2:30	4.425	1.931	16.53	11.18	29.15	0
7/5/22 2:45	4.615	6.153	14.11	11.01	29.15	0
7/5/22 3:00	4.104	4.874	14.65	10.95	29.15	0
7/5/22 3:15	3.88	5.944	10.88	10.87	29.15	0
7/5/22 3:30	3.811	7.121	10.46	10.74	29.15	0
7/5/22 3:45	3.151	13.19	12.1	10.67	29.15	0
7/5/22 4:00	3.509	15.57	7.264	10.72	29.15	0
7/5/22 4:15	3.253	19.04	11.05	10.34	29.15	0
7/5/22 4:30	3.969	4.706	12.05	10.34	29.16	0
7/5/22 4:45	4.337	2.087	9.87	10.39	29.16	0
7/5/22 5:00	3.261	26.64	9.27	10.63	29.16	0
7/5/22 5:15	2.665	14.23	14.39	11	29.16	0
7/5/22 5:30	2.541	5.133	9.14	11.23	29.16	0
7/5/22 5:45	2.592	0.712	14.66	11.51	29.16	0
7/5/22 6:00	2.227	3.909	12.36	11.82	29.15	0
7/5/22 6:15	2.42	11.55	4.405	12	29.15	0
7/5/22 6:30	3.047	12.51	11.66	11.1	29.15	0
7/5/22 6:45	2.58	18.04	13.34	11.32	29.15	0
7/5/22 7:00	2.588	10.97	8.89	11.39	29.15	0
7/5/22 7:15	1.463	2.379	15	12.19	29.15	0
7/5/22 7:30	1.062	20.82	22.39	13.64	29.16	0
7/5/22 7:45	0.711	284.2	28.82	14.74	29.16	0
7/5/22 8:00	1.693	19.69	54.81	15.31	29.15	0
7/5/22 8:15	1.247	292	24.11	15.8	29.15	0
7/5/22 8:30	3.356	330.5	20.64	16.03	29.15	0
7/5/22 8:45	2.487	315.2	14.9	16.27	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
7/5/22 9:00	3.536	328.4	28.46	16.75	29.14	0
7/5/22 9:15	2.134	320.2	37.11	17.24	29.14	0
7/5/22 9:30	2.499	326.3	23.9	17.97	29.13	0
7/5/22 9:45	2.135	247.7	47.26	18.37	29.13	0
7/5/22 10:00	2.204	328.1	80.6	19.12	29.13	0
7/5/22 10:15	2.247	13.09	59.7	19.64	29.13	0
7/5/22 10:30	3.821	355.2	28.93	19.86	29.12	0
7/5/22 10:45	1.334	6.902	29.85	20.5	29.12	0
7/5/22 11:00	3.947	331.4	53.92	21.27	29.12	0
7/5/22 11:15	5.726	259.2	12.45	21.03	29.12	0
7/5/22 11:30	5.147	274.9	35.14	21.77	29.11	0
7/5/22 11:45	5.157	281.8	26.13	22.01	29.11	0
7/5/22 12:00	4.562	308.6	32.7	22.49	29.11	0
7/5/22 12:15	6.514	273	19.05	22.89	29.11	0
7/5/22 12:30	6.14	250	27.22	22.68	29.1	0
7/5/22 12:45	4.883	300.8	37.55	23.98	29.1	0
7/5/22 13:00	4.777	328	42.83	23.75	29.1	0
7/5/22 13:15	5.653	287.5	23.95	23.76	29.09	0
7/5/22 13:30	6.532	281.8	25.08	24.18	29.09	0
7/5/22 13:45	8.29	279.2	35.4	24.12	29.09	0
7/5/22 14:00	9.57	265.3	13.42	23.94	29.09	0
7/5/22 14:15	10.07	247.5	10.56	23.27	29.09	0
7/5/22 14:30	10.9	245.8	7.599	22.31	29.09	0
7/5/22 14:45	10.29	256.5	7.522	22.04	29.09	0
7/5/22 15:00	9.42	249.9	8.33	21.68	29.1	0
7/5/22 15:15	8.17	257.2	9.34	21.47	29.1	0
7/5/22 15:30	7.905	257.1	8.36	21.36	29.1	0
7/5/22 15:45	8.24	264.2	7.945	21.41	29.1	0
7/5/22 16:00	7.471	279	7.815	21.8	29.1	0
7/5/22 16:15	8.01	274	11.5	21.66	29.1	0
7/5/22 16:30	6.991	276.3	11.24	21.17	29.1	0
7/5/22 16:45	6.265	282.5	6.516	21.06	29.09	0
7/5/22 17:00	5.476	296.4	10	21.49	29.09	0
7/5/22 17:15	6.188	276.7	7.739	20.95	29.08	0
7/5/22 17:30	3.421	315.7	39.22	20.7	29.09	0
7/5/22 17:45	3.912	2.167	14.93	19.93	29.09	0
7/5/22 18:00	3.66	327.3	11.81	20.15	29.09	0
7/5/22 18:15	1.176	279.5	35.48	20.2	29.1	0
7/5/22 18:30	0.794	163.9	48	19.83	29.1	0
7/5/22 18:45	7.369	246	12.78	18.51	29.1	0.01
7/5/22 19:00	6.179	305.2	26.6	17.36	29.1	0
7/5/22 19:15	2.778	4.846	24.36	16.52	29.1	0
7/5/22 19:30	2.61	347.4	9.69	16.76	29.1	0
7/5/22 19:45	2.966	42.63	21.11	16.33	29.1	0
7/5/22 20:00	2.742	17.59	61.24	16.11	29.11	0
7/5/22 20:15	3.006	253.5	16.7	16.19	29.11	0
7/5/22 20:30	2.058	169.8	35.82	16.37	29.11	0
7/5/22 20:45	2.448	171.7	9.53	16.59	29.12	0
7/5/22 21:00	3.004	41.25	21.62	15.56	29.11	0
7/5/22 21:15	5.29	66.77	10.27	15.14	29.11	0
7/5/22 21:30	3.631	119.5	37.05	15.53	29.11	0
7/5/22 21:45	5.389	210.2	5.248	15.94	29.12	0
7/5/22 22:00	3.382	274.5	55.51	15.69	29.12	0
7/5/22 22:15	2.337	18.72	22.98	14.79	29.12	0
7/5/22 22:30	1.929	49.83	16.78	15.15	29.12	0
7/5/22 22:45	1.756	123.5	27.18	15.6	29.12	0
7/5/22 23:00	1.884	20.68	15.53	15.69	29.11	0
7/5/22 23:15	2.727	155.5	39.09	15.33	29.11	0
7/5/22 23:30	3.878	167.5	8.79	15.75	29.11	0
7/5/22 23:45	3.603	144.6	12.59	15.58	29.12	0
7/6/22 0:00	1.127	48.77	35.01	14.78	29.12	0
7/6/22 0:15	2.096	41.83	7.233	14.64	29.12	0
7/6/22 0:30	2.982	64.53	16.95	15.06	29.12	0
7/6/22 0:45	3.05	85.4	3.345	15.23	29.11	0
7/6/22 1:00	3.146	81.4	5.064	15.43	29.11	0
7/6/22 1:15	3.486	74.23	6.967	15.09	29.11	0
7/6/22 1:30	3.484	85.8	17.48	15.21	29.11	0
7/6/22 1:45	4.337	186.9	21.71	15.41	29.11	0
7/6/22 2:00	4.357	162.9	19.61	15.31	29.12	0
7/6/22 2:15	2.42	162.7	56.02	15.38	29.12	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
7/6/22 2:30	0.671	338.9	2.602	14.85	29.12	0
7/6/22 2:45	0.091	306.1	0.264	14.96	29.12	0.01
7/6/22 3:00	1.832	152.8	53.73	15.28	29.12	0
7/6/22 3:15	3.158	141.4	12.06	15.53	29.11	0
7/6/22 3:30	1.973	99.7	10.5	15.24	29.12	0
7/6/22 3:45	1.609	85.4	17.91	14.73	29.11	0
7/6/22 4:00	2.047	174.9	48.38	14.92	29.11	0
7/6/22 4:15	0.686	228.2	25.76	15.17	29.11	0
7/6/22 4:30	0.916	221.5	20.11	15.27	29.11	0
7/6/22 4:45	1.664	212.8	15.47	15.33	29.11	0
7/6/22 5:00	2.605	150.9	23.31	15.33	29.12	0
7/6/22 5:15	1.753	60.51	22.88	14.87	29.12	0
7/6/22 5:30	0.052	42.93	0.008	14.91	29.12	0
7/6/22 5:45	1.579	16.57	8.3	15.5	29.12	0
7/6/22 6:00	0.769	356.6	7.065	15.53	29.12	0
7/6/22 6:15	0.778	43.37	18.71	16.98	29.12	0
7/6/22 6:30	1.04	49.02	12.33	16.77	29.12	0
7/6/22 6:45	0.974	44.2	11.29	16.04	29.12	0
7/6/22 7:00	0.421	42.97	8.43	16.44	29.12	0
7/6/22 7:15	1.134	101.4	19.5	16.76	29.12	0
7/6/22 7:30	1.689	143	22.08	17.4	29.12	0
7/6/22 7:45	2.54	186.9	23.96	17.83	29.12	0
7/6/22 8:00	3.715	174.3	12.36	17.59	29.12	0
7/6/22 8:15	4.174	185.9	22.68	17.5	29.13	0
7/6/22 8:30	4.08	218.6	9.6	17.35	29.13	0
7/6/22 8:45	3.495	216.4	9.63	17.25	29.13	0
7/6/22 9:00	4.277	222.2	17.39	17.01	29.14	0.01
7/6/22 9:15	3.867	220.6	18.95	17.15	29.14	0
7/6/22 9:30	2.246	271.9	26.03	17.33	29.13	0
7/6/22 9:45	1.772	191.3	33.41	17.42	29.14	0
7/6/22 10:00	2.819	172	16.83	17.09	29.14	0
7/6/22 10:15	2.298	134.1	26.36	16.91	29.14	0.01
7/6/22 10:30	2.329	130.1	27.99	16.98	29.14	0
7/6/22 10:45	4.406	215.8	33.81	17.12	29.14	0
7/6/22 11:00	7.38	235.1	6.436	16.74	29.14	0
7/6/22 11:15	7.218	215.9	11.86	16.95	29.15	0
7/6/22 11:30	7.016	217.9	13.29	16.67	29.15	0.01
7/6/22 11:45	6.06	228.3	8.62	16.66	29.15	0.01
7/6/22 12:00	5.726	239.9	12.01	16.65	29.15	0
7/6/22 12:15	6.337	253.6	9.98	16.35	29.15	0
7/6/22 12:30	6.279	227.5	12.92	16.35	29.15	0
7/6/22 12:45	5.44	204.3	15.39	16.56	29.15	0
7/6/22 13:00	5.854	188.9	10.49	16.59	29.15	0
7/6/22 13:15	3.992	171.3	14.72	16.74	29.15	0
7/6/22 13:30	2.652	157.1	17.45	17.02	29.15	0.01
7/6/22 13:45	3.269	131.4	20.06	17.27	29.15	0.01
7/6/22 14:00	2.949	108.7	18.06	17.59	29.15	0
7/6/22 14:15	4.754	104.3	17.45	18.27	29.15	0
7/6/22 14:30	5.515	61.19	13.5	18.07	29.15	0
7/6/22 14:45	4.9	74.3	30.09	18.38	29.14	0
7/6/22 15:00	4.681	76.67	19.39	18.92	29.14	0
7/6/22 15:15	4.269	90.1	38.71	19.95	29.14	0
7/6/22 15:30	3.006	107.8	42.84	20.16	29.14	0
7/6/22 15:45	3.802	179.3	76.54	20.28	29.14	0
7/6/22 16:00	3.545	154.4	59.97	20.58	29.14	0
7/6/22 16:15	3.663	72.82	20.53	20.35	29.13	0
7/6/22 16:30	2.104	55.16	12.2	20.11	29.13	0
7/6/22 16:45	1.284	51.12	19.86	20.25	29.13	0
7/6/22 17:00	1.94	80.5	21.53	20.21	29.13	0
7/6/22 17:15	1.815	105.8	4.139	20.25	29.13	0
7/6/22 17:30	1.726	68.94	16.67	20.24	29.13	0
7/6/22 17:45	1.671	39.01	14.27	20.04	29.13	0
7/6/22 18:00	1.559	30.84	11.71	19.96	29.13	0
7/6/22 18:15	1.453	19.53	0.222	19.78	29.13	0
7/6/22 18:30	1.888	348.3	18.92	19.8	29.13	0
7/6/22 18:45	4.179	295.6	8.37	19.49	29.13	0
7/6/22 19:00	4.97	270.9	15.75	19.4	29.13	0
7/6/22 19:15	9.72	251.7	7.486	18.07	29.14	0
7/6/22 19:30	7.711	273.7	10.26	17.64	29.14	0
7/6/22 19:45	5.912	276.2	6.115	17.37	29.14	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
7/6/22 20:00	2.702	327	37.83	17.52	29.15	0
7/6/22 20:15	2.871	309.5	8.15	17.31	29.15	0
7/6/22 20:30	2.737	317.2	4.383	17.54	29.15	0
7/6/22 20:45	4.358	271.5	21.98	17.72	29.15	0
7/6/22 21:00	6.007	228.2	14.8	17.48	29.16	0.01
7/6/22 21:15	5.606	206.7	11.31	17.17	29.16	0
7/6/22 21:30	5.293	198.8	11.58	16.8	29.16	0
7/6/22 21:45	5.513	202.1	20.05	16.5	29.16	0
7/6/22 22:00	6.18	208.7	11.33	16.27	29.16	0
7/6/22 22:15	5.308	190.5	8.21	16.17	29.17	0
7/6/22 22:30	4.902	166.6	12.84	15.97	29.17	0
7/6/22 22:45	5.163	173	8.77	15.82	29.17	0
7/6/22 23:00	2.963	127.1	14.21	15.52	29.17	0
7/6/22 23:15	3.804	97.7	11.36	15.38	29.17	0.01
7/6/22 23:30	3.916	93.2	19.75	15.27	29.17	0
7/6/22 23:45	3.288	78.8	11.47	15.04	29.17	0
7/7/22 0:00	2.281	114.8	9.29	14.89	29.17	0
7/7/22 0:15	3.564	109.5	5.568	14.79	29.17	0
7/7/22 0:30	2.891	130.5	18.11	14.9	29.17	0
7/7/22 0:45	2.529	150.5	8.71	14.98	29.17	0
7/7/22 1:00	1.908	131.2	10.96	14.98	29.17	0
7/7/22 1:15	1.486	132	20.42	15.1	29.18	0
7/7/22 1:30	1.42	131.8	14.4	15.13	29.18	0
7/7/22 1:45	4.119	160.7	7.851	15.31	29.18	0
7/7/22 2:00	3.624	174.4	8.72	15.33	29.18	0
7/7/22 2:15	2.893	150.5	12.15	15.23	29.18	0
7/7/22 2:30	3.79	128.3	9.2	15.09	29.18	0
7/7/22 2:45	6.198	134.8	4.625	14.88	29.18	0
7/7/22 3:00	4.925	132.5	5.334	14.78	29.19	0
7/7/22 3:15	3.789	122.6	5.55	14.71	29.19	0
7/7/22 3:30	3.007	121.8	5.084	14.67	29.19	0
7/7/22 3:45	2.508	124.3	7.204	14.64	29.19	0
7/7/22 4:00	2.644	115.4	6.816	14.69	29.19	0
7/7/22 4:15	3.557	125.8	5.252	14.7	29.19	0
7/7/22 4:30	3.051	139.1	10.6	14.72	29.19	0
7/7/22 4:45	3.668	131.7	6.405	14.72	29.2	0
7/7/22 5:00	4.781	137.2	6.673	14.72	29.2	0.01
7/7/22 5:15	4.675	141.3	7.983	14.76	29.2	0
7/7/22 5:30	5.937	162.8	6.251	14.87	29.2	0
7/7/22 5:45	6.16	165.2	5.602	14.92	29.21	0
7/7/22 6:00	5.107	165.9	7.523	14.9	29.21	0
7/7/22 6:15	3.985	170.7	8.7	15	29.21	0
7/7/22 6:30	4.046	151.1	9.51	14.93	29.21	0
7/7/22 6:45	3.93	138.5	9.69	15.23	29.21	0
7/7/22 7:00	4.777	129	6.124	15.44	29.22	0
7/7/22 7:15	5.242	149.8	20.67	15.75	29.22	0
7/7/22 7:30	5.311	178.9	12.26	15.64	29.23	0
7/7/22 7:45	4.422	162.7	18.12	15.86	29.23	0
7/7/22 8:00	4.449	159.2	13.88	16.15	29.23	0
7/7/22 8:15	3.505	124.5	21.59	16.49	29.23	0
7/7/22 8:30	3.46	124.9	20.61	16.7	29.23	0
7/7/22 8:45	4.076	140.8	22.3	16.8	29.23	0
7/7/22 9:00	3.36	186.7	17.78	16.85	29.23	0
7/7/22 9:15	3.416	171	20.94	16.96	29.24	0
7/7/22 9:30	4.471	147.3	43.18	17.79	29.24	0
7/7/22 9:45	3.733	144.1	50.91	18.63	29.24	0
7/7/22 10:00	4.383	180.6	28.86	18.04	29.24	0
7/7/22 10:15	3.463	187.8	26.25	18.35	29.24	0
7/7/22 10:30	5.202	178.4	16.88	18.07	29.24	0
7/7/22 10:45	4.403	189.6	33.91	19.32	29.24	0
7/7/22 11:00	5.527	214.5	35.68	20.03	29.24	0
7/7/22 11:15	3.743	238.8	24.08	20.06	29.24	0
7/7/22 11:30	4.005	187.4	33.84	20.12	29.24	0
7/7/22 11:45	2.844	134.6	73.29	20.09	29.24	0
7/7/22 12:00	3.987	243.5	48.23	20.39	29.24	0
7/7/22 12:15	3.223	226.4	43.76	20.87	29.24	0
7/7/22 12:30	2.457	307.7	86.1	21.75	29.23	0
7/7/22 12:45	5.416	236.1	22.43	21.44	29.23	0
7/7/22 13:00	3.677	248	36.34	21.93	29.23	0
7/7/22 13:15	4.082	273.5	33.76	22.14	29.23	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
7/7/22 13:30	2.895	284.5	34.06	22.36	29.23	0
7/7/22 13:45	3.265	23.72	62.88	22.13	29.23	0
7/7/22 14:00	5.502	208.8	43.41	22.68	29.23	0
7/7/22 14:15	4.937	236.5	26.57	22.56	29.23	0
7/7/22 14:30	3.968	220.5	24.13	22.58	29.23	0
7/7/22 14:45	2.421	194.8	32.82	22.6	29.23	0
7/7/22 15:00	3.108	123.6	48.68	22.72	29.23	0
7/7/22 15:15	4.193	203.2	24.82	23.06	29.23	0
7/7/22 15:30	2.83	261.1	79.42	23.37	29.22	0
7/7/22 15:45	6.303	252.7	24.4	23.7	29.22	0
7/7/22 16:00	5.263	205.4	20.05	23.09	29.22	0
7/7/22 16:15	7.649	231.2	11.35	22.33	29.22	0
7/7/22 16:30	5.978	247.5	25.41	23.03	29.21	0
7/7/22 16:45	9.54	253.8	13.24	23.13	29.21	0
7/7/22 17:00	8.86	252.6	11.9	23.21	29.21	0
7/7/22 17:15	8.62	261.1	14.46	23.07	29.21	0
7/7/22 17:30	8.61	256.2	14.28	22.69	29.21	0
7/7/22 17:45	7.814	268.6	12.88	22.42	29.21	0
7/7/22 18:00	6.801	268.2	19.92	22.59	29.21	0
7/7/22 18:15	7.94	247.4	16.26	22.5	29.21	0
7/7/22 18:30	7.893	247.3	8.74	21.93	29.22	0
7/7/22 18:45	7.385	252.4	12.26	22.18	29.22	0
7/7/22 19:00	6.967	244.7	10.97	21.9	29.22	0
7/7/22 19:15	6.896	232.6	12.33	21.61	29.23	0
7/7/22 19:30	10	219.2	11.7	19.29	29.23	0
7/7/22 19:45	4.689	205.8	16.47	18.27	29.24	0
7/7/22 20:00	2.395	265.6	76.1	18.26	29.24	0
7/7/22 20:15	2.986	54.21	8.15	17.41	29.24	0
7/7/22 20:30	1.847	60.92	0.936	17.79	29.25	0
7/7/22 20:45	2.244	160.3	49.73	17.99	29.25	0
7/7/22 21:00	2.204	196.7	16.72	17.5	29.26	0
7/7/22 21:15	2.58	151.3	13.51	17.51	29.26	0
7/7/22 21:30	1.391	95	9.05	17.06	29.26	0
7/7/22 21:45	2.405	75.7	6.219	17.11	29.26	0
7/7/22 22:00	2.681	79.25	13.25	17.01	29.26	0
7/7/22 22:15	0.7	50.24	19.51	17.04	29.26	0
7/7/22 22:30	1.142	99.9	77.66	16.67	29.27	0
7/7/22 22:45	3.118	206.8	12	16.59	29.27	0
7/7/22 23:00	3.659	235.1	10.6	16.36	29.27	0
7/7/22 23:15	3.405	245.5	4.976	16.27	29.27	0
7/7/22 23:30	1.828	240.7	51.03	16.09	29.27	0
7/7/22 23:45	2.845	191.6	7.959	16.12	29.27	0
7/8/22 0:00	2.975	164.7	13.15	15.96	29.27	0
7/8/22 0:15	2.508	143.9	12.97	15.64	29.27	0
7/8/22 0:30	2.03	131.3	14.78	15.6	29.27	0
7/8/22 0:45	3.813	148.1	7.372	15.5	29.27	0
7/8/22 1:00	5.022	173.2	7.694	15.57	29.27	0
7/8/22 1:15	3.318	157.3	11.42	15.6	29.28	0
7/8/22 1:30	4.041	158.1	4.62	15.38	29.27	0
7/8/22 1:45	2.777	159.4	5.746	15.32	29.27	0
7/8/22 2:00	1.904	134	12.03	15.24	29.28	0
7/8/22 2:15	1.786	167	18.12	15.32	29.28	0
7/8/22 2:30	1.628	138.4	16.71	15.26	29.28	0
7/8/22 2:45	2.628	170.6	16.47	15.29	29.28	0
7/8/22 3:00	2.293	140.1	13.58	15.16	29.28	0
7/8/22 3:15	2.995	119.1	4.41	14.74	29.27	0
7/8/22 3:30	1.957	128.1	9.26	14.84	29.27	0
7/8/22 3:45	2.778	192.9	10.71	14.94	29.28	0
7/8/22 4:00	2.883	204.6	4.386	14.73	29.28	0
7/8/22 4:15	2.964	202.5	3.212	14.69	29.29	0
7/8/22 4:30	1.155	265.9	50.18	14.73	29.29	0
7/8/22 4:45	1.315	9.2	13.78	14.31	29.29	0
7/8/22 5:00	1.377	64.69	8.68	14.15	29.29	0
7/8/22 5:15	1.113	52.25	4.804	14.4	29.29	0
7/8/22 5:30	0.434	48.86	3.245	14.77	29.29	0
7/8/22 5:45	2.477	261.8	10.49	15.15	29.3	0
7/8/22 6:00	2.686	293.4	23.97	15.26	29.3	0
7/8/22 6:15	2.92	299.2	11.21	15.08	29.3	0
7/8/22 6:30	3.452	275	9.87	15.22	29.3	0
7/8/22 6:45	2.678	265.9	15.36	15.35	29.3	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
7/8/22 7:00	2.975	224.3	10.67	15.45	29.3	0
7/8/22 7:15	1.346	274.9	26.29	15.47	29.3	0
7/8/22 7:30	0.497	2.698	5.171	15.86	29.3	0
7/8/22 7:45	0.731	109.5	56.33	16.24	29.31	0
7/8/22 8:00	2.644	179.4	16.92	16.13	29.31	0
7/8/22 8:15	2.322	185.4	26.08	16.08	29.31	0
7/8/22 8:30	3.13	170.3	17.49	16.62	29.31	0
7/8/22 8:45	3.298	198.3	16.48	17.24	29.31	0
7/8/22 9:00	5.26	172.7	17.44	17.24	29.31	0
7/8/22 9:15	5.27	181.7	15.25	17.13	29.31	0
7/8/22 9:30	3.909	167.6	18.98	17.23	29.31	0
7/8/22 9:45	3.768	162.9	31.98	18.18	29.31	0
7/8/22 10:00	4.384	210.2	16.95	17.88	29.31	0
7/8/22 10:15	4.385	191.5	28.51	18.09	29.31	0
7/8/22 10:30	5.261	190.2	22.48	18.59	29.31	0
7/8/22 10:45	6.158	212.4	16.21	19.25	29.31	0
7/8/22 11:00	4.175	219.3	21.18	19.68	29.31	0
7/8/22 11:15	5.488	224.8	14.96	19.03	29.31	0
7/8/22 11:30	6.211	198.8	23.33	19.6	29.31	0
7/8/22 11:45	5.573	178.6	25.75	19.96	29.31	0
7/8/22 12:00	6.078	203	18.8	20.24	29.31	0
7/8/22 12:15	5.438	207.9	23.12	20.3	29.31	0
7/8/22 12:30	5.442	195.1	17.38	20.78	29.31	0
7/8/22 12:45	6.213	193.2	29.69	20.35	29.31	0
7/8/22 13:00	6.541	239	24.64	20.41	29.31	0
7/8/22 13:15	3.558	283.5	21.02	20.86	29.31	0
7/8/22 13:30	5.149	281.3	30.66	21.21	29.31	0
7/8/22 13:45	4.51	276.6	21.74	21.35	29.31	0
7/8/22 14:00	3.131	326	47.94	21.51	29.31	0
7/8/22 14:15	3.011	232.9	81.7	21.69	29.31	0
7/8/22 14:30	4.629	326.2	69.32	22.4	29.31	0
7/8/22 14:45	2.77	357.9	30.04	22.22	29.31	0
7/8/22 15:00	2.329	308.4	82.4	21.99	29.31	0
7/8/22 15:15	5.091	235.9	51.53	22.96	29.31	0
7/8/22 15:30	7.36	265.1	15.79	22.61	29.31	0
7/8/22 15:45	5.166	280	26.23	22.93	29.31	0
7/8/22 16:00	5.019	238.2	45.53	23.39	29.31	0
7/8/22 16:15	1.837	241.8	50.54	23.68	29.3	0
7/8/22 16:30	5.82	250.8	28.69	23.1	29.3	0
7/8/22 16:45	4.339	270.7	19.84	23.37	29.29	0
7/8/22 17:00	6.595	226	46.2	22.98	29.29	0
7/8/22 17:15	6.393	226.9	35.85	22.88	29.29	0
7/8/22 17:30	4.958	263.8	25.07	23.02	29.29	0
7/8/22 17:45	4.883	268.8	24.94	23.14	29.29	0
7/8/22 18:00	7.304	228.8	14.57	22.84	29.29	0
7/8/22 18:15	5.674	238.5	22.04	22.77	29.29	0
7/8/22 18:30	6.263	257.8	18.06	22.46	29.29	0
7/8/22 18:45	6.834	238.1	17.12	22.16	29.29	0
7/8/22 19:00	6.077	234	7.631	21.63	29.29	0
7/8/22 19:15	5.885	244.5	8.74	21.28	29.29	0
7/8/22 19:30	6.812	263.4	14.51	20.99	29.3	0
7/8/22 19:45	6.182	294.5	6.06	20.51	29.3	0
7/8/22 20:00	5.975	298.5	4.574	20.03	29.3	0
7/8/22 20:15	6.528	292.4	2.801	19.37	29.3	0
7/8/22 20:30	4.36	338.5	37.5	19.04	29.3	0
7/8/22 20:45	3.507	331.8	20.77	18.73	29.31	0
7/8/22 21:00	3.943	355.8	22.73	18.28	29.31	0
7/8/22 21:15	6.525	355.2	16.87	17.77	29.31	0
7/8/22 21:30	8.93	356	16.6	17.73	29.31	0
7/8/22 21:45	10.09	359.4	18.09	17.29	29.31	0
7/8/22 22:00	9.35	354.9	17.24	17.27	29.31	0
7/8/22 22:15	9.22	352.8	17	16.88	29.32	0
7/8/22 22:30	9.3	359.6	17.89	16.8	29.32	0
7/8/22 22:45	9.28	1.023	15.74	16.45	29.32	0
7/8/22 23:00	10.3	358	16.67	16.16	29.32	0
7/8/22 23:15	10.47	3.995	16.17	16	29.32	0
7/8/22 23:30	9.21	0.733	18.5	15.78	29.32	0
7/8/22 23:45	9.61	0.931	18.1	15.58	29.32	0
7/9/22 0:00	9.77	2.774	17.05	15.4	29.32	0
7/9/22 0:15	10.2	8.77	14.2	15.36	29.32	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
7/9/22 0:30	10.81	6.185	14.24	15.03	29.31	0
7/9/22 0:45	9.07	8.4	14.96	14.82	29.31	0
7/9/22 1:00	9.92	0.094	16.52	14.74	29.31	0
7/9/22 1:15	8.64	8.26	12.6	14.39	29.31	0
7/9/22 1:30	7.736	16.82	9.1	14.22	29.31	0
7/9/22 1:45	6.505	18.61	7.638	14.26	29.31	0
7/9/22 2:00	5.279	15.7	9.52	14.13	29.31	0
7/9/22 2:15	5.179	11.52	10.45	14	29.32	0
7/9/22 2:30	4	25.05	12.35	13.98	29.32	0
7/9/22 2:45	5.004	23.01	9.86	13.63	29.32	0
7/9/22 3:00	5.363	15.31	6.633	13.33	29.31	0
7/9/22 3:15	4.579	22.6	6.883	13.15	29.31	0
7/9/22 3:30	3.903	27.4	7.744	13.33	29.32	0
7/9/22 3:45	4.334	36.41	8.29	13.36	29.32	0
7/9/22 4:00	4.998	38.05	9.78	13.25	29.32	0
7/9/22 4:15	3.855	78.44	13.67	13.06	29.32	0
7/9/22 4:30	2.717	95	9.16	13.77	29.32	0
7/9/22 4:45	2.473	106.2	8.88	13.59	29.32	0
7/9/22 5:00	1.468	115.9	2.617	13.51	29.33	0
7/9/22 5:15	1.591	36.71	24.57	13.59	29.33	0
7/9/22 5:30	1.567	14.92	1.952	14.29	29.33	0
7/9/22 5:45	1.043	14.74	0.903	14.74	29.33	0
7/9/22 6:00	0.026	39.13	0.174	15.62	29.33	0
7/9/22 6:15	0.88	98.3	44.44	16.02	29.33	0
7/9/22 6:30	2.734	123.6	14.16	15.72	29.33	0
7/9/22 6:45	2.897	116.3	15.56	15.43	29.33	0
7/9/22 7:00	2.041	151.4	21.53	15.67	29.34	0
7/9/22 7:15	1.772	206.3	25.58	15.93	29.34	0
7/9/22 7:30	1.495	178.9	24.69	16.7	29.35	0
7/9/22 7:45	2.106	207.7	14.35	16.66	29.35	0
7/9/22 8:00	2.439	171.8	42.99	16.93	29.35	0
7/9/22 8:15	1.779	274.8	52.9	17.38	29.35	0
7/9/22 8:30	2.367	256.6	29.89	17.74	29.36	0
7/9/22 8:45	1.984	193.1	47.9	17.54	29.36	0
7/9/22 9:00	2.387	212.1	52.57	17.85	29.36	0
7/9/22 9:15	1.89	116.5	80.5	18.08	29.36	0
7/9/22 9:30	3.164	62.11	43.59	18.32	29.35	0
7/9/22 9:45	4.365	146.2	25.7	18.54	29.36	0
7/9/22 10:00	4.363	156.7	37.1	18.91	29.36	0
7/9/22 10:15	4.172	156.9	26.79	18.56	29.35	0
7/9/22 10:30	3.43	201.1	34.96	18.6	29.36	0
7/9/22 10:45	6.182	197.7	26.63	19.03	29.36	0
7/9/22 11:00	5.22	206.8	13.8	18.9	29.36	0
7/9/22 11:15	3.579	222.2	45.36	19.28	29.36	0
7/9/22 11:30	3.679	222	19.87	19.58	29.36	0
7/9/22 11:45	5.926	220.7	18.68	20.47	29.36	0
7/9/22 12:00	4.211	188.6	38.07	20.36	29.36	0
7/9/22 12:15	2.919	242.6	46.9	20.9	29.36	0
7/9/22 12:30	4.826	206.1	26.86	21.14	29.36	0
7/9/22 12:45	5.683	223.9	18.67	20.94	29.36	0
7/9/22 13:00	5.8	224.7	16.15	20.94	29.36	0
7/9/22 13:15	5.007	248.7	27.62	21.62	29.36	0
7/9/22 13:30	2.579	242.2	40.28	21.12	29.36	0
7/9/22 13:45	4.31	240	23.99	21.25	29.36	0
7/9/22 14:00	5.569	255.2	20.92	21.27	29.36	0
7/9/22 14:15	7.902	246	15.8	21.74	29.36	0
7/9/22 14:30	6.24	224.2	40.69	22.46	29.36	0
7/9/22 14:45	6.028	235.8	28.2	22.64	29.36	0
7/9/22 15:00	7.108	192.4	18.61	22.55	29.36	0
7/9/22 15:15	6.864	199.3	27.81	22.46	29.36	0
7/9/22 15:30	8.25	194.2	16.92	22.65	29.36	0
7/9/22 15:45	5.814	184.6	24.12	22.55	29.36	0
7/9/22 16:00	7.009	218.8	14.12	22.83	29.36	0
7/9/22 16:15	7.808	200.6	19.62	22.92	29.37	0
7/9/22 16:30	9.06	219.4	26.68	22.96	29.37	0
7/9/22 16:45	9.57	222.8	14.66	22.99	29.37	0
7/9/22 17:00	10.27	204.2	17.19	22.92	29.37	0
7/9/22 17:15	8.29	215.3	13.5	22.99	29.37	0
7/9/22 17:30	6.283	214	28.3	22.79	29.37	0
7/9/22 17:45	8.16	216.6	13.13	22.63	29.37	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
7/9/22 18:00	8.88	224.9	10.56	22.12	29.37	0
7/9/22 18:15	7.749	230.2	11.92	21.86	29.37	0
7/9/22 18:30	7.339	247	8.56	21.77	29.38	0
7/9/22 18:45	7.261	237.8	10.17	21.12	29.38	0
7/9/22 19:00	8.73	244	10.27	20.84	29.38	0
7/9/22 19:15	6.161	241.2	7.201	20.39	29.38	0
7/9/22 19:30	5.193	242.7	7.049	19.95	29.38	0
7/9/22 19:45	5.452	246.4	6.554	19.64	29.38	0
7/9/22 20:00	6.123	259.3	8.45	19.39	29.39	0
7/9/22 20:15	4.507	271.3	11.11	19	29.39	0
7/9/22 20:30	3.651	263.8	13.58	18.66	29.4	0
7/9/22 20:45	2.877	336.2	53.84	17.97	29.4	0
7/9/22 21:00	2.722	14.99	14.8	17.4	29.41	0
7/9/22 21:15	1.177	9.23	35.19	16.99	29.41	0
7/9/22 21:30	3.942	1.428	18.34	16.69	29.42	0
7/9/22 21:45	3.35	33.5	11.06	16.8	29.42	0
7/9/22 22:00	2.222	39.27	57.99	16.25	29.43	0
7/9/22 22:15	3.417	166	30.63	16.35	29.43	0
7/9/22 22:30	5.58	192.9	12.15	16.22	29.44	0
7/9/22 22:45	7.905	208.3	7.278	15.87	29.44	0
7/9/22 23:00	7.445	215.6	6.164	15.75	29.45	0
7/9/22 23:15	6.53	213.3	8.08	15.66	29.45	0
7/9/22 23:30	5.37	216.5	9.19	15.33	29.45	0
7/9/22 23:45	2.413	212	9.93	15.21	29.45	0
7/10/22 0:00	0.86	194.6	64.18	15.06	29.45	0
7/10/22 0:15	1.836	63.93	24.64	14.73	29.45	0
7/10/22 0:30	2.872	94.6	12.31	14.39	29.45	0
7/10/22 0:45	1.737	149.7	25.95	14.48	29.46	0
7/10/22 1:00	2.191	144.7	7.78	14.67	29.46	0
7/10/22 1:15	3.739	165.1	9.07	14.59	29.46	0
7/10/22 1:30	4.644	141.7	13.48	14.04	29.46	0
7/10/22 1:45	4.518	127.8	7.182	13.64	29.47	0
7/10/22 2:00	5.103	120.8	6.327	13.84	29.47	0
7/10/22 2:15	4.282	124.5	10.1	13.87	29.47	0
7/10/22 2:30	4.522	116.2	8.45	13.9	29.47	0
7/10/22 2:45	4.304	106.7	7.622	13.9	29.47	0
7/10/22 3:00	4.675	110	9.11	13.93	29.47	0
7/10/22 3:15	4.869	117.2	7.868	13.91	29.47	0
7/10/22 3:30	5.526	121	6.917	13.83	29.48	0
7/10/22 3:45	4.983	127.7	10.27	13.35	29.48	0
7/10/22 4:00	5.334	135.3	8.19	13	29.48	0
7/10/22 4:15	5.333	128.6	5.656	13.14	29.48	0
7/10/22 4:30	6.091	132.3	10.72	13.38	29.49	0
7/10/22 4:45	6.643	148.2	14.71	13.52	29.49	0
7/10/22 5:00	6.283	156.8	8.24	13.55	29.5	0
7/10/22 5:15	5.058	121	12.47	13.42	29.5	0
7/10/22 5:30	5.042	118.2	9.21	13.47	29.5	0
7/10/22 5:45	5.093	117	9.08	13.52	29.5	0
7/10/22 6:00	6.527	131.1	9.24	13.54	29.5	0
7/10/22 6:15	6.696	128.7	8.32	13.75	29.5	0
7/10/22 6:30	7.124	129.6	9.62	13.89	29.51	0
7/10/22 6:45	7.861	133.6	9.36	14.08	29.51	0
7/10/22 7:00	8.2	141.7	10.25	14.3	29.51	0
7/10/22 7:15	6.5	136.7	10.65	14.47	29.52	0
7/10/22 7:30	5.653	142.6	18.1	14.93	29.52	0
7/10/22 7:45	6.453	165.3	10.76	15.01	29.52	0
7/10/22 8:00	7.665	169.9	6.913	15.07	29.52	0
7/10/22 8:15	6.447	171.7	14.81	15.32	29.52	0
7/10/22 8:30	6.085	166	16.64	15.57	29.52	0
7/10/22 8:45	5.194	160	21.67	15.74	29.52	0
7/10/22 9:00	6.422	169.9	15.5	15.9	29.52	0
7/10/22 9:15	6.554	173.9	14.61	16.06	29.52	0
7/10/22 9:30	5.523	153.4	21.24	16.29	29.52	0
7/10/22 9:45	4.166	157.8	35.99	16.77	29.52	0
7/10/22 10:00	3.712	233.3	42.8	16.89	29.52	0
7/10/22 10:15	3.365	190.7	53.68	16.98	29.53	0
7/10/22 10:30	3.4	160.4	29.26	17.48	29.53	0
7/10/22 10:45	3.456	165.8	45.9	18.46	29.53	0
7/10/22 11:00	4.662	200.9	36.33	17.83	29.53	0
7/10/22 11:15	5.24	206.2	14.35	17.86	29.53	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
7/10/22 11:30	3.931	183.9	36.75	19.12	29.52	0
7/10/22 11:45	4.982	225.9	38.29	19.43	29.53	0
7/10/22 12:00	5.019	181.8	29.72	20.1	29.53	0
7/10/22 12:15	4.921	231.1	30.69	19.71	29.53	0
7/10/22 12:30	3.096	224.1	30.62	19.25	29.53	0
7/10/22 12:45	7.347	254.7	16.82	19.75	29.53	0
7/10/22 13:00	8.09	244.5	16.45	20.06	29.53	0
7/10/22 13:15	7.075	237.3	20.58	20.19	29.53	0
7/10/22 13:30	7.03	233.2	24.18	20.17	29.53	0
7/10/22 13:45	6.999	219.7	16.29	20.85	29.53	0
7/10/22 14:00	5.553	177.6	33.61	21.13	29.53	0
7/10/22 14:15	3.663	153.8	68.86	21.17	29.53	0
7/10/22 14:30	6.973	164.2	13.29	21.07	29.52	0
7/10/22 14:45	3.695	111.5	37.38	20.65	29.52	0
7/10/22 15:00	4.901	173.1	59.02	21.73	29.52	0
7/10/22 15:15	6.236	193.5	40.49	22.41	29.51	0
7/10/22 15:30	5.225	156.9	21.47	24.31	29.52	0
7/10/22 15:45	2.938	192.1	75.57	25.18	29.51	0
7/10/22 16:00	3.644	267.7	31.93	24.09	29.51	0
7/10/22 16:15	4.865	248.6	17.53	23.97	29.51	0
7/10/22 16:30	1.768	231.2	35.45	24.47	29.5	0
7/10/22 16:45	4.674	207.2	29.71	24.33	29.5	0
7/10/22 17:00	4.153	268.9	26.1	25.11	29.5	0
7/10/22 17:15	5.568	272.1	16.61	26.12	29.5	0
7/10/22 17:30	5.886	254.6	17.63	24.96	29.5	0
7/10/22 17:45	5.489	244.9	27.44	24.35	29.5	0
7/10/22 18:00	5.288	241.3	18.95	24.17	29.49	0
7/10/22 18:15	5.817	262.2	33.34	23.79	29.49	0
7/10/22 18:30	5.629	297.8	13.73	24.37	29.49	0
7/10/22 18:45	6.274	290.1	10.5	23.44	29.49	0
7/10/22 19:00	6.162	291.4	10.27	23.25	29.49	0
7/10/22 19:15	7.991	279.9	6.592	22.06	29.49	0
7/10/22 19:30	7.915	290.9	5.538	21.2	29.49	0
7/10/22 19:45	5.631	296.8	4.84	20.49	29.49	0
7/10/22 20:00	6.406	292.5	6.027	19.69	29.49	0
7/10/22 20:15	7.169	300.2	6.916	19.09	29.49	0
7/10/22 20:30	7.334	295.7	5.783	18.64	29.49	0
7/10/22 20:45	5.599	298.3	11.14	18.46	29.49	0
7/10/22 21:00	3.747	301.8	20.8	18.21	29.49	0
7/10/22 21:15	3.061	0.473	26.96	18.14	29.49	0
7/10/22 21:30	4.586	14.38	19.93	17.6	29.49	0
7/10/22 21:45	6.061	8.73	15.05	17.03	29.49	0
7/10/22 22:00	4.849	358.9	20.05	16.9	29.49	0
7/10/22 22:15	5.329	5.567	16.72	16.7	29.49	0
7/10/22 22:30	6.187	5.498	19.15	16.68	29.49	0
7/10/22 22:45	7.386	5.556	16.33	16.7	29.48	0
7/10/22 23:00	6.967	5.697	14.71	16.65	29.48	0
7/10/22 23:15	6.433	10	12.97	16.31	29.48	0
7/10/22 23:30	7.066	16.68	7.983	15.86	29.48	0
7/10/22 23:45	6.086	11.76	11.02	15.64	29.48	0
7/11/22 0:00	4.882	12.94	16.25	15.45	29.47	0
7/11/22 0:15	6.308	21.18	11.34	15.27	29.47	0
7/11/22 0:30	7.325	13.05	12.18	15.39	29.47	0
7/11/22 0:45	8.77	359.4	17.3	15.66	29.46	0
7/11/22 1:00	7.315	9.29	12.42	15.45	29.46	0
7/11/22 1:15	8.44	9.46	12.38	15.12	29.46	0
7/11/22 1:30	9.71	10.23	13.23	14.84	29.45	0
7/11/22 1:45	9.18	5.446	15.84	14.55	29.45	0
7/11/22 2:00	8.17	356.2	16.92	14.25	29.45	0
7/11/22 2:15	7.968	10.31	12.25	14.13	29.45	0
7/11/22 2:30	6.339	15.72	14.17	13.95	29.45	0
7/11/22 2:45	2.088	348	26.13	13.57	29.46	0
7/11/22 3:00	4.063	3.027	19.07	13.23	29.46	0
7/11/22 3:15	6.496	21.99	9.2	13.14	29.45	0
7/11/22 3:30	6.387	25.41	7.03	13.2	29.45	0
7/11/22 3:45	6.527	12.66	12.48	13.31	29.44	0
7/11/22 4:00	7.839	8.46	14.06	13.2	29.44	0
7/11/22 4:15	6.137	2.288	16.11	12.89	29.44	0
7/11/22 4:30	7.057	2.894	14.31	12.65	29.43	0
7/11/22 4:45	7.63	4.074	13.61	12.82	29.43	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
7/11/22 5:00	7.529	4.645	14.65	12.82	29.43	0
7/11/22 5:15	7.236	354.5	14.92	13.75	29.43	0
7/11/22 5:30	7.597	4.252	15.08	15.15	29.42	0
7/11/22 5:45	7.727	11.18	10.67	16.09	29.42	0
7/11/22 6:00	7.647	10.58	9.94	16.85	29.42	0
7/11/22 6:15	6.556	9.39	11.36	17.9	29.42	0
7/11/22 6:30	5.985	11.73	10.35	19.48	29.41	0
7/11/22 6:45	5.19	16.5	10.78	20.97	29.41	0
7/11/22 7:00	4.839	16.38	13.07	22.12	29.41	0
7/11/22 7:15	3.926	17.36	15.05	24.28	29.4	0
7/11/22 7:30	2.837	16.65	15.55	27.23	29.4	0
7/11/22 7:45	1.737	23.69	18.34	29.71	29.4	0
7/11/22 8:00	1.567	32.22	23.45	30.86	29.39	0
7/11/22 8:15	2.205	13.89	24.36	31.36	29.39	0
7/11/22 8:30	1.427	330.5	52.03	31.38	29.38	0
7/11/22 8:45	1.375	299.6	62.95	31.06	29.38	0
7/11/22 9:00	2.755	355.6	31.63	30.58	29.38	0
7/11/22 9:15	2.021	25.42	18.35	30.72	29.37	0
7/11/22 9:30	2.478	259.8	61.76	28.94	29.37	0
7/11/22 9:45	3.626	306.2	43.7	26.76	29.36	0
7/11/22 10:00	5.817	12.65	18.32	28.83	29.35	0
7/11/22 10:15	3.658	351.9	48.43	29.01	29.35	0
7/11/22 10:30	5.958	348.8	54.53	28.79	29.35	0
7/11/22 10:45	7.608	9.24	17.79	28.52	29.34	0
7/11/22 11:00	7.455	7.17	16.66	28.82	29.34	0
7/11/22 11:15	7.391	13.36	17.61	29.35	29.33	0
7/11/22 11:30	9.35	11.22	11.44	29.55	29.32	0
7/11/22 11:45	9.98	8.45	15.96	29.64	29.32	0
7/11/22 12:00	9.63	4.375	16.68	29.56	29.31	0
7/11/22 12:15	8.67	341.6	24.16	30.35	29.31	0
7/11/22 12:30	8.08	326.7	22.05	31.33	29.3	0
7/11/22 12:45	8.04	322	21.59	31.39	29.29	0
7/11/22 13:00	7.018	337.6	28.45	31.33	29.29	0
7/11/22 13:15	8.53	309.8	21.53	31.34	29.28	0
7/11/22 13:30	7.801	314.5	22.4	31.63	29.27	0
7/11/22 13:45	7.817	326.2	22.56	31.87	29.26	0
7/11/22 14:00	8.46	332	16.46	32.55	29.25	0
7/11/22 14:15	8.27	335	26.49	32.54	29.25	0
7/11/22 14:30	9.49	355.1	16.73	32.64	29.24	0
7/11/22 14:45	8.64	339.4	19.7	32.58	29.24	0
7/11/22 15:00	8.36	317.5	27.22	32.97	29.23	0
7/11/22 15:15	9.06	290.6	12.42	32.61	29.23	0
7/11/22 15:30	9.49	288.1	13.51	32.22	29.22	0
7/11/22 15:45	10.59	285.8	13.04	31.94	29.22	0
7/11/22 16:00	8.43	305.1	22.96	32.01	29.21	0
7/11/22 16:15	8.24	308.4	20.83	32.3	29.21	0
7/11/22 16:30	9.18	293.4	8.47	31.76	29.21	0
7/11/22 16:45	7.887	294.1	14.09	31.47	29.2	0
7/11/22 17:00	8.35	312.5	26.73	31.48	29.2	0
7/11/22 17:15	6.664	311.5	19.06	31.55	29.2	0
7/11/22 17:30	7.235	314.5	15.73	31.04	29.19	0
7/11/22 17:45	7.707	300	10.51	30.28	29.19	0
7/11/22 18:00	7.299	315.8	21.17	29.88	29.19	0
7/11/22 18:15	6.972	311.7	14.44	29.39	29.18	0
7/11/22 18:30	6.808	296.5	11.82	29.01	29.18	0
7/11/22 18:45	9.15	307.3	11.41	28.26	29.18	0
7/11/22 19:00	8.16	317	11.73	27.48	29.18	0
7/11/22 19:15	9.79	338.9	20.16	26.92	29.18	0
7/11/22 19:30	7.093	350.2	19.1	26.31	29.19	0
7/11/22 19:45	6.114	320.5	16.72	25.16	29.19	0
7/11/22 20:00	4.832	298	9.69	24.48	29.19	0
7/11/22 20:15	5.895	304.6	19.25	23.47	29.18	0
7/11/22 20:30	4.718	324.7	22.15	23.15	29.18	0
7/11/22 20:45	4.427	351.9	21.85	22.42	29.19	0
7/11/22 21:00	6.238	357.2	14.94	22.19	29.19	0
7/11/22 21:15	8.5	346.3	12.14	21.9	29.18	0
7/11/22 21:30	8.39	352.2	15.79	21.69	29.18	0
7/11/22 21:45	4.89	346.6	22.89	21.02	29.18	0
7/11/22 22:00	4.08	0.635	15.28	20.46	29.18	0
7/11/22 22:15	7.777	353.3	16.38	20.03	29.18	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
7/11/22 22:30	7.135	355.5	15.29	19.98	29.17	0
7/11/22 22:45	9.52	356	16.35	20.02	29.17	0
7/11/22 23:00	11.88	356.7	16.31	20.47	29.17	0
7/11/22 23:15	11.39	352.9	16.24	20.31	29.16	0
7/11/22 23:30	13	353.7	16.95	20.32	29.16	0
7/11/22 23:45	11.1	357.4	19.81	19.94	29.16	0
7/12/22 0:00	10.89	350	14.36	19.55	29.15	0
7/12/22 0:15	10.73	0.136	15.59	19.25	29.15	0
7/12/22 0:30	10.52	348.9	16.41	18.88	29.15	0
7/12/22 0:45	9.14	346.9	16.37	19.22	29.15	0
7/12/22 1:00	6.65	359.8	17.53	18.74	29.15	0
7/12/22 1:15	6.331	1.274	15.63	17.6	29.15	0
7/12/22 1:30	5.951	4.685	16.18	17.35	29.15	0
7/12/22 1:45	6.619	7.188	11.8	16.86	29.15	0
7/12/22 2:00	6.564	7.254	13.38	16.67	29.15	0
7/12/22 2:15	6.996	1.908	17.89	16.72	29.15	0
7/12/22 2:30	6.975	1.892	16.61	16.72	29.14	0
7/12/22 2:45	8.19	6.174	11.68	17.13	29.14	0
7/12/22 3:00	10.9	355.5	17.82	17.55	29.14	0
7/12/22 3:15	9.67	351.5	17.85	18.16	29.14	0
7/12/22 3:30	12.71	353.2	16.46	19.05	29.14	0
7/12/22 3:45	10.61	354.9	19.44	19.54	29.14	0
7/12/22 4:00	8.7	336.7	19.95	19.24	29.14	0
7/12/22 4:15	7.011	329.5	20.82	19.21	29.14	0
7/12/22 4:30	5.371	357	24.01	19.23	29.14	0
7/12/22 4:45	8.26	1.683	18.42	18.55	29.14	0
7/12/22 5:00	7.814	356.1	18.47	18.39	29.14	0
7/12/22 5:15	7.505	4.04	16.29	19.2	29.14	0
7/12/22 5:30	8.82	3.5	18.38	20.1	29.14	0
7/12/22 5:45	9.82	356.8	15.79	20.55	29.14	0
7/12/22 6:00	6.536	3.159	16.47	21.34	29.14	0
7/12/22 6:15	4.23	3.442	19.53	23	29.15	0
7/12/22 6:30	4.178	4.953	13.65	23.53	29.15	0
7/12/22 6:45	8.1	358.3	16.49	23.49	29.15	0
7/12/22 7:00	9.66	1.748	16.2	22.98	29.14	0
7/12/22 7:15	9.06	3.42	15.31	23.67	29.14	0
7/12/22 7:30	10.24	356.4	17.14	24.5	29.14	0
7/12/22 7:45	11.53	355.3	16.68	23.61	29.14	0
7/12/22 8:00	10.79	352.1	15.85	24.28	29.14	0
7/12/22 8:15	9.17	359.7	16.7	25.19	29.14	0
7/12/22 8:30	9.58	5.084	15.6	26.13	29.13	0
7/12/22 8:45	8.67	356.5	16.42	27.47	29.13	0
7/12/22 9:00	7.122	340	16.55	28.14	29.13	0
7/12/22 9:15	5.385	348.3	20.34	28.68	29.13	0
7/12/22 9:30	4.845	343.3	29.99	29.75	29.13	0
7/12/22 9:45	8.57	3.097	17.38	29.26	29.13	0
7/12/22 10:00	6.264	359.5	19.34	29.56	29.12	0
7/12/22 10:15	6.758	7.969	15.68	29.86	29.12	0
7/12/22 10:30	6.159	12.92	15.01	30.2	29.12	0
7/12/22 10:45	5.475	2.208	16.81	30.13	29.12	0
7/12/22 11:00	5.93	299	30.75	29.88	29.12	0
7/12/22 11:15	6.194	287.4	22.4	29.28	29.12	0
7/12/22 11:30	5.299	306.9	21.32	29.39	29.12	0
7/12/22 11:45	7.029	305.1	16.93	29.27	29.12	0
7/12/22 12:00	4.527	322.8	47.54	29.59	29.11	0
7/12/22 12:15	4.795	337.3	38.33	30.27	29.11	0
7/12/22 12:30	7.668	250	26.24	29.21	29.11	0
7/12/22 12:45	7.842	240.5	18.27	28.74	29.1	0
7/12/22 13:00	7.452	247.5	18.83	28.85	29.1	0
7/12/22 13:15	7.767	260.6	26.21	28.88	29.1	0
7/12/22 13:30	6.779	242.1	19.83	29.29	29.1	0
7/12/22 13:45	6.451	246.1	19.59	29.65	29.09	0
7/12/22 14:00	5.966	252	18.68	29.46	29.09	0
7/12/22 14:15	6.309	251.1	22.29	30.06	29.09	0
7/12/22 14:30	5.35	245.6	22.7	30.14	29.08	0
7/12/22 14:45	5.545	276.8	21	30.61	29.08	0
7/12/22 15:00	6.501	252.6	22.81	30.41	29.08	0
7/12/22 15:15	7.494	257.1	28.78	29.41	29.08	0
7/12/22 15:30	7.208	265.2	16.74	29.62	29.08	0
7/12/22 15:45	6.016	241.8	24.7	28.47	29.07	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/12/22 16:00	9.23	224.5	12.8	28.42	29.07	0
7/12/22 16:15	8.09	224.5	20.47	28.14	29.07	0
7/12/22 16:30	8.3	217.2	13.99	28.26	29.07	0
7/12/22 16:45	5.79	204	19.75	28.11	29.06	0
7/12/22 17:00	8.61	191.8	14.26	28.06	29.06	0
7/12/22 17:15	8.92	202.9	15.63	27.74	29.06	0
7/12/22 17:30	7.15	216.7	22.56	27.59	29.06	0
7/12/22 17:45	5.65	256.7	16.44	27.31	29.06	0
7/12/22 18:00	5.191	271.6	39.31	26.94	29.06	0
7/12/22 18:15	5.346	338.6	21.39	25.7	29.06	0
7/12/22 18:30	5.29	336.2	24.33	25.17	29.06	0
7/12/22 18:45	4.744	351.6	22.11	24.32	29.07	0
7/12/22 19:00	6.682	1.238	19.45	23.14	29.07	0
7/12/22 19:15	6.661	1.113	17.88	22.55	29.08	0
7/12/22 19:30	9.42	2.853	15	21.35	29.08	0
7/12/22 19:45	9.78	358.7	15.33	20.71	29.08	0
7/12/22 20:00	10.54	349.1	13.56	20.11	29.09	0
7/12/22 20:15	8.95	356.9	16.51	19.41	29.09	0
7/12/22 20:30	10.54	355.4	17.97	18.88	29.1	0
7/12/22 20:45	9.69	352.6	17.79	18.43	29.11	0
7/12/22 21:00	9.49	354.3	16.93	17.57	29.12	0
7/12/22 21:15	8.61	352.9	15.12	17.33	29.12	0
7/12/22 21:30	8.15	358.5	16.23	16.92	29.13	0
7/12/22 21:45	10.79	352.2	15.99	16.53	29.13	0
7/12/22 22:00	10.19	0.567	17.19	16.12	29.13	0
7/12/22 22:15	10.95	359.7	17.62	15.86	29.14	0
7/12/22 22:30	11.64	353.8	17.18	15.58	29.14	0
7/12/22 22:45	8.95	4.33	16.02	15.39	29.14	0
7/12/22 23:00	9.06	3.525	16.11	15.26	29.15	0
7/12/22 23:15	10.32	6.531	15.54	15.02	29.15	0
7/12/22 23:30	9.63	7.053	15.26	14.65	29.16	0
7/12/22 23:45	10.6	5.738	15.04	14.43	29.16	0
7/13/22 0:00	11.59	4.09	16.77	14.04	29.16	0
7/13/22 0:15	9.28	22.9	14.5	14.04	29.17	0
7/13/22 0:30	9.84	12.45	15.63	13.89	29.17	0
7/13/22 0:45	9.56	9.23	15.14	13.78	29.17	0
7/13/22 1:00	10.79	5.889	14.53	13.96	29.17	0
7/13/22 1:15	10.72	4.456	17.96	13.96	29.18	0
7/13/22 1:30	8.15	9.64	16.15	13.92	29.18	0
7/13/22 1:45	5.053	28.93	16.37	13.58	29.18	0
7/13/22 2:00	3.424	20.35	16.57	13.46	29.18	0
7/13/22 2:15	3.875	19.2	14.48	13.47	29.18	0
7/13/22 2:30	4.928	18.28	9.26	13.31	29.19	0
7/13/22 2:45	5.662	10.7	11.06	12.95	29.18	0
7/13/22 3:00	4.973	0.501	16.26	12.81	29.19	0
7/13/22 3:15	4.056	7.294	10.98	12.77	29.2	0
7/13/22 3:30	2.056	76.8	29.15	12.78	29.2	0
7/13/22 3:45	2.239	82	23.86	12.82	29.21	0
7/13/22 4:00	2.041	21.78	11.85	12.73	29.21	0
7/13/22 4:15	2.265	26.85	16.43	12.65	29.21	0
7/13/22 4:30	2	12.99	12.23	12.38	29.21	0
7/13/22 4:45	2.523	17.04	13.26	12.15	29.22	0
7/13/22 5:00	1.038	127	50.04	12.37	29.22	0
7/13/22 5:15	0.446	152.8	18.78	12.72	29.22	0
7/13/22 5:30	0.8	2.058	50.5	12.79	29.22	0
7/13/22 5:45	2.014	121.5	32.49	12.9	29.23	0
7/13/22 6:00	3.094	124.8	7.951	12.8	29.23	0
7/13/22 6:15	4.268	120.9	5.45	13.04	29.23	0
7/13/22 6:30	3.865	130.5	5.183	12.61	29.23	0
7/13/22 6:45	3.474	131.6	4.454	12.42	29.23	0
7/13/22 7:00	3.484	130.6	5.254	12.5	29.23	0
7/13/22 7:15	2.253	118.2	18.66	13.38	29.24	0
7/13/22 7:30	2.896	106.1	21.06	14.13	29.24	0
7/13/22 7:45	3.422	128.7	28.23	14.41	29.24	0
7/13/22 8:00	2.592	99.8	33.98	14.42	29.24	0
7/13/22 8:15	2.696	204.9	29.75	14.7	29.24	0
7/13/22 8:30	3.694	230.3	23.49	15.27	29.24	0
7/13/22 8:45	2.929	225.5	31.28	16.05	29.24	0
7/13/22 9:00	4.522	240.1	17.96	16.22	29.23	0
7/13/22 9:15	4.687	257.8	33.07	17.25	29.23	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
7/13/22 9:30	4.091	293.9	35.82	18.41	29.24	0
7/13/22 9:45	7.201	306.4	35.51	18.65	29.24	0
7/13/22 10:00	8.43	294.7	13.3	19.44	29.24	0
7/13/22 10:15	7.678	279.2	16.15	19.55	29.25	0
7/13/22 10:30	6.981	272.5	15.85	19.7	29.25	0
7/13/22 10:45	7.201	285.8	16.41	20.29	29.25	0
7/13/22 11:00	7.294	278.9	18.63	20.88	29.25	0
7/13/22 11:15	6.992	273.1	21.51	20.47	29.25	0
7/13/22 11:30	6.516	284.5	22.51	20.99	29.24	0
7/13/22 11:45	7.259	295	16.17	21.7	29.24	0
7/13/22 12:00	8.24	286.5	17.04	21.76	29.24	0
7/13/22 12:15	7.013	285.5	18.87	21.88	29.24	0
7/13/22 12:30	7.959	298.4	11.95	22.51	29.24	0
7/13/22 12:45	7.149	283.2	27.62	22.15	29.24	0
7/13/22 13:00	6.54	271.4	29.72	22.19	29.24	0
7/13/22 13:15	6.409	284.8	71.25	22.12	29.23	0
7/13/22 13:30	6.279	343.3	35.74	22.53	29.23	0
7/13/22 13:45	5.48	297.9	32.67	22.98	29.23	0
7/13/22 14:00	7.323	298.2	19.43	23.71	29.23	0
7/13/22 14:15	9.9	283.6	22.3	23.55	29.23	0
7/13/22 14:30	8.35	282.1	16.16	23.36	29.23	0
7/13/22 14:45	9.99	269.6	18.25	23.2	29.23	0
7/13/22 15:00	9.81	275	18.12	23.28	29.23	0
7/13/22 15:15	9.09	297	15.34	23.85	29.23	0
7/13/22 15:30	8.95	284.8	14.78	23.59	29.23	0
7/13/22 15:45	8.2	285	16.36	23.05	29.23	0
7/13/22 16:00	10.05	285.9	16.57	23.04	29.22	0
7/13/22 16:15	9.39	285.7	10.63	22.96	29.22	0
7/13/22 16:30	10.39	294.8	11.95	22.99	29.22	0
7/13/22 16:45	8.39	291	13.29	23	29.21	0
7/13/22 17:00	7.576	318.2	22.07	23.06	29.21	0
7/13/22 17:15	9.32	307.2	14.72	22.86	29.21	0
7/13/22 17:30	9.39	304.8	13.68	22.66	29.21	0
7/13/22 17:45	9.24	305.2	9.66	22.68	29.21	0
7/13/22 18:00	8.36	312.2	11.7	22.56	29.21	0
7/13/22 18:15	8.41	303.6	13.17	22.35	29.21	0
7/13/22 18:30	8.21	310.2	12.98	22.14	29.21	0
7/13/22 18:45	8.46	313	11.76	21.85	29.21	0
7/13/22 19:00	6.076	321.5	12.32	21.62	29.21	0
7/13/22 19:15	5.408	324.5	8.34	21.32	29.21	0
7/13/22 19:30	6.568	327.8	8.61	20.81	29.21	0
7/13/22 19:45	8.31	325.7	7.812	20.39	29.22	0
7/13/22 20:00	8.25	339.9	10.91	19.65	29.22	0
7/13/22 20:15	5.619	357.8	20.28	18.99	29.22	0
7/13/22 20:30	3.028	20.92	14.57	18.53	29.22	0
7/13/22 20:45	5.298	6.694	17.56	17.88	29.23	0
7/13/22 21:00	7.727	11.86	12.04	17.6	29.23	0
7/13/22 21:15	8.11	11.97	6.762	17.15	29.23	0
7/13/22 21:30	8.54	7.931	12.16	16.76	29.23	0
7/13/22 21:45	8.12	1.608	15.42	16.01	29.23	0
7/13/22 22:00	8.24	1.222	16.94	15.71	29.23	0
7/13/22 22:15	10.27	355.5	16.84	15.29	29.24	0
7/13/22 22:30	10.09	359.6	14.92	15.13	29.24	0
7/13/22 22:45	11.05	4.5	12.81	14.85	29.24	0
7/13/22 23:00	11.43	4.897	15.25	14.72	29.24	0
7/13/22 23:15	10.27	5.132	14.13	14.65	29.24	0
7/13/22 23:30	10.79	3.094	15.55	14.72	29.24	0
7/13/22 23:45	10.74	5.492	14.58	14.36	29.24	0
7/14/22 0:00	9.88	4.091	16.64	14.03	29.24	0
7/14/22 0:15	8.99	11.32	12.99	13.75	29.24	0
7/14/22 0:30	11.9	11.06	12.93	13.56	29.24	0
7/14/22 0:45	11.7	11.42	11.4	13.31	29.24	0
7/14/22 1:00	8.59	16.82	13.3	13.17	29.25	0
7/14/22 1:15	6.676	9.45	12.11	12.9	29.25	0
7/14/22 1:30	4.37	17.74	10.27	12.76	29.25	0
7/14/22 1:45	4.329	33.45	14.48	12.54	29.25	0
7/14/22 2:00	5.29	7.002	12.64	12.23	29.25	0
7/14/22 2:15	4.104	42.89	24.87	12.23	29.25	0
7/14/22 2:30	5.785	111.4	8.88	12.64	29.25	0
7/14/22 2:45	6.382	116.2	8.19	12.62	29.25	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
7/14/22 3:00	5.976	117.1	6.139	12.84	29.25	0
7/14/22 3:15	5.762	123.7	5.76	12.84	29.25	0
7/14/22 3:30	5.467	130.7	3.8	12.78	29.25	0
7/14/22 3:45	4.98	128.7	2.952	12.65	29.25	0
7/14/22 4:00	5.602	131.9	4.337	12.38	29.25	0
7/14/22 4:15	5.038	142.2	5.518	12.16	29.26	0
7/14/22 4:30	5.76	141.8	5.21	12.17	29.26	0
7/14/22 4:45	5.763	144.5	6.211	12.14	29.26	0
7/14/22 5:00	5.016	142.7	5.785	12.09	29.26	0
7/14/22 5:15	4.786	140.4	9.99	12.1	29.26	0
7/14/22 5:30	2.377	94.4	16.9	12.35	29.26	0
7/14/22 5:45	1.585	62.96	22.21	13.06	29.26	0
7/14/22 6:00	1.918	42.94	17.79	12.85	29.26	0
7/14/22 6:15	1.406	46.42	15.72	13.45	29.26	0
7/14/22 6:30	2.252	147.5	21.14	13.66	29.26	0
7/14/22 6:45	2.634	136.5	19.45	13.59	29.26	0
7/14/22 7:00	2.227	120.2	37.89	14.26	29.26	0
7/14/22 7:15	2.531	179.4	18.74	14.37	29.26	0
7/14/22 7:30	2.066	179.1	38.51	14.71	29.26	0
7/14/22 7:45	2.362	173.9	42.99	15.31	29.26	0
7/14/22 8:00	3.765	195.2	17.73	15.62	29.26	0
7/14/22 8:15	3.29	161.4	23.21	15.94	29.26	0
7/14/22 8:30	1.738	179.2	63.56	16.4	29.26	0
7/14/22 8:45	3.146	193.7	40.58	17.17	29.26	0
7/14/22 9:00	3.259	277.4	42.96	17.45	29.26	0
7/14/22 9:15	4.797	239.7	36.24	17.63	29.25	0
7/14/22 9:30	4.715	250.8	13.2	17.81	29.25	0
7/14/22 9:45	4.319	235.9	27.58	18.42	29.25	0
7/14/22 10:00	4.033	263.7	43.54	18.77	29.25	0
7/14/22 10:15	4.708	223	32.33	19.35	29.25	0
7/14/22 10:30	4.308	260.7	37.19	19.27	29.25	0
7/14/22 10:45	3.67	236.7	38.79	19.9	29.24	0
7/14/22 11:00	5.523	238.7	28.92	19.99	29.24	0
7/14/22 11:15	5.611	218.5	25.81	20.28	29.24	0
7/14/22 11:30	5.564	235.9	20.84	20.52	29.24	0
7/14/22 11:45	5.017	251	43.9	20.72	29.23	0
7/14/22 12:00	5.668	205.5	27.76	21.12	29.23	0
7/14/22 12:15	4.288	247.7	42.95	21.91	29.22	0
7/14/22 12:30	5.646	236.8	30.38	22.06	29.22	0
7/14/22 12:45	4.189	264.6	45.6	22.49	29.21	0
7/14/22 13:00	5.99	249.5	23.75	22.51	29.21	0
7/14/22 13:15	6.181	243	20.95	22.69	29.21	0
7/14/22 13:30	5.083	254.4	28.77	23.13	29.2	0
7/14/22 13:45	6.399	223.7	26.3	23.22	29.2	0
7/14/22 14:00	6.189	248.8	33.4	23.5	29.19	0
7/14/22 14:15	6.114	232.5	34.58	23.77	29.19	0
7/14/22 14:30	5.705	244.4	22.41	24.06	29.19	0
7/14/22 14:45	5.673	253.3	22.71	23.97	29.19	0
7/14/22 15:00	7.301	241.6	17.11	24.29	29.18	0
7/14/22 15:15	5.28	230.7	29.6	24.49	29.18	0
7/14/22 15:30	4.879	258.1	42.34	24.57	29.18	0
7/14/22 15:45	6.239	230.2	23.45	24.68	29.18	0
7/14/22 16:00	5.4	227.4	35.11	24.85	29.17	0
7/14/22 16:15	4.952	249	43.63	24.98	29.17	0
7/14/22 16:30	5.207	249	19.58	24.86	29.17	0
7/14/22 16:45	4.366	241.5	20.33	25.12	29.17	0
7/14/22 17:00	5.743	257.3	26.8	25.21	29.16	0
7/14/22 17:15	4.778	207.3	17.69	25.15	29.16	0
7/14/22 17:30	3.885	238.9	36.67	25.25	29.16	0
7/14/22 17:45	4.568	247.5	13.22	25.02	29.16	0
7/14/22 18:00	4.502	230.2	23.47	25.14	29.15	0
7/14/22 18:15	5.455	221.1	18.35	24.88	29.15	0
7/14/22 18:30	5.514	213.8	15.21	24.69	29.15	0
7/14/22 18:45	5.943	208.3	7.59	24.44	29.16	0
7/14/22 19:00	6.441	208.5	6.08	24.21	29.16	0
7/14/22 19:15	6.656	208.1	4.979	23.88	29.16	0
7/14/22 19:30	6.59	208.7	3.278	23.6	29.16	0
7/14/22 19:45	6.291	208.8	1.989	23.28	29.16	0
7/14/22 20:00	5.322	214	2.768	22.67	29.16	0
7/14/22 20:15	3.469	240.4	16.12	22.31	29.17	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
7/14/22 20:30	2.433	310.8	27.46	21.47	29.17	0
7/14/22 20:45	2.583	332	4.63	21.05	29.17	0
7/14/22 21:00	2.082	343.9	14.09	20.85	29.17	0
7/14/22 21:15	5.884	253	31.05	19.82	29.17	0
7/14/22 21:30	5.188	273	6.166	18.82	29.18	0
7/14/22 21:45	2.886	285.5	5.795	18.8	29.18	0
7/14/22 22:00	0.977	144.3	54.55	18.21	29.19	0
7/14/22 22:15	4.797	210.1	15.54	18.2	29.19	0
7/14/22 22:30	4.332	179.1	7.523	17.71	29.2	0
7/14/22 22:45	4.189	183	11.34	17.43	29.2	0
7/14/22 23:00	4.627	159.1	7.275	16.94	29.21	0
7/14/22 23:15	6.703	151.2	10.1	16.06	29.21	0
7/14/22 23:30	7.536	154.6	7.689	15.52	29.21	0
7/14/22 23:45	5.524	158.9	10.66	15.56	29.21	0
7/15/22 0:00	2.57	87.5	19.87	14.97	29.21	0
7/15/22 0:15	5.016	96.3	8.27	15.15	29.21	0
7/15/22 0:30	5.178	115.8	8.08	15.4	29.21	0
7/15/22 0:45	4.837	144.2	11.32	15.16	29.21	0
7/15/22 1:00	5.486	183.5	16.98	15.17	29.21	0
7/15/22 1:15	6.146	195.7	9.44	14.42	29.22	0
7/15/22 1:30	5.238	184.5	7.762	14.02	29.22	0
7/15/22 1:45	4.225	191	7.23	13.82	29.22	0
7/15/22 2:00	4.861	211.5	10.43	13.92	29.22	0
7/15/22 2:15	5.543	216.6	3.578	13.8	29.22	0
7/15/22 2:30	4.065	220.1	7.85	13.48	29.23	0
7/15/22 2:45	2.682	229.6	6.432	13.13	29.23	0
7/15/22 3:00	2.249	188.5	7.18	13.11	29.23	0
7/15/22 3:15	2.746	163.9	8.88	12.96	29.23	0
7/15/22 3:30	2.856	152	13.07	12.81	29.23	0
7/15/22 3:45	3.969	120	10.22	12.61	29.24	0
7/15/22 4:00	2.997	108.3	8.23	12.23	29.24	0
7/15/22 4:15	3.276	125.1	4.691	12.31	29.24	0
7/15/22 4:30	3.116	142.5	23.7	12.42	29.24	0
7/15/22 4:45	3.609	165.4	15.94	12.54	29.25	0
7/15/22 5:00	3.313	178.3	11.68	11.83	29.25	0
7/15/22 5:15	3.174	167	14.16	12.12	29.25	0
7/15/22 5:30	4.356	168.3	8.99	12.14	29.25	0
7/15/22 5:45	5.368	170.8	7.895	12.51	29.26	0
7/15/22 6:00	5.82	144.5	13.17	12.5	29.26	0
7/15/22 6:15	5.843	146.8	12.93	12.65	29.26	0
7/15/22 6:30	5.992	165.4	9.38	12.99	29.26	0
7/15/22 6:45	5.149	137.1	17.25	13.36	29.26	0
7/15/22 7:00	5.161	132.3	19.78	13.88	29.26	0
7/15/22 7:15	5.461	128.7	23.77	14.29	29.26	0
7/15/22 7:30	4.565	129.3	16.79	14.2	29.26	0
7/15/22 7:45	4.913	127	22.55	15.06	29.26	0
7/15/22 8:00	5.473	145.2	19.3	15.33	29.27	0
7/15/22 8:15	5.889	151.5	17.55	15.64	29.27	0
7/15/22 8:30	5.334	175.5	18.26	16.05	29.27	0
7/15/22 8:45	6.941	161.2	22	16.34	29.26	0
7/15/22 9:00	4.313	214	41.59	16.61	29.26	0
7/15/22 9:15	5.197	160.6	29.19	17.52	29.26	0
7/15/22 9:30	4.598	157.8	26.74	17.53	29.26	0
7/15/22 9:45	4.578	173.8	38.38	18.02	29.26	0
7/15/22 10:00	4.718	164.6	29.49	18.24	29.26	0
7/15/22 10:15	4.415	116.6	30.4	19.11	29.26	0
7/15/22 10:30	5.533	170.7	43.81	19.38	29.26	0
7/15/22 10:45	6.723	181.1	33.56	19.92	29.26	0
7/15/22 11:00	4.791	145.5	27.37	20.36	29.26	0
7/15/22 11:15	6.844	190.8	18.6	20.73	29.25	0
7/15/22 11:30	4.482	162.9	31.88	21.32	29.25	0
7/15/22 11:45	5.529	165.1	40.01	21.94	29.25	0
7/15/22 12:00	6.456	190.8	35.14	21.99	29.25	0
7/15/22 12:15	7.709	224.6	16.55	22.19	29.25	0
7/15/22 12:30	6.418	204.9	29.12	22.45	29.25	0
7/15/22 12:45	6.909	206	35.82	23.03	29.25	0
7/15/22 13:00	6.206	178.9	42.7	23.47	29.25	0
7/15/22 13:15	5.845	218.8	27.51	23.36	29.25	0
7/15/22 13:30	5.857	202.4	26.76	23.71	29.25	0
7/15/22 13:45	7.655	250.6	19.57	24.2	29.25	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
7/15/22 14:00	8.41	253.5	19.8	23.69	29.25	0
7/15/22 14:15	7.184	220.6	17.88	23.77	29.25	0
7/15/22 14:30	8.75	245.3	18	23.98	29.25	0
7/15/22 14:45	9.1	251.7	12.02	24.08	29.25	0
7/15/22 15:00	8.53	246.9	18.03	24.18	29.24	0
7/15/22 15:15	8.08	244.4	17.33	24.19	29.24	0
7/15/22 15:30	6.747	242.6	21.11	24.19	29.24	0
7/15/22 15:45	9.32	223.9	11.03	24.33	29.24	0
7/15/22 16:00	6.569	200.8	23.37	23.93	29.24	0
7/15/22 16:15	7.962	240	23.97	24.2	29.25	0
7/15/22 16:30	8.02	228.1	19.26	24.32	29.25	0
7/15/22 16:45	7.359	217.4	19.23	24.25	29.25	0
7/15/22 17:00	9.29	232.7	12.37	24.12	29.24	0
7/15/22 17:15	7.914	233.7	24.08	24.1	29.24	0
7/15/22 17:30	7.532	244.6	13.43	23.76	29.24	0
7/15/22 17:45	5.827	261	14.93	23	29.24	0
7/15/22 18:00	5.208	269.9	11.19	22.57	29.24	0
7/15/22 18:15	6.472	263.9	11.44	22.36	29.24	0
7/15/22 18:30	7.5	256.4	9.51	21.91	29.24	0
7/15/22 18:45	8.31	256.6	8.48	21.55	29.24	0
7/15/22 19:00	6.328	254	10.5	21.28	29.24	0
7/15/22 19:15	7.364	261.5	8.03	20.95	29.24	0
7/15/22 19:30	7.742	256.6	10.84	20.76	29.24	0
7/15/22 19:45	7.663	251.3	9.84	20.47	29.24	0
7/15/22 20:00	3.963	243.7	12.09	20.19	29.25	0
7/15/22 20:15	3.309	213.5	9.34	20.13	29.25	0
7/15/22 20:30	5.622	210.9	7.224	19.86	29.25	0
7/15/22 20:45	6.537	210.4	9.06	19.47	29.26	0
7/15/22 21:00	4.998	198.8	17.53	19.18	29.26	0
7/15/22 21:15	5.256	186.4	11.87	18.88	29.27	0
7/15/22 21:30	5.394	212.2	8.84	18.71	29.27	0
7/15/22 21:45	4.245	185.8	15.01	18.54	29.27	0
7/15/22 22:00	4.64	176.3	7.629	18.42	29.27	0
7/15/22 22:15	5.417	176.1	9.51	18.18	29.27	0
7/15/22 22:30	5.446	181.8	14	17.97	29.27	0
7/15/22 22:45	5.179	202.8	8.02	18.16	29.27	0
7/15/22 23:00	4.881	182.1	9.03	17.99	29.27	0
7/15/22 23:15	3.768	189.7	20.49	17.89	29.27	0
7/15/22 23:30	4.219	232.6	15.37	17.75	29.27	0
7/15/22 23:45	3.097	241.6	9.08	17.53	29.27	0
7/16/22 0:00	3.493	223.3	9.29	17.49	29.27	0
7/16/22 0:15	3.98	216.1	8.3	17.5	29.27	0
7/16/22 0:30	4.635	217.9	11.27	17.46	29.27	0
7/16/22 0:45	3.17	235.4	12.31	17.3	29.26	0
7/16/22 1:00	3.361	213.1	15.86	17.26	29.26	0
7/16/22 1:15	3.888	181.1	11.72	17.14	29.26	0
7/16/22 1:30	4.738	191.1	13.2	16.85	29.26	0
7/16/22 1:45	5.101	208	6.492	16.84	29.26	0
7/16/22 2:00	4.184	219.7	8.96	16.74	29.26	0
7/16/22 2:15	3.937	212.9	9.03	16.69	29.26	0
7/16/22 2:30	4.798	212.5	5.812	16.67	29.26	0
7/16/22 2:45	4.568	209.1	6.324	16.65	29.27	0
7/16/22 3:00	3.366	194.7	13.65	16.65	29.27	0
7/16/22 3:15	3.131	174	12.22	16.58	29.27	0
7/16/22 3:30	3.34	211.2	9.38	16.66	29.26	0
7/16/22 3:45	3.565	229.2	11.65	16.54	29.26	0
7/16/22 4:00	3.612	220.2	9.89	16.49	29.26	0
7/16/22 4:15	3.772	244.6	13.85	16.31	29.26	0
7/16/22 4:30	3.949	235.7	9.94	16.25	29.26	0
7/16/22 4:45	5.18	260.8	6.162	15.75	29.26	0
7/16/22 5:00	5.161	235.2	18.85	15.57	29.26	0
7/16/22 5:15	5.265	206.3	10.97	15.75	29.27	0
7/16/22 5:30	4.04	225.1	13.2	15.57	29.27	0
7/16/22 5:45	3.902	265.3	12.61	15.23	29.27	0
7/16/22 6:00	4.529	266.9	9.94	14.99	29.27	0
7/16/22 6:15	5.718	261.5	12.37	15.02	29.27	0
7/16/22 6:30	5.603	244.7	8.47	15.18	29.28	0
7/16/22 6:45	3.2	246.7	13.53	15.22	29.28	0
7/16/22 7:00	1.849	271.3	26.49	15.44	29.28	0
7/16/22 7:15	2.059	330.8	35.38	15.67	29.28	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
7/16/22 7:30	2.578	236	48.41	15.69	29.29	0
7/16/22 7:45	3.621	216.6	27.5	15.56	29.29	0
7/16/22 8:00	3.168	172.5	56.76	15.34	29.29	0
7/16/22 8:15	3.735	159.6	28.29	15.43	29.29	0
7/16/22 8:30	2.799	149.9	44.89	15.62	29.29	0
7/16/22 8:45	2.725	119.1	22.05	16.19	29.29	0
7/16/22 9:00	4.028	171.4	31.22	16.37	29.29	0
7/16/22 9:15	3.49	180.9	37.91	16.97	29.28	0
7/16/22 9:30	3.179	174.2	44.16	17.26	29.28	0
7/16/22 9:45	5.076	171.6	22.03	17.54	29.28	0
7/16/22 10:00	4.336	216.6	24.21	17.29	29.28	0
7/16/22 10:15	5.602	166.6	21.98	17.55	29.29	0
7/16/22 10:30	4.167	195.5	32.38	17.72	29.29	0
7/16/22 10:45	5.03	171	25.55	17.84	29.29	0
7/16/22 11:00	4	227.5	42.91	18.11	29.29	0
7/16/22 11:15	3.628	185.3	26.37	17.98	29.29	0
7/16/22 11:30	3.285	188.8	30.35	18.16	29.29	0
7/16/22 11:45	3.64	195.7	31.01	18.46	29.29	0
7/16/22 12:00	3.411	167.8	23.14	18.24	29.29	0
7/16/22 12:15	3.457	209.7	29.02	18.34	29.29	0
7/16/22 12:30	2.445	198.6	34.13	19.28	29.29	0
7/16/22 12:45	4.164	241	25.58	18.96	29.29	0
7/16/22 13:00	2.415	204.5	59.15	18.94	29.28	0
7/16/22 13:15	4.842	205.2	25.35	19.05	29.28	0
7/16/22 13:30	4.981	192.5	15.94	19.18	29.28	0
7/16/22 13:45	4.143	203.5	30.19	19.38	29.28	0
7/16/22 14:00	4.104	203.4	48.68	19.63	29.28	0
7/16/22 14:15	4.166	258.5	38.28	19.59	29.27	0
7/16/22 14:30	3.455	205	58.38	19.73	29.27	0
7/16/22 14:45	5.22	261.4	15.82	19.69	29.27	0
7/16/22 15:00	6.239	246.8	16.29	19.6	29.27	0
7/16/22 15:15	6.401	258.9	15.87	19.69	29.27	0
7/16/22 15:30	7.236	264.9	10.42	19.61	29.26	0
7/16/22 15:45	6.033	257.5	13.19	19.58	29.26	0
7/16/22 16:00	6.439	264.9	12.42	19.67	29.26	0
7/16/22 16:15	5.926	260.6	18.27	19.77	29.26	0
7/16/22 16:30	6.476	263.4	15.78	19.73	29.25	0
7/16/22 16:45	5.215	245.1	14.71	19.77	29.25	0
7/16/22 17:00	6.386	243.1	11.85	19.6	29.25	0
7/16/22 17:15	6.707	242.6	9.4	19.5	29.25	0
7/16/22 17:30	7.136	222.4	10.18	19.64	29.24	0
7/16/22 17:45	6.557	245.8	18.2	19.56	29.24	0
7/16/22 18:00	7.673	229.7	7.483	19.27	29.24	0
7/16/22 18:15	6.515	232.2	7.587	19.07	29.24	0
7/16/22 18:30	5.057	235.3	7.5	18.9	29.24	0
7/16/22 18:45	3.985	231	12.65	18.8	29.24	0
7/16/22 19:00	3.21	227.8	9.26	18.67	29.24	0
7/16/22 19:15	2.031	220.6	28.04	18.65	29.24	0
7/16/22 19:30	2.71	33.87	15.54	18.06	29.24	0
7/16/22 19:45	7.442	17.02	13.92	17.37	29.24	0
7/16/22 20:00	5.872	358.9	16.05	17.07	29.24	0
7/16/22 20:15	8.85	350.4	14.75	16.71	29.24	0
7/16/22 20:30	8.97	359.8	16.07	16.31	29.24	0
7/16/22 20:45	10.31	347.2	16.43	16.13	29.25	0
7/16/22 21:00	10.18	350.9	16.25	15.91	29.25	0
7/16/22 21:15	9.14	348.4	17.52	15.67	29.25	0
7/16/22 21:30	10.32	359	18.75	15.46	29.25	0
7/16/22 21:45	10.15	355.4	16.6	15.23	29.25	0
7/16/22 22:00	10.72	5.936	17.8	15	29.25	0
7/16/22 22:15	11.41	5.334	16.4	14.79	29.25	0
7/16/22 22:30	10.68	1.43	14.64	14.58	29.25	0
7/16/22 22:45	9.74	1.129	18.23	14.5	29.25	0
7/16/22 23:00	8.91	0.537	16.63	14.54	29.25	0
7/16/22 23:15	9.14	1.679	14.73	14.45	29.24	0
7/16/22 23:30	8.57	1.064	14.86	14.35	29.24	0
7/16/22 23:45	8.26	359.2	17.83	14.28	29.24	0
7/17/22 0:00	6.63	7.225	18.31	14.22	29.24	0
7/17/22 0:15	6.402	5.956	17.99	14.1	29.24	0
7/17/22 0:30	6.395	8.67	15.75	14.01	29.24	0
7/17/22 0:45	6.386	16.15	13.94	13.95	29.24	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
7/17/22 1:00	7.782	8.02	16.48	13.92	29.24	0
7/17/22 1:15	11.07	8.1	12.57	13.83	29.23	0
7/17/22 1:30	8.67	3.286	15.95	13.83	29.23	0
7/17/22 1:45	7.473	5.058	15.01	13.97	29.24	0
7/17/22 2:00	6.687	7.536	15.04	13.87	29.24	0
7/17/22 2:15	5.959	21.86	14.21	13.72	29.24	0
7/17/22 2:30	6.793	29.37	14.07	13.56	29.24	0
7/17/22 2:45	5.307	27.16	22.82	13.5	29.24	0
7/17/22 3:00	4.852	13.65	18.69	13.49	29.24	0
7/17/22 3:15	4.705	46.39	13.04	13.38	29.24	0
7/17/22 3:30	3.122	61.17	18.22	13.34	29.24	0
7/17/22 3:45	2.767	27.67	25.12	13.33	29.24	0
7/17/22 4:00	3.417	24.37	18.83	13.31	29.24	0
7/17/22 4:15	4.27	32.42	29.15	13.3	29.24	0
7/17/22 4:30	3.513	55.37	33.53	13.28	29.24	0
7/17/22 4:45	2.608	47.42	37.53	13.19	29.24	0
7/17/22 5:00	7.028	20.72	16.05	13.13	29.24	0
7/17/22 5:15	7.429	3.583	13.59	13.06	29.24	0
7/17/22 5:30	5.684	4.746	19.17	13.08	29.25	0
7/17/22 5:45	6.116	4.371	17.11	13.01	29.25	0
7/17/22 6:00	6.576	9.89	14.39	12.96	29.25	0
7/17/22 6:15	5.674	25.3	17.88	12.94	29.25	0
7/17/22 6:30	6.922	18.82	15.79	12.99	29.25	0
7/17/22 6:45	5.9	12.13	16.15	12.96	29.25	0
7/17/22 7:00	6.036	8.33	15.49	12.99	29.25	0
7/17/22 7:15	6.68	3.877	15.76	13.13	29.25	0
7/17/22 7:30	6.229	9.29	14.5	13.23	29.25	0
7/17/22 7:45	5.437	16.49	19.19	13.3	29.25	0
7/17/22 8:00	4.679	15.34	16.55	13.37	29.25	0
7/17/22 8:15	6.7	356.8	16.9	13.57	29.25	0
7/17/22 8:30	6.259	346.3	15.39	13.81	29.25	0
7/17/22 8:45	6.029	359.2	14.2	13.98	29.25	0
7/17/22 9:00	5.161	3.628	16.3	14.32	29.25	0
7/17/22 9:15	5.345	353.3	17.7	14.6	29.25	0
7/17/22 9:30	5.425	9.5	21.82	15.16	29.25	0
7/17/22 9:45	7.276	341.9	11.97	15.13	29.25	0
7/17/22 10:00	7.589	346.4	12.61	15.36	29.25	0
7/17/22 10:15	6.567	342.6	13.76	15.6	29.25	0
7/17/22 10:30	5.465	6.901	17.17	16.04	29.25	0
7/17/22 10:45	4.063	29.66	23.06	16.11	29.25	0
7/17/22 11:00	2.097	73.04	40.65	16.1	29.26	0
7/17/22 11:15	1.85	33.17	56.55	16.63	29.26	0
7/17/22 11:30	3.592	345.6	22.57	16.45	29.26	0
7/17/22 11:45	3.791	2.336	32.74	16.39	29.26	0
7/17/22 12:00	4.818	329	19.87	16.26	29.25	0
7/17/22 12:15	5.917	333.5	18.08	16.32	29.25	0
7/17/22 12:30	7.263	318.9	11.31	16.38	29.25	0
7/17/22 12:45	5.841	306	15.28	16.34	29.25	0
7/17/22 13:00	5.195	315	14.27	16.2	29.25	0
7/17/22 13:15	3.428	339.8	20.99	16.19	29.25	0
7/17/22 13:30	4.156	2.678	14.29	16.24	29.25	0
7/17/22 13:45	5.862	12.9	13.77	16.33	29.25	0
7/17/22 14:00	6.613	9.97	11.68	16.66	29.24	0
7/17/22 14:15	5.938	19.75	19.79	16.89	29.24	0
7/17/22 14:30	5.15	0.625	20.77	16.85	29.24	0
7/17/22 14:45	3.194	34.54	29.41	16.67	29.24	0
7/17/22 15:00	1.358	121.4	21.06	16.54	29.24	0
7/17/22 15:15	2.768	309.3	37.35	16.64	29.23	0
7/17/22 15:30	2.624	268.7	15.21	16.55	29.23	0
7/17/22 15:45	3.007	239.5	17.05	16.59	29.23	0
7/17/22 16:00	1.424	199.2	73.21	16.69	29.23	0
7/17/22 16:15	2.657	7.395	20.76	16.92	29.22	0
7/17/22 16:30	1.285	353.4	36.89	17.25	29.22	0
7/17/22 16:45	1.772	351.9	54.49	17.29	29.22	0
7/17/22 17:00	2.826	40.16	13.84	17.04	29.22	0
7/17/22 17:15	1.958	24.07	9.89	17.03	29.21	0
7/17/22 17:30	0.666	314.5	22.41	17.12	29.21	0
7/17/22 17:45	2.599	347	15.95	17	29.21	0
7/17/22 18:00	3.153	330.1	8.05	16.94	29.21	0
7/17/22 18:15	2.145	347.4	14.22	16.87	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/17/22 18:30	3.046	327.5	8.83	16.87	29.21	0
7/17/22 18:45	2.449	319.2	3.558	16.76	29.21	0
7/17/22 19:00	2.231	340.9	17.06	16.61	29.21	0
7/17/22 19:15	2.752	337.6	13.76	16.43	29.21	0
7/17/22 19:30	2.461	343.1	6.286	16.34	29.21	0
7/17/22 19:45	0.958	335.5	2.321	16.29	29.2	0
7/17/22 20:00	2.768	309.9	6.279	16.09	29.2	0
7/17/22 20:15	2.356	296.3	7.978	15.96	29.2	0
7/17/22 20:30	4.343	304.8	14.2	15.69	29.21	0
7/17/22 20:45	4.787	337.3	18.33	15.3	29.21	0
7/17/22 21:00	6.439	357.2	16.16	15.05	29.21	0
7/17/22 21:15	7.472	354	16.97	15.06	29.21	0
7/17/22 21:30	5.696	356.3	16.3	14.92	29.21	0
7/17/22 21:45	3.956	337.6	26.75	14.88	29.22	0
7/17/22 22:00	4.743	323.7	26.46	14.86	29.22	0
7/17/22 22:15	3.957	336.9	19.5	14.75	29.22	0
7/17/22 22:30	3.262	320.4	13.96	14.54	29.22	0
7/17/22 22:45	4.823	333.1	18.58	14.27	29.22	0
7/17/22 23:00	2.153	12.97	8.12	13.68	29.22	0
7/17/22 23:15	1.716	19.91	6.445	13.76	29.22	0
7/17/22 23:30	0.659	347.2	6.291	13.8	29.22	0
7/17/22 23:45	0.943	42.27	32.15	13.8	29.21	0
7/18/22 0:00	1.206	80.6	38.04	13.32	29.22	0
7/18/22 0:15	1.477	8.26	5.538	13.27	29.22	0
7/18/22 0:30	1.849	42.22	15.67	13.23	29.23	0
7/18/22 0:45	3.915	163.8	49.17	12.9	29.23	0
7/18/22 1:00	5.835	177	7.358	12.45	29.23	0
7/18/22 1:15	3.184	160	20.5	12.48	29.23	0
7/18/22 1:30	2.342	154.5	31.21	12.63	29.24	0
7/18/22 1:45	3.306	213.1	25.1	12.99	29.24	0
7/18/22 2:00	4.309	243.1	11.8	12.94	29.25	0
7/18/22 2:15	5.714	246.1	7.924	12.82	29.25	0
7/18/22 2:30	6.049	236.2	10.05	12.76	29.25	0
7/18/22 2:45	5.421	197.5	25.33	12.69	29.25	0
7/18/22 3:00	6.996	168.1	10.92	12.46	29.25	0
7/18/22 3:15	7.072	173.3	8.91	12.29	29.26	0
7/18/22 3:30	8.05	178.6	6.779	12.16	29.26	0
7/18/22 3:45	8.21	179.9	7.986	11.96	29.27	0
7/18/22 4:00	6.88	178.1	7.413	11.74	29.28	0.01
7/18/22 4:15	5.927	169.8	10.03	11.54	29.28	0
7/18/22 4:30	4.61	144.8	12.58	11.32	29.29	0
7/18/22 4:45	4.492	137.3	8.85	11.21	29.29	0
7/18/22 5:00	3.582	101.1	10.43	11.22	29.3	0
7/18/22 5:15	4.621	124.7	7.9	11.21	29.3	0
7/18/22 5:30	5.458	121.5	7.361	11.21	29.31	0
7/18/22 5:45	5.182	122	8.8	11.19	29.31	0
7/18/22 6:00	5.143	109.2	12.49	11.23	29.31	0.01
7/18/22 6:15	4.896	93.9	9.82	11.34	29.32	0
7/18/22 6:30	4.316	98.2	15.42	11.32	29.33	0
7/18/22 6:45	3.774	99.2	15.73	11.34	29.33	0
7/18/22 7:00	3.944	124.6	26.74	11.42	29.33	0
7/18/22 7:15	5.865	96.1	9.67	11.45	29.33	0
7/18/22 7:30	6.614	100.1	10.53	11.58	29.34	0
7/18/22 7:45	5.696	101.4	9.69	11.74	29.35	0
7/18/22 8:00	4.786	100	10.67	11.78	29.35	0
7/18/22 8:15	4.483	106.9	8.24	11.87	29.36	0
7/18/22 8:30	5.237	103	10.79	11.96	29.36	0
7/18/22 8:45	6.554	103.7	10.75	12.16	29.36	0
7/18/22 9:00	5.693	91.3	10.36	12.45	29.37	0
7/18/22 9:15	5.867	91.3	13.41	12.67	29.37	0
7/18/22 9:30	5.882	79.03	11.3	12.71	29.37	0
7/18/22 9:45	4.818	89	15.96	12.9	29.38	0
7/18/22 10:00	5.496	87.9	11.91	13.04	29.38	0
7/18/22 10:15	6.418	90.3	14.93	13.4	29.38	0
7/18/22 10:30	5.477	88.9	21.69	13.93	29.38	0
7/18/22 10:45	5.68	73.98	15.31	13.74	29.38	0
7/18/22 11:00	3.892	66.62	17.95	14.02	29.39	0
7/18/22 11:15	4.049	81.2	19.49	14.58	29.39	0
7/18/22 11:30	4.89	108.6	14.08	15.34	29.39	0
7/18/22 11:45	5.338	96.7	19.96	15.17	29.39	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
7/18/22 12:00	4.862	74.53	18.23	15.1	29.38	0
7/18/22 12:15	3.64	81.7	41.38	15.46	29.39	0
7/18/22 12:30	4.558	119.2	13.53	15.66	29.38	0
7/18/22 12:45	1.612	90.9	75.42	16	29.39	0
7/18/22 13:00	3.58	103.6	18.58	16.39	29.39	0
7/18/22 13:15	3.98	144.3	24.86	16.88	29.39	0
7/18/22 13:30	2.954	109.7	35.51	17.3	29.39	0
7/18/22 13:45	1.796	79.08	63.13	17.03	29.38	0
7/18/22 14:00	2.671	145.7	47.68	17.93	29.38	0
7/18/22 14:15	2.821	256.9	89	18.38	29.37	0
7/18/22 14:30	2.712	40.03	36.01	18.69	29.37	0
7/18/22 14:45	4.054	350.6	42.18	19.75	29.37	0
7/18/22 15:00	5.232	6.424	32.59	19.68	29.36	0
7/18/22 15:15	4.615	354	33.07	19.86	29.36	0
7/18/22 15:30	5.246	348.8	46.13	20.35	29.35	0
7/18/22 15:45	5.469	10.1	21.84	20.23	29.35	0
7/18/22 16:00	7.201	328.3	20.81	20.42	29.34	0
7/18/22 16:15	5.531	336.4	23.42	20.77	29.34	0
7/18/22 16:30	7.765	348.8	16.82	20.44	29.34	0
7/18/22 16:45	8.79	357.3	17.28	20.28	29.33	0
7/18/22 17:00	9.08	347.8	15.72	20.46	29.33	0
7/18/22 17:15	9.6	348	15.75	20.36	29.32	0
7/18/22 17:30	10.14	345.8	12.85	20.3	29.32	0
7/18/22 17:45	10.58	345.2	13.11	20.15	29.31	0
7/18/22 18:00	9	350	17.15	20.08	29.3	0
7/18/22 18:15	9.63	342.4	12.18	19.97	29.3	0
7/18/22 18:30	9.43	328.8	8.77	20	29.3	0
7/18/22 18:45	8.46	345.6	15.29	19.65	29.3	0
7/18/22 19:00	9.38	328.5	9.71	19.55	29.3	0
7/18/22 19:15	7.818	341.5	13.27	19.19	29.29	0
7/18/22 19:30	7.575	346.6	11.68	18.8	29.29	0
7/18/22 19:45	7.702	339.5	7.816	18.35	29.29	0
7/18/22 20:00	8.05	336	6.444	18.1	29.29	0
7/18/22 20:15	7.381	341.5	14.87	17.69	29.29	0
7/18/22 20:30	5.31	358.9	15.34	17.15	29.29	0
7/18/22 20:45	5.836	5.585	15.42	16.8	29.29	0
7/18/22 21:00	7.86	356.3	15.18	16.8	29.29	0
7/18/22 21:15	7.502	359.8	16.32	16.61	29.29	0
7/18/22 21:30	9.06	356.8	18.33	16.58	29.28	0
7/18/22 21:45	10.2	355.2	16.96	16.49	29.28	0
7/18/22 22:00	9.24	354.4	17.72	16.34	29.28	0
7/18/22 22:15	9.25	5.477	16.84	16.05	29.28	0
7/18/22 22:30	8.94	4.174	17.9	15.94	29.28	0
7/18/22 22:45	10.53	0.168	18.3	15.85	29.28	0
7/18/22 23:00	10.9	1.093	16.84	15.74	29.28	0
7/18/22 23:15	10.1	358.7	17.66	15.73	29.28	0
7/18/22 23:30	9.09	358.9	14.54	15.65	29.28	0
7/18/22 23:45	8.24	1.344	14.98	15.37	29.28	0
7/19/22 0:00	7.05	4.386	17.33	15.16	29.29	0
7/19/22 0:15	8.13	9.16	18.36	15.3	29.29	0
7/19/22 0:30	9.84	13.51	14.19	15.02	29.29	0
7/19/22 0:45	11.51	8.25	11.4	14.75	29.29	0
7/19/22 1:00	11.78	3.216	17.27	14.65	29.29	0
7/19/22 1:15	12.35	3.831	15.17	14.67	29.29	0
7/19/22 1:30	11.99	358.3	18.18	14.44	29.29	0
7/19/22 1:45	9.74	7.181	18.68	14.19	29.28	0
7/19/22 2:00	10.44	13.66	10.87	13.61	29.28	0
7/19/22 2:15	8.67	19.99	11.32	13.44	29.28	0
7/19/22 2:30	10.07	14.83	10.39	13.34	29.28	0
7/19/22 2:45	12.1	9.65	10.83	13.36	29.28	0
7/19/22 3:00	9.66	4.363	16.01	13.22	29.28	0
7/19/22 3:15	8.05	5.35	12.95	12.91	29.27	0
7/19/22 3:30	9.29	13.52	11.4	12.73	29.27	0
7/19/22 3:45	7.793	11.32	13.23	12.62	29.27	0
7/19/22 4:00	6.766	9.91	9.57	12.48	29.27	0
7/19/22 4:15	5.525	18.34	10.32	12.24	29.27	0
7/19/22 4:30	6.363	30.87	10.15	12.06	29.27	0
7/19/22 4:45	5.61	9.05	10.3	11.89	29.27	0
7/19/22 5:00	5.184	357.3	12.24	11.82	29.27	0
7/19/22 5:15	6.075	354	11.6	11.88	29.27	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
7/19/22 5:30	4.161	4.571	9.67	12.19	29.27	0
7/19/22 5:45	2.564	12.97	6.889	12.25	29.27	0
7/19/22 6:00	4.709	15.67	6.374	12.19	29.28	0
7/19/22 6:15	5.079	18.23	7.375	12.19	29.27	0
7/19/22 6:30	4.55	13.87	7.811	12.57	29.27	0
7/19/22 6:45	4.574	16.47	8.77	12.9	29.27	0
7/19/22 7:00	4.034	23.44	9.92	13.42	29.27	0
7/19/22 7:15	3.133	20.13	7.798	14.17	29.28	0
7/19/22 7:30	2.78	24.13	12.53	15.03	29.28	0
7/19/22 7:45	2.102	34.01	20.59	15.9	29.28	0
7/19/22 8:00	2.568	29.05	16.93	16.66	29.28	0
7/19/22 8:15	3.186	16.62	23	17.17	29.28	0
7/19/22 8:30	2.841	7.447	19.56	17.82	29.27	0
7/19/22 8:45	2.854	350.4	23.15	18.47	29.27	0
7/19/22 9:00	2.931	12.62	17.82	19.04	29.27	0
7/19/22 9:15	3.724	325.8	23.46	19.67	29.27	0
7/19/22 9:30	4.464	317.4	30.39	20.37	29.26	0
7/19/22 9:45	5.475	339	20.85	20.7	29.25	0
7/19/22 10:00	6.343	0.654	32.89	21.67	29.25	0
7/19/22 10:15	7.252	353.2	22.13	21.76	29.25	0
7/19/22 10:30	7.239	338	22.22	22.19	29.25	0
7/19/22 10:45	7.485	344.2	19.36	22.33	29.25	0
7/19/22 11:00	6.208	303	29.91	23.1	29.25	0
7/19/22 11:15	6.164	303.6	16.56	23.29	29.24	0
7/19/22 11:30	7.799	291.6	17.62	23.7	29.24	0
7/19/22 11:45	5.757	312.6	25.5	23.76	29.24	0
7/19/22 12:00	7.122	337.7	22.12	23.97	29.24	0
7/19/22 12:15	6.137	298	32.17	24.12	29.24	0
7/19/22 12:30	7.782	286.4	15.99	24.45	29.23	0
7/19/22 12:45	9.66	289.3	13.12	24.68	29.23	0
7/19/22 13:00	8.65	285.5	14.68	25.07	29.22	0
7/19/22 13:15	8.41	286.3	16.91	25.85	29.22	0
7/19/22 13:30	10.65	288.5	11.62	25.69	29.22	0
7/19/22 13:45	8.33	301.2	15.71	26.13	29.22	0
7/19/22 14:00	9.37	296.6	11.99	26.14	29.22	0
7/19/22 14:15	10.2	308	12.89	26.34	29.21	0
7/19/22 14:30	9.82	300.6	11.67	26.35	29.21	0
7/19/22 14:45	10.49	304.1	14.85	26.31	29.21	0
7/19/22 15:00	10.52	298	11.07	26.56	29.21	0
7/19/22 15:15	9.59	300	9.73	26.49	29.21	0
7/19/22 15:30	8.82	307	20.79	26.69	29.21	0
7/19/22 15:45	7.716	318.8	23.76	26.95	29.21	0
7/19/22 16:00	8.37	299.9	11.41	26.83	29.21	0
7/19/22 16:15	7.868	307.2	16.37	26.71	29.21	0
7/19/22 16:30	8	318.1	21.02	26.83	29.2	0
7/19/22 16:45	8.51	340	16.58	26.33	29.2	0
7/19/22 17:00	7.826	342.4	15.55	26.26	29.19	0
7/19/22 17:15	8.99	337.8	20.97	26.14	29.19	0
7/19/22 17:30	8.64	323.2	12.71	25.9	29.19	0
7/19/22 17:45	7.286	319	15.52	25.98	29.19	0
7/19/22 18:00	7.643	324.7	20.52	25.67	29.19	0
7/19/22 18:15	7.733	310.4	13.78	25.46	29.19	0
7/19/22 18:30	7.963	299.2	7.456	25.14	29.19	0
7/19/22 18:45	7.493	305	9.41	24.84	29.19	0
7/19/22 19:00	6.746	306.2	10.52	24.41	29.19	0
7/19/22 19:15	6.208	320.1	22.46	24.12	29.19	0
7/19/22 19:30	3.98	324.7	21.93	23.64	29.19	0
7/19/22 19:45	2.809	333.3	19.37	22.85	29.19	0
7/19/22 20:00	2.99	293.1	18.03	22.4	29.19	0
7/19/22 20:15	3.3	326.1	14.19	22.26	29.2	0
7/19/22 20:30	3.051	346.6	13.61	21.95	29.2	0
7/19/22 20:45	4.621	351.8	15.1	21.49	29.2	0
7/19/22 21:00	7.528	348.9	13.8	21.1	29.21	0
7/19/22 21:15	5.46	347.9	11.6	20.28	29.21	0
7/19/22 21:30	6.122	359.9	17.25	19.81	29.21	0
7/19/22 21:45	8.17	13.23	7.626	19.21	29.21	0
7/19/22 22:00	7.713	15.37	8.29	18.76	29.21	0
7/19/22 22:15	7.786	10.31	10.39	18.78	29.21	0
7/19/22 22:30	8.05	8.88	10.62	18.63	29.22	0
7/19/22 22:45	9.65	0.388	13.9	18.92	29.22	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
7/19/22 23:00	8.58	357.8	16.54	19.12	29.22	0
7/19/22 23:15	10.04	4.976	14.69	18.79	29.22	0
7/19/22 23:30	9.27	12.89	11.59	18.41	29.22	0
7/19/22 23:45	10.29	9.88	11.66	17.88	29.22	0
7/20/22 0:00	10.23	9.71	12.01	17.56	29.22	0
7/20/22 0:15	9.83	10.78	9.27	17.35	29.23	0
7/20/22 0:30	11.69	11.03	11.44	17.1	29.23	0
7/20/22 0:45	10.54	13.6	13.09	16.83	29.23	0
7/20/22 1:00	8.33	15.9	9.03	16.5	29.23	0
7/20/22 1:15	8.96	17.14	9.49	16.27	29.23	0
7/20/22 1:30	7.993	13.68	9.29	16.14	29.23	0
7/20/22 1:45	6.973	18.19	7.848	15.9	29.23	0
7/20/22 2:00	5.833	25.25	7.049	15.92	29.23	0
7/20/22 2:15	4.718	25.54	9.98	15.74	29.24	0
7/20/22 2:30	4.673	21.56	7.771	15.48	29.24	0
7/20/22 2:45	4.652	25.07	7.169	15.29	29.24	0
7/20/22 3:00	4.046	31.27	10.34	15.3	29.24	0
7/20/22 3:15	4.144	36.9	10.33	15.31	29.24	0
7/20/22 3:30	4.012	25.56	13.46	15.42	29.24	0
7/20/22 3:45	4.181	6.286	11.44	15.41	29.24	0
7/20/22 4:00	3.488	21.01	11.85	15.4	29.24	0
7/20/22 4:15	2.977	9.18	6.925	15.5	29.25	0
7/20/22 4:30	2.703	16.77	6.419	15.22	29.25	0
7/20/22 4:45	2.98	10.7	7.275	14.91	29.25	0
7/20/22 5:00	2.121	16.23	8.61	15.1	29.25	0
7/20/22 5:15	1.282	28.25	10.51	15.12	29.25	0
7/20/22 5:30	1.268	74.54	28.16	15.42	29.25	0
7/20/22 5:45	0.734	88.8	26.73	16.26	29.26	0
7/20/22 6:00	0.729	42.05	8.63	17.02	29.26	0
7/20/22 6:15	1.129	48.59	14.6	17.59	29.26	0
7/20/22 6:30	1.594	168.6	31.47	17.73	29.27	0
7/20/22 6:45	3.274	154	16.38	17.64	29.27	0
7/20/22 7:00	2.842	155.1	15.68	17.74	29.27	0
7/20/22 7:15	2.06	157.2	22.86	18.2	29.28	0
7/20/22 7:30	2.255	159.4	31.16	18.79	29.28	0
7/20/22 7:45	2.823	182.7	23.47	19.02	29.28	0
7/20/22 8:00	3.266	206.2	19.71	19.25	29.29	0
7/20/22 8:15	2.514	195.3	59.37	19.86	29.29	0
7/20/22 8:30	2.682	185.4	25.71	20.37	29.29	0
7/20/22 8:45	2.266	184	29.84	20.9	29.29	0
7/20/22 9:00	2.894	222.9	51.61	21.47	29.29	0
7/20/22 9:15	3.471	170.8	23.91	21.72	29.29	0
7/20/22 9:30	2.936	211.9	46.42	22.11	29.29	0
7/20/22 9:45	4.133	286.6	36.24	22.48	29.29	0
7/20/22 10:00	3.36	295.7	44.18	22.8	29.29	0
7/20/22 10:15	5.235	287.3	20	23.29	29.29	0
7/20/22 10:30	3.334	264.7	33.03	23.78	29.28	0
7/20/22 10:45	5.207	232.5	22.86	23.82	29.28	0
7/20/22 11:00	5.163	245	25.89	24.31	29.28	0
7/20/22 11:15	4.536	260.7	44.69	24.57	29.28	0
7/20/22 11:30	5.999	255.9	25.27	25.22	29.28	0
7/20/22 11:45	5.209	240.6	44.36	25.37	29.27	0
7/20/22 12:00	5.862	234.6	29.49	25.76	29.27	0
7/20/22 12:15	6.821	246.5	31.97	25.95	29.27	0
7/20/22 12:30	5.537	257.4	31.89	26.12	29.27	0
7/20/22 12:45	8.03	239.3	24.43	26.41	29.27	0
7/20/22 13:00	6.153	247.7	28.04	26.7	29.26	0
7/20/22 13:15	7.69	263.4	13.42	26.8	29.26	0
7/20/22 13:30	7.266	239.7	22.08	26.98	29.26	0
7/20/22 13:45	7.463	241.6	15.33	27.2	29.26	0
7/20/22 14:00	7.859	239.1	23.5	27.5	29.26	0
7/20/22 14:15	8.15	239.3	17.44	27.65	29.26	0
7/20/22 14:30	6.595	262.6	16.63	27.7	29.26	0
7/20/22 14:45	8.04	236.6	19.94	27.92	29.25	0
7/20/22 15:00	5.251	271.8	47.31	27.86	29.25	0
7/20/22 15:15	4.921	294.5	19.97	28.21	29.25	0
7/20/22 15:30	5.275	279.9	24.6	28.04	29.25	0
7/20/22 15:45	6.741	271.1	17.89	28.05	29.24	0
7/20/22 16:00	5.927	287.5	23.66	28.34	29.24	0
7/20/22 16:15	6.243	268.5	27.64	28.44	29.24	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
7/20/22 16:30	6.025	284.8	22.72	28.42	29.23	0
7/20/22 16:45	6.126	290.8	15.62	28.25	29.23	0
7/20/22 17:00	5.829	265.7	22.39	28.23	29.23	0
7/20/22 17:15	6.975	268.5	24.84	28.2	29.23	0
7/20/22 17:30	5.867	272.4	19.52	27.96	29.23	0
7/20/22 17:45	6.627	259.9	17.13	27.72	29.22	0
7/20/22 18:00	6.275	288.4	14.29	27.63	29.22	0
7/20/22 18:15	6.851	303.2	9.18	27.12	29.22	0
7/20/22 18:30	6.621	304.7	6.403	26.83	29.22	0
7/20/22 18:45	5.79	300.7	6.141	26.74	29.22	0
7/20/22 19:00	4.915	300.8	5.085	26.52	29.22	0
7/20/22 19:15	5.126	291.9	5.064	26.18	29.22	0
7/20/22 19:30	3.618	300.3	23.75	25.71	29.22	0
7/20/22 19:45	3.222	352.9	9.98	24.84	29.22	0
7/20/22 20:00	3.622	328.8	16.17	24.23	29.21	0
7/20/22 20:15	4.248	321.2	8.22	23.7	29.21	0
7/20/22 20:30	4.405	357.5	17.52	23.18	29.21	0
7/20/22 20:45	4.68	356	12.98	22.52	29.22	0
7/20/22 21:00	3.06	0.631	15.21	22.43	29.22	0
7/20/22 21:15	3.246	4.79	27.58	22.35	29.22	0
7/20/22 21:30	3.047	15.39	12.02	21.62	29.23	0
7/20/22 21:45	4.932	11.84	8.53	21.03	29.23	0
7/20/22 22:00	5.496	11.96	4.428	20.61	29.22	0
7/20/22 22:15	5.064	13.51	4.722	20.17	29.22	0
7/20/22 22:30	3.921	8.31	8.57	20.08	29.22	0
7/20/22 22:45	3.52	8.51	9.75	19.99	29.22	0
7/20/22 23:00	0.342	29.71	26.37	19.67	29.22	0
7/20/22 23:15	2.161	156.5	20	19.32	29.22	0
7/20/22 23:30	1.34	117.5	36.42	19.74	29.22	0
7/20/22 23:45	1.344	118.5	33.83	19.82	29.22	0
7/21/22 0:00	3.217	126.8	10.89	19.31	29.22	0
7/21/22 0:15	3.854	130.5	4.454	18.99	29.22	0
7/21/22 0:30	4.333	123.5	6.401	18.21	29.22	0
7/21/22 0:45	8.36	142.7	3.747	17.6	29.23	0
7/21/22 1:00	6.495	154.4	4.849	17.31	29.23	0
7/21/22 1:15	6.076	138.4	8.25	17.41	29.23	0
7/21/22 1:30	3.848	113.8	7.998	17.46	29.23	0
7/21/22 1:45	4.869	124.2	6.613	17.28	29.23	0
7/21/22 2:00	4.413	147.9	13.01	16.88	29.23	0
7/21/22 2:15	3.666	162.2	8.62	17.08	29.23	0
7/21/22 2:30	1.841	137	21.18	17.22	29.23	0
7/21/22 2:45	2.191	140.8	18.23	17.26	29.23	0
7/21/22 3:00	3.646	174.1	8.9	17.11	29.23	0
7/21/22 3:15	3.574	163.3	6.865	17.01	29.24	0
7/21/22 3:30	3.553	162.2	4.485	16.53	29.24	0
7/21/22 3:45	3.772	160.7	8.53	15.91	29.24	0
7/21/22 4:00	5.135	165.4	4.215	15.98	29.24	0
7/21/22 4:15	4.381	158.3	11.18	15.74	29.24	0
7/21/22 4:30	3.985	145.9	5.433	15.43	29.24	0
7/21/22 4:45	4.586	151.6	8.89	15.11	29.24	0
7/21/22 5:00	6.299	172.8	2.848	15.04	29.24	0
7/21/22 5:15	4.946	164.3	6.939	14.88	29.24	0
7/21/22 5:30	2.827	143.9	5.019	14.92	29.24	0
7/21/22 5:45	3.336	168.8	12.36	15.25	29.24	0
7/21/22 6:00	2.91	176.8	8.32	15.47	29.24	0
7/21/22 6:15	3.092	168.2	11.66	15.49	29.25	0
7/21/22 6:30	3.288	166.5	11.28	15.51	29.25	0
7/21/22 6:45	3.64	169.3	9.8	15.51	29.25	0
7/21/22 7:00	3.427	180.6	18.5	16.12	29.25	0
7/21/22 7:15	3.887	204.6	15.23	16.18	29.25	0
7/21/22 7:30	3.287	209.5	31.71	16.63	29.26	0
7/21/22 7:45	3.526	205.2	28.03	16.96	29.26	0
7/21/22 8:00	3.27	198.6	31.36	17.25	29.26	0
7/21/22 8:15	3.376	161.2	28.91	17.78	29.26	0
7/21/22 8:30	3.795	171.7	43.52	18.11	29.25	0
7/21/22 8:45	3.816	213.9	40.03	18.65	29.26	0
7/21/22 9:00	3.971	250.6	35.57	18.96	29.25	0
7/21/22 9:15	5.35	224.3	27.38	19.34	29.25	0
7/21/22 9:30	5.468	232.6	22.21	19.68	29.25	0
7/21/22 9:45	4.293	212.3	35.79	20.05	29.25	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
7/21/22 10:00	5.882	225.4	24.99	20.12	29.25	0
7/21/22 10:15	5.94	246.8	29.02	20.72	29.25	0
7/21/22 10:30	6.307	251.1	16.4	20.84	29.25	0
7/21/22 10:45	6.334	265.9	23.37	21.07	29.25	0
7/21/22 11:00	5.728	260.1	13.07	21.11	29.25	0
7/21/22 11:15	4.702	263.9	31.87	21.82	29.24	0
7/21/22 11:30	5.456	208.7	25.71	22.39	29.24	0
7/21/22 11:45	5.324	241.7	45.68	22.62	29.23	0
7/21/22 12:00	5.642	234.5	28.89	22.98	29.23	0
7/21/22 12:15	5.755	228.2	22.39	23.3	29.23	0
7/21/22 12:30	5.205	249.3	23.12	23.34	29.22	0
7/21/22 12:45	5.709	264.1	15.48	23.96	29.22	0
7/21/22 13:00	5.076	274.9	22.45	24.16	29.22	0
7/21/22 13:15	6.236	270.7	28.14	24.67	29.21	0
7/21/22 13:30	6.971	263.4	16.7	25.01	29.21	0
7/21/22 13:45	6.661	261	25.57	24.93	29.21	0
7/21/22 14:00	8.26	257.4	14.72	24.93	29.21	0
7/21/22 14:15	6.343	260.7	14.11	25.02	29.2	0
7/21/22 14:30	7.229	257.5	18.86	25.23	29.2	0
7/21/22 14:45	7.243	257.2	14.64	25.49	29.2	0
7/21/22 15:00	6.028	263	19.94	25.41	29.19	0
7/21/22 15:15	6.837	249	11.94	25.54	29.19	0
7/21/22 15:30	6.172	257.8	16.54	25.63	29.18	0
7/21/22 15:45	6.967	252.1	18.95	25.87	29.18	0
7/21/22 16:00	7.395	264.3	12.17	25.75	29.18	0
7/21/22 16:15	6.787	268.4	20.4	25.92	29.18	0
7/21/22 16:30	6.928	265.4	19.26	26.12	29.17	0
7/21/22 16:45	7.016	245.9	16.13	26.08	29.17	0
7/21/22 17:00	7.012	249.1	18.62	26.07	29.17	0
7/21/22 17:15	7.824	260	17.55	25.99	29.16	0
7/21/22 17:30	7.393	254.1	11.12	25.81	29.16	0
7/21/22 17:45	6.074	246	15.3	25.76	29.16	0
7/21/22 18:00	6.871	256.3	12.13	25.65	29.15	0
7/21/22 18:15	5.911	262	13.46	25.54	29.15	0
7/21/22 18:30	6.26	266.6	10.53	25.21	29.15	0
7/21/22 18:45	6.209	254.4	10.01	24.95	29.15	0
7/21/22 19:00	6.893	254	8.92	24.57	29.15	0
7/21/22 19:15	7.284	251.4	7.039	24.3	29.15	0
7/21/22 19:30	5.565	247.8	5.703	23.96	29.15	0
7/21/22 19:45	7.082	245.1	4.791	23.44	29.16	0
7/21/22 20:00	7.038	251.3	6.747	22.89	29.16	0
7/21/22 20:15	7.861	251.5	7.429	22.21	29.16	0
7/21/22 20:30	9.03	246.9	7.105	21.57	29.16	0
7/21/22 20:45	7.64	255.4	7.66	20.97	29.17	0
7/21/22 21:00	7.369	243	6.603	20.4	29.17	0
7/21/22 21:15	6.257	232.7	8.92	19.93	29.18	0
7/21/22 21:30	6.972	218.2	7.673	19.53	29.18	0
7/21/22 21:45	7.962	213.3	6.926	19.22	29.18	0
7/21/22 22:00	8.48	203.2	5.554	18.64	29.19	0
7/21/22 22:15	7.006	206.9	5.782	17.9	29.19	0
7/21/22 22:30	7.975	203.6	8.56	17.37	29.19	0
7/21/22 22:45	7.422	218.1	6.171	16.87	29.2	0
7/21/22 23:00	4.467	211.6	9.46	16.55	29.2	0
7/21/22 23:15	4.375	206.6	10.22	16.21	29.2	0
7/21/22 23:30	4.311	203.1	6.299	15.91	29.2	0
7/21/22 23:45	4.253	189.2	8.3	15.72	29.2	0
7/22/22 0:00	5.337	196.3	6.57	15.53	29.2	0
7/22/22 0:15	5.075	205.6	7.208	15.28	29.21	0
7/22/22 0:30	5.312	206.9	4.972	15.03	29.21	0
7/22/22 0:45	4.69	201.2	8.46	14.69	29.21	0
7/22/22 1:00	4.026	189	7.045	14.4	29.22	0
7/22/22 1:15	4.386	191.9	8.05	14.32	29.22	0
7/22/22 1:30	4.759	179.9	11.01	13.97	29.22	0
7/22/22 1:45	5.329	173.5	8.72	13.79	29.22	0
7/22/22 2:00	6.619	168.7	7.167	13.82	29.23	0
7/22/22 2:15	6.542	158.1	11.67	13.71	29.23	0
7/22/22 2:30	6.698	167.4	6.137	13.66	29.23	0
7/22/22 2:45	6.417	161	12.15	13.57	29.23	0
7/22/22 3:00	7.403	166.3	7.95	13.44	29.23	0
7/22/22 3:15	6.391	167	7.627	13.46	29.24	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
7/22/22 3:30	5.601	150.2	16.51	13.43	29.24	0
7/22/22 3:45	6.617	147.3	12.72	13.35	29.24	0
7/22/22 4:00	6.087	145.7	23	13.39	29.25	0
7/22/22 4:15	6.185	167	9.74	13.39	29.25	0
7/22/22 4:30	6.911	168.2	10.34	13.32	29.25	0
7/22/22 4:45	7.195	159.7	9.52	13.25	29.26	0
7/22/22 5:00	7.475	176.4	7.815	13.34	29.26	0
7/22/22 5:15	6.884	170.3	11.07	13.37	29.26	0
7/22/22 5:30	8.23	164.3	15.57	13.29	29.26	0
7/22/22 5:45	7.462	146.6	8.64	12.96	29.26	0
7/22/22 6:00	6.784	145.5	8.42	12.92	29.27	0
7/22/22 6:15	5.707	139.4	10.27	12.84	29.27	0
7/22/22 6:30	5.996	125	7.767	12.8	29.28	0
7/22/22 6:45	6.132	123.7	7.769	12.93	29.28	0
7/22/22 7:00	6.058	124.3	8.54	12.94	29.28	0
7/22/22 7:15	6.35	137.6	8.46	13.01	29.28	0
7/22/22 7:30	6.779	142	12.52	13.05	29.28	0
7/22/22 7:45	6.065	139.4	11.49	13.11	29.29	0
7/22/22 8:00	6.578	140.2	7.392	13.1	29.29	0
7/22/22 8:15	5.355	161.6	19.83	13.56	29.29	0
7/22/22 8:30	5.124	166.3	14.74	13.99	29.29	0
7/22/22 8:45	4.177	149.9	25.17	14.28	29.29	0
7/22/22 9:00	4.329	168	21.22	14.26	29.29	0
7/22/22 9:15	4.031	133.7	17.58	14.43	29.3	0
7/22/22 9:30	4.698	141.2	30.79	14.97	29.3	0
7/22/22 9:45	6.073	116.6	9.18	15.23	29.3	0
7/22/22 10:00	5.799	119.4	26.39	15.8	29.3	0
7/22/22 10:15	5.422	157	26.59	16	29.3	0
7/22/22 10:30	4.695	176.6	23.47	16	29.3	0
7/22/22 10:45	6.71	136.4	13.64	16	29.3	0
7/22/22 11:00	5.4	135.9	15.83	16.38	29.3	0
7/22/22 11:15	4.304	147.5	21.51	16.76	29.3	0
7/22/22 11:30	3.734	175.5	24.92	16.74	29.3	0
7/22/22 11:45	4.448	234.9	24.17	17.03	29.3	0
7/22/22 12:00	3.789	224.2	31.61	17.17	29.3	0
7/22/22 12:15	4.526	185.2	34.56	17.47	29.3	0
7/22/22 12:30	4.695	157.8	29.58	17.9	29.3	0
7/22/22 12:45	4.296	158.5	58.3	18.78	29.3	0
7/22/22 13:00	4.665	242.6	23.42	18.26	29.3	0
7/22/22 13:15	5.539	224.2	18.63	18.78	29.3	0
7/22/22 13:30	2.487	279.1	91.4	18.94	29.29	0
7/22/22 13:45	5.173	206.1	58.24	19.82	29.29	0
7/22/22 14:00	3.409	213.7	66.37	20.34	29.28	0
7/22/22 14:15	3.725	250	58.33	20.64	29.28	0
7/22/22 14:30	4.768	265.2	35.33	20.77	29.28	0
7/22/22 14:45	2.866	243.5	61.22	21.34	29.28	0
7/22/22 15:00	4.318	304.6	28.79	21.32	29.28	0
7/22/22 15:15	5.122	271.3	46.18	21.55	29.27	0
7/22/22 15:30	7.984	255.1	21.31	21.64	29.27	0
7/22/22 15:45	8.59	259.3	16.68	21.5	29.27	0
7/22/22 16:00	7.147	258.9	14.04	21.7	29.27	0
7/22/22 16:15	7.389	264.7	16	21.75	29.27	0
7/22/22 16:30	7.634	263	16.06	21.56	29.27	0
7/22/22 16:45	6.937	257	14.03	21.73	29.27	0
7/22/22 17:00	5.55	260.5	29.12	21.82	29.27	0
7/22/22 17:15	6.38	256.8	13.76	21.59	29.26	0
7/22/22 17:30	6.18	259.2	16.28	21.54	29.26	0
7/22/22 17:45	5.58	264.6	15.57	21.42	29.26	0
7/22/22 18:00	5.442	262.1	21.53	21.45	29.26	0
7/22/22 18:15	5.915	273	14.69	21.15	29.26	0
7/22/22 18:30	5.273	264.2	17.17	21.03	29.26	0
7/22/22 18:45	4.276	238.6	19.82	20.93	29.26	0
7/22/22 19:00	5	222.5	8.08	20.68	29.26	0
7/22/22 19:15	5.365	222.1	6.916	20.4	29.26	0
7/22/22 19:30	5.08	230.1	5.484	20.16	29.26	0
7/22/22 19:45	4.074	230.4	4.556	19.79	29.26	0
7/22/22 20:00	4.138	234.2	2.811	19.46	29.26	0
7/22/22 20:15	4.965	242.6	6.551	19.07	29.27	0
7/22/22 20:30	4.955	271.8	16.68	18.38	29.27	0
7/22/22 20:45	6.046	303.6	11.53	17.45	29.27	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
7/22/22 21:00	5.991	281.2	3.675	17.54	29.27	0
7/22/22 21:15	5.538	270.9	7.494	17.43	29.28	0
7/22/22 21:30	5.624	255.2	6.893	17.11	29.28	0
7/22/22 21:45	4.454	242	9.17	16.77	29.28	0
7/22/22 22:00	2.935	301.4	34.92	16.24	29.29	0
7/22/22 22:15	4.231	277.2	10.66	16.06	29.29	0
7/22/22 22:30	4.112	256	9.92	15.86	29.29	0
7/22/22 22:45	2.999	245.5	4.521	15.66	29.29	0
7/22/22 23:00	2.138	297.7	57.88	15.38	29.29	0
7/22/22 23:15	1.431	12.3	12.21	15.18	29.29	0
7/22/22 23:30	2.921	54.64	8.33	15.04	29.29	0
7/22/22 23:45	2.365	55.44	10.06	14.6	29.29	0
7/23/22 0:00	1.211	20.46	22.9	14.66	29.29	0
7/23/22 0:15	1.314	351.3	32.92	14.63	29.29	0
7/23/22 0:30	2.452	227.4	13.29	15.07	29.29	0
7/23/22 0:45	1.795	310.7	32.45	14.85	29.29	0
7/23/22 1:00	3.618	268.2	22.38	14.78	29.29	0
7/23/22 1:15	3.199	287	13.42	14.64	29.29	0
7/23/22 1:30	4.146	271.2	12.36	14.43	29.29	0
7/23/22 1:45	4.1	268.1	8.85	14.39	29.29	0
7/23/22 2:00	1.615	329.6	57.86	14.24	29.29	0
7/23/22 2:15	2.601	22.44	10.61	13.77	29.29	0
7/23/22 2:30	3.562	22.21	10.33	13.6	29.29	0
7/23/22 2:45	3.532	28.25	17.83	13.42	29.29	0
7/23/22 3:00	4.221	23.56	11.71	13.19	29.29	0
7/23/22 3:15	3.333	19.3	10.54	12.99	29.29	0
7/23/22 3:30	2.818	16.59	9.08	12.8	29.3	0
7/23/22 3:45	1.55	17.03	11.34	12.68	29.3	0
7/23/22 4:00	2.556	19.88	8.13	12.59	29.29	0
7/23/22 4:15	4.205	26.24	9.19	12.59	29.29	0
7/23/22 4:30	3.579	30.93	10.16	12.62	29.29	0
7/23/22 4:45	3.375	25.25	10.73	12.65	29.3	0
7/23/22 5:00	2.216	14.16	14.31	12.73	29.3	0
7/23/22 5:15	3.272	24.07	20.68	12.75	29.3	0
7/23/22 5:30	3.7	23.51	11.09	12.73	29.3	0
7/23/22 5:45	3.437	27.56	8.53	12.72	29.31	0
7/23/22 6:00	1.992	8.06	9.34	12.8	29.31	0
7/23/22 6:15	0.972	20.16	4.589	12.96	29.31	0
7/23/22 6:30	3.343	20.53	7.61	12.92	29.31	0
7/23/22 6:45	3.509	21.39	9.56	12.87	29.32	0
7/23/22 7:00	4.032	19.39	5.36	12.92	29.32	0
7/23/22 7:15	4.749	24.64	8.51	12.89	29.32	0
7/23/22 7:30	4.417	23.84	12.72	13.04	29.33	0
7/23/22 7:45	3.757	28.6	8.01	13.35	29.33	0
7/23/22 8:00	4.138	23.97	12.3	13.48	29.33	0
7/23/22 8:15	3.033	6.92	17.51	13.75	29.33	0
7/23/22 8:30	2.343	345.6	13.31	13.75	29.33	0
7/23/22 8:45	1.286	8.09	23.44	13.97	29.33	0
7/23/22 9:00	1.182	358.1	16.96	14.28	29.33	0
7/23/22 9:15	1.275	346.5	26.01	14.65	29.33	0
7/23/22 9:30	1.466	7.434	27.52	14.97	29.33	0
7/23/22 9:45	2.251	279.3	30.03	15.07	29.33	0
7/23/22 10:00	2.7	288.9	31.28	15.17	29.33	0
7/23/22 10:15	3.681	277.7	19.02	15.33	29.33	0
7/23/22 10:30	3.28	242.2	26.59	15.53	29.33	0
7/23/22 10:45	2.857	290.6	47.49	15.79	29.33	0
7/23/22 11:00	1.906	236.4	29.19	16.19	29.33	0
7/23/22 11:15	2.49	247.6	51.82	16.39	29.33	0
7/23/22 11:30	2.15	272	61.59	16.65	29.33	0
7/23/22 11:45	2.491	314.5	36.84	16.91	29.33	0
7/23/22 12:00	4.337	285.2	17.56	16.9	29.33	0
7/23/22 12:15	4.791	268.3	19.33	17.22	29.33	0
7/23/22 12:30	4.657	282.7	18.21	17.22	29.33	0
7/23/22 12:45	3.956	299	23.77	17.34	29.33	0
7/23/22 13:00	3.6	303.3	28.22	17.71	29.33	0
7/23/22 13:15	2.772	326.2	19.51	18.14	29.33	0
7/23/22 13:30	1.383	2.163	74.41	18.49	29.32	0
7/23/22 13:45	2.574	311.2	88.2	19.88	29.32	0
7/23/22 14:00	2.997	82.3	43.73	19.56	29.32	0
7/23/22 14:15	4.567	90.3	43.65	18.99	29.31	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
7/23/22 14:30	2.756	170.3	36.88	18.82	29.31	0
7/23/22 14:45	2.88	333.8	31.71	19.62	29.31	0
7/23/22 15:00	2.717	227.3	37.37	19.34	29.31	0
7/23/22 15:15	1.903	184.7	73.59	19.54	29.31	0
7/23/22 15:30	1.199	270.4	72.29	19.85	29.3	0
7/23/22 15:45	3.335	302.8	34.16	20.66	29.3	0
7/23/22 16:00	3.452	299.8	33.11	20.83	29.3	0
7/23/22 16:15	3.946	293.7	35.9	21.23	29.3	0
7/23/22 16:30	5.894	289.6	19.07	21.39	29.3	0
7/23/22 16:45	4.437	302	21.05	21.3	29.3	0
7/23/22 17:00	5.149	291	24.18	21.59	29.3	0
7/23/22 17:15	6.545	295.5	11.4	21.16	29.29	0
7/23/22 17:30	5.748	295.9	14.29	20.99	29.29	0
7/23/22 17:45	6.113	286	19.26	21.2	29.29	0
7/23/22 18:00	6.276	287.3	10.61	21.27	29.29	0
7/23/22 18:15	6.025	304.1	17.58	21.19	29.29	0
7/23/22 18:30	5.594	303.8	7.995	21.08	29.29	0
7/23/22 18:45	4.346	321.2	9.91	20.86	29.29	0
7/23/22 19:00	4.037	320.5	11.67	20.61	29.29	0
7/23/22 19:15	6.272	309.8	5.749	20.02	29.29	0
7/23/22 19:30	5.766	313.4	4.124	19.59	29.29	0
7/23/22 19:45	5.28	314.3	3.228	19.15	29.29	0
7/23/22 20:00	5.661	311.3	3.372	18.54	29.29	0
7/23/22 20:15	6.263	304.7	2.785	18.29	29.29	0
7/23/22 20:30	4.787	317.9	4.384	18.28	29.3	0
7/23/22 20:45	3.406	335.3	14.09	18.22	29.3	0
7/23/22 21:00	0.632	26.37	4.178	17.65	29.3	0
7/23/22 21:15	1.029	43.01	13.13	17.45	29.3	0
7/23/22 21:30	1.972	28.64	12.09	17.38	29.3	0
7/23/22 21:45	3.766	21	5.964	17.33	29.3	0
7/23/22 22:00	1.849	33.29	12.78	16.59	29.3	0
7/23/22 22:15	2.598	43.17	9.77	16.6	29.3	0
7/23/22 22:30	3.827	38.77	5.932	16.37	29.29	0
7/23/22 22:45	4.611	38.17	4.459	16.18	29.29	0
7/23/22 23:00	3.604	38.16	5.951	16.03	29.3	0
7/23/22 23:15	2.508	43.91	12.7	15.7	29.3	0
7/23/22 23:30	4.049	35.96	7.194	15.01	29.29	0
7/23/22 23:45	4.752	33.79	4.4	15.07	29.29	0
7/24/22 0:00	4.918	37.51	9.08	14.87	29.29	0
7/24/22 0:15	4.755	35.96	9.78	15.16	29.29	0
7/24/22 0:30	4.417	49.96	5.947	15.18	29.29	0
7/24/22 0:45	4.27	29.87	6.869	15.46	29.29	0
7/24/22 1:00	3.058	42.84	8.22	15.4	29.3	0
7/24/22 1:15	0.168	52.53	1.082	14.99	29.3	0
7/24/22 1:30	0.65	97.9	22.58	14.94	29.3	0
7/24/22 1:45	2.044	192.4	6.193	14.53	29.3	0
7/24/22 2:00	1.034	118.4	40.37	14.58	29.3	0
7/24/22 2:15	0.032	57.58	0.117	14.45	29.3	0
7/24/22 2:30	0.13	63.56	1.42	14.33	29.3	0
7/24/22 2:45	0.217	34.57	0.779	14.16	29.3	0
7/24/22 3:00	0	0	0	14.07	29.31	0
7/24/22 3:15	0.083	300.1	10.12	14.04	29.31	0
7/24/22 3:30	1.502	281.8	21.95	13.83	29.31	0
7/24/22 3:45	2.054	234.8	5.251	13.73	29.3	0
7/24/22 4:00	0.341	259.3	2.425	13.85	29.3	0
7/24/22 4:15	0	0	0	13.88	29.3	0
7/24/22 4:30	0	0	0	13.79	29.31	0
7/24/22 4:45	0.222	34.37	12.56	13.56	29.3	0
7/24/22 5:00	1.275	73.31	7.876	13.35	29.31	0
7/24/22 5:15	1.146	78.79	4.006	13.52	29.31	0
7/24/22 5:30	1.114	70.13	1.809	14.23	29.31	0
7/24/22 5:45	0.458	67.38	0.315	15.38	29.31	0
7/24/22 6:00	0.505	29.45	7.175	15.95	29.31	0
7/24/22 6:15	1.154	37.45	20.75	15.54	29.31	0
7/24/22 6:30	1.453	80.4	7.157	15.7	29.31	0
7/24/22 6:45	0.474	122	19.11	16.24	29.31	0
7/24/22 7:00	1.557	335.6	42.37	16.83	29.31	0
7/24/22 7:15	1.392	344.6	47.32	17.25	29.31	0
7/24/22 7:30	1.196	59.89	41.42	17.99	29.31	0
7/24/22 7:45	1.743	331.9	34.86	18.2	29.31	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
7/24/22 8:00	3.158	313.8	26.16	18.21	29.31	0
7/24/22 8:15	2.9	316	40.5	18.43	29.31	0
7/24/22 8:30	2.503	285.1	48.47	18.96	29.31	0
7/24/22 8:45	2.963	317.6	27.76	19.4	29.31	0
7/24/22 9:00	2.989	291.4	47.7	20.1	29.3	0
7/24/22 9:15	3.535	297.4	45.27	20.75	29.3	0
7/24/22 9:30	2.819	310.2	36.08	21.18	29.3	0
7/24/22 9:45	4.867	303.5	20.41	21.49	29.3	0
7/24/22 10:00	4.833	270.8	24.64	21.65	29.29	0
7/24/22 10:15	6.808	275.1	24.26	22.09	29.29	0
7/24/22 10:30	7.311	275.3	19.95	22.56	29.29	0
7/24/22 10:45	7.778	318.8	24.73	23.57	29.29	0
7/24/22 11:00	7.812	315.3	20.6	23.79	29.29	0
7/24/22 11:15	8.68	305.6	14.91	24.16	29.29	0
7/24/22 11:30	8.56	307.7	13.69	24.16	29.28	0
7/24/22 11:45	7.638	305.1	17.72	24.58	29.28	0
7/24/22 12:00	6.831	290.2	12.77	24.74	29.28	0
7/24/22 12:15	7.509	309.8	31.1	25.14	29.28	0
7/24/22 12:30	6.792	294.7	23.17	25.65	29.28	0
7/24/22 12:45	7.637	297.9	15.9	25.64	29.28	0
7/24/22 13:00	6.718	304.6	22.24	25.97	29.27	0
7/24/22 13:15	7.447	290.6	13.46	26.18	29.27	0
7/24/22 13:30	7.848	312.7	32.02	26.7	29.27	0
7/24/22 13:45	8.44	315.5	25.2	27.18	29.26	0
7/24/22 14:00	8.05	327.9	22.9	27.26	29.26	0
7/24/22 14:15	8.45	323.6	21.37	27.31	29.26	0
7/24/22 14:30	9.04	343	26.74	27.46	29.26	0
7/24/22 14:45	6.891	13.16	23.97	27.41	29.25	0
7/24/22 15:00	6.809	358.8	30.48	27.63	29.25	0
7/24/22 15:15	6.829	14	20.01	27.71	29.25	0
7/24/22 15:30	7.208	33.85	18.22	27.47	29.25	0
7/24/22 15:45	6.737	334	34.21	28.02	29.24	0
7/24/22 16:00	5.221	346.3	33.17	27.93	29.24	0
7/24/22 16:15	7.592	4.305	16.12	27.92	29.24	0
7/24/22 16:30	7.069	23.19	19.74	27.36	29.24	0
7/24/22 16:45	5.852	8.11	24.5	27.75	29.24	0
7/24/22 17:00	5.447	16.76	19.86	27.47	29.23	0
7/24/22 17:15	6.506	351	20.56	27.39	29.23	0
7/24/22 17:30	7.709	311.2	11.04	27.48	29.23	0
7/24/22 17:45	7.538	319.5	12.18	27.15	29.22	0
7/24/22 18:00	6.297	310.2	8.16	26.41	29.22	0
7/24/22 18:15	5.509	311.9	8.53	26.17	29.22	0
7/24/22 18:30	5.358	327.6	11.74	26.09	29.22	0
7/24/22 18:45	6.386	329.4	9.68	25.68	29.22	0
7/24/22 19:00	6.619	329.2	7.19	24.69	29.22	0
7/24/22 19:15	7.597	330.4	8.57	24.32	29.21	0
7/24/22 19:30	6.826	334.1	5.204	24.12	29.21	0
7/24/22 19:45	4.716	2.54	16.19	23.2	29.21	0
7/24/22 20:00	5.532	352.5	17.34	23.19	29.22	0
7/24/22 20:15	6.085	358.6	18.17	22.51	29.22	0
7/24/22 20:30	9.74	9.94	10.37	22.56	29.22	0
7/24/22 20:45	10.89	14.58	9.75	22.36	29.22	0
7/24/22 21:00	10.88	13.16	14.58	22.39	29.22	0
7/24/22 21:15	9.21	9.71	12.83	22.05	29.22	0
7/24/22 21:30	10.11	13.99	14.02	21.74	29.22	0
7/24/22 21:45	12.39	8.98	13.24	21.64	29.22	0
7/24/22 22:00	13.21	3.126	12.81	21.4	29.22	0
7/24/22 22:15	11.79	3.772	15.39	21.07	29.22	0
7/24/22 22:30	11.05	5.217	11.52	20.46	29.22	0
7/24/22 22:45	8	4.238	15.15	20.07	29.22	0
7/24/22 23:00	6.841	3.857	13.31	19.94	29.22	0
7/24/22 23:15	8.66	8.45	11.51	19.66	29.21	0
7/24/22 23:30	5.941	339.2	22.84	19.55	29.21	0
7/24/22 23:45	5.317	330	12.43	19.75	29.21	0
7/25/22 0:00	3.853	5.022	9.01	18.71	29.21	0
7/25/22 0:15	5.836	19.88	5.149	18.05	29.21	0
7/25/22 0:30	7.332	10.57	6.832	18.04	29.2	0
7/25/22 0:45	6.999	12.07	9.03	17.66	29.2	0
7/25/22 1:00	3.881	11.54	8.45	17.49	29.2	0
7/25/22 1:15	1.952	27.64	11.99	17.53	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/25/22 1:30	3.326	16.26	9.24	17.68	29.2	0
7/25/22 1:45	1.897	21.89	14.67	18.25	29.2	0
7/25/22 2:00	1.367	249.5	63.06	18.22	29.19	0
7/25/22 2:15	2.655	205.7	40.78	17.52	29.2	0
7/25/22 2:30	3.775	172.5	11.9	17.64	29.19	0
7/25/22 2:45	3.348	158.7	14.98	18.3	29.19	0
7/25/22 3:00	1.49	169.1	40.49	16.83	29.2	0
7/25/22 3:15	1.441	26.25	6.096	15.98	29.2	0
7/25/22 3:30	3.326	6.644	5.908	16.4	29.2	0
7/25/22 3:45	3.847	9.86	8.13	16.1	29.19	0
7/25/22 4:00	4.789	6.546	4.488	15.79	29.19	0
7/25/22 4:15	4.665	6.555	5.706	15.84	29.19	0
7/25/22 4:30	4.026	5.39	8.94	15.79	29.19	0
7/25/22 4:45	3.237	20.58	7.229	15.55	29.19	0
7/25/22 5:00	3.38	25.96	6.485	15.21	29.19	0
7/25/22 5:15	4.114	22.08	7.339	15.06	29.19	0
7/25/22 5:30	4.352	16.2	7.97	15.39	29.19	0
7/25/22 5:45	3.585	6.367	10.25	15.6	29.19	0
7/25/22 6:00	2.601	14.27	15.38	16.02	29.19	0
7/25/22 6:15	3.265	25.77	18.2	16.3	29.19	0
7/25/22 6:30	4.181	19.91	14.06	15.99	29.19	0
7/25/22 6:45	3.014	29.51	7.17	16.55	29.19	0
7/25/22 7:00	3.348	12.41	9.71	17.18	29.19	0
7/25/22 7:15	2.789	23.11	10.14	18.33	29.19	0
7/25/22 7:30	2.956	21.02	10.2	18.96	29.19	0
7/25/22 7:45	3.005	38.74	16.69	19.72	29.19	0
7/25/22 8:00	3.149	39.9	17.14	20.49	29.18	0
7/25/22 8:15	3.556	6.048	25.71	21.11	29.18	0
7/25/22 8:30	3.88	25.72	18.45	21.31	29.18	0
7/25/22 8:45	3.533	25.8	13.21	21.81	29.18	0
7/25/22 9:00	3.862	11	20.81	22.46	29.18	0
7/25/22 9:15	4.193	14.29	24.91	22.78	29.18	0
7/25/22 9:30	4.547	12.65	20.56	23.58	29.17	0
7/25/22 9:45	3.758	9.89	26.04	23.83	29.17	0
7/25/22 10:00	3.77	358.3	31.56	24.21	29.17	0
7/25/22 10:15	4.297	5.389	25.67	24.63	29.17	0
7/25/22 10:30	4.697	359.7	53.83	25	29.17	0
7/25/22 10:45	3.161	315.9	44.48	25.88	29.16	0
7/25/22 11:00	3.53	312.2	34.7	26.32	29.16	0
7/25/22 11:15	5.142	345.6	24.77	26.81	29.16	0
7/25/22 11:30	4.326	346.5	34.7	27.07	29.15	0
7/25/22 11:45	3.892	311.7	49.82	27.48	29.15	0
7/25/22 12:00	4.862	319.7	30.74	27.93	29.14	0
7/25/22 12:15	6.475	306	16.95	28.44	29.14	0
7/25/22 12:30	6.163	297.7	17.95	28.22	29.13	0
7/25/22 12:45	7.091	297.7	20.94	28.91	29.13	0
7/25/22 13:00	5.772	299.9	21.77	29.24	29.12	0
7/25/22 13:15	5.312	330.6	24.62	29.33	29.12	0
7/25/22 13:30	4.018	298.1	37.6	29.69	29.11	0
7/25/22 13:45	7.03	272.3	21.71	29.71	29.11	0
7/25/22 14:00	7.376	290.2	31.88	29.75	29.11	0
7/25/22 14:15	5.923	287.8	19.04	30.13	29.11	0
7/25/22 14:30	6.823	355.9	37.76	30.04	29.1	0
7/25/22 14:45	7.884	17.77	14.25	30.03	29.1	0
7/25/22 15:00	5.879	359.3	23.73	30.46	29.09	0
7/25/22 15:15	5.964	333.9	25.68	30.86	29.09	0
7/25/22 15:30	6.371	348.5	20.89	30.66	29.09	0
7/25/22 15:45	5.764	354.6	22.86	30.81	29.08	0
7/25/22 16:00	6.603	1.249	22.97	30.79	29.08	0
7/25/22 16:15	7.15	355.7	21.05	30.51	29.08	0
7/25/22 16:30	9.14	1.465	14.56	30.25	29.07	0
7/25/22 16:45	7.489	347.9	23.35	30.48	29.07	0
7/25/22 17:00	7.965	348.3	19.2	30.29	29.07	0
7/25/22 17:15	6.396	332.8	28.15	30.27	29.07	0
7/25/22 17:30	7.745	302.2	8.16	30.05	29.06	0
7/25/22 17:45	6.907	312.9	14.28	29.95	29.06	0
7/25/22 18:00	7.288	310.7	13.56	29.68	29.06	0
7/25/22 18:15	7.581	321.4	14.2	29.33	29.05	0
7/25/22 18:30	8.05	313.6	8.46	28.81	29.05	0
7/25/22 18:45	7.298	316.9	9.76	28.49	29.05	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
7/25/22 19:00	6.319	315.1	12.44	28.18	29.05	0
7/25/22 19:15	4.922	308	16.35	27.8	29.05	0
7/25/22 19:30	5.239	313.9	23.31	27.22	29.05	0
7/25/22 19:45	5.968	298.1	9.25	26.65	29.05	0
7/25/22 20:00	6.388	314.6	9.76	25.98	29.05	0
7/25/22 20:15	5.909	338.4	16.81	25.86	29.05	0
7/25/22 20:30	7.408	4.71	13.83	25.04	29.06	0
7/25/22 20:45	5.819	18.88	9.2	23.77	29.06	0
7/25/22 21:00	8.46	12.92	13.65	23.56	29.06	0
7/25/22 21:15	10.2	7.29	13.13	23.98	29.06	0
7/25/22 21:30	10.5	4.046	14.02	23.72	29.06	0
7/25/22 21:45	8.8	11.44	10.58	23.75	29.06	0
7/25/22 22:00	8.39	14.98	11.95	23.69	29.06	0
7/25/22 22:15	8.19	11.29	10.89	23.57	29.06	0
7/25/22 22:30	7.698	21.54	8.13	22.61	29.06	0
7/25/22 22:45	8.22	16.87	7.137	21.98	29.06	0
7/25/22 23:00	7.7	24.3	7.702	21.46	29.06	0
7/25/22 23:15	5.355	13.71	12.02	21.42	29.06	0
7/25/22 23:30	4.623	4.141	11.22	21.15	29.06	0
7/25/22 23:45	4.229	358.6	11.76	21.29	29.06	0
7/26/22 0:00	2.419	13.14	11.38	21.19	29.06	0
7/26/22 0:15	2.824	46.27	27.27	20.46	29.06	0
7/26/22 0:30	4.271	48.15	14.96	19.51	29.06	0
7/26/22 0:45	1.765	71.55	42.83	19.22	29.06	0
7/26/22 1:00	1.114	121.1	52.71	20.46	29.06	0
7/26/22 1:15	0.406	280.3	40.43	20.75	29.06	0
7/26/22 1:30	1.004	151.3	41.76	20.74	29.06	0
7/26/22 1:45	2.769	144.3	5.299	20.47	29.06	0
7/26/22 2:00	3.296	146.8	5.088	20.08	29.06	0
7/26/22 2:15	2.011	107.4	23.24	19.75	29.06	0
7/26/22 2:30	1.307	54.3	4.244	19.72	29.06	0
7/26/22 2:45	1.893	14.24	11.65	20.01	29.06	0
7/26/22 3:00	1.76	346.7	6.747	19.6	29.06	0
7/26/22 3:15	0.31	343	0.156	19.69	29.07	0
7/26/22 3:30	0.455	343.3	0.133	19.77	29.07	0
7/26/22 3:45	1.407	11.04	17.87	19.42	29.07	0
7/26/22 4:00	0.664	26.49	1.123	19.14	29.07	0
7/26/22 4:15	1.405	24.76	2.376	19.69	29.07	0
7/26/22 4:30	0.613	18.43	1.003	19.88	29.07	0
7/26/22 4:45	0.908	88.5	8.37	19.49	29.07	0
7/26/22 5:00	2.36	101.9	9.24	19.07	29.07	0
7/26/22 5:15	1.126	102.8	5.565	20.11	29.07	0
7/26/22 5:30	0.824	13.91	21.27	19.77	29.08	0
7/26/22 5:45	1.736	19.45	2.669	19.52	29.08	0
7/26/22 6:00	1.13	349.7	26.07	20.31	29.08	0
7/26/22 6:15	0.615	342.4	4.692	20.98	29.08	0
7/26/22 6:30	0.387	18.67	12.04	22.07	29.09	0
7/26/22 6:45	1.186	3.842	39.89	22.2	29.09	0
7/26/22 7:00	1.285	22.16	12.12	22.42	29.09	0
7/26/22 7:15	1.262	27.53	18.54	22.75	29.09	0
7/26/22 7:30	2.19	15.46	19.97	23.2	29.09	0
7/26/22 7:45	2.505	29.56	11.09	23.25	29.09	0
7/26/22 8:00	2.257	6.043	21.66	23.97	29.09	0
7/26/22 8:15	2.418	13.4	25.07	25.08	29.09	0
7/26/22 8:30	2.76	37.74	20.92	25.13	29.09	0
7/26/22 8:45	3.137	35.07	16.5	25.55	29.09	0
7/26/22 9:00	3.525	30.78	18.09	25.63	29.09	0
7/26/22 9:15	2.744	22.52	17.57	25.96	29.09	0
7/26/22 9:30	3.89	11.29	29.33	26.6	29.09	0
7/26/22 9:45	5.557	26.36	14.15	26.67	29.1	0
7/26/22 10:00	5.012	35.25	12.68	26.58	29.1	0
7/26/22 10:15	4.88	42.55	21.45	27.28	29.1	0
7/26/22 10:30	3.422	48.33	30.05	27.7	29.1	0
7/26/22 10:45	3.037	21.28	33.62	28.68	29.09	0
7/26/22 11:00	3.068	349.3	37.08	28.92	29.09	0
7/26/22 11:15	3.379	290.6	35.82	29.61	29.09	0
7/26/22 11:30	5.194	257.6	26.97	29.83	29.09	0
7/26/22 11:45	4.765	276.1	30.77	29.92	29.09	0
7/26/22 12:00	5.261	260	28.93	30.31	29.09	0
7/26/22 12:15	4.457	236	39.75	30.73	29.09	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/26/22 12:30	5.817	261	24.4	30.85	29.08	0
7/26/22 12:45	4.552	284.3	27.47	31.31	29.08	0
7/26/22 13:00	4.243	273.7	32.24	31.55	29.08	0
7/26/22 13:15	5.809	243.9	17.9	31.57	29.08	0
7/26/22 13:30	4.016	277.5	22.99	32	29.08	0
7/26/22 13:45	5.189	230.1	26.11	32.5	29.08	0
7/26/22 14:00	5.375	249.6	32.21	32.63	29.08	0
7/26/22 14:15	4.213	282.6	23.57	32.72	29.07	0
7/26/22 14:30	5.473	274.5	22.08	33.01	29.07	0
7/26/22 14:45	5.429	261.6	26.02	33.2	29.07	0
7/26/22 15:00	5.684	260.4	17.32	33.36	29.07	0
7/26/22 15:15	6.345	250	25.89	33.37	29.07	0
7/26/22 15:30	5.27	247.2	20.61	33.62	29.07	0
7/26/22 15:45	6.035	264.4	13.2	33.45	29.07	0
7/26/22 16:00	6.078	265	12.85	33.68	29.07	0
7/26/22 16:15	5.573	260.2	16.42	33.66	29.06	0
7/26/22 16:30	4.955	253.1	21.19	33.78	29.06	0
7/26/22 16:45	5.443	262.3	17.21	33.82	29.06	0
7/26/22 17:00	3.863	257.7	20.5	33.71	29.06	0
7/26/22 17:15	5.195	269.4	20.5	33.66	29.06	0
7/26/22 17:30	5.208	276.6	18.25	33.63	29.06	0
7/26/22 17:45	5.766	283.1	10	33.41	29.06	0
7/26/22 18:00	5.099	283.2	13.47	33.24	29.05	0
7/26/22 18:15	4.903	306	7.033	32.89	29.05	0
7/26/22 18:30	4.958	309.8	4.107	32.66	29.05	0
7/26/22 18:45	4.63	300.1	9.22	32.45	29.06	0
7/26/22 19:00	4.687	271.2	7.717	32.01	29.06	0
7/26/22 19:15	4.691	275.5	5.454	31.33	29.06	0
7/26/22 19:30	4.664	292.9	8.93	30.55	29.06	0
7/26/22 19:45	3.679	321.8	6.486	29.63	29.07	0
7/26/22 20:00	3.411	303.1	16.98	29.77	29.07	0
7/26/22 20:15	2.925	308.3	17.38	29.49	29.07	0
7/26/22 20:30	1.982	321.9	17.26	28.39	29.08	0
7/26/22 20:45	1.868	14.95	12.8	27.62	29.08	0
7/26/22 21:00	1.538	36.46	4.061	27.15	29.09	0
7/26/22 21:15	1.988	53.12	4.378	26.97	29.09	0
7/26/22 21:30	2.442	60.87	4.918	26.67	29.09	0
7/26/22 21:45	2.6	48.65	10.74	25.85	29.09	0
7/26/22 22:00	0.784	81.7	15.49	25.64	29.1	0
7/26/22 22:15	2.779	85.9	8.84	25.55	29.1	0
7/26/22 22:30	2.654	108.7	33.1	26.06	29.1	0
7/26/22 22:45	2.65	159	15.2	26.05	29.11	0
7/26/22 23:00	3.237	160.2	10.84	25.66	29.11	0
7/26/22 23:15	2.842	135.6	13.74	25.1	29.11	0
7/26/22 23:30	3.373	109.7	5.404	24.79	29.11	0
7/26/22 23:45	3.155	113.4	4.339	24.14	29.12	0
7/27/22 0:00	2.285	102.7	21.26	23.74	29.12	0
7/27/22 0:15	2.983	130	6.451	23.54	29.12	0
7/27/22 0:30	4.734	141.4	6.37	23.34	29.13	0
7/27/22 0:45	5.914	163.6	6.29	22.95	29.13	0
7/27/22 1:00	5.491	160	7.204	22.73	29.14	0
7/27/22 1:15	6.231	159.9	8.76	22.72	29.14	0
7/27/22 1:30	6.662	171.4	5.648	21.88	29.14	0
7/27/22 1:45	7.566	174.2	5.628	21.23	29.14	0
7/27/22 2:00	7.256	175.7	5.887	20.84	29.15	0
7/27/22 2:15	4.552	152.5	6.977	20.72	29.15	0
7/27/22 2:30	3.023	144.7	9.08	20.43	29.16	0
7/27/22 2:45	4.15	151.4	12.98	20.33	29.16	0
7/27/22 3:00	3.99	159.3	5.016	20.5	29.16	0
7/27/22 3:15	3.841	159.3	6.347	20.47	29.16	0
7/27/22 3:30	4.959	164.1	3.997	20.33	29.17	0
7/27/22 3:45	4.363	158.6	7.056	20.41	29.17	0
7/27/22 4:00	3.718	159.7	5.28	20.45	29.17	0
7/27/22 4:15	3.812	175.1	8.7	20.14	29.17	0
7/27/22 4:30	4.144	186.6	3.238	19.93	29.17	0
7/27/22 4:45	4.329	200.3	2.486	19.67	29.18	0
7/27/22 5:00	2.391	198.4	2.589	19.51	29.18	0
7/27/22 5:15	3.541	181.3	6.929	19.44	29.18	0
7/27/22 5:30	3.836	182.1	2.925	19.21	29.18	0
7/27/22 5:45	3.883	193.4	5.793	19.31	29.19	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
7/27/22 6:00	3.521	202.4	7.736	19.12	29.19	0
7/27/22 6:15	2.965	216	7.911	19.4	29.19	0
7/27/22 6:30	3.143	229.6	10.89	19.86	29.19	0
7/27/22 6:45	2.878	231.3	19.2	20.27	29.2	0
7/27/22 7:00	2.169	218.1	22.32	20.57	29.2	0
7/27/22 7:15	1.882	231.2	35.94	21	29.2	0
7/27/22 7:30	2.816	225.4	28.01	21.51	29.2	0
7/27/22 7:45	2.818	200.8	16.59	21.55	29.2	0
7/27/22 8:00	1.827	237.5	51.79	22.3	29.2	0
7/27/22 8:15	1.01	292.1	33.99	22.46	29.19	0
7/27/22 8:30	1.78	21.96	49.04	23.61	29.19	0
7/27/22 8:45	2.306	355.5	25.64	23.88	29.19	0
7/27/22 9:00	3.091	309.2	36.97	24.73	29.19	0
7/27/22 9:15	5.46	274.8	18.96	24.69	29.19	0
7/27/22 9:30	7.24	259.6	15.59	24.94	29.2	0
7/27/22 9:45	6.681	270.5	16.51	24.89	29.2	0
7/27/22 10:00	6.618	257.6	19.6	25.03	29.2	0
7/27/22 10:15	7.729	259.3	12.68	25.44	29.2	0
7/27/22 10:30	8.38	258.1	12.38	25.39	29.2	0
7/27/22 10:45	8.08	256	11.95	25.52	29.2	0
7/27/22 11:00	8.18	249.4	12.42	25.92	29.2	0
7/27/22 11:15	6.227	241.7	19.12	26.42	29.2	0
7/27/22 11:30	4.397	243.9	26.96	26.33	29.2	0
7/27/22 11:45	4.066	299.8	28.38	26.9	29.2	0
7/27/22 12:00	2.97	314.2	36.29	27.54	29.2	0
7/27/22 12:15	2.826	300	31.98	27.58	29.19	0
7/27/22 12:30	4.86	248.5	17.13	27.62	29.19	0
7/27/22 12:45	3.293	290	22	28.19	29.19	0
7/27/22 13:00	3.351	278.1	25.04	28.65	29.19	0
7/27/22 13:15	3.819	293.2	33.77	29.57	29.19	0
7/27/22 13:30	3.286	312.1	39.96	30.11	29.18	0
7/27/22 13:45	3.323	276.3	24.52	30.52	29.18	0
7/27/22 14:00	3.736	292.3	31.68	30.85	29.18	0
7/27/22 14:15	6.98	270.8	37.22	31.29	29.18	0
7/27/22 14:30	6.843	246.9	17.53	31.28	29.18	0
7/27/22 14:45	7.598	246	18.71	31.28	29.17	0
7/27/22 15:00	8.09	243.7	26.31	31.61	29.17	0
7/27/22 15:15	6.058	268.7	17.82	31.95	29.17	0
7/27/22 15:30	5.998	289	15.27	32	29.17	0
7/27/22 15:45	5.739	262.5	20.24	32.15	29.17	0
7/27/22 16:00	5.828	268.3	17.59	32.34	29.16	0
7/27/22 16:15	5.084	290.8	31.04	32.57	29.16	0
7/27/22 16:30	6.123	272.1	17.57	32.46	29.16	0
7/27/22 16:45	6.218	270.9	19.55	32.46	29.16	0
7/27/22 17:00	5.291	290.6	24.62	32.2	29.16	0
7/27/22 17:15	4.756	319.5	11.82	32.4	29.16	0
7/27/22 17:30	6.019	308.3	10.72	32.17	29.16	0
7/27/22 17:45	6.379	291.5	9.85	32.01	29.15	0
7/27/22 18:00	5.613	292.8	12.99	31.81	29.15	0
7/27/22 18:15	5.962	290.4	10.55	31.68	29.15	0
7/27/22 18:30	5.758	296.4	9.39	31.3	29.15	0
7/27/22 18:45	5.143	302.9	10.06	30.9	29.15	0
7/27/22 19:00	6.253	291.1	6.092	30.27	29.15	0
7/27/22 19:15	6.177	292.1	5.221	29.64	29.15	0
7/27/22 19:30	5.796	295	5.027	29	29.15	0
7/27/22 19:45	5.848	300.4	5.543	28.48	29.15	0
7/27/22 20:00	5.972	319.5	13.64	28.29	29.15	0
7/27/22 20:15	4.343	333.2	9.22	27.9	29.15	0
7/27/22 20:30	3.96	325.5	13.28	27.59	29.15	0
7/27/22 20:45	1.484	337.6	14.2	27.03	29.16	0
7/27/22 21:00	1.781	19.57	9.22	26.3	29.16	0
7/27/22 21:15	3.107	14.82	8.31	25.61	29.16	0
7/27/22 21:30	3.047	31.4	8.43	25.08	29.16	0
7/27/22 21:45	3.698	40.64	6.144	24.98	29.16	0
7/27/22 22:00	4.729	46.78	4.463	24.79	29.16	0
7/27/22 22:15	5.228	45.85	8.98	24.44	29.17	0
7/27/22 22:30	4.567	33.26	9.46	23.91	29.17	0
7/27/22 22:45	3.946	22.73	7.675	23.02	29.17	0
7/27/22 23:00	3.793	26.24	8.9	22.53	29.17	0
7/27/22 23:15	3.502	25.56	11.17	22.18	29.17	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
7/27/22 23:30	4.103	47.78	8.42	21.85	29.17	0
7/27/22 23:45	4.283	26.66	13.24	21.36	29.17	0
7/28/22 0:00	4.178	20.87	10.69	21.37	29.17	0
7/28/22 0:15	5.045	41.14	4.815	21.08	29.17	0
7/28/22 0:30	4.573	36.26	9.56	21.01	29.17	0
7/28/22 0:45	4.032	23.17	6.647	21.02	29.17	0
7/28/22 1:00	4.417	21.17	6.505	20.82	29.17	0
7/28/22 1:15	4.359	18.81	8.73	20.53	29.17	0
7/28/22 1:30	4.323	5.588	6.238	20.06	29.17	0
7/28/22 1:45	3.532	9.07	6.589	20.22	29.16	0
7/28/22 2:00	3.062	21.85	34.01	20.26	29.16	0
7/28/22 2:15	1.337	356.6	54.18	20.04	29.17	0
7/28/22 2:30	0.381	223.8	28.44	19.98	29.17	0
7/28/22 2:45	0.515	86.7	55.53	19.59	29.17	0
7/28/22 3:00	2.026	29.26	14.19	19.21	29.17	0
7/28/22 3:15	1.729	15.83	1.179	19.99	29.17	0
7/28/22 3:30	0	0	0	20.3	29.17	0
7/28/22 3:45	0.052	13.21	0.609	19.99	29.17	0
7/28/22 4:00	0.845	315.9	16.16	19.68	29.17	0
7/28/22 4:15	1.475	290.3	7.291	20.11	29.17	0
7/28/22 4:30	0.194	222.1	3.509	20.14	29.17	0
7/28/22 4:45	2.747	202.3	9.27	19.71	29.18	0
7/28/22 5:00	1.949	169.7	9.4	19.49	29.18	0
7/28/22 5:15	2.194	156.9	20.18	19.2	29.18	0
7/28/22 5:30	1.238	95.2	19.66	19.78	29.18	0
7/28/22 5:45	5.787	195.8	8.14	19.3	29.18	0
7/28/22 6:00	4.228	171	24.08	19.09	29.18	0
7/28/22 6:15	3.835	168.7	14.44	19.2	29.19	0
7/28/22 6:30	4.43	182.1	15.89	19.16	29.19	0
7/28/22 6:45	1.172	193	35.23	19.7	29.19	0
7/28/22 7:00	2.98	186.8	23.29	20.17	29.19	0
7/28/22 7:15	1.604	237.6	50.7	20.62	29.19	0
7/28/22 7:30	1.648	104.4	37.03	21.82	29.19	0
7/28/22 7:45	3.489	79.77	16.5	22.31	29.19	0
7/28/22 8:00	2.791	79.43	14.24	22.87	29.18	0
7/28/22 8:15	2.969	58.41	14.59	23.51	29.18	0
7/28/22 8:30	3.055	43.5	29.75	23.85	29.17	0
7/28/22 8:45	1.92	62.55	32.46	24.2	29.17	0
7/28/22 9:00	2.334	288.1	74.24	25.44	29.17	0
7/28/22 9:15	3.841	278.5	17.03	25.15	29.17	0
7/28/22 9:30	2.841	302.9	29.28	25.59	29.17	0
7/28/22 9:45	4.554	338	33.8	26.51	29.17	0
7/28/22 10:00	3.333	309.8	32.09	27.29	29.17	0
7/28/22 10:15	5.712	277.5	27.93	27.14	29.16	0
7/28/22 10:30	6.443	262.4	31.75	27.26	29.16	0
7/28/22 10:45	5.252	265	22.31	27.65	29.16	0
7/28/22 11:00	4.621	286.6	23.96	28.2	29.16	0
7/28/22 11:15	6.656	266.9	20.26	28.74	29.15	0
7/28/22 11:30	7.318	271.2	13.29	29.06	29.15	0
7/28/22 11:45	6.653	262.3	17.28	29.14	29.15	0
7/28/22 12:00	4.035	312.6	54.61	30.41	29.14	0
7/28/22 12:15	6.441	329.4	30.18	31.15	29.14	0
7/28/22 12:30	8.13	306.9	14.53	31.54	29.14	0
7/28/22 12:45	6.08	314.9	24.91	32.08	29.14	0
7/28/22 13:00	7.092	301.4	17.46	32.25	29.14	0
7/28/22 13:15	7.041	321.4	33.93	32.45	29.13	0
7/28/22 13:30	7.285	337.9	16.81	32.51	29.13	0
7/28/22 13:45	7.146	0.986	18.93	32.7	29.13	0
7/28/22 14:00	8.03	350.5	17.27	33.05	29.12	0
7/28/22 14:15	9.96	352.3	20.01	33.1	29.12	0
7/28/22 14:30	8.9	352.3	19.89	33.08	29.12	0
7/28/22 14:45	7.908	351.9	21.21	33.15	29.12	0
7/28/22 15:00	7.151	2.981	23.72	33.07	29.11	0
7/28/22 15:15	7.247	322.1	26.56	33.49	29.11	0
7/28/22 15:30	7.522	319.9	25.67	33.46	29.11	0
7/28/22 15:45	7.721	8.51	21.32	33.28	29.11	0
7/28/22 16:00	6.81	349.4	27.68	33.57	29.11	0
7/28/22 16:15	7.298	357.4	17.75	33.47	29.1	0
7/28/22 16:30	7.298	6.431	14.99	33.13	29.1	0
7/28/22 16:45	7.429	342.4	20.89	33.15	29.1	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/28/22 17:00	8.46	8.68	13.57	32.86	29.1	0
7/28/22 17:15	9.06	10.18	11.16	32.57	29.09	0
7/28/22 17:30	7.475	349.7	21.45	32.74	29.09	0
7/28/22 17:45	6.802	356.7	16.52	32.57	29.09	0
7/28/22 18:00	5.915	337	30.4	32.42	29.09	0
7/28/22 18:15	5.664	323.3	13.17	32.3	29.08	0
7/28/22 18:30	3.819	323.9	30.36	32.1	29.08	0
7/28/22 18:45	3.961	337.9	30.09	31.84	29.08	0
7/28/22 19:00	2.561	359.1	31.08	31.45	29.08	0
7/28/22 19:15	3.316	335.8	32.58	31.2	29.08	0
7/28/22 19:30	1.879	316.8	37.53	30.77	29.08	0
7/28/22 19:45	2.815	265.9	21.32	30.3	29.08	0
7/28/22 20:00	4.704	270.3	6.895	28.77	29.08	0
7/28/22 20:15	5.554	270.9	10.21	28.09	29.09	0
7/28/22 20:30	5.071	283.3	8.4	27.47	29.09	0
7/28/22 20:45	5.545	313.7	19.12	26.77	29.09	0
7/28/22 21:00	5.523	329.1	11.9	25.97	29.09	0
7/28/22 21:15	7.189	357.4	18.67	25.55	29.1	0
7/28/22 21:30	7.779	1.52	20.06	25.35	29.1	0
7/28/22 21:45	6.72	4.936	13.59	25.08	29.1	0
7/28/22 22:00	3.718	12.16	25.73	24.49	29.1	0
7/28/22 22:15	5.74	17.18	9.35	23.92	29.1	0
7/28/22 22:30	6.077	13.93	6.53	23.6	29.1	0
7/28/22 22:45	5.885	10.09	8.89	23.52	29.1	0
7/28/22 23:00	5.751	13.33	7.407	23.23	29.1	0
7/28/22 23:15	6.67	9.97	9.2	23.03	29.1	0
7/28/22 23:30	6.467	10.7	9.15	22.43	29.1	0
7/28/22 23:45	7.984	21.24	6.544	22.02	29.1	0
7/29/22 0:00	5.638	30.38	9	21.85	29.1	0
7/29/22 0:15	7.188	20.39	8.13	22.18	29.1	0
7/29/22 0:30	7.003	15.61	9.83	22.17	29.1	0
7/29/22 0:45	5.506	17.53	7.582	21.91	29.1	0
7/29/22 1:00	4.554	17.79	8.02	21.8	29.1	0
7/29/22 1:15	4.337	29.72	11.28	21.65	29.1	0
7/29/22 1:30	3.59	66.88	19.33	21.56	29.1	0
7/29/22 1:45	3.703	45.64	15.93	22	29.1	0
7/29/22 2:00	1.156	10.93	8.38	21.2	29.11	0
7/29/22 2:15	1.643	220.1	50.11	21.31	29.11	0
7/29/22 2:30	1.744	163.1	35.97	21.42	29.11	0
7/29/22 2:45	2.204	80.1	25.78	21.42	29.11	0
7/29/22 3:00	0.85	26.06	15.22	21.6	29.11	0
7/29/22 3:15	2.398	29.18	13.9	22.01	29.11	0
7/29/22 3:30	2.486	42.9	29.51	20.85	29.11	0
7/29/22 3:45	1.638	68.77	63.59	21.03	29.11	0
7/29/22 4:00	1.61	328.6	41.95	20.76	29.11	0
7/29/22 4:15	2.539	353	11.13	21.09	29.11	0
7/29/22 4:30	3.357	286.1	36.94	20.11	29.11	0
7/29/22 4:45	3.932	257.5	14.57	20.13	29.12	0
7/29/22 5:00	2.967	301.7	15.74	20.68	29.12	0
7/29/22 5:15	0.678	275.3	2.975	20.6	29.12	0
7/29/22 5:30	0.224	10.96	5.099	20.26	29.12	0
7/29/22 5:45	0.779	221.3	46.47	21.02	29.12	0
7/29/22 6:00	0.681	38.92	57.51	21.26	29.12	0
7/29/22 6:15	1.813	256.4	32.23	21.55	29.12	0
7/29/22 6:30	0.787	231.6	15.17	22.06	29.12	0
7/29/22 6:45	2.002	224.3	25.7	22.38	29.12	0
7/29/22 7:00	1.727	138	68.73	22.94	29.12	0
7/29/22 7:15	1.383	35.5	76.17	23.35	29.12	0
7/29/22 7:30	0.729	104.4	35.47	24.09	29.13	0
7/29/22 7:45	1.058	101.5	41.75	24.83	29.13	0
7/29/22 8:00	1.652	216.2	64.69	24.66	29.13	0
7/29/22 8:15	1.338	22.47	51.01	25.21	29.13	0
7/29/22 8:30	2.031	29.74	30.23	25.74	29.13	0
7/29/22 8:45	2.826	17.15	22.19	26.2	29.13	0
7/29/22 9:00	2.732	315.3	46.67	26.31	29.13	0
7/29/22 9:15	2.452	359.5	45.21	26.64	29.12	0
7/29/22 9:30	4.031	10.8	19.18	27.07	29.12	0
7/29/22 9:45	3.702	37.02	18.33	27.27	29.12	0
7/29/22 10:00	3.237	314.8	30.59	28.08	29.12	0
7/29/22 10:15	4.901	278.8	26.73	28.12	29.11	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/29/22 10:30	5.318	269.6	19.27	28.1	29.11	0
7/29/22 10:45	6.793	254.5	16.41	28.4	29.11	0
7/29/22 11:00	7.194	259.9	17.2	28.68	29.11	0
7/29/22 11:15	5.512	272.8	23.28	28.96	29.11	0
7/29/22 11:30	4.72	309	53.63	29.56	29.11	0
7/29/22 11:45	6.555	270.9	18.27	29.71	29.1	0
7/29/22 12:00	7.531	269.2	12.8	29.57	29.1	0
7/29/22 12:15	8.32	259	17.77	30	29.1	0
7/29/22 12:30	6.894	256.7	18.99	30.73	29.1	0
7/29/22 12:45	6.703	250.9	23.38	31.14	29.1	0
7/29/22 13:00	7.455	253.6	19.11	30.95	29.09	0
7/29/22 13:15	7.453	265	13.89	31.36	29.09	0
7/29/22 13:30	8.25	238	13.55	31.32	29.09	0
7/29/22 13:45	9.28	241	10.3	31.56	29.09	0
7/29/22 14:00	8.61	253.2	18.07	31.9	29.08	0
7/29/22 14:15	5.725	302.1	33.31	32.73	29.08	0
7/29/22 14:30	6.255	300.3	25.55	32.71	29.08	0
7/29/22 14:45	6.652	308.4	23	32.96	29.07	0
7/29/22 15:00	5.645	313	13.73	32.83	29.07	0
7/29/22 15:15	6.111	319	19.93	33.15	29.07	0
7/29/22 15:30	5.262	308.8	17.66	33.38	29.06	0
7/29/22 15:45	5.28	352.5	35.24	33.31	29.06	0
7/29/22 16:00	6.221	345.7	24.29	33.09	29.06	0
7/29/22 16:15	7.317	316.2	29.04	33.16	29.06	0
7/29/22 16:30	8.61	316.5	19.9	33.01	29.05	0
7/29/22 16:45	8.06	300.5	12.27	32.87	29.05	0
7/29/22 17:00	7.909	292.6	13.38	33.05	29.05	0
7/29/22 17:15	7.803	295.3	14.9	32.63	29.04	0
7/29/22 17:30	7.079	284.7	12.19	32.75	29.04	0
7/29/22 17:45	6.236	299.8	16.55	32.47	29.04	0
7/29/22 18:00	8.22	279.5	6.786	31.95	29.04	0
7/29/22 18:15	7.342	278.9	8.36	31.65	29.04	0
7/29/22 18:30	6.651	276.1	8.59	31.34	29.04	0
7/29/22 18:45	6.738	282.1	8.51	30.95	29.04	0
7/29/22 19:00	6.422	281.7	7.209	30.5	29.04	0
7/29/22 19:15	6.538	293.8	7.997	29.91	29.04	0
7/29/22 19:30	6.622	304.3	3.359	29.2	29.04	0
7/29/22 19:45	5.861	307.7	5.13	28.71	29.04	0
7/29/22 20:00	4.923	327.5	6.456	28.46	29.04	0
7/29/22 20:15	3.356	326.6	17.51	27.82	29.05	0
7/29/22 20:30	2.83	339.2	11.54	27.31	29.05	0
7/29/22 20:45	3.643	12.82	6.339	26.3	29.06	0
7/29/22 21:00	3.85	21.66	4.337	25.44	29.06	0
7/29/22 21:15	4.417	20.27	6.217	25.67	29.06	0
7/29/22 21:30	4.311	358.7	16.3	25.96	29.06	0
7/29/22 21:45	4.77	16.37	6.21	25.84	29.06	0
7/29/22 22:00	3.455	40.18	6.22	24.97	29.07	0
7/29/22 22:15	4.892	35.77	8.96	24.9	29.07	0
7/29/22 22:30	4.365	25.83	7.792	24.35	29.07	0
7/29/22 22:45	5.157	32.36	5.942	23.23	29.07	0
7/29/22 23:00	4.627	34.77	4.658	23.14	29.07	0
7/29/22 23:15	4.266	28.29	6.467	23.05	29.07	0
7/29/22 23:30	4.327	24.13	4.493	22.79	29.07	0
7/29/22 23:45	3.569	36.88	9.6	23.22	29.07	0
7/30/22 0:00	2.697	62.74	8.44	23.36	29.07	0
7/30/22 0:15	2.433	89.7	17.33	23.68	29.07	0
7/30/22 0:30	1.545	104.3	18.12	24.18	29.07	0
7/30/22 0:45	2.444	102.7	14.71	23.59	29.07	0
7/30/22 1:00	1.243	93.4	31	22.67	29.07	0
7/30/22 1:15	2.765	16.55	9.38	23.07	29.07	0
7/30/22 1:30	3.133	18.8	7.726	22.61	29.07	0
7/30/22 1:45	2.054	357.6	27.66	22.46	29.07	0
7/30/22 2:00	1.105	3.026	18.3	22.77	29.07	0
7/30/22 2:15	1.421	177.5	40.59	22.52	29.08	0
7/30/22 2:30	2.416	193.9	25.44	21.39	29.08	0
7/30/22 2:45	0.843	8.13	12.86	21.01	29.08	0
7/30/22 3:00	2.095	245.3	20.58	21.23	29.09	0
7/30/22 3:15	0.522	219.9	34.14	21.2	29.09	0
7/30/22 3:30	0.656	325.3	30.59	21.48	29.08	0
7/30/22 3:45	2.84	241.5	19.89	21.14	29.08	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
7/30/22 4:00	1.46	266.5	53.8	20.43	29.09	0
7/30/22 4:15	1.539	341.6	11.06	20.45	29.09	0
7/30/22 4:30	1.336	282.6	33.18	20.44	29.09	0
7/30/22 4:45	2.037	229.4	3.879	20.74	29.1	0
7/30/22 5:00	2.648	251.1	9.16	20.59	29.1	0
7/30/22 5:15	2.645	254.4	33.29	20.45	29.1	0
7/30/22 5:30	2.448	209.4	13.02	20.23	29.1	0
7/30/22 5:45	1.451	216.6	18.55	20.88	29.11	0
7/30/22 6:00	1.558	228.4	9.69	21.28	29.11	0
7/30/22 6:15	1.145	219.3	5.967	21.41	29.12	0
7/30/22 6:30	0.846	166.8	31.01	21.87	29.12	0
7/30/22 6:45	1.242	88.2	31.71	23.27	29.12	0
7/30/22 7:00	2.376	160.4	13.14	22.47	29.12	0
7/30/22 7:15	5.019	171.7	11.17	22.51	29.12	0
7/30/22 7:30	4.04	168.7	10.95	22.87	29.12	0
7/30/22 7:45	4.135	177.9	14.53	23.2	29.13	0
7/30/22 8:00	2.95	174.5	30.79	23.76	29.13	0
7/30/22 8:15	2.112	173.7	27.94	24.38	29.13	0
7/30/22 8:30	2.37	182.6	40.45	24.98	29.13	0
7/30/22 8:45	2.252	111.8	47.08	26.23	29.13	0
7/30/22 9:00	1.909	115	77.96	26.83	29.12	0
7/30/22 9:15	2.552	293.5	49.72	27.06	29.12	0
7/30/22 9:30	1.985	304.1	47.98	28.01	29.12	0
7/30/22 9:45	3.758	318.5	28.83	28.17	29.12	0
7/30/22 10:00	2.973	333.9	33.14	28.34	29.12	0
7/30/22 10:15	3.374	265.9	37.16	28.94	29.11	0
7/30/22 10:30	3.855	305.4	27.94	29.39	29.11	0
7/30/22 10:45	4.006	353.8	47.41	30.16	29.11	0
7/30/22 11:00	3.843	342.8	39.12	29.93	29.11	0
7/30/22 11:15	3.005	310.5	65.25	30.65	29.11	0
7/30/22 11:30	6.647	280.2	22.05	31.01	29.11	0
7/30/22 11:45	6.818	262.2	17.74	30.94	29.11	0
7/30/22 12:00	7.801	260.6	13.71	31.09	29.1	0
7/30/22 12:15	7.145	264.8	20.7	31.33	29.1	0
7/30/22 12:30	5.944	312.3	36.28	32.05	29.1	0
7/30/22 12:45	5.646	321.4	40.39	32.28	29.1	0
7/30/22 13:00	5.254	306.4	26.5	32.95	29.1	0
7/30/22 13:15	5.881	329.9	37.05	33.08	29.09	0
7/30/22 13:30	5.946	7.293	39.34	33.13	29.09	0
7/30/22 13:45	5.553	355.7	33.39	33.77	29.09	0
7/30/22 14:00	5	304.9	27.26	34.33	29.09	0
7/30/22 14:15	5.848	287.4	22.25	34.39	29.08	0
7/30/22 14:30	5.849	291.8	26.3	34.07	29.08	0
7/30/22 14:45	7.877	288.8	12.93	34.32	29.08	0
7/30/22 15:00	8.14	282.1	13.54	34.4	29.08	0
7/30/22 15:15	7.625	287.4	12.16	34.04	29.07	0
7/30/22 15:30	8.67	272.8	9.99	34.01	29.07	0
7/30/22 15:45	9.02	274	9.06	33.99	29.07	0
7/30/22 16:00	8.81	283.4	16.24	33.89	29.07	0
7/30/22 16:15	8.11	288	8.47	33.94	29.07	0
7/30/22 16:30	8.39	280.2	10.38	33.81	29.07	0
7/30/22 16:45	7.496	286.2	14.04	33.99	29.06	0
7/30/22 17:00	6.58	304.7	15.96	33.96	29.06	0
7/30/22 17:15	7.04	319.3	20.58	33.76	29.06	0
7/30/22 17:30	8.23	301.6	9.08	33.52	29.06	0
7/30/22 17:45	7.925	303.5	8.3	33.21	29.06	0
7/30/22 18:00	7.862	304.5	8.74	32.9	29.05	0
7/30/22 18:15	7.493	308.2	6.313	32.41	29.05	0
7/30/22 18:30	5.645	308	7.797	32.12	29.06	0
7/30/22 18:45	5.18	301.7	7.946	31.82	29.06	0
7/30/22 19:00	4.992	291.8	10.36	31.43	29.06	0
7/30/22 19:15	4.292	318.3	24.14	30.72	29.06	0
7/30/22 19:30	6.374	356.9	20.03	30.13	29.06	0
7/30/22 19:45	7.312	21.66	16.26	29.3	29.06	0
7/30/22 20:00	7.472	23.17	11.73	28.3	29.07	0
7/30/22 20:15	7.226	36.25	10.52	27.65	29.07	0
7/30/22 20:30	7.302	35.42	8.37	27.37	29.08	0
7/30/22 20:45	6.799	26.62	8.54	27.39	29.08	0
7/30/22 21:00	6.04	38.77	12.11	27.13	29.08	0
7/30/22 21:15	5.645	31.21	14.06	26.98	29.08	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
7/30/22 21:30	5.009	10.2	8.3	25.65	29.09	0
7/30/22 21:45	6.855	27.32	6.694	25.56	29.09	0
7/30/22 22:00	6.441	29.05	7.532	24.75	29.09	0
7/30/22 22:15	7.73	32.96	7.189	24.86	29.09	0
7/30/22 22:30	6.635	37.89	9.31	24.57	29.09	0
7/30/22 22:45	3.506	66.97	28.38	23.93	29.09	0
7/30/22 23:00	1.577	38.42	39.67	23.41	29.09	0
7/30/22 23:15	4.029	17.28	19.28	22.76	29.09	0
7/30/22 23:30	4.855	26.84	7.587	22.44	29.09	0
7/30/22 23:45	5.234	27.43	9.41	22.93	29.09	0
7/31/22 0:00	3.943	66.22	39.58	23.42	29.1	0
7/31/22 0:15	3.134	119.9	15.46	22.86	29.1	0
7/31/22 0:30	2.348	132	15.38	23.13	29.1	0
7/31/22 0:45	1.831	119.9	1.978	23.45	29.1	0
7/31/22 1:00	0.125	117.6	0.774	22.64	29.1	0
7/31/22 1:15	0.057	106.5	0.046	22.25	29.1	0
7/31/22 1:30	1.049	146.3	21.19	22.44	29.11	0
7/31/22 1:45	2.212	178.2	9.9	22.36	29.11	0
7/31/22 2:00	4.248	142.7	8.02	22.59	29.11	0
7/31/22 2:15	5.11	127.1	4.968	22.23	29.11	0
7/31/22 2:30	3.594	131	10.93	22.14	29.11	0
7/31/22 2:45	3.828	145	7.641	22.43	29.11	0
7/31/22 3:00	1.941	97.4	30.37	22.15	29.11	0
7/31/22 3:15	2.842	68.55	10.19	21.21	29.11	0
7/31/22 3:30	3.397	33.36	6.722	20.81	29.11	0
7/31/22 3:45	3.245	33.54	15.68	20.11	29.11	0
7/31/22 4:00	3.389	23.82	5.072	19.52	29.11	0
7/31/22 4:15	4.14	22.2	4.033	19.18	29.11	0
7/31/22 4:30	3.315	12.48	5.472	19.56	29.11	0
7/31/22 4:45	1.849	357.1	12.99	20.39	29.11	0
7/31/22 5:00	1.195	307.8	15.58	20.69	29.12	0
7/31/22 5:15	2.55	250.9	7.651	20.69	29.12	0
7/31/22 5:30	3.984	272.2	3.44	20.85	29.13	0
7/31/22 5:45	3.262	271.7	6.81	21.49	29.13	0
7/31/22 6:00	3.229	259.9	10.94	21.27	29.13	0
7/31/22 6:15	3.914	271.6	6.579	21.32	29.13	0
7/31/22 6:30	4.289	284.5	12.53	22	29.13	0
7/31/22 6:45	3.525	298.8	6.924	22.45	29.13	0
7/31/22 7:00	1.938	303.9	71.57	23.14	29.13	0
7/31/22 7:15	2.624	154.3	15.57	23.04	29.13	0
7/31/22 7:30	2.896	197.9	16.38	23.14	29.13	0
7/31/22 7:45	3.745	205.7	7.929	23.27	29.14	0
7/31/22 8:00	2.667	215.8	16.7	23.42	29.14	0
7/31/22 8:15	2.685	198	32.66	24.19	29.14	0
7/31/22 8:30	2.483	210.5	32.74	24.43	29.14	0
7/31/22 8:45	2.601	211.3	27.36	25.13	29.14	0
7/31/22 9:00	2.454	263.2	35.83	25.48	29.13	0
7/31/22 9:15	2.057	283.4	49.29	26.17	29.13	0
7/31/22 9:30	2.822	242.2	38.43	26.63	29.13	0
7/31/22 9:45	3.434	313.3	50.53	27.23	29.13	0
7/31/22 10:00	2.42	98.8	58.76	28.32	29.13	0
7/31/22 10:15	2.311	181.7	53.05	28.4	29.13	0
7/31/22 10:30	3.527	294.1	25.61	28.69	29.12	0
7/31/22 10:45	4.129	302	37.61	29.01	29.12	0
7/31/22 11:00	4.459	311.3	45.94	29.55	29.12	0
7/31/22 11:15	7.402	261.6	21.34	29.72	29.12	0
7/31/22 11:30	6.52	277.1	15	29.87	29.12	0
7/31/22 11:45	6.509	271.1	21.08	29.66	29.12	0
7/31/22 12:00	5.853	262.4	17.59	30.16	29.12	0
7/31/22 12:15	5.862	257.7	20.49	30.49	29.11	0
7/31/22 12:30	7.505	259.9	17.72	30.72	29.11	0
7/31/22 12:45	7.26	261.6	18.11	31.16	29.11	0
7/31/22 13:00	8.77	262.4	10.07	30.9	29.11	0
7/31/22 13:15	8.13	264.3	12.46	31.19	29.11	0
7/31/22 13:30	8.29	270.5	16.17	31.84	29.1	0
7/31/22 13:45	7.993	282.4	15.39	32.33	29.1	0
7/31/22 14:00	9.15	277.3	12.55	32.77	29.1	0
7/31/22 14:15	7.942	300.1	23.85	33.14	29.1	0
7/31/22 14:30	7.431	304.4	10.89	33.56	29.09	0
7/31/22 14:45	7.05	320.3	19	33.3	29.09	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
7/31/22 15:00	6.396	301.6	20.2	33.7	29.09	0
7/31/22 15:15	5.877	320.1	33.99	33.76	29.08	0
7/31/22 15:30	4.317	310.2	43.97	34.23	29.08	0
7/31/22 15:45	7.188	303.5	15.73	33.95	29.08	0
7/31/22 16:00	7.778	277.7	12.61	33.89	29.07	0
7/31/22 16:15	8.17	287.9	16.51	33.87	29.07	0
7/31/22 16:30	7.872	284.3	11.44	33.98	29.07	0
7/31/22 16:45	8.22	303	10.18	33.75	29.07	0
7/31/22 17:00	8.13	304.4	9.62	33.47	29.06	0
7/31/22 17:15	8.11	303.5	9.64	33.42	29.06	0
7/31/22 17:30	8.93	300.4	8.31	33.3	29.06	0
7/31/22 17:45	7.629	300.5	7.848	33.18	29.06	0
7/31/22 18:00	7.923	306.4	7.306	32.85	29.06	0
7/31/22 18:15	7.834	314.4	6.578	32.39	29.06	0
7/31/22 18:30	7.293	328.7	7.887	32.05	29.05	0
7/31/22 18:45	5.915	335.5	5.347	31.67	29.05	0
7/31/22 19:00	5.92	332.4	10.61	31.18	29.06	0
7/31/22 19:15	5.255	322	14.16	30.67	29.06	0
7/31/22 19:30	5.245	346.7	17.96	30.07	29.06	0
7/31/22 19:45	4.655	347.5	21.12	29.61	29.06	0
7/31/22 20:00	4.153	21.75	11.54	28.42	29.07	0
7/31/22 20:15	4.308	17.75	8.44	27.64	29.07	0
7/31/22 20:30	3.981	32.41	12.75	27.39	29.08	0
7/31/22 20:45	5.591	37.07	7.252	26.28	29.08	0
7/31/22 21:00	7.036	27.49	8.78	26.21	29.08	0
7/31/22 21:15	7.946	25.85	9.01	25.35	29.08	0
7/31/22 21:30	7.164	19.73	9.17	25.02	29.08	0
7/31/22 21:45	4.939	36.62	8.34	23.75	29.08	0
7/31/22 22:00	6.246	30.65	6.758	24.04	29.09	0
7/31/22 22:15	6.775	29.04	10.31	24.12	29.09	0
7/31/22 22:30	7.215	28.55	10.99	23.91	29.09	0
7/31/22 22:45	5.922	32.37	8.79	23.71	29.08	0
7/31/22 23:00	6.102	35.99	11.79	23.36	29.08	0
7/31/22 23:15	5.118	40.5	13.48	23.24	29.08	0
7/31/22 23:30	3.365	77.67	22.13	23.49	29.09	0
7/31/22 23:45	3.188	81.7	14.66	23.19	29.09	0
8/1/22 0:00	3.748	89.9	17.56	22.52	29.09	0
8/1/22 0:15	4.886	130.8	8.97	23.06	29.1	0
8/1/22 0:30	5.044	138.4	7.563	23.17	29.1	0
8/1/22 0:45	5.033	141.1	7.066	22.83	29.1	0
8/1/22 1:00	5.767	133.8	4.142	22.26	29.1	0
8/1/22 1:15	4.32	139	7.437	22.08	29.1	0
8/1/22 1:30	6.427	142.8	9.34	21.87	29.1	0
8/1/22 1:45	3.268	118.2	27.03	21.91	29.1	0
8/1/22 2:00	5.954	151.3	10.86	21.73	29.1	0
8/1/22 2:15	5.374	152.9	13.34	21.52	29.1	0
8/1/22 2:30	3.891	151	15.13	21.41	29.1	0
8/1/22 2:45	6.865	205.5	15.83	21.63	29.1	0
8/1/22 3:00	6.873	222.5	24.24	20.66	29.11	0
8/1/22 3:15	3.78	233.3	91.3	20.22	29.11	0
8/1/22 3:30	4.822	287.8	17.18	19.91	29.11	0
8/1/22 3:45	6.006	267.6	50.98	19.88	29.12	0
8/1/22 4:00	1.722	58.52	42.18	19.34	29.12	0
8/1/22 4:15	3.75	243.7	64.6	19.58	29.13	0
8/1/22 4:30	3.042	256.5	21.29	19.41	29.13	0
8/1/22 4:45	1.539	274	14.36	19.22	29.14	0
8/1/22 5:00	0.477	25.32	3.434	18.98	29.14	0
8/1/22 5:15	1.69	150.6	37.05	19.09	29.14	0
8/1/22 5:30	3.63	146.1	29.6	18.85	29.15	0
8/1/22 5:45	5.228	170.1	9.78	18.79	29.15	0
8/1/22 6:00	6.683	184.6	12.24	18.8	29.15	0
8/1/22 6:15	5.971	210.2	9.15	18.94	29.15	0
8/1/22 6:30	5.081	208.8	9.69	19.01	29.16	0
8/1/22 6:45	4.196	190.2	13.25	19.36	29.15	0
8/1/22 7:00	3.789	180.1	13.97	19.59	29.15	0
8/1/22 7:15	4.198	177.3	13.07	20.07	29.15	0
8/1/22 7:30	4.11	171.9	12.33	20.33	29.15	0
8/1/22 7:45	3.924	172.7	23.29	20.94	29.14	0
8/1/22 8:00	5.245	185.8	18.11	21.04	29.14	0
8/1/22 8:15	4.852	165.5	17.98	21.59	29.14	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
8/1/22 8:30	5.104	191	15.88	21.93	29.14	0
8/1/22 8:45	5.597	233.3	19.85	22.36	29.14	0
8/1/22 9:00	4.392	247.2	25.02	22.46	29.15	0
8/1/22 9:15	6.077	252.2	22.74	22.92	29.14	0
8/1/22 9:30	5.645	242.5	13.21	22.7	29.14	0
8/1/22 9:45	5.358	241.2	17.07	22.84	29.14	0
8/1/22 10:00	5.584	252.7	18.17	22.99	29.14	0
8/1/22 10:15	6.187	250.1	15.16	23.39	29.15	0
8/1/22 10:30	6.285	242.4	17.32	23.36	29.15	0
8/1/22 10:45	6.315	247.3	18.05	23.45	29.15	0
8/1/22 11:00	6.169	243.5	22.39	23.57	29.16	0
8/1/22 11:15	7.113	187.8	28.24	24.02	29.16	0
8/1/22 11:30	6.335	197.6	29.53	24.71	29.16	0
8/1/22 11:45	7.302	210.9	27.36	24.93	29.16	0
8/1/22 12:00	8.88	203.3	24.81	25.2	29.16	0
8/1/22 12:15	8.33	211.9	26.46	25.56	29.16	0
8/1/22 12:30	8.39	210.5	18.31	25.47	29.15	0
8/1/22 12:45	8.11	202.4	17.52	25.93	29.15	0
8/1/22 13:00	8.83	197.4	19.66	26.39	29.15	0
8/1/22 13:15	7.97	200.8	25.3	26.77	29.15	0
8/1/22 13:30	8.57	213.1	19.97	27	29.14	0
8/1/22 13:45	9.35	231.7	18.62	27.38	29.14	0
8/1/22 14:00	8.88	240.4	20.8	27.14	29.14	0
8/1/22 14:15	10.64	270.6	11.25	26.51	29.14	0
8/1/22 14:30	8.41	257	20.94	26.41	29.13	0
8/1/22 14:45	7.577	266.7	19.73	26.65	29.13	0
8/1/22 15:00	10.83	261.4	11.24	26.7	29.13	0
8/1/22 15:15	11.31	272	11.6	26.14	29.13	0
8/1/22 15:30	9.96	265.3	15.52	26.16	29.13	0
8/1/22 15:45	8.65	251.8	21.08	26.32	29.13	0
8/1/22 16:00	7.315	226.7	14.14	26.34	29.13	0
8/1/22 16:15	7.589	250.5	17.71	26.79	29.13	0
8/1/22 16:30	9.54	241.4	11.41	26.39	29.13	0
8/1/22 16:45	10.06	231	10.43	25.98	29.13	0
8/1/22 17:00	9.19	220.2	14.67	25.82	29.13	0
8/1/22 17:15	7.662	223.9	19.22	26.01	29.13	0
8/1/22 17:30	9.19	220.1	17.8	25.92	29.13	0
8/1/22 17:45	10.89	221.1	9.44	25.79	29.12	0
8/1/22 18:00	8.12	228	11.18	25.8	29.12	0
8/1/22 18:15	8.92	232.6	13.98	25.53	29.12	0
8/1/22 18:30	7.265	234.7	10.27	25.3	29.12	0
8/1/22 18:45	7.262	231.7	12.39	25.04	29.12	0
8/1/22 19:00	7.299	239.2	9.98	24.54	29.12	0
8/1/22 19:15	7.567	253.4	9.51	23.73	29.13	0
8/1/22 19:30	8.44	248.8	9.77	22.73	29.13	0
8/1/22 19:45	7.059	240.9	9.21	21.96	29.13	0
8/1/22 20:00	6.534	226.8	7.534	21.63	29.13	0
8/1/22 20:15	7.072	223.8	5.613	21.26	29.14	0
8/1/22 20:30	6.947	225.8	5.761	20.75	29.14	0
8/1/22 20:45	5.05	229.1	8.23	20.45	29.14	0
8/1/22 21:00	5.674	236.6	5.693	19.93	29.15	0
8/1/22 21:15	7.677	221.3	10.5	19.6	29.15	0
8/1/22 21:30	6.046	240.9	6.191	19.03	29.15	0
8/1/22 21:45	5.697	234.8	8.11	18.48	29.16	0
8/1/22 22:00	2.173	178.4	47.1	18.11	29.16	0
8/1/22 22:15	2.316	143	18.46	17.58	29.16	0
8/1/22 22:30	3.781	157.3	8.58	17.27	29.17	0
8/1/22 22:45	4.735	187.1	11.91	17.27	29.17	0
8/1/22 23:00	3.127	221.3	13.8	17.19	29.17	0
8/1/22 23:15	2.654	232.8	16.39	16.89	29.18	0
8/1/22 23:30	2.951	183.9	29.83	16.61	29.18	0
8/1/22 23:45	4.935	179.6	8.58	16.41	29.18	0
8/2/22 0:00	4.493	188.7	7.441	16.13	29.19	0
8/2/22 0:15	3.257	188.6	8.32	15.9	29.19	0
8/2/22 0:30	2.46	229.8	34.57	15.68	29.2	0
8/2/22 0:45	3.036	266.8	7.704	14.98	29.2	0
8/2/22 1:00	2.458	243.3	9.98	14.82	29.19	0
8/2/22 1:15	2.867	226.5	6.662	14.95	29.19	0
8/2/22 1:30	2.256	162.4	38.81	15.12	29.2	0
8/2/22 1:45	3.173	162	10.52	15.12	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/2/22 2:00	3.327	152	11.2	15.01	29.2	0
8/2/22 2:15	5.303	174.7	6.078	15.19	29.2	0
8/2/22 2:30	5.379	162.3	9.92	15.1	29.21	0
8/2/22 2:45	4.639	137.1	12.96	14.96	29.21	0
8/2/22 3:00	5.996	137	5.198	14.88	29.21	0
8/2/22 3:15	5.29	130.8	5.519	14.95	29.21	0
8/2/22 3:30	4.337	118.6	8.76	14.95	29.21	0
8/2/22 3:45	4.428	126.2	9.03	14.93	29.22	0
8/2/22 4:00	5.727	117.8	8.75	14.94	29.22	0
8/2/22 4:15	4.814	135.5	12.62	14.94	29.22	0
8/2/22 4:30	6.117	139.1	13.28	14.99	29.22	0
8/2/22 4:45	7.372	137.6	6.132	14.97	29.23	0
8/2/22 5:00	6.933	156.4	11.91	14.96	29.23	0
8/2/22 5:15	7.921	184	14.11	15.02	29.24	0
8/2/22 5:30	7.841	190.4	11.27	14.75	29.24	0
8/2/22 5:45	6.702	183.6	10.16	14.67	29.24	0
8/2/22 6:00	7.096	166.5	10.3	14.59	29.24	0
8/2/22 6:15	6.278	162.3	11.9	14.63	29.24	0
8/2/22 6:30	7.447	175.4	9.06	14.76	29.24	0
8/2/22 6:45	9.81	182.2	10.36	14.88	29.24	0
8/2/22 7:00	10.51	192.8	10.7	15.06	29.25	0
8/2/22 7:15	10.59	203.5	9.6	15.03	29.25	0
8/2/22 7:30	9.45	201.9	9.67	15.24	29.25	0
8/2/22 7:45	9.94	209.9	7.785	15.03	29.25	0
8/2/22 8:00	9.81	208.3	8.86	14.98	29.25	0
8/2/22 8:15	8.97	200.5	11.19	15.13	29.26	0
8/2/22 8:30	8.08	186	11.25	15.48	29.26	0
8/2/22 8:45	7.722	180.9	11.95	15.87	29.26	0
8/2/22 9:00	7.863	177.8	16.54	16.58	29.26	0
8/2/22 9:15	7.942	195.8	15.05	16.94	29.26	0
8/2/22 9:30	7.9	184.3	18.22	17.15	29.26	0
8/2/22 9:45	6.149	165.1	22.14	17.75	29.25	0
8/2/22 10:00	5.306	189.1	22.98	17.84	29.25	0
8/2/22 10:15	6.262	182.2	26.03	18.45	29.25	0
8/2/22 10:30	5.391	184.8	47.09	18.85	29.25	0
8/2/22 10:45	5.962	197.4	37.17	19.46	29.25	0
8/2/22 11:00	5.584	213.5	26.62	19.51	29.26	0
8/2/22 11:15	5.185	150.5	37.53	20.1	29.26	0
8/2/22 11:30	5.586	202.7	45.83	20.66	29.26	0
8/2/22 11:45	5.799	202.9	39.56	20.74	29.25	0
8/2/22 12:00	4.787	220	58.35	20.91	29.25	0
8/2/22 12:15	4.437	232.5	53.82	21.53	29.25	0
8/2/22 12:30	3.49	185.8	41.46	21.44	29.24	0
8/2/22 12:45	5.893	244.7	29.4	22.06	29.24	0
8/2/22 13:00	7.776	248	18.23	22.58	29.24	0
8/2/22 13:15	4.63	241.9	41.01	22.89	29.24	0
8/2/22 13:30	6.025	238.9	27.13	22.67	29.23	0
8/2/22 13:45	4.307	240.9	45.14	23.05	29.23	0
8/2/22 14:00	4.622	212.8	55.96	22.97	29.23	0
8/2/22 14:15	6.021	265.1	29.56	23.47	29.23	0
8/2/22 14:30	5.268	248	23.71	23.65	29.22	0
8/2/22 14:45	3.382	273.7	54.63	23.81	29.22	0
8/2/22 15:00	4.311	273.3	50.39	24.1	29.21	0
8/2/22 15:15	5.858	249.4	45.82	24.26	29.21	0
8/2/22 15:30	6.046	264.1	24.35	24.16	29.21	0
8/2/22 15:45	6.791	228.6	26.28	24.28	29.21	0
8/2/22 16:00	9.09	233.8	15	24.17	29.21	0
8/2/22 16:15	6.936	230.4	23.8	24.04	29.21	0
8/2/22 16:30	7.728	267.8	15.58	24.06	29.2	0
8/2/22 16:45	7.241	271.5	16.4	24.07	29.2	0
8/2/22 17:00	8.39	268	14.98	23.98	29.2	0
8/2/22 17:15	7.013	263.2	10.36	23.92	29.2	0
8/2/22 17:30	5.955	242.6	31.88	23.67	29.19	0
8/2/22 17:45	5.427	273.7	18.48	23.8	29.19	0
8/2/22 18:00	6.521	279.8	13.27	23.63	29.19	0
8/2/22 18:15	5.324	269.2	18.66	23.54	29.19	0
8/2/22 18:30	3.897	256.1	14.27	23.42	29.19	0
8/2/22 18:45	3.494	254.6	30.84	23.26	29.18	0
8/2/22 19:00	3.753	219.9	12.9	23	29.18	0
8/2/22 19:15	3.022	237.6	15.5	22.75	29.18	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
8/2/22 19:30	2.566	239.8	5.582	22.38	29.17	0
8/2/22 19:45	1.284	210.3	18.81	22.08	29.17	0
8/2/22 20:00	0.665	159.2	50.8	21.33	29.18	0
8/2/22 20:15	1.064	43.39	11.08	20.37	29.18	0
8/2/22 20:30	1.99	56.57	12.17	20.13	29.18	0
8/2/22 20:45	1.533	34.49	1.446	19.69	29.19	0
8/2/22 21:00	1.432	36.98	1.926	19.24	29.18	0
8/2/22 21:15	1.938	33.55	5.119	19.19	29.18	0
8/2/22 21:30	1.891	39.86	0.333	19.01	29.18	0
8/2/22 21:45	0.334	43.59	1.829	18.98	29.18	0
8/2/22 22:00	5.263	204.5	31.47	18.22	29.18	0
8/2/22 22:15	6.868	186.8	9.52	17.34	29.19	0
8/2/22 22:30	5.677	186.8	9.13	17.84	29.19	0
8/2/22 22:45	2.671	127.5	33.97	16.86	29.19	0
8/2/22 23:00	1.97	142.6	30.08	16.39	29.19	0
8/2/22 23:15	1.82	131.3	24.59	16.67	29.19	0
8/2/22 23:30	3.148	120.2	14.08	16.31	29.19	0
8/2/22 23:45	4.318	169.4	13.87	16.28	29.19	0
8/3/22 0:00	4.693	168.5	7.377	16.31	29.19	0
8/3/22 0:15	4.918	178.1	4.333	15.9	29.19	0
8/3/22 0:30	4.948	187.7	11.11	16	29.19	0
8/3/22 0:45	3.098	192.2	9.61	16.12	29.19	0
8/3/22 1:00	2.353	174.1	14.89	16.24	29.19	0
8/3/22 1:15	2.949	151.3	5.311	16.06	29.18	0
8/3/22 1:30	2.68	134.9	9.65	15.79	29.18	0
8/3/22 1:45	2.915	129	6.895	15.49	29.18	0
8/3/22 2:00	2.819	131.6	4.878	15.35	29.17	0
8/3/22 2:15	3.403	135	4.268	15.48	29.17	0
8/3/22 2:30	3.155	162.6	13.23	15.49	29.17	0
8/3/22 2:45	4.314	182.2	9.16	15.7	29.17	0
8/3/22 3:00	5.236	176.6	6.589	14.21	29.17	0
8/3/22 3:15	5.395	177	5.892	13.92	29.16	0
8/3/22 3:30	4.944	207.5	15.46	13.63	29.17	0
8/3/22 3:45	3.727	212.3	9.44	13.61	29.17	0
8/3/22 4:00	3.535	217	9.03	13.57	29.17	0
8/3/22 4:15	1.703	181.1	16.83	13.66	29.17	0
8/3/22 4:30	1.955	165.6	9.69	13.43	29.17	0
8/3/22 4:45	2.277	153.7	9.45	12.9	29.17	0
8/3/22 5:00	2.243	147.9	8.18	12.68	29.17	0
8/3/22 5:15	4.245	161.3	5.795	12.58	29.17	0
8/3/22 5:30	5.398	168.9	5.419	12.51	29.17	0
8/3/22 5:45	5.659	167	5.156	12.46	29.17	0
8/3/22 6:00	3.674	161.6	6.595	12.52	29.17	0
8/3/22 6:15	4.222	165.1	9.55	12.72	29.17	0
8/3/22 6:30	4.52	174.7	8.61	12.8	29.17	0
8/3/22 6:45	4.014	178.8	11.4	13.08	29.17	0
8/3/22 7:00	4.278	172.6	13.96	13.33	29.17	0
8/3/22 7:15	4.958	163.7	11.11	13.69	29.17	0
8/3/22 7:30	4.136	177	17.35	14.13	29.17	0
8/3/22 7:45	4.347	217.1	28.33	14.87	29.17	0
8/3/22 8:00	6.344	217.2	12.06	14.38	29.17	0
8/3/22 8:15	6.259	218.9	11.72	14.24	29.16	0
8/3/22 8:30	6.495	217.1	14.86	14.52	29.16	0
8/3/22 8:45	5.91	227.1	16.8	14.73	29.16	0
8/3/22 9:00	6.642	217.8	15.24	14.83	29.16	0
8/3/22 9:15	6.541	238.7	14.16	15.38	29.16	0
8/3/22 9:30	4.753	227.4	17.13	15.74	29.16	0
8/3/22 9:45	6.341	243.3	19.27	16.53	29.16	0
8/3/22 10:00	5.424	219.4	24.16	16.63	29.15	0
8/3/22 10:15	5.463	241.1	18.08	17.02	29.15	0
8/3/22 10:30	5.154	253.6	24.67	17.6	29.15	0
8/3/22 10:45	4.544	227	40.55	17.98	29.14	0
8/3/22 11:00	4.181	222.1	26.95	18.44	29.14	0
8/3/22 11:15	4.865	201.8	37.26	19.32	29.14	0
8/3/22 11:30	5.244	252.7	23.52	19.56	29.14	0
8/3/22 11:45	6.179	253.1	27.68	19.4	29.13	0
8/3/22 12:00	5.675	260	34.73	19.88	29.13	0
8/3/22 12:15	6.893	223.8	26.4	20.08	29.13	0
8/3/22 12:30	3.234	192.7	49.25	20.25	29.13	0
8/3/22 12:45	5.295	184.2	27.06	20.84	29.13	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
8/3/22 13:00	3.9	225.6	49.19	21.26	29.12	0
8/3/22 13:15	5.816	232	26.83	21.44	29.12	0
8/3/22 13:30	7.806	212.5	22.51	21.82	29.12	0
8/3/22 13:45	7.59	211.9	16.23	21.86	29.12	0
8/3/22 14:00	6.201	225.2	28.77	22.11	29.12	0
8/3/22 14:15	9.41	205.3	24.18	22.55	29.11	0
8/3/22 14:30	8.84	192.4	21.62	22.59	29.11	0
8/3/22 14:45	8.14	224.3	28.51	22.92	29.1	0
8/3/22 15:00	8.8	219.1	17.98	23.04	29.1	0
8/3/22 15:15	7.416	225	25.12	23.01	29.1	0
8/3/22 15:30	10.25	248.1	10.5	22.99	29.1	0
8/3/22 15:45	10.88	227.5	11.17	22.97	29.1	0
8/3/22 16:00	7.241	237.9	27.11	22.75	29.09	0
8/3/22 16:15	6.485	228.4	19.17	22.46	29.09	0
8/3/22 16:30	9.83	233.5	25.11	22.49	29.09	0
8/3/22 16:45	8.03	225.1	19.02	22.47	29.09	0
8/3/22 17:00	9.18	249.8	19.34	22.23	29.09	0
8/3/22 17:15	8.97	244.1	8.96	21.63	29.09	0
8/3/22 17:30	9.73	239.2	9.56	21.36	29.09	0
8/3/22 17:45	10.71	236	8.09	21.02	29.09	0
8/3/22 18:00	9.24	241.4	11.37	20.65	29.09	0
8/3/22 18:15	10.93	245	8.33	20.07	29.09	0
8/3/22 18:30	10.74	244.1	8.41	19.48	29.09	0
8/3/22 18:45	10.06	249.3	12.35	18.92	29.09	0
8/3/22 19:00	10.63	244.5	8.84	18.17	29.09	0
8/3/22 19:15	9.04	240.5	10.24	17.78	29.09	0
8/3/22 19:30	8.85	233.1	7.687	17.25	29.09	0
8/3/22 19:45	8.39	238	9.03	16.75	29.09	0
8/3/22 20:00	10.41	237.9	7.725	16.3	29.1	0
8/3/22 20:15	8.31	222.5	14.78	16	29.11	0
8/3/22 20:30	6.738	210.3	12.36	15.81	29.12	0
8/3/22 20:45	5.625	201.6	14.99	15.5	29.12	0
8/3/22 21:00	4.22	157.5	15.11	15.01	29.12	0
8/3/22 21:15	4.032	187.9	10.79	15.38	29.12	0
8/3/22 21:30	3.895	203.6	18.95	15.61	29.12	0
8/3/22 21:45	5.654	207.7	15.52	15.44	29.12	0
8/3/22 22:00	9.23	215	7.882	15.09	29.12	0
8/3/22 22:15	6.847	222.5	11.8	15.11	29.12	0
8/3/22 22:30	6.234	225	15.15	14.95	29.13	0
8/3/22 22:45	6.337	187.6	10.45	14.97	29.12	0
8/3/22 23:00	5.609	177.4	7.999	14.89	29.12	0
8/3/22 23:15	8.45	178.7	8.55	14.98	29.13	0
8/3/22 23:30	10.72	173.8	8.25	14.84	29.13	0
8/3/22 23:45	9.82	179.5	9.33	14.69	29.14	0
8/4/22 0:00	9.92	175.8	8.87	14.58	29.15	0
8/4/22 0:15	9.4	166.8	9.35	14.47	29.15	0
8/4/22 0:30	8.52	166.2	8.79	14.46	29.15	0
8/4/22 0:45	9.41	164	7.589	14.35	29.15	0
8/4/22 1:00	8.47	158.8	10.54	14.33	29.15	0
8/4/22 1:15	9.2	152.9	9.1	14.3	29.14	0
8/4/22 1:30	9.6	162.7	10.38	14.38	29.14	0
8/4/22 1:45	9.51	159.9	12.35	14.39	29.14	0
8/4/22 2:00	8.85	145	8.22	14.3	29.14	0
8/4/22 2:15	8.18	146.1	8.51	14.27	29.14	0
8/4/22 2:30	7.891	149.4	8.13	14.25	29.14	0
8/4/22 2:45	5.979	159	14.09	14.34	29.14	0
8/4/22 3:00	6.327	167.4	10.47	14.39	29.14	0
8/4/22 3:15	6.02	154.4	12.84	14.35	29.14	0
8/4/22 3:30	6.155	145.5	15.42	14.27	29.14	0
8/4/22 3:45	7.444	159.8	11.33	14.34	29.14	0
8/4/22 4:00	7.936	162.4	11.99	13.96	29.14	0
8/4/22 4:15	9.08	175.5	10.6	13.62	29.14	0
8/4/22 4:30	5.441	147.1	13.82	13.36	29.14	0
8/4/22 4:45	7.126	152.5	15.29	13.29	29.14	0
8/4/22 5:00	7.013	146.9	15.07	13.14	29.15	0
8/4/22 5:15	5.045	123.3	12.59	12.96	29.15	0
8/4/22 5:30	5.845	129.2	11.93	12.99	29.16	0
8/4/22 5:45	4.771	119.3	8.6	13.05	29.17	0
8/4/22 6:00	4.074	113.7	9.6	13.11	29.17	0
8/4/22 6:15	4.662	112.5	8.64	13.24	29.17	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
8/4/22 6:30	5.097	103.9	9.34	13.32	29.17	0
8/4/22 6:45	6.17	107.9	9.18	13.37	29.17	0
8/4/22 7:00	6.362	116.2	10.37	13.61	29.18	0
8/4/22 7:15	6.352	117.9	11.06	13.86	29.18	0
8/4/22 7:30	6.5	124.3	12.76	14.13	29.18	0
8/4/22 7:45	6.749	134.6	12.22	14.36	29.19	0
8/4/22 8:00	8.15	155.8	17.02	14.65	29.19	0
8/4/22 8:15	8.11	148.6	14.16	14.77	29.19	0
8/4/22 8:30	7.727	146.6	13.82	15.08	29.19	0
8/4/22 8:45	7.674	174.4	10.5	15.3	29.19	0
8/4/22 9:00	7.211	187.6	20.36	15.93	29.2	0
8/4/22 9:15	9.73	214.6	8.81	15.9	29.21	0
8/4/22 9:30	9.22	208.8	7.667	15.98	29.21	0
8/4/22 9:45	6.707	257.7	22.27	15.94	29.22	0
8/4/22 10:00	5.297	219.1	25.25	16.13	29.22	0
8/4/22 10:15	6.869	231	22.76	16.11	29.23	0
8/4/22 10:30	5.213	238.7	25.97	16.27	29.23	0
8/4/22 10:45	4.877	217.9	18.48	16.38	29.23	0
8/4/22 11:00	3.815	234.1	20.44	16.76	29.23	0
8/4/22 11:15	3.193	212	35.02	16.94	29.24	0
8/4/22 11:30	4.969	188.7	35.37	18.07	29.24	0
8/4/22 11:45	10.24	13.56	33.38	15.52	29.24	0
8/4/22 12:00	13.86	12.77	12.09	13.96	29.24	0
8/4/22 12:15	12.96	7.82	11.16	13.87	29.25	0
8/4/22 12:30	12.92	11.28	13.16	14.37	29.25	0
8/4/22 12:45	14.26	13.27	12.78	15.16	29.25	0
8/4/22 13:00	13.8	10.4	13.72	15.72	29.25	0
8/4/22 13:15	11.91	13.51	12.85	15.83	29.26	0
8/4/22 13:30	13.64	11.86	10.65	15.97	29.26	0
8/4/22 13:45	13.58	13.78	12.75	16.38	29.25	0
8/4/22 14:00	11.88	13.15	12.97	16.83	29.26	0
8/4/22 14:15	13.47	9.98	15.99	16.96	29.26	0
8/4/22 14:30	14.33	14.81	12.98	17.17	29.26	0
8/4/22 14:45	13.8	11.53	14.68	17.55	29.25	0
8/4/22 15:00	12.42	12.32	11.57	17.14	29.25	0
8/4/22 15:15	12.42	14.83	14.8	17.46	29.25	0
8/4/22 15:30	11.84	12.82	12.71	17.87	29.25	0
8/4/22 15:45	10.46	10.14	12.01	17.73	29.25	0
8/4/22 16:00	11.19	13.26	12.95	18.05	29.25	0
8/4/22 16:15	11.54	5.571	12.43	18.17	29.25	0
8/4/22 16:30	10.56	12.66	13.55	18.13	29.25	0
8/4/22 16:45	9.94	8.74	11.99	17.78	29.24	0
8/4/22 17:00	11.09	3.799	13.95	18.23	29.24	0
8/4/22 17:15	11.55	3.297	13.87	18.25	29.23	0
8/4/22 17:30	10.68	1.196	15.78	18.18	29.23	0
8/4/22 17:45	11.05	359.6	13.75	17.9	29.23	0
8/4/22 18:00	10.13	3.225	14.08	17.96	29.23	0
8/4/22 18:15	10.57	4.371	15.09	17.77	29.23	0
8/4/22 18:30	10.39	4.545	15.07	17.5	29.23	0
8/4/22 18:45	9.92	8.1	12.83	17.02	29.23	0
8/4/22 19:00	7.698	7.057	14.74	16.73	29.23	0
8/4/22 19:15	6.474	4.883	15.78	16.6	29.23	0
8/4/22 19:30	5.354	0.634	15.52	16.2	29.23	0
8/4/22 19:45	4.195	354.7	15.26	15.87	29.24	0
8/4/22 20:00	3.718	344.3	17.76	15.9	29.24	0
8/4/22 20:15	4.866	353.4	14.67	15.63	29.24	0
8/4/22 20:30	3.804	2.729	15.85	15.51	29.24	0
8/4/22 20:45	4.423	357.6	18.53	15.47	29.24	0
8/4/22 21:00	6.305	336.2	20.09	15.63	29.24	0
8/4/22 21:15	4.869	355.6	17.87	15.47	29.24	0
8/4/22 21:30	3.763	29.02	19.01	15.22	29.25	0
8/4/22 21:45	8.03	17.17	12.7	14.84	29.25	0
8/4/22 22:00	10.83	12.54	8.4	14.78	29.25	0
8/4/22 22:15	11.32	7.314	8.99	14.73	29.25	0
8/4/22 22:30	10.22	9.04	9.32	14.34	29.25	0
8/4/22 22:45	9.32	6.523	11.06	13.9	29.25	0
8/4/22 23:00	11.9	6.532	12.01	13.9	29.26	0
8/4/22 23:15	12.53	3.572	14.57	14.02	29.26	0
8/4/22 23:30	10.99	3.887	14.58	14.03	29.27	0
8/4/22 23:45	7.477	356.9	15.71	13.95	29.27	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
8/5/22 0:00	6.794	356.5	15.93	13.65	29.27	0
8/5/22 0:15	8.05	349.8	14.47	13.41	29.27	0
8/5/22 0:30	8.74	337.4	12.32	13.39	29.26	0
8/5/22 0:45	6.87	344	17.52	13.21	29.26	0
8/5/22 1:00	2.8	316	42.26	13.08	29.25	0
8/5/22 1:15	2.164	163.8	47.79	12.77	29.25	0
8/5/22 1:30	3.555	138.1	41.46	12.64	29.25	0
8/5/22 1:45	3.116	129.4	35.21	12.64	29.25	0
8/5/22 2:00	3.162	248.6	58.98	12.97	29.25	0
8/5/22 2:15	3.909	288.5	52.71	13.14	29.25	0
8/5/22 2:30	2.482	327.1	34.85	12.82	29.25	0
8/5/22 2:45	2.79	298.6	24.85	12.82	29.25	0
8/5/22 3:00	3.202	294.3	50.93	13.07	29.25	0
8/5/22 3:15	3.513	20.73	69.73	12.79	29.25	0
8/5/22 3:30	2.012	75.36	53.1	12.14	29.24	0
8/5/22 3:45	2.451	46.06	37.32	12.09	29.24	0
8/5/22 4:00	4.12	24.7	23.64	11.7	29.24	0
8/5/22 4:15	4.959	24.56	8.63	11.35	29.24	0
8/5/22 4:30	5.24	15.44	13.97	11.13	29.24	0
8/5/22 4:45	7.01	16.4	7.905	11.19	29.24	0
8/5/22 5:00	7.236	14.9	10.65	11.07	29.24	0
8/5/22 5:15	5.664	17.23	8.11	10.81	29.24	0
8/5/22 5:30	7.503	12.51	12.4	10.99	29.24	0
8/5/22 5:45	7.828	25.97	7.68	11.53	29.25	0
8/5/22 6:00	7.025	26.57	9.52	11.83	29.25	0
8/5/22 6:15	8.61	23.98	8.07	11.84	29.25	0
8/5/22 6:30	7.811	27.39	8.45	11.97	29.25	0
8/5/22 6:45	7.343	27.31	8.79	12.13	29.25	0
8/5/22 7:00	5.913	28.2	10.9	12.42	29.26	0
8/5/22 7:15	6.325	28.6	12.22	12.75	29.26	0
8/5/22 7:30	5.112	32.25	11.95	13.36	29.26	0
8/5/22 7:45	3.029	19.2	25.93	13.97	29.26	0
8/5/22 8:00	2.319	350.1	26.86	14.8	29.26	0
8/5/22 8:15	2.183	340.6	35.59	15.52	29.26	0
8/5/22 8:30	2.727	337	24.76	16.32	29.25	0
8/5/22 8:45	3.728	35.69	30.29	17.14	29.25	0
8/5/22 9:00	6.143	25.99	12.58	17.11	29.25	0
8/5/22 9:15	8.24	25.25	17.16	17.15	29.25	0
8/5/22 9:30	9.9	17.95	14.39	17.1	29.25	0
8/5/22 9:45	10.72	12.83	14.1	16.95	29.25	0
8/5/22 10:00	10.27	13.45	13.19	16.97	29.25	0
8/5/22 10:15	11.2	13.22	13.55	17.3	29.25	0
8/5/22 10:30	9.3	353.7	21.36	17.52	29.25	0
8/5/22 10:45	9.15	5.431	18.81	17.65	29.25	0
8/5/22 11:00	10.67	11.59	16.29	18.01	29.24	0
8/5/22 11:15	10.32	14.18	14.3	18.21	29.24	0
8/5/22 11:30	10.18	13.27	16.15	18.85	29.24	0
8/5/22 11:45	9.37	25.7	12.46	19.47	29.24	0
8/5/22 12:00	9.06	20.43	14.26	20.01	29.23	0
8/5/22 12:15	7.588	8.72	20.29	20.33	29.23	0
8/5/22 12:30	7.401	334.8	27.89	21.02	29.23	0
8/5/22 12:45	8.04	299.6	15.28	21.46	29.23	0
8/5/22 13:00	7.469	332.9	26.27	21.51	29.22	0
8/5/22 13:15	5.808	325	36.23	21.83	29.22	0
8/5/22 13:30	5.653	11.29	46.69	22.21	29.22	0
8/5/22 13:45	5.624	333.1	35.22	22.37	29.22	0
8/5/22 14:00	6.595	331.2	35.44	22.34	29.22	0
8/5/22 14:15	8.64	5.756	17.4	22.33	29.21	0
8/5/22 14:30	8.71	18.79	13.45	22.45	29.21	0
8/5/22 14:45	9.42	26.21	10.67	22.38	29.21	0
8/5/22 15:00	8.19	3.763	25.39	22.63	29.21	0
8/5/22 15:15	9.5	13.06	15.13	22.67	29.2	0
8/5/22 15:30	9.38	20.94	13.63	22.54	29.2	0
8/5/22 15:45	7.737	359.9	20.98	23.12	29.2	0
8/5/22 16:00	8.44	11.27	15.38	22.81	29.2	0
8/5/22 16:15	8.11	6.837	18.87	22.94	29.19	0
8/5/22 16:30	8.59	1.421	14.67	22.65	29.19	0
8/5/22 16:45	8.62	339.4	18.91	22.73	29.19	0
8/5/22 17:00	9.8	342.6	14.73	22.68	29.19	0
8/5/22 17:15	8.6	329.9	17.75	22.66	29.19	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
8/5/22 17:30	8.35	330.9	14.16	22.59	29.19	0
8/5/22 17:45	7.779	328.5	12.03	22.5	29.18	0
8/5/22 18:00	10.63	325.2	8.8	22.14	29.18	0
8/5/22 18:15	9.11	332.2	11.79	21.96	29.18	0
8/5/22 18:30	10.05	336.7	7.408	21.76	29.18	0
8/5/22 18:45	9.27	322.6	13.96	21.33	29.18	0
8/5/22 19:00	9.17	328.5	10.02	20.95	29.18	0
8/5/22 19:15	7.356	321.8	10.97	20.56	29.19	0
8/5/22 19:30	7.622	312.1	7.008	20.21	29.19	0
8/5/22 19:45	7.579	315.2	5.068	19.35	29.19	0
8/5/22 20:00	7.236	320.4	4.632	18.97	29.2	0
8/5/22 20:15	5.822	321	6.485	18.43	29.2	0
8/5/22 20:30	6.545	327.7	8.23	18	29.21	0
8/5/22 20:45	6.632	344	10.71	18.24	29.21	0
8/5/22 21:00	4.403	5.563	14.96	18.33	29.21	0
8/5/22 21:15	3.268	21.65	26.92	18.11	29.22	0
8/5/22 21:30	4.425	33.35	21.72	17.86	29.22	0
8/5/22 21:45	4.001	36.57	17.98	17.85	29.22	0
8/5/22 22:00	3.996	53.59	13.3	17.77	29.22	0
8/5/22 22:15	4.865	46.72	12.92	17.5	29.23	0
8/5/22 22:30	3.794	22.63	14.42	17.48	29.23	0
8/5/22 22:45	3.373	21.93	14.75	17.6	29.23	0
8/5/22 23:00	3.933	12.07	20.61	17.69	29.23	0
8/5/22 23:15	4.6	16.8	13.45	17.65	29.23	0
8/5/22 23:30	5.603	12.11	12.12	17.48	29.23	0
8/5/22 23:45	6.716	3.008	13.46	17.19	29.23	0
8/6/22 0:00	7.171	11.28	10.11	16.8	29.23	0
8/6/22 0:15	7.174	19.83	6.503	15.97	29.23	0
8/6/22 0:30	7.324	8.99	6.677	15.92	29.23	0
8/6/22 0:45	6.157	17.69	14.64	15.48	29.23	0
8/6/22 1:00	1.902	74.12	10.05	14.35	29.23	0
8/6/22 1:15	1.467	55.1	16.12	14.47	29.23	0
8/6/22 1:30	1.448	38.33	16.7	14.74	29.24	0
8/6/22 1:45	0.475	26.73	3.731	14.94	29.24	0
8/6/22 2:00	0.456	45.21	5.669	14.42	29.23	0
8/6/22 2:15	1.938	118.1	51.97	14.71	29.23	0
8/6/22 2:30	1.007	126.2	59.2	15.33	29.24	0
8/6/22 2:45	0.575	66.33	6.488	15.87	29.24	0
8/6/22 3:00	0.434	47.09	5.182	15.54	29.24	0
8/6/22 3:15	1.457	51.06	6.59	14.93	29.24	0
8/6/22 3:30	0.8	83.3	31.85	14.81	29.24	0
8/6/22 3:45	2.15	115.6	10.88	15	29.24	0
8/6/22 4:00	2.168	106.6	14.51	14.75	29.24	0
8/6/22 4:15	2.584	150.4	12.71	15.11	29.24	0
8/6/22 4:30	3.592	157.4	4.806	14.99	29.24	0
8/6/22 4:45	2.216	148.9	11.56	14.64	29.24	0
8/6/22 5:00	1.529	164.1	47.89	14.39	29.25	0
8/6/22 5:15	1.799	74.85	78.28	14.4	29.25	0
8/6/22 5:30	0.674	294.7	32.82	13.96	29.25	0
8/6/22 5:45	0.812	214.1	42.66	14	29.26	0
8/6/22 6:00	0.123	130.8	21.62	15.24	29.26	0
8/6/22 6:15	0.694	330	49.05	15.57	29.26	0
8/6/22 6:30	1.19	357.4	85.7	15.2	29.26	0
8/6/22 6:45	0.366	31.99	3.146	16.38	29.27	0
8/6/22 7:00	1.36	17.89	76.35	16.69	29.27	0
8/6/22 7:15	1.322	170.8	24.94	16.56	29.27	0
8/6/22 7:30	1.123	94.2	18.32	18.03	29.27	0
8/6/22 7:45	2.096	111.4	44.18	18.62	29.27	0
8/6/22 8:00	1.463	219	34.88	18.34	29.27	0
8/6/22 8:15	1.72	188.6	52.1	18.97	29.27	0
8/6/22 8:30	2.13	281.6	65.08	19.64	29.27	0
8/6/22 8:45	1.939	314.8	35.36	20.26	29.27	0
8/6/22 9:00	2.237	286.3	32.54	20.13	29.27	0
8/6/22 9:15	3.741	284.9	27.41	20.37	29.27	0
8/6/22 9:30	5.063	311.4	15.44	20.75	29.27	0
8/6/22 9:45	4.506	351.1	20.66	21.08	29.27	0
8/6/22 10:00	3.785	339.4	36.39	21.54	29.28	0
8/6/22 10:15	4.194	325.8	21.96	21.81	29.28	0
8/6/22 10:30	5.814	23.73	19.68	22.08	29.27	0
8/6/22 10:45	6.124	32.66	14.77	22.99	29.27	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
8/6/22 11:00	7.674	36.42	17.3	23.02	29.27	0
8/6/22 11:15	6.176	28.95	14.5	23.4	29.27	0
8/6/22 11:30	7.206	29.84	16.19	23.93	29.27	0
8/6/22 11:45	7.309	357.8	32.6	24.21	29.26	0
8/6/22 12:00	6.436	324.6	23.74	24.16	29.26	0
8/6/22 12:15	5.565	318.4	22.48	24.72	29.26	0
8/6/22 12:30	6.068	307	27.91	24.92	29.25	0
8/6/22 12:45	5.92	325.7	24.43	25.47	29.25	0
8/6/22 13:00	6.38	332.8	36.51	26	29.25	0
8/6/22 13:15	6.775	313.8	20.59	26.24	29.24	0
8/6/22 13:30	6.058	319.7	29.64	26.7	29.24	0
8/6/22 13:45	5.72	320.1	23.08	26.65	29.24	0
8/6/22 14:00	7.512	345.7	32.56	26.8	29.24	0
8/6/22 14:15	6.944	344.3	26.79	26.95	29.24	0
8/6/22 14:30	7.992	17.26	18.39	27.24	29.23	0
8/6/22 14:45	7.848	14.69	16.29	27.26	29.23	0
8/6/22 15:00	8.74	346.8	22.55	27.5	29.23	0
8/6/22 15:15	9.52	340.2	18.41	27.63	29.23	0
8/6/22 15:30	8.1	345.4	19.33	27.47	29.23	0
8/6/22 15:45	9.21	340.7	20.68	27.37	29.22	0
8/6/22 16:00	10.19	324	23.64	27.55	29.22	0
8/6/22 16:15	8.95	317.1	13.91	27.76	29.22	0
8/6/22 16:30	8.59	328.9	21.81	27.68	29.22	0
8/6/22 16:45	8.94	325.2	16.21	27.49	29.22	0
8/6/22 17:00	9.08	323.5	20.16	27.41	29.21	0
8/6/22 17:15	7.775	345.1	14.09	27.07	29.21	0
8/6/22 17:30	8.45	350	14.3	26.95	29.21	0
8/6/22 17:45	8.57	341.1	14.34	26.72	29.21	0
8/6/22 18:00	7.569	341.1	16.36	26.62	29.21	0
8/6/22 18:15	7.131	333.3	13.53	26.31	29.21	0
8/6/22 18:30	6.786	318	6.986	26.02	29.21	0
8/6/22 18:45	6.68	310.6	9.75	25.62	29.21	0
8/6/22 19:00	8.39	306.5	8.08	25.16	29.21	0
8/6/22 19:15	7.834	317.8	11.15	24.75	29.21	0
8/6/22 19:30	6.453	335.7	22.49	23.87	29.22	0
8/6/22 19:45	5.916	4.487	17.15	23.17	29.22	0
8/6/22 20:00	2.793	8.56	23.44	22.57	29.22	0
8/6/22 20:15	4.959	10.57	15.85	22.14	29.22	0
8/6/22 20:30	5.331	24.16	9.04	21.41	29.23	0
8/6/22 20:45	6.507	29.87	7.532	21.13	29.23	0
8/6/22 21:00	7.596	29.82	7.122	20.81	29.23	0
8/6/22 21:15	7.589	30.28	5.762	20.45	29.23	0
8/6/22 21:30	7.433	29.65	6.895	20.2	29.23	0
8/6/22 21:45	7.605	27.96	5.876	20.39	29.23	0
8/6/22 22:00	7.071	27.14	5.873	19.98	29.23	0
8/6/22 22:15	6.732	23.97	6.874	19.61	29.23	0
8/6/22 22:30	7.527	19.68	5.46	19.38	29.23	0
8/6/22 22:45	7.004	26.56	5.11	19.41	29.23	0
8/6/22 23:00	5.23	41.98	14.54	19.39	29.23	0
8/6/22 23:15	4.379	47.32	5.586	19.38	29.23	0
8/6/22 23:30	3.958	69.14	11.14	18.46	29.23	0
8/6/22 23:45	2.568	61.42	13.56	18.01	29.23	0
8/7/22 0:00	3.391	40.13	13.26	19.45	29.23	0
8/7/22 0:15	2.952	52.86	20.79	19.57	29.23	0
8/7/22 0:30	4.53	20.79	10.56	18.24	29.23	0
8/7/22 0:45	3.473	31.38	9.26	16.75	29.23	0
8/7/22 1:00	2.34	358.1	38.59	16.33	29.23	0
8/7/22 1:15	3.347	27.04	11.03	16.66	29.23	0
8/7/22 1:30	3.478	31.91	11.16	16.37	29.23	0
8/7/22 1:45	4.557	9.72	11.92	16.03	29.23	0
8/7/22 2:00	3.606	8.11	9.82	16.04	29.23	0
8/7/22 2:15	4.551	18.96	8.44	15.97	29.23	0
8/7/22 2:30	4.229	27.09	5.562	15.32	29.23	0
8/7/22 2:45	4.725	26.28	5.076	14.9	29.22	0
8/7/22 3:00	5.014	48.35	14.57	15.05	29.22	0
8/7/22 3:15	5.269	59.96	6.13	16.12	29.23	0
8/7/22 3:30	2.03	25.38	16.36	16.06	29.23	0
8/7/22 3:45	2.623	8.53	5.409	15.76	29.23	0
8/7/22 4:00	2.643	10.01	5.944	15.81	29.23	0
8/7/22 4:15	1.608	35.68	5.137	15.82	29.22	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
8/7/22 4:30	1.927	23.85	5.604	15.77	29.22	0
8/7/22 4:45	1.579	25.53	0.966	15.58	29.23	0
8/7/22 5:00	1.313	35.99	4.099	15.26	29.22	0
8/7/22 5:15	2.029	58.9	4.319	15.26	29.23	0
8/7/22 5:30	2.192	26.54	16.98	15.7	29.23	0
8/7/22 5:45	1.635	7.318	5.197	15.51	29.24	0
8/7/22 6:00	1.89	120.8	17.03	15.71	29.24	0
8/7/22 6:15	0.433	35.58	41.8	18.25	29.24	0
8/7/22 6:30	0.975	75.65	35.67	18.68	29.24	0
8/7/22 6:45	1.119	75.2	23.69	19	29.25	0
8/7/22 7:00	2.031	23.28	8.38	18.53	29.25	0
8/7/22 7:15	2.163	30.26	10.26	18.09	29.25	0
8/7/22 7:30	2.344	24.49	10.5	18.88	29.25	0
8/7/22 7:45	2.259	20.57	12.13	19.5	29.25	0
8/7/22 8:00	2.522	27.26	18.67	20.21	29.25	0
8/7/22 8:15	3.153	48.77	12.56	20.67	29.26	0
8/7/22 8:30	2.842	38.62	17.92	21.21	29.25	0
8/7/22 8:45	3.364	26.14	21.55	21.58	29.25	0
8/7/22 9:00	3.07	35.07	15.78	22.09	29.25	0
8/7/22 9:15	4.167	20.06	16.51	22.39	29.25	0
8/7/22 9:30	2.578	39.5	13.63	23.15	29.25	0
8/7/22 9:45	3.501	20.09	16.66	23.77	29.25	0
8/7/22 10:00	4.367	30.44	21.12	24.41	29.24	0
8/7/22 10:15	5.224	24.28	17.47	24.83	29.24	0
8/7/22 10:30	7.631	15.54	15.27	25.21	29.24	0
8/7/22 10:45	6.638	21.64	18.02	25.82	29.24	0
8/7/22 11:00	6.774	18.64	14.2	26.43	29.23	0
8/7/22 11:15	6.302	26.32	11	26.8	29.23	0
8/7/22 11:30	7.908	24.87	8.44	27.02	29.23	0
8/7/22 11:45	7.258	12.58	12.88	27.49	29.22	0
8/7/22 12:00	7.288	25.54	17.95	27.82	29.22	0
8/7/22 12:15	7.698	33.66	14.75	28.54	29.22	0
8/7/22 12:30	5.266	339.2	39.66	28.79	29.21	0
8/7/22 12:45	4.26	339.4	37.04	29.38	29.21	0
8/7/22 13:00	5.552	333.6	30.24	29.81	29.21	0
8/7/22 13:15	6.427	322	37.03	30.19	29.21	0
8/7/22 13:30	7.359	316.1	23.65	30.7	29.2	0
8/7/22 13:45	6.997	359.2	25.43	30.83	29.2	0
8/7/22 14:00	7.234	355.5	25.84	30.86	29.19	0
8/7/22 14:15	9.51	19.78	16.36	30.61	29.19	0
8/7/22 14:30	9.13	16.79	13.6	30.85	29.18	0
8/7/22 14:45	10.67	16.71	11.42	30.84	29.18	0
8/7/22 15:00	9.26	14.01	15.2	31	29.18	0
8/7/22 15:15	8.41	3.161	21.27	31.15	29.18	0
8/7/22 15:30	6.491	346.4	25.95	31.62	29.17	0
8/7/22 15:45	8.36	345.3	20.48	31.43	29.17	0
8/7/22 16:00	8.35	355.5	25.11	31.26	29.17	0
8/7/22 16:15	7.184	340.1	23.5	31.48	29.16	0
8/7/22 16:30	7.73	328.1	21.18	31.4	29.16	0
8/7/22 16:45	7.524	335.3	28.47	31.23	29.16	0
8/7/22 17:00	6.922	322	13.66	31.18	29.15	0
8/7/22 17:15	6.151	315.5	14.72	30.96	29.15	0
8/7/22 17:30	4.569	321.1	17.04	30.94	29.15	0
8/7/22 17:45	4.49	321.6	20.87	30.65	29.14	0
8/7/22 18:00	5.122	329.2	27.18	30.21	29.14	0
8/7/22 18:15	5.748	297.4	14.09	29.68	29.14	0
8/7/22 18:30	5.801	303.4	23.62	29.35	29.14	0
8/7/22 18:45	6.566	305.7	8.55	28.7	29.15	0
8/7/22 19:00	7.48	315.4	7.099	28.06	29.15	0
8/7/22 19:15	7.258	336.7	9.39	27.18	29.15	0
8/7/22 19:30	8.03	327.5	15.55	26.82	29.15	0
8/7/22 19:45	9.3	334.4	13.39	26.62	29.15	0
8/7/22 20:00	7.902	353.1	14.95	26.11	29.15	0
8/7/22 20:15	8.41	9.65	8.83	25.33	29.15	0
8/7/22 20:30	8.61	18.81	5.237	24.56	29.15	0
8/7/22 20:45	9.25	19.27	5.149	23.66	29.16	0
8/7/22 21:00	8.01	30.55	8.89	23.58	29.16	0
8/7/22 21:15	7.161	29.9	12.39	23.5	29.16	0
8/7/22 21:30	7.095	22.45	11.85	23.52	29.16	0
8/7/22 21:45	7.98	14.56	12.78	23.6	29.16	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
8/7/22 22:00	9.89	22.97	8.36	23.4	29.16	0
8/7/22 22:15	10.39	24.19	6.091	23.19	29.16	0
8/7/22 22:30	8.7	24.64	5.679	22.47	29.16	0
8/7/22 22:45	6.508	25.02	7.093	21.45	29.16	0
8/7/22 23:00	2.979	24.91	20	20.82	29.17	0
8/7/22 23:15	0.964	15.09	21.34	20.43	29.17	0
8/7/22 23:30	4.221	14.91	9.7	20.47	29.17	0
8/7/22 23:45	4.825	44.76	20.49	19.38	29.17	0
8/8/22 0:00	3.972	50.26	9.07	19.79	29.17	0
8/8/22 0:15	3.128	26.93	10.21	20.79	29.17	0
8/8/22 0:30	0.072	28.74	0.317	20.87	29.17	0
8/8/22 0:45	0.246	34.25	0.022	20.4	29.17	0
8/8/22 1:00	1.656	46.09	6.318	20.25	29.17	0
8/8/22 1:15	1.075	34.98	9.99	20.94	29.17	0
8/8/22 1:30	0.622	31.53	3.031	20.6	29.17	0
8/8/22 1:45	0.121	51.27	0.063	20.9	29.17	0
8/8/22 2:00	0.58	49.52	2.239	20.6	29.17	0
8/8/22 2:15	0.443	42.75	0.108	20.24	29.17	0
8/8/22 2:30	0.123	70.72	1.916	20.6	29.17	0
8/8/22 2:45	0.563	227.2	29.72	19.37	29.17	0
8/8/22 3:00	0.207	319.4	4.95	19.12	29.17	0
8/8/22 3:15	1.275	340.1	9.84	19.68	29.17	0
8/8/22 3:30	0.52	92.7	1.869	20.19	29.16	0
8/8/22 3:45	1.748	177.5	14.5	19.77	29.16	0
8/8/22 4:00	1.339	157.4	6.048	19.54	29.16	0
8/8/22 4:15	0.075	148.6	0.031	19.08	29.16	0
8/8/22 4:30	0.296	119.6	9.99	19.2	29.16	0
8/8/22 4:45	1.086	164.1	5.986	18.94	29.16	0
8/8/22 5:00	0.359	13.23	14.18	18.69	29.16	0
8/8/22 5:15	1.575	337.3	10.89	18.31	29.16	0
8/8/22 5:30	1.703	355.8	10.37	17.97	29.16	0
8/8/22 5:45	2.079	8.83	6.776	17.81	29.17	0
8/8/22 6:00	2.991	12.84	5.591	17.51	29.17	0
8/8/22 6:15	0.908	13.84	18.84	18.19	29.17	0
8/8/22 6:30	0.049	34.44	18.5	19.52	29.18	0
8/8/22 6:45	0.482	43.14	28.7	20.44	29.17	0
8/8/22 7:00	1.61	276	30.11	20.33	29.18	0
8/8/22 7:15	1.493	322.1	33.34	21.03	29.18	0
8/8/22 7:30	1.966	141.4	73.95	21.53	29.18	0
8/8/22 7:45	1.426	104.7	67.48	21.5	29.18	0
8/8/22 8:00	2.335	308.3	44.46	22.24	29.18	0
8/8/22 8:15	2.052	274.3	28.18	22.09	29.18	0
8/8/22 8:30	3.039	243.9	32.88	22.93	29.18	0
8/8/22 8:45	2.957	263.2	32.56	22.99	29.17	0
8/8/22 9:00	3.164	238.2	19.15	23.42	29.17	0
8/8/22 9:15	2.221	268.9	28.51	24.24	29.17	0
8/8/22 9:30	2.6	278	29.45	24.6	29.17	0
8/8/22 9:45	3.475	277.9	21.89	24.92	29.17	0
8/8/22 10:00	3.368	269.2	29.17	25.37	29.17	0
8/8/22 10:15	4.156	302.5	25.04	26.01	29.16	0
8/8/22 10:30	2.87	278.4	61.41	26.32	29.16	0
8/8/22 10:45	5.154	252.4	23.5	26.46	29.16	0
8/8/22 11:00	3.962	263.2	22.47	26.9	29.16	0
8/8/22 11:15	4.475	292.8	32.76	27.27	29.16	0
8/8/22 11:30	3.666	269.2	26.75	27.55	29.16	0
8/8/22 11:45	5.015	265.1	27.91	27.94	29.16	0
8/8/22 12:00	5.802	278.6	25.03	28.13	29.16	0
8/8/22 12:15	5.081	298.4	34.04	28.48	29.15	0
8/8/22 12:30	5.547	299.4	28.96	29.16	29.15	0
8/8/22 12:45	4.965	315.7	38.74	29.39	29.15	0
8/8/22 13:00	6.136	319.1	26.51	29.72	29.14	0
8/8/22 13:15	6.236	321.5	19.63	30.22	29.14	0
8/8/22 13:30	6.911	274.6	20.34	30.43	29.13	0
8/8/22 13:45	7.187	289.7	18.2	31.21	29.13	0
8/8/22 14:00	6.145	304.7	23.47	31.7	29.12	0
8/8/22 14:15	5.858	322.7	24.76	31.55	29.12	0
8/8/22 14:30	7.029	330.7	18.27	31.71	29.11	0
8/8/22 14:45	6.838	310.4	18.91	31.85	29.11	0
8/8/22 15:00	6.68	302.7	19.15	32.18	29.11	0
8/8/22 15:15	8.16	304.8	17.78	32.29	29.1	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/8/22 15:30	6.669	322	33.77	32.46	29.1	0
8/8/22 15:45	8.41	359.4	16.27	31.95	29.09	0
8/8/22 16:00	8.18	356.8	15.71	31.75	29.09	0
8/8/22 16:15	7.507	343	22.32	31.8	29.09	0
8/8/22 16:30	8.29	331.7	10.46	31.65	29.08	0
8/8/22 16:45	9.15	341.5	8.88	30.84	29.08	0
8/8/22 17:00	8.57	318.8	10.96	31.07	29.08	0
8/8/22 17:15	9.39	300.3	9.91	30.84	29.08	0
8/8/22 17:30	11.47	309.5	6.261	30.06	29.08	0
8/8/22 17:45	8.74	298.4	8.58	29.37	29.08	0
8/8/22 18:00	7.913	298.6	9.61	29.57	29.08	0
8/8/22 18:15	7.057	299.7	10.02	29.15	29.08	0
8/8/22 18:30	7.692	306.8	7.876	28.72	29.08	0
8/8/22 18:45	5.789	300.4	6.192	28.4	29.08	0
8/8/22 19:00	3.789	324.7	9.43	27.86	29.09	0
8/8/22 19:15	4.118	319.2	5.491	27.17	29.09	0
8/8/22 19:30	4.266	319.2	17.7	26.44	29.09	0
8/8/22 19:45	2.165	293.6	23.42	26.32	29.1	0
8/8/22 20:00	2.688	327.6	19.34	26.01	29.1	0
8/8/22 20:15	3.959	341.5	18.13	25.77	29.1	0
8/8/22 20:30	1.707	7.232	7.622	25.16	29.11	0
8/8/22 20:45	2.995	245	22.09	24.5	29.11	0
8/8/22 21:00	6.206	257.8	6.754	23.82	29.12	0
8/8/22 21:15	4.292	241.4	4.312	23.33	29.12	0
8/8/22 21:30	3.048	232.8	8.84	22.83	29.13	0
8/8/22 21:45	3.968	237.2	9.32	22.48	29.13	0
8/8/22 22:00	4.184	246.6	7.776	21.88	29.13	0
8/8/22 22:15	4.085	221	7.378	21.59	29.14	0
8/8/22 22:30	5.403	205.6	9.23	20.88	29.14	0
8/8/22 22:45	5.63	207.8	6.825	20.06	29.14	0
8/8/22 23:00	5.875	217.5	6.176	19.97	29.15	0
8/8/22 23:15	5.156	222.1	5.82	19.6	29.15	0
8/8/22 23:30	5.32	225	8.01	19.18	29.15	0
8/8/22 23:45	3.337	224.2	10.51	18.77	29.16	0
8/9/22 0:00	4.366	207.6	8.34	18.39	29.16	0
8/9/22 0:15	4.972	209.6	7.521	17.88	29.16	0
8/9/22 0:30	5.208	201.8	6.683	17.47	29.16	0
8/9/22 0:45	6.221	198.5	6.091	16.96	29.16	0
8/9/22 1:00	6.19	224.5	8.65	16.77	29.16	0
8/9/22 1:15	3.848	219	9.13	16.68	29.16	0
8/9/22 1:30	2.945	214.2	3.995	16.75	29.16	0
8/9/22 1:45	4.089	206.7	5.059	16.49	29.17	0
8/9/22 2:00	3.563	216.1	6.973	16.28	29.17	0
8/9/22 2:15	5.106	200.1	6.499	16.05	29.17	0
8/9/22 2:30	4.367	176.1	19.52	15.63	29.18	0
8/9/22 2:45	4.23	139	8.46	15.14	29.18	0
8/9/22 3:00	3.225	143.3	15.82	15.08	29.17	0
8/9/22 3:15	2.238	161	17.97	15.09	29.17	0
8/9/22 3:30	4.093	201.5	4.703	15.41	29.17	0
8/9/22 3:45	3.997	185.6	11.74	15.19	29.16	0
8/9/22 4:00	5.022	186	2.849	14.88	29.17	0
8/9/22 4:15	3.019	185.1	11.37	14.82	29.17	0
8/9/22 4:30	3.327	168.2	7.884	14.7	29.17	0
8/9/22 4:45	2.765	218.5	34.63	14.78	29.18	0
8/9/22 5:00	6.278	314.3	8.3	14.62	29.15	0
8/9/22 5:15	9	316.5	6.47	14.64	29.13	0
8/9/22 5:30	3.793	235.1	29.1	14.9	29.15	0
8/9/22 5:45	7.785	209	12.18	14.88	29.16	0
8/9/22 6:00	6.305	191.3	16.44	14.61	29.16	0
8/9/22 6:15	5.516	185.1	12.8	14.61	29.17	0
8/9/22 6:30	2.803	175.3	18.96	14.56	29.17	0
8/9/22 6:45	1.259	95.5	35.31	14.74	29.17	0
8/9/22 7:00	2.632	86.4	16.26	14.91	29.17	0
8/9/22 7:15	1.264	132.1	64.48	14.91	29.16	0
8/9/22 7:30	3.228	189.7	43.53	15.21	29.16	0
8/9/22 7:45	4.995	188.1	30.33	15.16	29.18	0
8/9/22 8:00	5.335	283.2	56.32	15.45	29.16	0
8/9/22 8:15	3.604	266.2	26.48	16.25	29.16	0
8/9/22 8:30	3.707	288.4	24.27	17.02	29.15	0
8/9/22 8:45	3.022	281.7	35.87	17.09	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
8/9/22 9:00	3.787	253.2	40.82	17.31	29.15	0
8/9/22 9:15	5.723	228.3	10.77	16.87	29.15	0
8/9/22 9:30	4.501	246.2	14.13	17.03	29.15	0
8/9/22 9:45	4.121	242.3	13.92	17.08	29.16	0
8/9/22 10:00	2.449	238.6	22.17	17	29.15	0
8/9/22 10:15	1.656	270.5	54.34	17.47	29.15	0
8/9/22 10:30	3.313	244.3	22.82	17.63	29.15	0
8/9/22 10:45	2.441	235.5	47.55	17.52	29.16	0
8/9/22 11:00	1.011	342	31.05	17.68	29.15	0
8/9/22 11:15	2.854	357.4	30.19	17.78	29.15	0
8/9/22 11:30	3.009	309.7	21.63	18.09	29.15	0
8/9/22 11:45	2.697	324.7	42.85	18.88	29.15	0
8/9/22 12:00	1.453	201.5	65.87	19.45	29.14	0
8/9/22 12:15	2.628	20.52	17.06	19.35	29.14	0
8/9/22 12:30	2.22	4.866	20.24	19.52	29.13	0
8/9/22 12:45	2.078	21.53	31.07	19.86	29.13	0
8/9/22 13:00	2.305	50.44	28.13	21.19	29.13	0
8/9/22 13:15	3.022	59.77	25.1	21.24	29.11	0
8/9/22 13:30	4.427	164.6	40.9	21.49	29.12	0
8/9/22 13:45	4.939	224.7	22.84	21.92	29.11	0
8/9/22 14:00	3.639	168.4	64.24	21.82	29.11	0
8/9/22 14:15	3.26	154.9	45.36	21.99	29.1	0
8/9/22 14:30	4.279	226.1	49.37	23.29	29.1	0
8/9/22 14:45	4.253	223.2	22.48	23.02	29.11	0
8/9/22 15:00	4.054	231.9	29.65	23.32	29.11	0
8/9/22 15:15	5.031	252.9	29.59	23.47	29.11	0
8/9/22 15:30	4.932	242.5	17.41	23.8	29.1	0
8/9/22 15:45	3.01	211.3	61.55	24.4	29.1	0
8/9/22 16:00	2.969	255.7	71.83	24.43	29.1	0
8/9/22 16:15	3.756	197.3	42.98	24.65	29.09	0
8/9/22 16:30	2.87	271	38.62	24.92	29.09	0
8/9/22 16:45	3.554	273	36.85	25.04	29.09	0
8/9/22 17:00	4.85	272.8	25.44	24.83	29.09	0
8/9/22 17:15	3.72	256.4	37.56	24.66	29.09	0
8/9/22 17:30	4.41	309.8	22.67	24.75	29.09	0
8/9/22 17:45	3.896	331.6	18.04	24.58	29.09	0
8/9/22 18:00	5.007	313.3	9.92	24.53	29.09	0
8/9/22 18:15	4.25	327.3	10.65	24.24	29.08	0
8/9/22 18:30	4.604	323.6	6.806	24.06	29.08	0
8/9/22 18:45	3.553	330.6	8.46	23.79	29.09	0
8/9/22 19:00	3.51	336.5	4.591	23.36	29.08	0
8/9/22 19:15	2.762	333.1	3.095	22.99	29.08	0
8/9/22 19:30	2.589	302.8	16.61	22.69	29.08	0
8/9/22 19:45	4.044	297.9	11.42	22.3	29.08	0
8/9/22 20:00	4.308	307.8	4.932	21.85	29.09	0
8/9/22 20:15	4.774	325.5	11.86	21.39	29.09	0
8/9/22 20:30	2.698	349	12.69	21.28	29.09	0
8/9/22 20:45	2.462	8.01	7.287	21.44	29.09	0
8/9/22 21:00	1.334	2.466	3.182	21.28	29.09	0
8/9/22 21:15	1.288	8.8	9.43	20.77	29.1	0
8/9/22 21:30	2.809	28.14	3.409	20.38	29.1	0
8/9/22 21:45	2.532	35	4.826	20.3	29.1	0
8/9/22 22:00	2.356	41.28	0.518	20.57	29.1	0
8/9/22 22:15	2.284	36.86	7.393	20.54	29.1	0
8/9/22 22:30	2.18	48.87	13.66	20.26	29.1	0
8/9/22 22:45	2.527	28.34	12.94	20.41	29.1	0
8/9/22 23:00	2.268	35.48	12.49	20.03	29.1	0
8/9/22 23:15	0.639	54.29	0.811	19.3	29.1	0
8/9/22 23:30	1.156	8.38	12.14	19.41	29.1	0
8/9/22 23:45	0	0	0	19.18	29.1	0
8/10/22 0:00	0.14	359.5	12.53	19.05	29.11	0
8/10/22 0:15	1.468	279	34.16	19.36	29.11	0
8/10/22 0:30	3.78	225.2	15.78	19.03	29.11	0
8/10/22 0:45	4.567	266.8	6.953	18.61	29.11	0
8/10/22 1:00	4.527	272.6	7.072	18.61	29.11	0
8/10/22 1:15	2.896	325.2	23.23	18.42	29.1	0
8/10/22 1:30	1.329	22.68	39.58	17.9	29.1	0
8/10/22 1:45	3.687	228.4	8.33	17.97	29.11	0
8/10/22 2:00	4.652	216.8	8.51	17.43	29.12	0
8/10/22 2:15	5.149	185.6	5.386	17.3	29.12	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
8/10/22 2:30	3.873	183.3	6.675	17.22	29.12	0
8/10/22 2:45	3.1	210.1	12.84	17.13	29.13	0
8/10/22 3:00	3.12	197.9	5.258	16.99	29.13	0
8/10/22 3:15	3.481	188.3	6.942	16.62	29.13	0
8/10/22 3:30	4.581	199.9	5.872	16.36	29.13	0
8/10/22 3:45	6.112	202.3	4.864	15.94	29.14	0
8/10/22 4:00	6.416	205.4	7.921	15.77	29.14	0
8/10/22 4:15	6.292	194.6	8.86	15.64	29.15	0
8/10/22 4:30	7.043	190	11	15.32	29.15	0
8/10/22 4:45	6.947	186.6	9.21	15.02	29.16	0
8/10/22 5:00	5.838	181	7.903	14.74	29.16	0
8/10/22 5:15	5.706	187.3	10.63	14.74	29.17	0
8/10/22 5:30	4.659	182.3	11.22	14.75	29.17	0
8/10/22 5:45	4.223	181.5	11.11	14.8	29.18	0
8/10/22 6:00	3.516	190.9	10.79	14.92	29.19	0
8/10/22 6:15	3.89	166.1	18.23	15.03	29.19	0
8/10/22 6:30	6.96	179.4	8.15	14.81	29.19	0
8/10/22 6:45	4.499	180.1	8.31	14.6	29.2	0
8/10/22 7:00	5.978	144.9	9.11	14.59	29.2	0
8/10/22 7:15	5.763	174.5	6.878	14.61	29.2	0
8/10/22 7:30	4.634	154.4	14.56	14.71	29.21	0
8/10/22 7:45	5.157	149.9	10.58	14.83	29.21	0
8/10/22 8:00	5.905	149.2	8.42	14.9	29.22	0
8/10/22 8:15	5.525	139	7.218	14.94	29.22	0
8/10/22 8:30	5.673	137.5	7.641	15.06	29.22	0
8/10/22 8:45	4.78	128.2	8.74	15.19	29.23	0
8/10/22 9:00	4.892	100.5	29.48	15.33	29.23	0
8/10/22 9:15	6.293	110.2	21.68	15.52	29.22	0
8/10/22 9:30	6.24	126.7	10.55	15.5	29.23	0
8/10/22 10:15	0	0	0	NAN	14.11	0
8/10/22 10:30	0	0	0	NAN	NAN	0
8/10/22 10:45	2.734	80.3	50.16	16.77	29.23	0.07
8/10/22 11:00	5.153	123.9	14.79	17.04	29.24	0
8/10/22 11:15	4.14	130.1	11.86	17.24	29.25	0
8/10/22 11:30	2.018	206.7	64.82	17.74	29.25	0
8/10/22 11:45	0.403	98.4	15.62	17.8	29.25	0
8/10/22 12:00	1.738	127.4	18.02	17.9	29.25	0
8/10/22 12:15	5.102	178.9	31.09	18.08	29.25	0
8/10/22 12:30	5.389	172.7	16	18.5	29.25	0
8/10/22 12:45	5.728	154.1	15.42	18.69	29.26	0
8/10/22 13:00	5.994	158.8	12.26	NAN	28.51	0.22
8/10/22 13:15	6.967	146	10.78	18.77	29.26	0.01
8/10/22 13:30	6.62	139.3	10.21	18.64	29.26	0.11
8/10/22 13:45	5.389	140.4	10.49	18.57	29.27	0
8/10/22 14:00	4.807	137.8	10.53	18.68	29.27	0
8/10/22 14:15	4.696	116.5	11.04	18.71	29.27	0
8/10/22 14:30	5.442	117	8.84	18.79	29.27	0
8/10/22 14:45	5.222	120	11.63	18.95	29.27	0
8/10/22 15:00	4.637	175.9	45.03	18.79	29.28	0
8/10/22 15:15	4.323	239	13.76	18.83	29.28	0
8/10/22 15:30	6.475	239.4	7.605	18.65	29.28	0
8/10/22 15:45	7.042	236.6	14.4	18.56	29.29	0
8/10/22 16:00	7.566	242.9	7.551	18.31	29.29	0
8/10/22 16:15	6.283	248	8.62	18.31	29.3	0
8/10/22 16:30	6.955	241.7	8.51	18.19	29.3	0
8/10/22 16:45	6.052	235.9	9.93	18.12	29.3	0
8/10/22 17:00	5.519	254	12.83	18.06	29.3	0
8/10/22 17:15	6.296	249.1	11.74	17.74	29.3	0
8/10/22 17:30	3.886	236.6	13.31	17.74	29.31	0
8/10/22 17:45	4.973	230.1	10.73	17.61	29.31	0
8/10/22 18:00	5.495	222.3	15.8	17.55	29.31	0
8/10/22 18:15	5.117	227.1	10.71	17.51	29.32	0
8/10/22 18:30	6.492	224.8	11.02	17.16	29.32	0
8/10/22 18:45	4.874	222.9	15.79	16.97	29.32	0
8/10/22 19:00	3.431	197.2	21.52	16.91	29.32	0
8/10/22 19:15	1.159	155	19.97	16.8	29.32	0
8/10/22 19:30	1.452	210.9	66.31	16.79	29.32	0
8/10/22 19:45	2.22	183.6	22.24	16.79	29.33	0
8/10/22 20:00	2.637	133.9	7.897	16.4	29.33	0
8/10/22 20:15	2.029	131.3	4.208	16.27	29.33	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
8/10/22 20:30	2.03	134.9	5.879	16.21	29.33	0
8/10/22 20:45	1.819	110.9	12	16.25	29.33	0
8/10/22 21:00	2.359	103.3	5.428	16.2	29.34	0
8/10/22 21:15	1.954	124.8	5.743	16.15	29.34	0
8/10/22 21:30	1.241	111.7	13.07	16.15	29.34	0
8/10/22 21:45	1.046	77.22	11.94	16.05	29.34	0
8/10/22 22:00	1.498	107.9	6.821	16.03	29.34	0
8/10/22 22:15	0.879	121.6	13.55	16.09	29.34	0
8/10/22 22:30	0.592	155.5	8.41	16.09	29.34	0
8/10/22 22:45	0.905	146.9	15.76	15.94	29.34	0
8/10/22 23:00	0.255	227.7	25.51	15.72	29.33	0
8/10/22 23:15	0.876	19.58	12.36	15.47	29.33	0
8/10/22 23:30	0.516	27.71	0.408	15.18	29.33	0
8/10/22 23:45	0.464	7.166	8.25	15.25	29.33	0
8/11/22 0:00	1.224	2.676	9.49	15.29	29.33	0
8/11/22 0:15	1.966	9.72	5.417	14.94	29.33	0
8/11/22 0:30	1.938	4.398	10.7	14.83	29.32	0
8/11/22 0:45	2.139	2.665	7.512	14.93	29.32	0
8/11/22 1:00	2.62	346.4	17.5	15.22	29.32	0
8/11/22 1:15	3.373	336.2	11.69	15.37	29.32	0
8/11/22 1:30	2.174	1.182	15.88	15.1	29.32	0
8/11/22 1:45	2.129	0.652	10.85	14.89	29.31	0
8/11/22 2:00	1.949	6.051	15.18	14.83	29.31	0
8/11/22 2:15	0.96	27.55	13.03	14.87	29.31	0
8/11/22 2:30	1.219	34.24	24.14	14.44	29.32	0
8/11/22 2:45	0.948	346.7	18.52	14.54	29.31	0
8/11/22 3:00	1.117	338.4	6.298	14.69	29.31	0
8/11/22 3:15	1.443	13.7	7.04	14.97	29.31	0
8/11/22 3:30	0.928	356	7.227	14.73	29.31	0
8/11/22 3:45	0.413	15.34	6.55	14.5	29.31	0
8/11/22 4:00	0.558	195.9	69.51	14.45	29.31	0
8/11/22 4:15	1.179	166.3	21.29	14.28	29.31	0
8/11/22 4:30	2.504	205.1	10.23	14.24	29.31	0
8/11/22 4:45	3.219	187.2	5.089	14.12	29.31	0
8/11/22 5:00	1.147	152.5	17.52	14.08	29.31	0
8/11/22 5:15	0.724	70.2	18.84	13.85	29.31	0
8/11/22 5:30	0.636	67.9	6.892	14.14	29.31	0
8/11/22 5:45	1.464	101.8	22.07	14.35	29.32	0
8/11/22 6:00	1.822	146.6	7.871	14.6	29.32	0
8/11/22 6:15	2.266	135.9	25.72	14.82	29.32	0
8/11/22 6:30	0.971	103.4	11.89	14.94	29.32	0
8/11/22 6:45	0.763	35.86	6.455	15.13	29.32	0
8/11/22 7:00	1.555	9.31	8.19	15.08	29.32	0
8/11/22 7:15	2.057	354.4	17.91	15.49	29.31	0
8/11/22 7:30	2.659	17.44	14.92	16.83	29.31	0
8/11/22 7:45	2.906	30.12	8.87	17.05	29.31	0
8/11/22 8:00	2.547	35.85	14.32	17.14	29.31	0
8/11/22 8:15	1.966	37.09	19.73	18.23	29.31	0
8/11/22 8:30	2.123	358.2	34.63	18.66	29.3	0
8/11/22 8:45	2.521	35.47	27.81	19.41	29.3	0
8/11/22 9:00	3.26	83	29.5	19.89	29.3	0
8/11/22 9:15	2.107	62.36	43.01	20.46	29.29	0
8/11/22 9:30	3.165	322.1	45.57	20.72	29.29	0
8/11/22 9:45	5.153	323	17.46	19.73	29.29	0
8/11/22 10:00	2.95	326.2	18.35	20.07	29.29	0
8/11/22 10:15	4.185	331.5	63.42	20.82	29.29	0
8/11/22 10:30	3.303	310.4	69.15	21.47	29.29	0
8/11/22 10:45	5.512	275.9	23.72	21.88	29.28	0
8/11/22 11:00	5.196	288.9	36.48	21.73	29.28	0
8/11/22 11:15	4.212	305.3	53.76	22.23	29.27	0
8/11/22 11:30	5.774	286.9	31.29	22.55	29.27	0
8/11/22 11:45	4.379	290.8	42.22	23	29.26	0
8/11/22 12:00	4.576	322.8	29.79	23.04	29.26	0
8/11/22 12:15	5.151	287.8	23.85	23.67	29.26	0
8/11/22 12:30	4.577	339.2	42.24	24.04	29.25	0
8/11/22 12:45	6.848	292.7	35.56	24.02	29.25	0
8/11/22 13:00	6.326	299.1	37.21	24.44	29.25	0
8/11/22 13:15	5.646	311	30.86	24.45	29.24	0
8/11/22 13:30	6.052	309.7	47.68	25.04	29.24	0
8/11/22 13:45	4.849	307.9	31.17	25.02	29.23	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
8/11/22 14:00	6.918	302.8	18.57	25.14	29.23	0
8/11/22 14:15	6.537	281.6	26.38	25.06	29.23	0
8/11/22 14:30	7.199	287.3	14.18	25.28	29.22	0
8/11/22 14:45	7.158	276	18.59	25.32	29.22	0
8/11/22 15:00	7.622	280.9	17.47	25.63	29.22	0
8/11/22 15:15	8.14	279.1	16.15	25.93	29.22	0
8/11/22 15:30	7.774	285.8	14.55	25.83	29.21	0
8/11/22 15:45	8.96	280.5	16.21	25.93	29.21	0
8/11/22 16:00	9.35	275.4	13	25.54	29.21	0
8/11/22 16:15	8.84	273.1	13.34	25.85	29.2	0
8/11/22 16:30	9.69	281	12.45	25.62	29.2	0
8/11/22 16:45	8.69	281.5	15.39	25.71	29.2	0
8/11/22 17:00	8.49	277.8	15.31	25.57	29.2	0
8/11/22 17:15	6.707	282.7	16.48	25.56	29.2	0
8/11/22 17:30	6.644	276.2	14.05	25.27	29.2	0
8/11/22 17:45	6.114	288.7	17.12	25.21	29.2	0
8/11/22 18:00	6.033	284.3	10.42	25.21	29.2	0
8/11/22 18:15	6.417	293.5	10.14	24.98	29.2	0
8/11/22 18:30	6.81	305	6.423	24.6	29.2	0
8/11/22 18:45	5.646	312.1	7.621	24.23	29.2	0
8/11/22 19:00	5.433	316.4	7.426	23.69	29.2	0
8/11/22 19:15	5.917	317.6	17.07	23.4	29.2	0
8/11/22 19:30	5.279	338.7	18.16	22.93	29.2	0
8/11/22 19:45	7.235	350.1	15.65	22.29	29.2	0
8/11/22 20:00	7.944	2.948	18.01	21.64	29.21	0
8/11/22 20:15	7.372	7.405	14.61	21.16	29.21	0
8/11/22 20:30	8.61	6.723	14.84	21	29.22	0
8/11/22 20:45	8.48	12.87	12.53	20.88	29.22	0
8/11/22 21:00	8.67	10.2	10.81	20.67	29.21	0
8/11/22 21:15	7.727	12.72	10.3	20.39	29.22	0
8/11/22 21:30	6.911	20.17	10.23	19.94	29.22	0
8/11/22 21:45	5.419	24.56	7.623	19.51	29.22	0
8/11/22 22:00	4.64	35.89	6.067	18.86	29.21	0
8/11/22 22:15	5.461	31.24	6.096	18.51	29.21	0
8/11/22 22:30	4.911	29.55	6.625	18.59	29.21	0
8/11/22 22:45	4.909	26.15	5.896	18.23	29.21	0
8/11/22 23:00	3.663	45.56	7.056	17.64	29.21	0
8/11/22 23:15	2.58	83.6	22.37	17.84	29.21	0
8/11/22 23:30	2.66	62.82	21.71	17.48	29.21	0
8/11/22 23:45	3.395	36.1	11.83	16.7	29.21	0
8/12/22 0:00	0.811	59.58	7.491	16.26	29.22	0
8/12/22 0:15	2.197	13.88	19.14	16.72	29.21	0
8/12/22 0:30	1.75	43.98	38.53	16.33	29.21	0
8/12/22 0:45	1.458	40.64	2.555	16.64	29.21	0
8/12/22 1:00	1.405	43.48	5.101	16.87	29.21	0
8/12/22 1:15	2.362	37.21	3.932	16.81	29.21	0
8/12/22 1:30	2.086	35.22	8.27	16.57	29.21	0
8/12/22 1:45	1.89	25.95	10.9	16.32	29.21	0
8/12/22 2:00	2.202	48.12	17.08	16.1	29.21	0
8/12/22 2:15	2.892	132.1	19.01	15.97	29.21	0
8/12/22 2:30	6.381	150.9	4.274	15.87	29.21	0
8/12/22 2:45	6.558	152.2	5.715	15.54	29.21	0
8/12/22 3:00	4.836	137.3	16.11	15.56	29.21	0
8/12/22 3:15	5.408	130.7	5.931	15.3	29.21	0
8/12/22 3:30	5.301	135.2	4.106	15.37	29.21	0
8/12/22 3:45	5.861	145	5.567	15.48	29.21	0
8/12/22 4:00	5.246	153	5.91	15.79	29.21	0
8/12/22 4:15	5.482	155.4	6.718	15.78	29.21	0
8/12/22 4:30	5.574	148.9	6.477	15.7	29.2	0
8/12/22 4:45	5.571	158.8	5.955	15.45	29.2	0
8/12/22 5:00	5.754	169.6	6.329	15.52	29.2	0
8/12/22 5:15	4.831	159.5	15.24	14.44	29.21	0
8/12/22 5:30	4.141	142.1	10.15	14.17	29.21	0
8/12/22 5:45	4.141	150.2	4.224	14.73	29.21	0
8/12/22 6:00	3.615	150.9	5.956	15.07	29.21	0
8/12/22 6:15	4.11	157.4	6.538	15.5	29.22	0
8/12/22 6:30	3.899	164	7.86	15.43	29.22	0
8/12/22 6:45	6.169	173.7	6.277	15.39	29.22	0
8/12/22 7:00	6.85	175.4	5.351	15.13	29.23	0
8/12/22 7:15	6.414	179.8	9.38	15.42	29.23	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
8/12/22 7:30	5.917	187.1	9.79	15.57	29.23	0
8/12/22 7:45	5.985	182	9.61	15.93	29.23	0
8/12/22 8:00	5.257	153.1	17.46	16.67	29.23	0
8/12/22 8:15	5.476	150.8	14.34	17.29	29.23	0
8/12/22 8:30	5.182	157.2	29.53	17.75	29.23	0
8/12/22 8:45	5	172.2	34.07	18.19	29.23	0
8/12/22 9:00	4.699	173.1	34.77	18.44	29.23	0
8/12/22 9:15	4.597	188.1	26.48	18.68	29.23	0
8/12/22 9:30	4.952	166.6	36.7	19.25	29.23	0
8/12/22 9:45	5.504	220.7	42.45	19.83	29.23	0
8/12/22 10:00	5.62	194.5	28.86	19.74	29.23	0
8/12/22 10:15	5.431	211.6	28.73	20.05	29.23	0
8/12/22 10:30	7.384	256.9	17.67	20.53	29.23	0
8/12/22 10:45	4.361	232.2	38.21	20.55	29.23	0
8/12/22 11:00	4.121	241.4	50.81	20.8	29.22	0
8/12/22 11:15	3.856	283	47.66	21.36	29.22	0
8/12/22 11:30	6.257	262.3	25.44	21.44	29.22	0
8/12/22 11:45	7.2	257	20.16	21.82	29.21	0
8/12/22 12:00	5.239	241.5	27.66	22.31	29.21	0
8/12/22 12:15	6.87	258.9	24.84	22.46	29.21	0
8/12/22 12:30	6.489	236.5	23.5	22.65	29.21	0
8/12/22 12:45	7.193	261.6	29.4	22.93	29.21	0
8/12/22 13:00	6.508	193.3	33.62	23.08	29.21	0
8/12/22 13:15	8.19	208	30.68	23.44	29.21	0
8/12/22 13:30	5.772	189.3	32.57	23.28	29.21	0
8/12/22 13:45	6.5	236.4	30.31	23.5	29.21	0
8/12/22 14:00	6.63	207	24.17	23.78	29.21	0
8/12/22 14:15	6.578	205.3	36.06	23.66	29.2	0
8/12/22 14:30	6.734	227.3	25.78	23.96	29.2	0
8/12/22 14:45	7.47	225.1	25.57	23.91	29.2	0
8/12/22 15:00	8.37	236.7	27.2	23.97	29.19	0
8/12/22 15:15	9.53	239.1	14.19	24.16	29.2	0
8/12/22 15:30	10.43	244.6	10.75	23.99	29.2	0
8/12/22 15:45	10.85	247.6	12.14	23.43	29.2	0
8/12/22 16:00	12.33	244.5	12.93	22.99	29.2	0
8/12/22 16:15	11.74	249.8	10.67	23.28	29.2	0
8/12/22 16:30	11.33	240.2	11.04	23.42	29.2	0
8/12/22 16:45	11.7	239.2	7.49	23	29.2	0
8/12/22 17:00	9.68	239.6	10.95	22.73	29.2	0
8/12/22 17:15	11.75	238	9.76	22.2	29.2	0
8/12/22 17:30	12.15	233.2	8.49	21.95	29.2	0
8/12/22 17:45	11.75	229.1	9.47	21.68	29.21	0
8/12/22 18:00	9.96	237.3	12	21.15	29.21	0
8/12/22 18:15	8.38	229.8	9.56	21.01	29.22	0
8/12/22 18:30	10.17	223.8	15.26	20.72	29.22	0
8/12/22 18:45	11.54	232.9	8.66	20.48	29.23	0
8/12/22 19:00	10.85	227.1	8.59	20.19	29.23	0
8/12/22 19:15	9.6	229.4	9.07	19.72	29.24	0
8/12/22 19:30	8.67	233.7	9.99	19.41	29.24	0
8/12/22 19:45	6.59	237.6	9.16	19.2	29.25	0
8/12/22 20:00	9.82	231.8	9.9	18.9	29.25	0
8/12/22 20:15	10.19	244.1	11.48	18.52	29.26	0
8/12/22 20:30	9.87	241.2	8.33	18.15	29.26	0
8/12/22 20:45	9.71	245.8	9	17.98	29.27	0
8/12/22 21:00	13.05	243.6	8.06	17.46	29.27	0
8/12/22 21:15	11.68	243.4	7.321	17.03	29.28	0
8/12/22 21:30	6.057	236.8	7.554	16.97	29.28	0
8/12/22 21:45	7.663	237.7	9.56	16.82	29.29	0
8/12/22 22:00	5.578	222.5	22.94	16.7	29.29	0
8/12/22 22:15	7.433	200.8	11.79	16.59	29.29	0
8/12/22 22:30	6.035	209.6	11.25	16.48	29.29	0
8/12/22 22:45	3.91	233.3	12.12	16.46	29.29	0
8/12/22 23:00	3.944	243.1	10.9	16.38	29.3	0
8/12/22 23:15	5.769	252.2	6.78	16.27	29.3	0
8/12/22 23:30	6.634	239.7	6.675	16.1	29.3	0
8/12/22 23:45	6.094	234.8	6.05	16.03	29.3	0
8/13/22 0:00	4.181	239.6	11.01	15.94	29.31	0
8/13/22 0:15	4.311	263.9	9.82	15.84	29.31	0
8/13/22 0:30	4.057	249.4	9.64	15.81	29.31	0
8/13/22 0:45	3.037	243	12.1	15.85	29.31	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
8/13/22 1:00	2.093	258.5	65.83	15.88	29.31	0
8/13/22 1:15	2.776	63.1	10.47	15.44	29.31	0
8/13/22 1:30	3.231	67.65	8.82	15.35	29.32	0
8/13/22 1:45	2.812	83.5	7.507	15.26	29.32	0
8/13/22 2:00	3.379	109.6	6.833	15.28	29.32	0
8/13/22 2:15	4.372	123.9	5.156	15.34	29.32	0
8/13/22 2:30	4.813	144.7	11.87	15.42	29.32	0
8/13/22 2:45	4.033	141	5.651	15.21	29.33	0
8/13/22 3:00	4.102	142	9.95	15.23	29.33	0
8/13/22 3:15	4.584	131	7.574	15.41	29.33	0
8/13/22 3:30	3.785	126.6	9.78	15.41	29.33	0
8/13/22 3:45	3.27	122.5	5.363	15.34	29.33	0
8/13/22 4:00	4.296	130.9	6.298	15.4	29.33	0
8/13/22 4:15	5.245	120.1	10.46	15.34	29.33	0
8/13/22 4:30	4.907	126.9	5.145	15.28	29.33	0
8/13/22 4:45	3.822	128.5	10.79	15.32	29.33	0
8/13/22 5:00	3.206	91.2	10.88	15.23	29.33	0
8/13/22 5:15	2.912	93.5	15.66	15.16	29.33	0
8/13/22 5:30	3.401	98.1	21.29	15.26	29.34	0
8/13/22 5:45	3.64	120.3	10.62	15.44	29.34	0
8/13/22 6:00	4.281	137	28.18	15.6	29.34	0
8/13/22 6:15	3.696	147.9	18.48	15.92	29.35	0
8/13/22 6:30	3.788	184.2	13.05	15.8	29.35	0
8/13/22 6:45	3.089	160.1	11.17	15.93	29.35	0
8/13/22 7:00	3.439	150.8	16.79	16.06	29.36	0
8/13/22 7:15	3.14	147.4	26.29	16.19	29.36	0
8/13/22 7:30	2.704	116	13.46	16.49	29.36	0
8/13/22 7:45	2.959	89.9	19.16	16.73	29.36	0
8/13/22 8:00	2.891	170.3	34.06	16.95	29.37	0
8/13/22 8:15	5.127	189.2	38.46	17.05	29.37	0
8/13/22 8:30	6.382	188.6	21.74	17.16	29.37	0
8/13/22 8:45	7.274	209.3	12.9	17.12	29.37	0
8/13/22 9:00	7.447	210.2	9.9	17.03	29.37	0
8/13/22 9:15	5.053	177.2	23.32	17.19	29.37	0
8/13/22 9:30	6.154	168.7	15.43	17.6	29.37	0
8/13/22 9:45	5.801	152.6	19.19	18.28	29.38	0
8/13/22 10:00	5.928	186.7	19	18.1	29.38	0
8/13/22 10:15	5.935	180.3	23.35	18.79	29.38	0
8/13/22 10:30	7.321	177.1	25.53	19.2	29.38	0
8/13/22 10:45	6.66	152.5	31.59	19.38	29.38	0
8/13/22 11:00	6.071	174.3	20.35	19.52	29.38	0
8/13/22 11:15	7.299	208.6	27.47	19.77	29.38	0
8/13/22 11:30	6.864	194.6	22.51	20.03	29.38	0
8/13/22 11:45	5.808	197.9	29.64	20.29	29.37	0
8/13/22 12:00	7.12	198.3	28.8	20.33	29.37	0
8/13/22 12:15	6.284	205.1	28.25	20.47	29.37	0
8/13/22 12:30	4.066	171	45.63	20.65	29.37	0
8/13/22 12:45	6.046	170	26.48	21.42	29.37	0
8/13/22 13:00	5.313	180.8	26.33	21.09	29.37	0
8/13/22 13:15	4.245	129.9	48.42	20.83	29.37	0
8/13/22 13:30	3.361	102.7	52.51	21.48	29.37	0
8/13/22 13:45	4.773	293.8	18.91	21.56	29.37	0
8/13/22 14:00	4.566	319.2	19.85	22.51	29.37	0
8/13/22 14:15	4.147	314	61.48	22.58	29.37	0
8/13/22 14:30	7.316	266.7	15.79	22.39	29.37	0
8/13/22 14:45	7.199	251.7	11.92	21.67	29.37	0
8/13/22 15:00	6.343	290.4	22.49	22.21	29.37	0
8/13/22 15:15	5.492	257.4	41.82	22.9	29.36	0
8/13/22 15:30	4.668	239.8	39.86	21.84	29.36	0
8/13/22 15:45	7.508	276.3	15.99	22.09	29.36	0
8/13/22 16:00	7.53	265.2	26.64	22.46	29.36	0
8/13/22 16:15	6.094	250.1	26.19	22.97	29.35	0
8/13/22 16:30	5.849	242.1	24.25	22.59	29.35	0
8/13/22 16:45	4.364	277.5	27.22	22.11	29.35	0
8/13/22 17:00	7.292	224.8	23.33	21.97	29.35	0
8/13/22 17:15	4.94	225.8	27.71	22.4	29.35	0
8/13/22 17:30	7.5	249.5	22.78	22.72	29.34	0
8/13/22 17:45	7.11	236.9	16.04	22.46	29.34	0
8/13/22 18:00	7.19	253	15.46	22.12	29.34	0
8/13/22 18:15	6.028	276.7	12.27	21.83	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
8/13/22 18:30	6.637	250.2	8.99	21.65	29.34	0
8/13/22 18:45	5.791	255.8	9.01	21.35	29.34	0
8/13/22 19:00	6.763	253.3	6.6	20.96	29.34	0
8/13/22 19:15	6.638	251.1	6.161	20.37	29.34	0
8/13/22 19:30	6.959	255.6	5.818	19.83	29.34	0
8/13/22 19:45	7.302	252.4	4.568	19.44	29.34	0
8/13/22 20:00	5.845	257.5	5.887	19.14	29.35	0
8/13/22 20:15	3.051	269.2	12.52	18.81	29.35	0
8/13/22 20:30	1.55	343.3	25.1	18.34	29.35	0
8/13/22 20:45	1.839	332.9	14.11	18.37	29.35	0
8/13/22 21:00	2.355	327.5	10.65	18.28	29.35	0
8/13/22 21:15	2.569	6.559	19.39	17.27	29.35	0
8/13/22 21:30	2.227	11.73	9.22	17.45	29.35	0
8/13/22 21:45	2.726	30.2	17.5	16.89	29.34	0
8/13/22 22:00	4.774	30.72	10.4	16.25	29.34	0
8/13/22 22:15	5	24.5	10.06	16.02	29.34	0
8/13/22 22:30	6.619	17.74	7.582	15.49	29.34	0
8/13/22 22:45	5.799	23.74	7.833	15.3	29.34	0
8/13/22 23:00	6.731	22.72	8.06	15.34	29.34	0
8/13/22 23:15	7.329	20.41	9.14	15.29	29.34	0
8/13/22 23:30	7.643	19.71	9.59	15.21	29.34	0
8/13/22 23:45	8.45	20.63	7.058	15.11	29.33	0
8/14/22 0:00	8.56	22.9	7.08	15	29.33	0
8/14/22 0:15	8.37	22.21	7.106	14.87	29.33	0
8/14/22 0:30	8.02	23.38	9.07	14.78	29.33	0
8/14/22 0:45	6.978	27.56	9.27	14.55	29.34	0
8/14/22 1:00	6.697	26.54	8.58	14.25	29.34	0
8/14/22 1:15	7	24.78	6.657	14.15	29.34	0
8/14/22 1:30	7.17	17.12	6.293	14.03	29.34	0
8/14/22 1:45	6.43	21.75	8.5	13.99	29.33	0
8/14/22 2:00	5.081	39.33	7.546	13.84	29.33	0
8/14/22 2:15	4.147	40.39	7.67	13.75	29.33	0
8/14/22 2:30	3.795	44.18	9.01	13.86	29.33	0
8/14/22 2:45	3.338	55.43	10.24	13.88	29.33	0
8/14/22 3:00	2.118	51.18	13.74	13.93	29.33	0
8/14/22 3:15	1.855	44.6	30.6	14.27	29.33	0
8/14/22 3:30	1.591	103.5	8.79	14.06	29.33	0
8/14/22 3:45	0.158	38.87	16.58	14.12	29.33	0
8/14/22 4:00	0	0	0	13.71	29.33	0
8/14/22 4:15	1.25	60.76	17.2	13.45	29.33	0
8/14/22 4:30	0.551	50.01	22.93	13.13	29.34	0
8/14/22 4:45	0.987	22.94	0.377	13.19	29.34	0
8/14/22 5:00	2.389	18.32	9.54	13.37	29.34	0
8/14/22 5:15	2.27	41.82	7.685	13.38	29.34	0
8/14/22 5:30	0.638	54.6	6.95	13.43	29.34	0
8/14/22 5:45	0.089	63.49	0.506	13.44	29.34	0
8/14/22 6:00	1.625	179.5	15.97	13.8	29.35	0
8/14/22 6:15	0.655	170.8	25.56	14.6	29.35	0
8/14/22 6:30	0.668	0.724	29.94	15.69	29.35	0
8/14/22 6:45	0.844	19.01	9.99	15.85	29.36	0
8/14/22 7:00	1.622	26.99	13.39	15.72	29.36	0
8/14/22 7:15	1.764	47.11	12.69	16.37	29.36	0
8/14/22 7:30	2.873	36.54	14.98	16.44	29.36	0
8/14/22 7:45	2.068	38.07	28.49	16.72	29.36	0
8/14/22 8:00	2.25	34.18	36.81	17.24	29.36	0
8/14/22 8:15	2.63	33.98	21.37	17.38	29.35	0
8/14/22 8:30	3.118	14.57	27.62	17.69	29.35	0
8/14/22 8:45	2.627	315.3	23.47	18.1	29.35	0
8/14/22 9:00	2.716	334.4	64.62	18.67	29.35	0
8/14/22 9:15	2.927	318.7	20.79	19.02	29.34	0
8/14/22 9:30	2.707	316.1	31.67	19.37	29.34	0
8/14/22 9:45	3.719	323.3	80.4	20.12	29.34	0
8/14/22 10:00	4.067	332.4	45.96	20.61	29.33	0
8/14/22 10:15	3.994	307.7	36.49	20.9	29.33	0
8/14/22 10:30	4.916	309	20.15	21.18	29.33	0
8/14/22 10:45	5.898	299.4	35.15	21.46	29.33	0
8/14/22 11:00	4.965	324.7	25.84	22.13	29.33	0
8/14/22 11:15	5.75	256.1	39.11	22.13	29.33	0
8/14/22 11:30	6.797	294.8	39.54	22.82	29.32	0
8/14/22 11:45	6.496	286.2	44.15	22.85	29.32	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
8/14/22 12:00	8.02	277.6	22.1	22.89	29.32	0
8/14/22 12:15	9.8	255.3	29.53	23.09	29.32	0
8/14/22 12:30	8.12	254.4	22.98	23.1	29.32	0
8/14/22 12:45	7.182	283.5	16.29	23.6	29.32	0
8/14/22 13:00	5.707	291.9	26.46	23.64	29.31	0
8/14/22 13:15	6.685	280.8	20.49	24.2	29.31	0
8/14/22 13:30	5.158	269	25.97	24.12	29.31	0
8/14/22 13:45	5.622	324.6	56.01	24.89	29.3	0
8/14/22 14:00	5.688	351.9	31.56	25.02	29.3	0
8/14/22 14:15	5.546	315.8	30.46	25.29	29.3	0
8/14/22 14:30	7.059	287.9	40.96	25.19	29.3	0
8/14/22 14:45	5.627	315.6	37.31	25.69	29.29	0
8/14/22 15:00	7.042	308.3	28.35	25.82	29.29	0
8/14/22 15:15	7.073	309.2	22.28	25.71	29.29	0
8/14/22 15:30	7.57	304.4	34.05	25.63	29.29	0
8/14/22 15:45	7.179	299.1	21.58	25.66	29.28	0
8/14/22 16:00	6.372	352.7	38.87	25.61	29.28	0
8/14/22 16:15	6.426	346	26.02	25.7	29.27	0
8/14/22 16:30	7.95	353	23.51	25.56	29.27	0
8/14/22 16:45	8.05	0.552	17.13	25.13	29.27	0
8/14/22 17:00	6.913	351.5	30.44	25.38	29.27	0
8/14/22 17:15	6.588	343	22.27	25.25	29.26	0
8/14/22 17:30	7.779	327	21.27	25.38	29.26	0
8/14/22 17:45	9.98	300.9	9.07	25	29.26	0
8/14/22 18:00	9.89	294.3	7.687	24.62	29.26	0
8/14/22 18:15	8.75	304	7.905	24.27	29.26	0
8/14/22 18:30	8.17	314	8.75	23.86	29.26	0
8/14/22 18:45	8.05	330.3	8.7	23.47	29.26	0
8/14/22 19:00	6.185	330.4	12.09	22.96	29.25	0
8/14/22 19:15	5.594	317.8	13.91	22.51	29.25	0
8/14/22 19:30	5.244	310.2	16.28	22.1	29.26	0
8/14/22 19:45	4.185	339.1	15.39	22.06	29.26	0
8/14/22 20:00	5.255	346.6	20.85	21.62	29.26	0
8/14/22 20:15	4.189	316.1	18.44	21.45	29.27	0
8/14/22 20:30	2.796	359	23.75	20.95	29.27	0
8/14/22 20:45	4.082	19.8	12.88	19.74	29.27	0
8/14/22 21:00	6.73	20.81	5.557	19.23	29.27	0
8/14/22 21:15	6.453	26.17	7.202	19.27	29.26	0
8/14/22 21:30	5.894	21.74	9.53	19.22	29.26	0
8/14/22 21:45	4.511	24.89	7.244	18.96	29.27	0
8/14/22 22:00	5.369	26.94	5.218	18.23	29.27	0
8/14/22 22:15	4.425	15.51	12.05	17.81	29.27	0
8/14/22 22:30	6.856	19.07	8.01	17.29	29.27	0
8/14/22 22:45	8.38	16.9	10.09	17.34	29.26	0
8/14/22 23:00	8.56	20.61	7.935	17.34	29.27	0
8/14/22 23:15	7.826	25.23	7.695	17.09	29.27	0
8/14/22 23:30	9	18.72	9.15	16.67	29.27	0
8/14/22 23:45	9.8	18.65	8.71	16.49	29.27	0
8/15/22 0:00	9.04	23.25	7.11	16.12	29.27	0
8/15/22 0:15	7.903	27.92	8.1	15.8	29.27	0
8/15/22 0:30	7.322	33.44	8.06	15.75	29.27	0
8/15/22 0:45	6.63	24.15	7.359	15.42	29.26	0
8/15/22 1:00	6.273	30.35	5.978	15.32	29.27	0
8/15/22 1:15	4.819	27.36	8.58	15.37	29.26	0
8/15/22 1:30	3.862	3.764	12.94	15.47	29.26	0
8/15/22 1:45	4.179	13.32	10.8	15.59	29.26	0
8/15/22 2:00	3.896	25.27	8.73	14.93	29.25	0
8/15/22 2:15	4.52	23.43	13.77	14.52	29.25	0
8/15/22 2:30	4.53	12.63	10.17	14.49	29.25	0
8/15/22 2:45	3.883	22.72	9.28	14.47	29.25	0
8/15/22 3:00	2.767	25.37	7.543	14.66	29.25	0
8/15/22 3:15	2.807	14.29	5.189	14.84	29.25	0
8/15/22 3:30	3.683	16.14	7.872	14.87	29.25	0
8/15/22 3:45	2.487	58.57	19.76	14.66	29.25	0
8/15/22 4:00	1.983	80.2	9.16	14.94	29.25	0
8/15/22 4:15	1.171	91	37.85	15.37	29.25	0
8/15/22 4:30	1.077	130.5	12.22	15.51	29.25	0
8/15/22 4:45	2.254	101.2	12.57	14.69	29.25	0
8/15/22 5:00	3.216	114.9	9.21	14.51	29.26	0
8/15/22 5:15	2.984	116	7.847	14.75	29.26	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
8/15/22 5:30	4.558	135.5	5.102	14.97	29.26	0
8/15/22 5:45	4.363	149	4.949	14.79	29.26	0
8/15/22 6:00	4.161	142.6	5.621	14.93	29.26	0
8/15/22 6:15	2.981	127.9	11.78	15.68	29.26	0
8/15/22 6:30	1.309	34.68	19.3	15.94	29.26	0
8/15/22 6:45	2.004	92.5	17.34	16.82	29.26	0
8/15/22 7:00	3.197	125.8	21.16	17.27	29.26	0
8/15/22 7:15	4.208	135.3	10.29	17.38	29.26	0
8/15/22 7:30	3.858	141.7	16.19	17.61	29.26	0
8/15/22 7:45	3.531	134.6	19.23	18.38	29.26	0
8/15/22 8:00	3.339	145.3	24.42	18.36	29.26	0
8/15/22 8:15	2.958	190.7	25.14	18.61	29.26	0
8/15/22 8:30	2.536	221	33.65	18.95	29.26	0
8/15/22 8:45	2.604	212	40.71	19.5	29.26	0
8/15/22 9:00	3.055	210.3	65.65	20.36	29.26	0
8/15/22 9:15	2.628	154.2	45.66	20.66	29.25	0
8/15/22 9:30	3.071	203.9	37.78	21.19	29.26	0
8/15/22 9:45	3.205	220.4	52.54	21.71	29.25	0
8/15/22 10:00	4.163	5.325	75.09	22.48	29.25	0
8/15/22 10:15	2.462	335.7	58.12	22.72	29.26	0
8/15/22 10:30	4.112	266.8	26.9	22.93	29.25	0
8/15/22 10:45	4.902	301.5	34.77	23.31	29.25	0
8/15/22 11:00	5.116	352.7	26.4	23.7	29.25	0
8/15/22 11:15	2.734	337.4	47.85	23.85	29.24	0
8/15/22 11:30	6.074	309.1	38.81	24.39	29.24	0
8/15/22 11:45	5.369	262.7	27.07	24.36	29.24	0
8/15/22 12:00	5.44	269.5	42.36	25.09	29.23	0
8/15/22 12:15	6.032	256.3	27.31	25.08	29.23	0
8/15/22 12:30	5.507	267.5	36.8	25.29	29.23	0
8/15/22 12:45	6.017	244.1	14.73	25.57	29.23	0
8/15/22 13:00	6.53	253.3	23.36	26.12	29.23	0
8/15/22 13:15	5.223	267.6	28.84	26.13	29.22	0
8/15/22 13:30	6.06	265.2	36.34	26.54	29.22	0
8/15/22 13:45	6.41	264.7	25.93	26.67	29.22	0
8/15/22 14:00	7.322	255.3	28.13	26.9	29.22	0
8/15/22 14:15	7.948	266.2	29.33	27.19	29.21	0
8/15/22 14:30	6.548	297.1	31.41	26.91	29.21	0
8/15/22 14:45	5.092	301.3	34.75	27.04	29.21	0
8/15/22 15:00	6.374	286.1	26.26	27.23	29.21	0
8/15/22 15:15	6.726	253.1	23.57	27.35	29.2	0
8/15/22 15:30	6.371	276.3	23.05	27.78	29.2	0
8/15/22 15:45	5.61	297.3	20.33	27.81	29.2	0
8/15/22 16:00	6.174	297.2	19.26	27.83	29.2	0
8/15/22 16:15	6.699	302.2	22.69	27.82	29.2	0
8/15/22 16:30	5.51	283.2	20.66	27.96	29.2	0
8/15/22 16:45	6.98	308.8	12.64	27.55	29.2	0
8/15/22 17:00	7.451	315.9	10.16	27.38	29.2	0
8/15/22 17:15	6.537	310.9	14.85	27.43	29.19	0
8/15/22 17:30	5.064	280	20.28	27.35	29.19	0
8/15/22 17:45	4.625	318.1	8.93	27.21	29.19	0
8/15/22 18:00	5.348	311.3	7.204	26.87	29.19	0
8/15/22 18:15	3.149	328.9	12.89	26.84	29.19	0
8/15/22 18:30	3.354	321.5	9.13	26.69	29.19	0
8/15/22 18:45	1.852	5.944	10.5	26.23	29.19	0
8/15/22 19:00	2.39	345.8	10.65	25.74	29.19	0
8/15/22 19:15	3.618	296.3	8.36	25.22	29.19	0
8/15/22 19:30	4.581	302.6	6.007	24.57	29.19	0
8/15/22 19:45	3.044	337.5	17.59	23.92	29.2	0
8/15/22 20:00	2.93	9.14	7.272	23	29.2	0
8/15/22 20:15	2.394	14.04	14.85	22.99	29.2	0
8/15/22 20:30	1.173	322.5	37.63	22.57	29.21	0
8/15/22 20:45	0.676	265.2	6.424	22.16	29.21	0
8/15/22 21:00	1.338	93.9	7.554	21.81	29.21	0
8/15/22 21:15	1.205	73.38	34.31	21.21	29.21	0
8/15/22 21:30	1.615	48.58	17.49	20.56	29.22	0
8/15/22 21:45	4.315	33.36	10.41	19.46	29.22	0
8/15/22 22:00	7.397	31.5	7.248	18.83	29.22	0
8/15/22 22:15	5.322	42.56	8.76	18.44	29.22	0
8/15/22 22:30	4.083	64.88	14.49	17.75	29.22	0
8/15/22 22:45	3.797	96.2	15.58	17.5	29.23	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
8/15/22 23:00	5.859	139.5	16.55	17.95	29.23	0
8/15/22 23:15	5.02	150.8	14.61	17.69	29.23	0
8/15/22 23:30	3.483	118.2	11.4	17.92	29.23	0
8/15/22 23:45	4.65	124.8	9.76	17.95	29.23	0
8/16/22 0:00	3.743	149.7	10.22	17.72	29.23	0
8/16/22 0:15	1.652	127.9	23.5	17.66	29.23	0
8/16/22 0:30	2.459	117.3	16.68	17.57	29.23	0
8/16/22 0:45	3.136	184.4	11.35	17.86	29.24	0
8/16/22 1:00	3.048	170.8	5.797	17.87	29.24	0
8/16/22 1:15	3.616	140.3	15.72	17.48	29.23	0
8/16/22 1:30	3.676	147.2	19.52	17.13	29.24	0
8/16/22 1:45	5.061	189	4.894	17.03	29.24	0
8/16/22 2:00	4.508	184.9	16.54	16.88	29.24	0
8/16/22 2:15	3.794	137.9	5.169	16.83	29.24	0
8/16/22 2:30	2.807	162.5	35.57	16.68	29.24	0
8/16/22 2:45	4.595	207.4	8.25	16.36	29.25	0
8/16/22 3:00	4.991	200.1	4.726	16.22	29.25	0
8/16/22 3:15	3.782	184.1	11.08	15.9	29.25	0
8/16/22 3:30	1.585	102.8	30.28	15.11	29.26	0
8/16/22 3:45	2.417	139.6	3.669	15.1	29.26	0
8/16/22 4:00	2.739	171.7	7.978	15.39	29.26	0
8/16/22 4:15	2.094	146.6	15.29	15.22	29.26	0
8/16/22 4:30	1.106	106.7	19.05	15.02	29.26	0
8/16/22 4:45	2.554	69.68	12.28	14.77	29.26	0
8/16/22 5:00	3.089	84.3	2.607	14.53	29.25	0
8/16/22 5:15	2.171	64.92	10.74	14.94	29.26	0
8/16/22 5:30	2.008	31.77	14.85	14.58	29.26	0
8/16/22 5:45	1.376	308.8	66.29	14.75	29.27	0
8/16/22 6:00	3.354	221	5.48	14.99	29.27	0
8/16/22 6:15	2.623	248.2	12.42	15.31	29.27	0
8/16/22 6:30	4.385	249.7	6.788	15.34	29.28	0
8/16/22 6:45	3.16	269.5	11.75	14.87	29.28	0
8/16/22 7:00	0.677	236.1	36.49	15.5	29.28	0
8/16/22 7:15	3.586	201.6	13.17	15.63	29.28	0
8/16/22 7:30	4.221	209.8	8.86	15.46	29.28	0
8/16/22 7:45	4.236	209.7	11.07	15.47	29.28	0
8/16/22 8:00	2.213	220.7	25.81	16.06	29.28	0
8/16/22 8:15	3.42	215.4	28.44	16.93	29.28	0
8/16/22 8:30	3.377	193.1	31.11	17.19	29.28	0
8/16/22 8:45	3.012	221	42.46	17.95	29.28	0
8/16/22 9:00	2.765	276.5	33.85	18.66	29.28	0
8/16/22 9:15	3.972	223.9	35.19	18.82	29.27	0
8/16/22 9:30	3.18	232.3	37.79	19.58	29.27	0
8/16/22 9:45	4.647	287	23.13	20.12	29.27	0
8/16/22 10:00	3.801	276.8	28.97	20.71	29.27	0
8/16/22 10:15	4.709	270	22.4	21.22	29.27	0
8/16/22 10:30	5.649	272.4	27.26	21.58	29.26	0
8/16/22 10:45	5.637	269.4	27.6	21.88	29.26	0
8/16/22 11:00	6.804	284.3	23.16	22.47	29.26	0
8/16/22 11:15	7.589	276.9	15.36	22.91	29.26	0
8/16/22 11:30	7.34	271	19.64	23.12	29.26	0
8/16/22 11:45	5.843	270.8	24.94	23.52	29.25	0
8/16/22 12:00	7.039	265.8	18.61	24.12	29.25	0
8/16/22 12:15	6.709	268.3	21.44	24.67	29.24	0
8/16/22 12:30	7.133	268	21.23	24.97	29.24	0
8/16/22 12:45	7.072	284.7	20.14	25.19	29.24	0
8/16/22 13:00	9.3	278.7	12.6	25.48	29.24	0
8/16/22 13:15	9.05	276	18.43	25.58	29.23	0
8/16/22 13:30	7.413	300.3	27.45	26.17	29.23	0
8/16/22 13:45	8.11	305.8	26.45	26.62	29.23	0
8/16/22 14:00	7.909	319.6	15.05	26.85	29.23	0
8/16/22 14:15	7.576	323.3	20.65	26.99	29.22	0
8/16/22 14:30	6.625	318	37.31	27.31	29.22	0
8/16/22 14:45	10.03	16.9	13.1	26.93	29.21	0
8/16/22 15:00	8.27	359.2	21.96	27.45	29.21	0
8/16/22 15:15	9.95	2.437	20.21	27.44	29.21	0
8/16/22 15:30	10.05	12.33	18.47	26.99	29.21	0
8/16/22 15:45	10.15	355.8	19.88	27.12	29.2	0
8/16/22 16:00	9.63	320.7	23.17	26.84	29.2	0
8/16/22 16:15	9.89	328.5	14.87	26.99	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/16/22 16:30	11.82	306.8	7.89	26.88	29.2	0
8/16/22 16:45	7.595	322.3	18.22	26.94	29.19	0
8/16/22 17:00	8.91	309.4	10.24	26.97	29.19	0
8/16/22 17:15	8.47	318.6	14.14	26.9	29.19	0
8/16/22 17:30	8.42	323.2	13.47	26.78	29.19	0
8/16/22 17:45	8.39	317.6	9.79	26.44	29.19	0
8/16/22 18:00	7.734	328.8	10.42	26.29	29.19	0
8/16/22 18:15	8.65	331.5	15.43	25.88	29.19	0
8/16/22 18:30	8.33	335.7	10.54	25.45	29.19	0
8/16/22 18:45	8.91	336.5	8.42	24.97	29.18	0
8/16/22 19:00	9.22	337.3	7.54	24.34	29.18	0
8/16/22 19:15	9.97	342.6	8.25	23.94	29.18	0
8/16/22 19:30	8.38	344.7	6.321	23.27	29.18	0
8/16/22 19:45	10.26	346.2	12.17	23.25	29.18	0
8/16/22 20:00	6.817	344.1	17.15	22.59	29.19	0
8/16/22 20:15	4.719	357.2	14.88	22.05	29.2	0
8/16/22 20:30	5.865	351.5	12.98	21.55	29.2	0
8/16/22 20:45	7.947	9.16	5.738	20.89	29.2	0
8/16/22 21:00	9.86	6.192	10.53	20.79	29.2	0
8/16/22 21:15	9.36	2.366	12.97	20.44	29.2	0
8/16/22 21:30	11.75	10.75	8.45	20.1	29.2	0
8/16/22 21:45	13.93	19.1	8.94	19.85	29.2	0
8/16/22 22:00	14.42	21.37	7.999	19.7	29.19	0
8/16/22 22:15	17.08	16.06	7.207	19.82	29.19	0
8/16/22 22:30	15.83	15.9	7.061	19.52	29.19	0
8/16/22 22:45	13.54	16.35	9.26	19.12	29.2	0
8/16/22 23:00	14.74	19.67	8.17	18.94	29.2	0
8/16/22 23:15	15.63	17.45	6.966	19.11	29.2	0
8/16/22 23:30	14.27	10.99	5.432	18.99	29.2	0
8/16/22 23:45	13.7	8.86	5.944	18.99	29.2	0
8/17/22 0:00	13.08	9.31	5.205	19.16	29.2	0
8/17/22 0:15	12.28	6.544	5.441	18.69	29.2	0
8/17/22 0:30	9.44	7.648	20.41	18.63	29.21	0
8/17/22 0:45	4.515	39.47	9.29	17.49	29.21	0
8/17/22 1:00	5.497	35.04	6.849	17.08	29.21	0
8/17/22 1:15	4.482	25.93	7.056	16.84	29.21	0
8/17/22 1:30	3.474	33.09	18.06	16.59	29.21	0
8/17/22 1:45	3.805	29.85	14.28	16.88	29.21	0
8/17/22 2:00	3.022	37.7	11.75	16.94	29.21	0
8/17/22 2:15	1.357	21.33	6.695	16.51	29.21	0
8/17/22 2:30	3.042	7.247	15.86	16.67	29.21	0
8/17/22 2:45	2.925	25.15	6.706	15.82	29.21	0
8/17/22 3:00	4.1	25.45	9.24	15.32	29.21	0
8/17/22 3:15	4.011	33.27	6.166	15.42	29.21	0
8/17/22 3:30	6.369	19.35	6.083	15.56	29.21	0
8/17/22 3:45	4.87	28.63	7.87	16.04	29.21	0
8/17/22 4:00	4.329	32.24	8.57	15.68	29.21	0
8/17/22 4:15	4.635	20.99	6.901	15.37	29.2	0
8/17/22 4:30	4.332	19.4	7.599	15.08	29.2	0
8/17/22 4:45	4.556	19.46	6.942	15.12	29.2	0
8/17/22 5:00	5.092	24.19	4.318	15.34	29.21	0
8/17/22 5:15	4.288	28.63	4.423	15.34	29.21	0
8/17/22 5:30	4.089	21.74	9.15	15.14	29.21	0
8/17/22 5:45	3.728	30.45	11.33	15.74	29.21	0
8/17/22 6:00	2.629	25.4	6.126	16.5	29.21	0
8/17/22 6:15	1.945	38.75	11.88	17.26	29.21	0
8/17/22 6:30	1.735	38.03	8.18	17.89	29.21	0
8/17/22 6:45	1.708	37.93	5.474	18.14	29.22	0
8/17/22 7:00	2.341	16.4	9.88	18.58	29.22	0
8/17/22 7:15	2.534	11	14.27	18.72	29.22	0
8/17/22 7:30	2.16	38.68	13.32	19.53	29.22	0
8/17/22 7:45	2.177	36.22	15.57	20.22	29.22	0
8/17/22 8:00	1.985	21.98	15.25	20.67	29.21	0
8/17/22 8:15	2.781	53.17	16.41	21.63	29.21	0
8/17/22 8:30	3.199	43.28	19.52	21.61	29.21	0
8/17/22 8:45	3.229	58.45	17.43	22.16	29.21	0
8/17/22 9:00	3.046	71.43	24.68	22.73	29.2	0
8/17/22 9:15	5.397	41.58	17.7	22.61	29.2	0
8/17/22 9:30	5.757	23.36	10.55	22.88	29.2	0
8/17/22 9:45	5.962	24.53	11.9	23.52	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/17/22 10:00	7.297	25.62	11.07	23.87	29.19	0
8/17/22 10:15	7.316	21	9.16	24.3	29.19	0
8/17/22 10:30	6.895	24.75	14.78	24.63	29.19	0
8/17/22 10:45	6.765	22.36	11.18	25.38	29.19	0
8/17/22 11:00	8.36	22.74	14.86	26.07	29.18	0
8/17/22 11:15	10.03	19.75	13.48	26.39	29.18	0
8/17/22 11:30	9.96	15.84	11.91	26.52	29.17	0
8/17/22 11:45	9.88	19.62	11.33	26.69	29.17	0
8/17/22 12:00	10.29	22.92	11.83	27.12	29.16	0
8/17/22 12:15	10.06	18.43	11.34	27.65	29.16	0
8/17/22 12:30	10.65	19.76	8.68	28.12	29.15	0
8/17/22 12:45	10.56	17.64	11.87	28.3	29.15	0
8/17/22 13:00	9.2	18.38	12.28	28.82	29.15	0
8/17/22 13:15	9.29	22.49	9.01	29.21	29.15	0
8/17/22 13:30	10.37	15.01	9.25	29.41	29.14	0
8/17/22 13:45	11.22	20.18	9.72	29.45	29.14	0
8/17/22 14:00	9.26	20.36	13.05	29.8	29.14	0
8/17/22 14:15	9.21	19.07	11.93	30.04	29.13	0
8/17/22 14:30	9.5	21.14	11.72	30.43	29.12	0
8/17/22 14:45	10.08	17.57	9.35	30.52	29.12	0
8/17/22 15:00	10.51	14.43	13.08	30.52	29.12	0
8/17/22 15:15	10.17	4.294	11.74	30.73	29.11	0
8/17/22 15:30	9.5	347	18.45	30.96	29.1	0
8/17/22 15:45	9.46	4.64	17.69	30.81	29.1	0
8/17/22 16:00	9.09	342.7	19.78	31.02	29.1	0
8/17/22 16:15	8.62	352.2	21.94	31.21	29.1	0
8/17/22 16:30	7.722	338	28.07	31.22	29.09	0
8/17/22 16:45	6.428	356.7	18.25	31.14	29.09	0
8/17/22 17:00	8.74	355.7	13.63	30.72	29.09	0
8/17/22 17:15	7.459	348.9	16.86	30.5	29.09	0
8/17/22 17:30	6.066	337.3	19.84	30.69	29.09	0
8/17/22 17:45	5.842	354.6	18.68	30.32	29.09	0
8/17/22 18:00	5.768	355.8	16.04	29.92	29.09	0
8/17/22 18:15	5.741	308.6	10.79	29.89	29.09	0
8/17/22 18:30	6.278	300.2	8.85	29.43	29.09	0
8/17/22 18:45	6.937	293.2	6.835	28.86	29.1	0
8/17/22 19:00	6.819	299.7	6.892	28.15	29.1	0
8/17/22 19:15	6.274	310.5	7.525	27.54	29.1	0
8/17/22 19:30	3.015	298.6	17.58	27.06	29.11	0
8/17/22 19:45	0.597	351.9	20.23	26.56	29.12	0
8/17/22 20:00	4.574	15.09	18.83	25.99	29.11	0
8/17/22 20:15	5.892	33.79	24.3	25.43	29.12	0
8/17/22 20:30	9.26	24.09	9.06	25.07	29.11	0
8/17/22 20:45	8.43	23.4	12.56	24.88	29.11	0
8/17/22 21:00	6.496	32.59	10.26	24.41	29.12	0
8/17/22 21:15	9.11	18.5	8.77	24.08	29.11	0
8/17/22 21:30	7.511	18.09	6.636	23.7	29.1	0
8/17/22 21:45	8.11	11.1	12.85	24.33	29.1	0
8/17/22 22:00	7.383	1.157	11.85	24.81	29.1	0
8/17/22 22:15	5.369	8.22	14.52	24.32	29.1	0
8/17/22 22:30	6.981	16.75	11.02	24.09	29.1	0
8/17/22 22:45	6.021	20.81	6.864	22.97	29.1	0
8/17/22 23:00	4.057	34.29	14.09	23.04	29.11	0
8/17/22 23:15	4.741	38.78	16.86	22.94	29.11	0
8/17/22 23:30	2.018	27.59	21.13	22.47	29.12	0
8/17/22 23:45	2.274	15.16	6.725	22.2	29.12	0
8/18/22 0:00	0.587	9.84	2.954	21.88	29.12	0
8/18/22 0:15	1.184	18.57	5.125	22.5	29.12	0
8/18/22 0:30	0.798	8.79	5.714	22.46	29.12	0
8/18/22 0:45	0.181	3.174	0.416	22.42	29.12	0
8/18/22 1:00	3.195	4.779	1.782	21.84	29.12	0
8/18/22 1:15	3.334	8.16	4.023	21.85	29.11	0
8/18/22 1:30	4.54	12.46	7.581	22.04	29.11	0
8/18/22 1:45	4.74	12.4	10.71	21.99	29.11	0
8/18/22 2:00	4.955	3.649	8.13	21.98	29.11	0
8/18/22 2:15	4.237	1.043	8.35	21.86	29.11	0
8/18/22 2:30	2.995	121.6	69.53	21.98	29.12	0
8/18/22 2:45	3.08	49.75	23.15	21.38	29.12	0
8/18/22 3:00	6.37	357.9	37.03	21.58	29.1	0
8/18/22 3:15	1.724	60.34	68.12	21.97	29.1	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/18/22 3:30	3.551	37.87	45.55	21.78	29.11	0
8/18/22 3:45	5.213	9.29	25.83	21.32	29.1	0
8/18/22 4:00	2.528	277.5	83.4	21.74	29.1	0
8/18/22 4:15	4.439	55.97	19.52	21.71	29.1	0
8/18/22 4:30	3.843	354.1	53.23	21.1	29.1	0
8/18/22 4:45	3.987	267.2	12.48	21.13	29.11	0
8/18/22 5:00	2.252	335.8	29.67	21.06	29.11	0
8/18/22 5:15	0.347	42.05	5.213	21.23	29.11	0
8/18/22 5:30	0.507	162.3	20.34	21.56	29.12	0
8/18/22 5:45	1.645	15.9	9.14	20.92	29.12	0
8/18/22 6:00	1.977	6.746	9.88	20.51	29.12	0
8/18/22 6:15	2.956	14.01	16	20.69	29.12	0
8/18/22 6:30	2.978	36.46	5.187	20.22	29.13	0
8/18/22 6:45	2.82	11.35	13.85	20.68	29.12	0
8/18/22 7:00	0.976	194	78.64	21.56	29.13	0
8/18/22 7:15	2.274	83.9	32.39	21.73	29.13	0
8/18/22 7:30	2.489	83.3	18.11	20.74	29.13	0
8/18/22 7:45	3.215	136.1	18.93	22.03	29.13	0
8/18/22 8:00	2.011	169.2	37.56	22.81	29.13	0
8/18/22 8:15	1.087	178.6	75.35	23.58	29.13	0
8/18/22 8:30	1.637	47.21	54.02	24.99	29.13	0
8/18/22 8:45	2.051	70.92	56.82	25.1	29.13	0
8/18/22 9:00	4.789	200.5	12.7	24.14	29.13	0
8/18/22 9:15	1.352	285.5	36.84	23.88	29.13	0
8/18/22 9:30	4.278	308.6	31.76	23.87	29.12	0
8/18/22 9:45	3.214	6.887	41.15	25.1	29.12	0
8/18/22 10:00	5.425	33.82	13.99	25.33	29.12	0
8/18/22 10:15	2.695	34.7	21.36	26.02	29.11	0
8/18/22 10:30	5.713	118.7	30.79	27.02	29.12	0
8/18/22 10:45	6.479	116.3	22.64	27.18	29.13	0
8/18/22 11:00	4.552	79.65	24.34	26.72	29.12	0
8/18/22 11:15	3.063	129	37.84	26.67	29.12	0
8/18/22 11:30	3.447	154	35.28	26.85	29.12	0
8/18/22 11:45	5.106	118.4	21.6	26.73	29.12	0
8/18/22 12:00	2.172	38.41	82.8	27	29.12	0
8/18/22 12:15	2.433	61.05	16.99	26.57	29.12	0
8/18/22 12:30	3.588	74.8	38.18	26.5	29.12	0
8/18/22 12:45	5.422	107.6	53.76	26.47	29.12	0
8/18/22 13:00	3.836	89.3	30.76	26.62	29.12	0
8/18/22 13:15	5.353	161.2	26.57	26.72	29.12	0
8/18/22 13:30	3.922	156.3	28.08	26.85	29.13	0
8/18/22 13:45	3.76	136.8	46.07	26.9	29.13	0
8/18/22 14:00	4.011	97.8	17.37	27.2	29.12	0
8/18/22 14:15	3.715	109	13.57	27.29	29.12	0
8/18/22 14:30	2.972	80.8	19.1	27.23	29.12	0
8/18/22 14:45	4.195	119.9	18.49	27.22	29.12	0
8/18/22 15:00	4.162	86.5	23.31	27.32	29.12	0
8/18/22 15:15	2.529	65.69	25.55	27.69	29.11	0
8/18/22 15:30	2.479	73.85	59.27	27.95	29.1	0
8/18/22 15:45	4.232	159.4	27.53	27.91	29.11	0
8/18/22 16:00	3.582	127.8	12.01	27.66	29.11	0
8/18/22 16:15	1.386	27.49	21.52	27.54	29.11	0
8/18/22 16:30	2.057	31.65	14.66	27.6	29.1	0
8/18/22 16:45	0.675	298.3	43.56	27.71	29.1	0
8/18/22 17:00	3.352	274.3	44.71	28.08	29.1	0
8/18/22 17:15	4.78	165.2	25.87	27.59	29.1	0
8/18/22 17:30	2.579	11.69	29.52	27.36	29.09	0
8/18/22 17:45	2.574	192.9	42.62	27.25	29.09	0
8/18/22 18:00	2.499	105.2	58.14	27.71	29.09	0
8/18/22 18:15	3.24	86.9	8.63	26.68	29.09	0
8/18/22 18:30	2.433	93.1	19.59	26.69	29.09	0
8/18/22 18:45	2.658	4.957	16.72	26.83	29.08	0
8/18/22 19:00	3.671	12.07	14.78	26.81	29.08	0
8/18/22 19:15	4.307	0.766	17.49	26.31	29.07	0
8/18/22 19:30	4.95	10.08	10.61	26.21	29.07	0
8/18/22 19:45	4.349	0.478	20.79	25.9	29.07	0
8/18/22 20:00	7.279	99.4	30.81	25.79	29.08	0
8/18/22 20:15	1.787	63.5	21.56	26.55	29.09	0
8/18/22 20:30	2.425	73.76	36.07	26.62	29.09	0
8/18/22 20:45	2.649	34.82	16.66	26.25	29.09	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/18/22 21:00	2.693	359.5	12.36	26.1	29.08	0
8/18/22 21:15	2.254	352.6	16.63	27.46	29.08	0
8/18/22 21:30	2.346	353.8	18.51	27.08	29.08	0
8/18/22 21:45	1.968	25.66	25.37	26.75	29.08	0
8/18/22 22:00	2.424	355.8	17.65	26.77	29.08	0
8/18/22 22:15	2.484	20.52	50.46	25.38	29.07	0
8/18/22 22:30	2.862	72.04	36.9	24.94	29.07	0
8/18/22 22:45	2.347	101.5	43.64	25.49	29.08	0
8/18/22 23:00	2.569	85.5	21.47	25.91	29.07	0
8/18/22 23:15	2.325	49.92	5.216	25.96	29.07	0
8/18/22 23:30	1.547	147.9	28.9	25.77	29.07	0
8/18/22 23:45	1.095	30.06	5.304	25.57	29.06	0
8/19/22 0:00	2.044	260.8	31.52	25.13	29.07	0
8/19/22 0:15	4.047	284.8	25.56	24.47	29.07	0
8/19/22 0:30	2.82	288.4	77.33	24.02	29.06	0
8/19/22 0:45	2.213	336.4	49.15	24.14	29.05	0
8/19/22 1:00	8.24	242.6	5.3	24.26	29.05	0
8/19/22 1:15	4.033	293.9	38.98	24.03	29.06	0
8/19/22 1:30	2.309	237.7	61.76	23.59	29.06	0
8/19/22 1:45	3.403	149.2	18.66	22.84	29.07	0
8/19/22 2:00	2.778	145.1	7.188	23.1	29.07	0
8/19/22 2:15	3.709	155.5	13.03	23.31	29.08	0
8/19/22 2:30	3.046	135.8	30.19	23.19	29.08	0
8/19/22 2:45	3.011	127.3	15.19	22.82	29.08	0
8/19/22 3:00	5.918	163.9	13.93	22.37	29.08	0
8/19/22 3:15	5.479	168.8	8.12	21.97	29.08	0
8/19/22 3:30	4.751	158	10.97	21.82	29.09	0
8/19/22 3:45	5.757	137.5	7.56	21.86	29.09	0
8/19/22 4:00	6.389	158.9	14.84	21.87	29.09	0
8/19/22 4:15	6.673	180	6.204	21.69	29.1	0
8/19/22 4:30	4.26	193.5	8.3	21.44	29.1	0
8/19/22 4:45	4.659	199	8.26	21.42	29.1	0
8/19/22 5:00	3.142	200.6	8.27	21.31	29.1	0
8/19/22 5:15	4.177	187.5	12.73	21.03	29.12	0
8/19/22 5:30	4.554	187.7	18.03	20.82	29.12	0
8/19/22 5:45	2.865	167.7	11.2	20.44	29.13	0
8/19/22 6:00	2.711	209.2	11.07	20.42	29.13	0
8/19/22 6:15	1.488	260.8	30.04	20.46	29.14	0
8/19/22 6:30	2.024	293.3	5.686	20.21	29.15	0
8/19/22 6:45	3.469	263.7	10.11	19.74	29.15	0
8/19/22 7:00	4.918	271	10.69	19.15	29.15	0
8/19/22 7:15	6.013	273.3	7.493	18.91	29.16	0
8/19/22 7:30	7.282	267.7	8.55	18.65	29.16	0
8/19/22 7:45	5.394	270.3	9.76	18.47	29.17	0
8/19/22 8:00	2.721	298.2	10.79	18.32	29.17	0
8/19/22 8:15	1.064	260.5	36.86	18.53	29.16	0
8/19/22 8:30	1.21	131	68.13	18.96	29.16	0
8/19/22 8:45	3.592	129	39.82	19.35	29.16	0
8/19/22 9:00	4.758	173.9	20.79	19.33	29.16	0
8/19/22 9:15	4.013	163.3	26.06	19.87	29.17	0
8/19/22 9:30	4.677	127.9	24.92	20.12	29.16	0
8/19/22 9:45	4.491	118.3	10.64	20.08	29.16	0
8/19/22 10:00	4.918	106.3	12.85	19.99	29.15	0
8/19/22 10:15	4.687	105.9	11.75	20.05	29.15	0
8/19/22 10:30	4.787	118.8	11.27	20.36	29.14	0
8/19/22 10:45	4.427	141.4	11.29	20.78	29.14	0
8/19/22 11:00	4.939	178.2	14.1	20.86	29.13	0
8/19/22 11:15	4.959	200.2	27.58	21.35	29.13	0
8/19/22 11:30	6.924	231.3	26.48	21.71	29.13	0
8/19/22 11:45	7.535	221.2	12.1	21.72	29.13	0
8/19/22 12:00	6.55	216.2	14.12	21.97	29.13	0
8/19/22 12:15	7.748	221	10.05	22.35	29.13	0
8/19/22 12:30	7.084	225.7	15.31	22.33	29.13	0
8/19/22 12:45	6.491	204.1	13.33	21.99	29.13	0
8/19/22 13:00	4.09	220.6	44.74	22.61	29.13	0
8/19/22 13:15	4.809	210.6	20	22.8	29.12	0
8/19/22 13:30	2.968	247.1	55.25	23.28	29.12	0
8/19/22 13:45	3.673	225.3	64.49	23.47	29.12	0
8/19/22 14:00	3.528	211.9	34.56	23.07	29.12	0
8/19/22 14:15	3.013	245.2	29.21	23.33	29.12	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
8/19/22 14:30	2.802	232	51.61	23.64	29.12	0
8/19/22 14:45	3.036	168.8	37.85	23.8	29.11	0
8/19/22 15:00	2.438	131.5	52.18	24.08	29.11	0
8/19/22 15:15	2.2	209.8	68.13	23.85	29.11	0
8/19/22 15:30	1.291	286	43.14	23.81	29.11	0
8/19/22 15:45	2.223	13.14	18.3	23.73	29.11	0
8/19/22 16:00	2.744	3.737	13.62	23.63	29.11	0
8/19/22 16:15	1.779	6.464	12.65	23.61	29.11	0
8/19/22 16:30	2.658	331.5	22.49	23.56	29.1	0
8/19/22 16:45	2.728	312.7	22.65	23.68	29.1	0
8/19/22 17:00	3.029	336.8	13.55	23.57	29.1	0
8/19/22 17:15	3.156	338.6	22.53	23.68	29.1	0
8/19/22 17:30	2.51	294.1	23.04	23.87	29.1	0
8/19/22 17:45	2.362	318.2	14.69	24.15	29.1	0
8/19/22 18:00	2.635	319.2	13.5	23.95	29.1	0
8/19/22 18:15	4.26	278.1	21.41	23.94	29.1	0
8/19/22 18:30	5.856	259.9	10.93	23.33	29.1	0
8/19/22 18:45	6.313	253.3	5.963	23.05	29.1	0
8/19/22 19:00	6.277	253.5	5.576	22.7	29.11	0
8/19/22 19:15	4.667	259.2	5.975	22.37	29.11	0
8/19/22 19:30	4.878	250.4	3.421	22.19	29.11	0
8/19/22 19:45	3.647	236.5	8.46	22.19	29.11	0
8/19/22 20:00	3.141	222.6	4.77	22.2	29.11	0
8/19/22 20:15	3.053	230.2	6.113	22.11	29.12	0
8/19/22 20:30	3.307	233.5	9.06	22.11	29.12	0
8/19/22 20:45	5.455	253.5	8.77	21.75	29.12	0
8/19/22 21:00	6.141	239.1	7.338	21.44	29.12	0
8/19/22 21:15	4.866	234.5	6.434	21.13	29.12	0
8/19/22 21:30	5.949	232.7	9.05	20.66	29.13	0
8/19/22 21:45	5.281	249.9	14.92	20.26	29.13	0
8/19/22 22:00	6.196	224.7	10.18	19.94	29.13	0
8/19/22 22:15	5.735	228.6	7.328	19.6	29.14	0
8/19/22 22:30	7.196	215.7	6.987	19.14	29.14	0
8/19/22 22:45	6.231	228.3	15.85	18.8	29.14	0
8/19/22 23:00	3.568	250.5	14.41	18.61	29.15	0
8/19/22 23:15	2.315	272.6	10.35	18.32	29.14	0
8/19/22 23:30	1.832	262.2	14.68	18.09	29.14	0
8/19/22 23:45	3.746	218.8	17.27	18.45	29.14	0
8/20/22 0:00	4.117	213.5	6.035	18.56	29.14	0
8/20/22 0:15	3.44	217.7	7.978	18.47	29.14	0
8/20/22 0:30	3.395	249.8	9.58	18.36	29.14	0
8/20/22 0:45	3.692	243.2	6.445	18.26	29.14	0
8/20/22 1:00	3.432	253.9	11.15	17.99	29.14	0
8/20/22 1:15	2.688	252.9	20.16	17.81	29.14	0
8/20/22 1:30	3.087	230.8	17.17	17.9	29.14	0
8/20/22 1:45	1.973	247.7	8.53	17.74	29.13	0
8/20/22 2:00	2.786	259.7	4.291	17.61	29.14	0
8/20/22 2:15	4.473	265.2	6.706	17.4	29.13	0
8/20/22 2:30	5.567	255.2	3.944	17.23	29.14	0
8/20/22 2:45	5.303	257.2	4.523	17.12	29.14	0
8/20/22 3:00	4.03	263.3	6.584	17.03	29.14	0
8/20/22 3:15	3.648	271.9	7.555	16.89	29.15	0
8/20/22 3:30	2.876	277.5	12.21	16.82	29.15	0
8/20/22 3:45	3.06	280.8	6.268	16.75	29.14	0
8/20/22 4:00	3.289	280.9	6.243	16.73	29.15	0
8/20/22 4:15	3.178	272.1	7.922	16.64	29.15	0
8/20/22 4:30	2.563	272.7	10.66	16.59	29.15	0
8/20/22 4:45	2.279	276.3	4.79	16.48	29.14	0
8/20/22 5:00	2.964	276.6	6.938	16.41	29.14	0
8/20/22 5:15	2.845	283.1	5.792	16.43	29.14	0
8/20/22 5:30	1.946	308.9	19.64	16.45	29.14	0
8/20/22 5:45	1.856	321.9	14.41	16.49	29.15	0
8/20/22 6:00	3.113	273.8	16.5	16.56	29.15	0
8/20/22 6:15	2.661	248.4	9.73	16.64	29.15	0
8/20/22 6:30	1.758	218.3	22.69	16.78	29.15	0
8/20/22 6:45	2.932	238.1	10.93	16.9	29.15	0
8/20/22 7:00	3.172	242.3	9.72	16.81	29.16	0
8/20/22 7:15	3.453	238.9	7.952	16.84	29.16	0
8/20/22 7:30	3.199	233	14.02	16.89	29.16	0
8/20/22 7:45	3.154	229.8	15.76	16.88	29.16	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
8/20/22 8:00	3.179	181.9	10.81	16.95	29.16	0
8/20/22 8:15	3.661	221.2	19.46	17.03	29.17	0
8/20/22 8:30	4.798	235.8	15.16	17.04	29.17	0
8/20/22 8:45	4.907	245.8	12.21	16.99	29.17	0
8/20/22 9:00	4.191	259.9	12.87	16.93	29.17	0
8/20/22 9:15	4.191	254.8	8.32	16.98	29.17	0
8/20/22 9:30	2.429	254.7	33.72	17.16	29.18	0
8/20/22 9:45	2.466	189.5	39.79	17.32	29.18	0
8/20/22 10:00	2.532	256.9	17.28	17.4	29.17	0
8/20/22 10:15	2.528	271.5	19.24	17.51	29.18	0
8/20/22 10:30	2.149	252	33.27	17.72	29.17	0
8/20/22 10:45	2.006	202.6	29.47	18.05	29.17	0
8/20/22 11:00	3.41	221.1	39.11	18.3	29.17	0
8/20/22 11:15	3.929	221.6	20.46	18.47	29.17	0
8/20/22 11:30	3.784	198	32.41	18.7	29.17	0
8/20/22 11:45	4.013	173.6	25.08	18.96	29.17	0
8/20/22 12:00	3.361	206.6	34.04	19.17	29.17	0
8/20/22 12:15	2.626	227	50.46	19.33	29.16	0
8/20/22 12:30	3.173	191.6	25.11	19.7	29.16	0
8/20/22 12:45	3.056	162	33.39	19.98	29.17	0
8/20/22 13:00	3.864	219.4	28.82	20	29.16	0
8/20/22 13:15	3.146	216.2	45.82	20.34	29.16	0
8/20/22 13:30	1.978	218.4	29.57	20.84	29.16	0
8/20/22 13:45	2.958	203.2	35.79	20.94	29.16	0
8/20/22 14:00	3.004	169.8	31.82	20.98	29.16	0
8/20/22 14:15	3.896	222.9	28.27	21.23	29.15	0
8/20/22 14:30	2.16	203.5	34.06	21.5	29.15	0
8/20/22 14:45	3.316	243.3	27.27	21.72	29.14	0
8/20/22 15:00	2.34	151.3	41.69	21.9	29.14	0
8/20/22 15:15	3.241	181.8	23.77	21.83	29.14	0
8/20/22 15:30	2.82	199.1	21.07	21.99	29.14	0
8/20/22 15:45	2.309	162.1	43.92	22.66	29.14	0
8/20/22 16:00	2.289	204.5	57.99	23.18	29.14	0
8/20/22 16:15	3.914	232.4	29.46	23.3	29.14	0
8/20/22 16:30	3.224	230.7	28.35	23.26	29.13	0
8/20/22 16:45	2.263	245.2	29.4	23.53	29.13	0
8/20/22 17:00	3.029	212	21.03	23.41	29.13	0
8/20/22 17:15	2.844	251.3	33.91	23.68	29.13	0
8/20/22 17:30	0.52	37.62	29.11	24.04	29.13	0
8/20/22 17:45	0.799	31.11	17.99	23.88	29.12	0
8/20/22 18:00	0.933	14.61	13.34	23.99	29.12	0
8/20/22 18:15	1.85	58.17	13.85	23.16	29.12	0
8/20/22 18:30	2.577	41.89	10.22	22.65	29.12	0
8/20/22 18:45	1.626	31.74	0.412	22.48	29.12	0
8/20/22 19:00	1.524	33.1	0.182	22.28	29.12	0
8/20/22 19:15	1.178	28.27	4.722	22.06	29.12	0
8/20/22 19:30	1.148	22.73	0.183	21.85	29.13	0
8/20/22 19:45	2.221	15.34	7.943	21.52	29.13	0
8/20/22 20:00	2.951	15.21	8.48	20.86	29.13	0
8/20/22 20:15	3.387	19.66	4.071	20.54	29.14	0
8/20/22 20:30	3.483	29.38	4.394	20.42	29.14	0
8/20/22 20:45	3.195	36.47	2.092	20.14	29.14	0
8/20/22 21:00	3.9	325.4	84.9	20.18	29.14	0
8/20/22 21:15	5.059	233.8	4.812	20.27	29.15	0
8/20/22 21:30	6.882	246.3	6.411	20.06	29.15	0
8/20/22 21:45	5.652	242.8	6.891	19.83	29.15	0
8/20/22 22:00	3.068	244.3	9.44	19.66	29.16	0
8/20/22 22:15	3.125	229.3	13.47	19.51	29.16	0
8/20/22 22:30	4.087	211.4	9.07	19.3	29.16	0
8/20/22 22:45	5.667	191.8	7.168	18.75	29.17	0
8/20/22 23:00	7.765	191.3	7.799	18.21	29.17	0
8/20/22 23:15	6.486	195	8.83	17.97	29.18	0
8/20/22 23:30	6.015	186.5	8.37	17.9	29.18	0
8/20/22 23:45	6.453	190.8	9.59	17.83	29.18	0
8/21/22 0:00	5.265	213.4	15.46	17.79	29.18	0
8/21/22 0:15	1.605	220.9	26.78	17.78	29.18	0
8/21/22 0:30	1.915	237.7	28.57	17.8	29.18	0
8/21/22 0:45	1.872	164.7	29.82	17.63	29.18	0
8/21/22 1:00	1.559	144.4	16.08	17.44	29.18	0
8/21/22 1:15	2.67	172.1	14.53	17.37	29.18	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
8/21/22 1:30	3.566	194.5	7.05	17.43	29.18	0
8/21/22 1:45	4.016	198.1	5.151	17.15	29.18	0
8/21/22 2:00	3.797	201.3	5.722	16.97	29.19	0
8/21/22 2:15	3.439	209.4	4.71	17.1	29.19	0
8/21/22 2:30	1.938	193.9	9.11	17.07	29.19	0
8/21/22 2:45	2.914	188.1	8.66	17.03	29.19	0
8/21/22 3:00	3.659	204.2	5.532	17.09	29.19	0
8/21/22 3:15	4.283	217.4	4.62	17.08	29.19	0
8/21/22 3:30	5.022	221.4	4.584	17.08	29.19	0
8/21/22 3:45	3.988	221.8	6.525	17.07	29.2	0
8/21/22 4:00	3.981	226.8	6.007	17.05	29.2	0
8/21/22 4:15	3.03	230.7	8.28	17.04	29.2	0
8/21/22 4:30	1.463	245.2	15.09	16.95	29.2	0
8/21/22 4:45	0.882	337.9	8.83	16.79	29.2	0
8/21/22 5:00	0.365	351.2	2.185	16.63	29.2	0
8/21/22 5:15	0.277	351.4	0.603	16.64	29.2	0
8/21/22 5:30	0.274	349.7	0.237	16.7	29.21	0
8/21/22 5:45	0.081	350.6	0.132	16.71	29.21	0
8/21/22 6:00	0.024	350	0.051	16.81	29.21	0
8/21/22 6:15	0.986	310.3	62.71	16.91	29.22	0
8/21/22 6:30	1.064	246.2	28.47	17.08	29.22	0
8/21/22 6:45	1.894	220.3	41.27	17.16	29.22	0
8/21/22 7:00	2.799	201.8	13.77	17.07	29.22	0
8/21/22 7:15	2.989	213.8	17.38	17.08	29.22	0
8/21/22 7:30	2.474	203	36.27	17.2	29.22	0
8/21/22 7:45	2.541	236.4	23.09	17.19	29.22	0
8/21/22 8:00	2.376	226.5	27.56	17.15	29.23	0
8/21/22 8:15	2.226	247.4	17.71	17.21	29.23	0
8/21/22 8:30	1.549	254.4	25.82	17.32	29.23	0
8/21/22 8:45	0.905	122.5	17.8	17.66	29.23	0
8/21/22 9:00	2.858	212.1	19.24	18	29.23	0
8/21/22 9:15	2.78	218.7	36.33	18.26	29.24	0
8/21/22 9:30	3.326	203	33.95	18.46	29.24	0
8/21/22 9:45	4.444	217.1	17.55	18.79	29.24	0
8/21/22 10:00	3.994	254	20.23	19.07	29.24	0
8/21/22 10:15	2.896	296.2	22.63	19.72	29.24	0
8/21/22 10:30	3.538	225.9	40.34	20.34	29.23	0
8/21/22 10:45	2.98	251.7	50.65	20.63	29.23	0
8/21/22 11:00	3.176	261	47.63	21.33	29.22	0
8/21/22 11:15	4.524	224.4	39.82	21.73	29.22	0
8/21/22 11:30	4.012	259.4	38.57	22.48	29.22	0
8/21/22 11:45	5.104	232.7	30.33	22.98	29.21	0
8/21/22 12:00	4.327	301.2	43.34	23.19	29.21	0
8/21/22 12:15	4.42	269.2	21.08	23.62	29.21	0
8/21/22 12:30	4.504	288.5	34.45	24.09	29.21	0
8/21/22 12:45	7.151	243.1	24.8	24.42	29.21	0
8/21/22 13:00	5.69	272.1	55.6	24.17	29.21	0
8/21/22 13:15	6.022	241	32.73	24.76	29.21	0
8/21/22 13:30	6.169	243.7	20.64	24.9	29.21	0
8/21/22 13:45	6.223	237.7	21.08	25.06	29.2	0
8/21/22 14:00	5.421	228.7	24.09	25.37	29.2	0
8/21/22 14:15	6.441	266.3	25.42	25.64	29.2	0
8/21/22 14:30	5.179	260.7	20.43	25.8	29.2	0
8/21/22 14:45	6.212	243.2	12.27	25.8	29.2	0
8/21/22 15:00	5.755	225.7	28.03	25.6	29.19	0
8/21/22 15:15	5.113	258.8	33.61	25.96	29.19	0
8/21/22 15:30	4.51	276.1	27.94	25.92	29.19	0
8/21/22 15:45	4.991	258.3	19.07	25.87	29.2	0
8/21/22 16:00	5.297	284.5	15.93	26	29.19	0
8/21/22 16:15	5.649	285.8	29.49	25.91	29.2	0
8/21/22 16:30	4.656	263.5	27.59	25.64	29.19	0
8/21/22 16:45	6.155	236.2	13.83	25.77	29.19	0
8/21/22 17:00	4.436	228	18.02	25.86	29.19	0
8/21/22 17:15	3.296	244.7	31.31	26.48	29.19	0
8/21/22 17:30	4.759	243.2	9.13	26.37	29.19	0
8/21/22 17:45	4.835	240.9	11.44	26.45	29.19	0
8/21/22 18:00	5.179	257.2	18.12	26.04	29.19	0
8/21/22 18:15	5.485	263	9.99	25.66	29.19	0
8/21/22 18:30	6.114	255.6	4.064	25.25	29.19	0
8/21/22 18:45	3.904	263.1	6.946	24.64	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
8/21/22 19:00	3.62	276.2	3.773	24.16	29.2	0
8/21/22 19:15	3.283	272	4.412	23.98	29.2	0
8/21/22 19:30	2.011	325.2	30.3	23.64	29.2	0
8/21/22 19:45	2.334	37.16	13.74	22.82	29.21	0
8/21/22 20:00	2.699	55.64	1.664	22.16	29.21	0
8/21/22 20:15	2.812	42.02	3.394	21.9	29.21	0
8/21/22 20:30	2.664	42.58	6.983	21.72	29.21	0
8/21/22 20:45	3.335	41.63	5.959	21.55	29.21	0
8/21/22 21:00	2.792	34.65	9.89	21.75	29.21	0
8/21/22 21:15	1.684	31.7	2.418	21.94	29.21	0
8/21/22 21:30	3.605	55.55	6.623	19.67	29.21	0
8/21/22 21:45	4.258	33.94	9.94	19.64	29.21	0
8/21/22 22:00	3.975	28.35	8.4	19.45	29.21	0
8/21/22 22:15	3.529	9	7.539	19.27	29.21	0
8/21/22 22:30	4.493	355.7	16.53	19.43	29.21	0
8/21/22 22:45	3.676	1.014	13.98	19.08	29.21	0
8/21/22 23:00	6.227	11.32	9.03	18.76	29.21	0
8/21/22 23:15	5.612	12.73	8.15	18.3	29.21	0
8/21/22 23:30	4.951	14.1	9.65	18.02	29.21	0
8/21/22 23:45	5.006	23.33	10.09	17.57	29.21	0
8/22/22 0:00	7.162	22.44	9.87	17.44	29.2	0
8/22/22 0:15	7.385	26.6	9.93	17.51	29.21	0
8/22/22 0:30	7.624	31.14	7.487	17.29	29.2	0
8/22/22 0:45	6.08	23.08	11.23	17.32	29.2	0
8/22/22 1:00	4.785	17.32	17.03	17.2	29.21	0
8/22/22 1:15	5.048	4.845	11.49	17.23	29.21	0
8/22/22 1:30	4.606	11.1	17.27	16.95	29.2	0
8/22/22 1:45	5.158	340	54.67	17.29	29.2	0
8/22/22 2:00	7.353	190.6	57.96	16.46	29.22	0
8/22/22 2:15	5.113	40.79	12.63	15.54	29.21	0
8/22/22 2:30	5.278	103.5	65.96	16.22	29.21	0
8/22/22 2:45	6.162	148	16.84	16.85	29.22	0
8/22/22 3:00	6.515	166.5	10.78	16.74	29.22	0
8/22/22 3:15	6.885	145.2	9.81	16.1	29.23	0
8/22/22 3:30	2.319	192.1	55.34	16.59	29.23	0
8/22/22 3:45	3.4	173.8	36.89	16.43	29.23	0
8/22/22 4:00	2.358	60.42	29.6	16.08	29.23	0
8/22/22 4:15	1.483	145.4	53.97	16.58	29.23	0
8/22/22 4:30	3.205	189.1	20.52	16.7	29.23	0
8/22/22 4:45	2.236	276.4	79.4	16.3	29.23	0
8/22/22 5:00	1.637	309.2	23.3	16.21	29.24	0
8/22/22 5:15	1.938	274.5	14.92	16.5	29.24	0
8/22/22 5:30	1.628	256.6	9.54	16.59	29.24	0
8/22/22 5:45	2.053	9.3	19.12	15.92	29.25	0
8/22/22 6:00	3.283	29	5.192	15.86	29.25	0
8/22/22 6:15	3.058	23	6.331	16.16	29.26	0
8/22/22 6:30	2.446	29.08	12.07	16.67	29.27	0
8/22/22 6:45	1.799	52.23	12.11	17.49	29.27	0
8/22/22 7:00	2.333	165.6	34.38	18.27	29.27	0
8/22/22 7:15	3.258	176.9	15.34	18	29.27	0
8/22/22 7:30	3.63	159.6	15.26	18.48	29.28	0
8/22/22 7:45	4.764	139	12.36	18.86	29.28	0
8/22/22 8:00	3.717	156.5	18.15	18.7	29.29	0
8/22/22 8:15	2.925	139.9	20.88	19.13	29.29	0
8/22/22 8:30	5.375	127.6	17.23	20.21	29.29	0
8/22/22 8:45	4.896	136.7	21.31	20.3	29.29	0
8/22/22 9:00	4.424	165.8	30.65	20.53	29.29	0
8/22/22 9:15	3.631	188	40.06	21.1	29.29	0
8/22/22 9:30	4.362	203.4	25.95	21.17	29.29	0
8/22/22 9:45	1.646	169.3	41.61	21.9	29.29	0
8/22/22 10:00	3.483	212.8	22.84	22.48	29.29	0
8/22/22 10:15	2.59	161.9	60.28	22.94	29.29	0
8/22/22 10:30	2.882	204.7	31.62	23.42	29.29	0
8/22/22 10:45	3.686	194.9	84.7	23.88	29.29	0
8/22/22 11:00	6.079	260	16.86	24.08	29.29	0
8/22/22 11:15	5.701	261.5	19.04	24.35	29.29	0
8/22/22 11:30	5.608	278.3	29.73	24.75	29.29	0
8/22/22 11:45	5.391	247.3	30.87	25.15	29.29	0
8/22/22 12:00	5.331	230.1	27.95	25.02	29.29	0
8/22/22 12:15	4.876	260.6	34.94	25.48	29.29	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
8/22/22 12:30	5.891	259.1	24.09	25.67	29.29	0
8/22/22 12:45	6.608	239.5	19.32	25.63	29.29	0
8/22/22 13:00	7.091	251.3	32.58	25.85	29.28	0
8/22/22 13:15	5.615	256.1	24.74	26.23	29.28	0
8/22/22 13:30	6.704	226.7	19.26	26.44	29.27	0
8/22/22 13:45	6.243	262	24.25	26.78	29.27	0
8/22/22 14:00	6.554	245	22.61	26.96	29.26	0
8/22/22 14:15	4.953	264.1	22.93	27.25	29.26	0
8/22/22 14:30	6.799	259	18.26	27.34	29.26	0
8/22/22 14:45	7.608	257.6	21.94	27.48	29.25	0
8/22/22 15:00	7.217	260.3	24.06	27.42	29.25	0
8/22/22 15:15	7.696	246.7	14.01	27.48	29.25	0
8/22/22 15:30	6.311	249.5	20.86	27.48	29.24	0
8/22/22 15:45	8.06	260.8	20.17	27.76	29.24	0
8/22/22 16:00	6.352	279.3	25.44	27.43	29.24	0
8/22/22 16:15	6.631	290	27.94	27.58	29.24	0
8/22/22 16:30	8.12	317.2	11.44	27.51	29.24	0
8/22/22 16:45	9.14	319.4	9.09	27.18	29.24	0
8/22/22 17:00	7.692	316.1	10.11	27.16	29.24	0
8/22/22 17:15	9.45	315	7.848	26.79	29.24	0
8/22/22 17:30	8.66	313.6	7.207	26.46	29.24	0
8/22/22 17:45	8.08	313.3	8.29	26.3	29.24	0
8/22/22 18:00	6.142	310.6	8.76	26.25	29.24	0
8/22/22 18:15	5.007	297.7	14.47	26.05	29.24	0
8/22/22 18:30	5.495	289.1	5.299	25.72	29.24	0
8/22/22 18:45	5.191	288.5	4.177	25.29	29.24	0
8/22/22 19:00	5.092	285.5	3.521	24.82	29.24	0
8/22/22 19:15	4.879	283.4	4.753	24.37	29.25	0
8/22/22 19:30	5.24	298.3	4.434	23.68	29.25	0
8/22/22 19:45	5.973	305.7	5.051	23.17	29.25	0
8/22/22 20:00	4.43	320.2	8.27	22.9	29.26	0
8/22/22 20:15	3.854	324.2	15.41	22.78	29.26	0
8/22/22 20:30	3.937	337.4	9.92	22.38	29.26	0
8/22/22 20:45	2.915	343.4	14.8	22.02	29.26	0
8/22/22 21:00	3.068	19.65	29.51	21.76	29.26	0
8/22/22 21:15	7.587	8.5	14.58	21.34	29.26	0
8/22/22 21:30	8	24.47	11.73	20.71	29.26	0
8/22/22 21:45	8.82	20.06	11.34	20.66	29.27	0
8/22/22 22:00	8.02	26.63	11.78	20.27	29.27	0
8/22/22 22:15	8.56	26.81	9.43	20.09	29.27	0
8/22/22 22:30	8.79	19.72	8.92	19.93	29.27	0
8/22/22 22:45	9.25	25.72	11.88	19.89	29.26	0
8/22/22 23:00	8.35	35.02	10.06	19.67	29.27	0
8/22/22 23:15	6.258	54.68	8.41	19.57	29.27	0
8/22/22 23:30	3.383	66.62	15.89	19.39	29.27	0
8/22/22 23:45	2.97	89.3	5.846	19.22	29.27	0
8/23/22 0:00	2.212	69.14	27.23	18.82	29.27	0
8/23/22 0:15	2.472	86.3	23.95	18.18	29.27	0
8/23/22 0:30	4.997	109.1	8.01	18.13	29.26	0
8/23/22 0:45	3.868	115.9	6.594	18.01	29.26	0
8/23/22 1:00	2.594	95.4	24.41	17.61	29.26	0
8/23/22 1:15	2.124	58.69	29.44	17.17	29.26	0
8/23/22 1:30	1.729	121.2	5.084	17.63	29.26	0
8/23/22 1:45	0.179	115.5	0.253	17.66	29.26	0
8/23/22 2:00	3.046	180.3	14.22	17.32	29.26	0
8/23/22 2:15	5.677	173.3	5.892	16.87	29.26	0
8/23/22 2:30	6.145	182.8	3.461	16.58	29.26	0
8/23/22 2:45	5.216	185.1	3.774	16.13	29.26	0
8/23/22 3:00	2.702	159.3	12.47	15.84	29.26	0
8/23/22 3:15	1.713	161.4	10.69	15.8	29.26	0
8/23/22 3:30	2.841	171.3	10.05	15.85	29.26	0
8/23/22 3:45	2.233	166.8	12.68	15.66	29.27	0
8/23/22 4:00	1.854	159.4	4.974	15.45	29.26	0
8/23/22 4:15	2.603	165.5	2.551	15.41	29.26	0
8/23/22 4:30	3.415	175.9	5.063	15.02	29.26	0
8/23/22 4:45	2.787	159	7.899	14.78	29.26	0
8/23/22 5:00	2.561	159.3	4.516	14.78	29.26	0
8/23/22 5:15	2.979	172.8	5.829	14.66	29.26	0
8/23/22 5:30	3.603	175.9	3.083	14.39	29.26	0
8/23/22 5:45	3.606	174	3.773	14.2	29.26	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
8/23/22 6:00	3.167	170.6	2.733	14.29	29.26	0
8/23/22 6:15	2.912	176.1	7.492	14.35	29.27	0
8/23/22 6:30	1.965	179.7	7.961	14.33	29.27	0
8/23/22 6:45	2.102	215.4	9.79	14.81	29.27	0
8/23/22 7:00	2.513	198.7	13.17	15.07	29.27	0
8/23/22 7:15	2.497	186.8	8.69	14.91	29.27	0
8/23/22 7:30	2.38	194.6	14.93	15.04	29.27	0
8/23/22 7:45	2.429	221.2	16.71	15.81	29.27	0
8/23/22 8:00	2.681	189.8	26.79	16.6	29.26	0
8/23/22 8:15	1.937	191.3	47.03	17.24	29.26	0
8/23/22 8:30	2.385	204.8	33.57	17.88	29.26	0
8/23/22 8:45	2.749	222.6	22.67	18.22	29.25	0
8/23/22 9:00	2.277	250.7	23.51	19.12	29.25	0
8/23/22 9:15	2.833	317.9	50.98	19.95	29.25	0
8/23/22 9:30	2.707	323.7	39.07	20.63	29.25	0
8/23/22 9:45	4.823	346.7	34.49	21.11	29.25	0
8/23/22 10:00	3.825	4.783	30.55	21.5	29.24	0
8/23/22 10:15	4.707	282.2	20.29	21.93	29.24	0
8/23/22 10:30	7.441	265.2	15.01	21.56	29.24	0
8/23/22 10:45	7.829	257.5	19.57	21.75	29.23	0
8/23/22 11:00	8.03	256.2	16.19	22.28	29.23	0
8/23/22 11:15	8.5	273.4	27.21	22.76	29.22	0
8/23/22 11:30	8.16	284.5	13.67	23.63	29.22	0
8/23/22 11:45	7.919	280.7	17.07	23.84	29.21	0
8/23/22 12:00	10.03	322.7	15.22	24.46	29.21	0
8/23/22 12:15	11.66	326.5	14.66	24.87	29.21	0
8/23/22 12:30	10.65	341.9	17.18	24.69	29.2	0
8/23/22 12:45	11.26	321.5	17.16	24.91	29.2	0
8/23/22 13:00	11.18	323.2	19.85	25.41	29.2	0
8/23/22 13:15	13.96	311.4	12.59	25.7	29.19	0
8/23/22 13:30	15.88	315.1	9.34	25.58	29.19	0
8/23/22 13:45	13.99	318.5	10.56	25.36	29.19	0
8/23/22 14:00	12.51	318.4	14.43	25.76	29.19	0
8/23/22 14:15	9.41	345.7	26.93	26.17	29.18	0
8/23/22 14:30	9.23	315.9	20.52	26.01	29.18	0
8/23/22 14:45	10.55	326.5	22.74	26	29.17	0
8/23/22 15:00	11.86	316.5	13.92	26.16	29.17	0
8/23/22 15:15	12.32	318.5	15.4	25.86	29.17	0
8/23/22 15:30	10.54	304.6	12.08	25.75	29.17	0
8/23/22 15:45	10.99	308.7	9.94	26.2	29.16	0
8/23/22 16:00	9.88	339.6	24.93	26.02	29.16	0
8/23/22 16:15	7.759	339.9	25.37	26.08	29.16	0
8/23/22 16:30	7.605	331.1	27.47	25.65	29.16	0
8/23/22 16:45	10.29	314.2	9.98	25.83	29.16	0
8/23/22 17:00	8.33	319.6	10.56	26.02	29.16	0
8/23/22 17:15	8.17	319.8	19.91	26.18	29.15	0
8/23/22 17:30	7.91	343.3	20.02	25.65	29.15	0
8/23/22 17:45	7.638	328.9	12.42	25.34	29.15	0
8/23/22 18:00	8.6	341	8.14	25.04	29.15	0
8/23/22 18:15	6.798	341.3	14.12	24.74	29.16	0
8/23/22 18:30	6.276	335	7.874	24.14	29.16	0
8/23/22 18:45	5.127	327.5	5.696	23.66	29.16	0
8/23/22 19:00	5.373	325.9	8.38	23.28	29.16	0
8/23/22 19:15	4.624	335.6	5.761	22.97	29.16	0
8/23/22 19:30	5.66	322.8	11.48	22.62	29.16	0
8/23/22 19:45	2.683	9.71	23.52	22.35	29.16	0
8/23/22 20:00	1.225	11.8	15.09	22.12	29.17	0
8/23/22 20:15	6.428	5.658	15.48	21.87	29.17	0
8/23/22 20:30	6.918	354	18.12	21.89	29.17	0
8/23/22 20:45	5.236	332.2	21.89	21.97	29.17	0
8/23/22 21:00	4.65	326.1	8.49	21.42	29.17	0
8/23/22 21:15	6.808	330.9	8.99	20.74	29.17	0
8/23/22 21:30	8.02	352.1	12.5	20.69	29.17	0
8/23/22 21:45	10.46	1.042	12.98	20.52	29.17	0
8/23/22 22:00	10.46	10.46	12.04	20.28	29.16	0
8/23/22 22:15	8.44	8.11	12.98	20.17	29.16	0
8/23/22 22:30	7.125	19.28	11	19.97	29.16	0
8/23/22 22:45	8.76	19.71	8.71	19.59	29.16	0
8/23/22 23:00	10.09	20.41	9.8	19.26	29.15	0
8/23/22 23:15	10.44	23.09	9.42	19.03	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
8/23/22 23:30	8.34	19.3	14.92	18.9	29.15	0
8/23/22 23:45	9.48	22.48	9.46	18.68	29.15	0
8/24/22 0:00	9.62	21.18	7.129	18.42	29.15	0
8/24/22 0:15	8.74	26.02	6.917	18.26	29.14	0
8/24/22 0:30	7.55	30.54	8.76	18.04	29.14	0
8/24/22 0:45	7.95	17.14	11.25	18.17	29.14	0
8/24/22 1:00	6.833	16.18	7.759	18.13	29.14	0
8/24/22 1:15	5.432	23.54	9.74	18.17	29.14	0
8/24/22 1:30	3.414	19.56	11.08	18.02	29.14	0
8/24/22 1:45	3.673	37.06	22.8	17.76	29.14	0
8/24/22 2:00	3.82	35.94	7.304	17.26	29.14	0
8/24/22 2:15	7.307	23.23	10.49	16.97	29.14	0
8/24/22 2:30	7.372	24.87	8.16	16.73	29.14	0
8/24/22 2:45	6.338	19.57	7.629	16.64	29.14	0
8/24/22 3:00	4.974	6.398	6.608	16.39	29.14	0
8/24/22 3:15	4.038	24.96	11.14	16.42	29.14	0
8/24/22 3:30	3.563	23.97	6.223	16.19	29.14	0
8/24/22 3:45	3.33	35.34	9.53	15.99	29.14	0
8/24/22 4:00	2.529	28.32	12.59	16.01	29.14	0
8/24/22 4:15	0.857	10.7	16.87	16.27	29.14	0
8/24/22 4:30	1.692	116.7	52.63	16.45	29.14	0
8/24/22 4:45	2.091	170.1	20.38	16.36	29.14	0
8/24/22 5:00	1.378	107	4.797	16.03	29.14	0
8/24/22 5:15	1.976	125.9	15.74	15.83	29.14	0
8/24/22 5:30	1.802	108.4	23.61	15.88	29.14	0
8/24/22 5:45	0.734	81.4	0.277	15.75	29.14	0
8/24/22 6:00	1.979	144.9	19.95	16.18	29.15	0
8/24/22 6:15	2.844	182.1	10.76	16.55	29.15	0
8/24/22 6:30	2.442	167.5	22.49	16.71	29.15	0
8/24/22 6:45	1.844	131.6	15.2	17.31	29.15	0
8/24/22 7:00	1.942	146.3	16.28	17.52	29.15	0
8/24/22 7:15	2.38	139	20.52	17.89	29.15	0
8/24/22 7:30	1.44	106.1	41.8	18.77	29.15	0
8/24/22 7:45	2.814	42	25.51	19.12	29.15	0
8/24/22 8:00	1.947	17.39	13.18	19.11	29.15	0
8/24/22 8:15	3.245	19.07	19.07	19.72	29.14	0
8/24/22 8:30	3.101	29.57	13.82	20.08	29.14	0
8/24/22 8:45	3.899	13.98	16.66	20.41	29.14	0
8/24/22 9:00	3.523	32.27	23.94	20.95	29.14	0
8/24/22 9:15	4.695	40.47	18.56	21.42	29.14	0
8/24/22 9:30	4.749	28.49	20.03	21.53	29.13	0
8/24/22 9:45	4.521	25.32	18.78	21.96	29.13	0
8/24/22 10:00	4.299	17.51	20.84	22.81	29.13	0
8/24/22 10:15	4.178	28.61	18.36	23.32	29.12	0
8/24/22 10:30	3.782	43.31	29.01	24.07	29.12	0
8/24/22 10:45	3.941	10.8	30.52	24.47	29.12	0
8/24/22 11:00	6.007	35.78	14.45	24.93	29.11	0
8/24/22 11:15	5.188	9.84	23.98	25.48	29.11	0
8/24/22 11:30	6.174	341.2	34.69	26.2	29.11	0
8/24/22 11:45	8.21	311	15.27	26.26	29.1	0
8/24/22 12:00	6.154	309.4	22.14	27.08	29.1	0
8/24/22 12:15	6.387	307	22.16	27.42	29.1	0
8/24/22 12:30	8.96	299	17.49	27.53	29.1	0
8/24/22 12:45	9.02	298.6	13.53	27.68	29.09	0
8/24/22 13:00	9.13	305.7	12.94	28.01	29.09	0
8/24/22 13:15	9.5	291.5	15.14	28.34	29.09	0
8/24/22 13:30	8.36	288.7	18.6	28.64	29.08	0
8/24/22 13:45	7.911	283.3	13.14	28.99	29.08	0
8/24/22 14:00	7.516	313.3	26.09	29.32	29.08	0
8/24/22 14:15	7.444	329.2	20.44	29.5	29.07	0
8/24/22 14:30	7.353	311.2	18.06	29.52	29.07	0
8/24/22 14:45	7.64	347.8	20.53	29.89	29.07	0
8/24/22 15:00	6.315	328.8	28.48	29.97	29.06	0
8/24/22 15:15	6.482	321.8	32.76	30.08	29.06	0
8/24/22 15:30	7.4	338.2	26.77	30.01	29.06	0
8/24/22 15:45	8.42	336.6	22.44	30.05	29.06	0
8/24/22 16:00	8.15	336.8	20.96	29.98	29.06	0
8/24/22 16:15	7.692	325.9	16.56	30.2	29.06	0
8/24/22 16:30	7.75	319	24.93	29.96	29.06	0
8/24/22 16:45	7.986	319.7	16.27	29.76	29.05	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
8/24/22 17:00	7.027	318.7	14.15	29.65	29.06	0
8/24/22 17:15	7.841	309.8	8.82	29.49	29.05	0
8/24/22 17:30	6.623	324.6	18.01	29.24	29.05	0
8/24/22 17:45	6.548	313.7	8.95	29.12	29.05	0
8/24/22 18:00	7.343	309.7	6.077	28.63	29.06	0
8/24/22 18:15	6.256	310.7	7.288	28.19	29.06	0
8/24/22 18:30	6.076	303.2	9.2	27.73	29.06	0
8/24/22 18:45	6.179	293.1	7.077	27.07	29.07	0
8/24/22 19:00	6.838	301.8	8.27	26.37	29.07	0
8/24/22 19:15	5.749	304.4	6.524	25.68	29.07	0
8/24/22 19:30	6.422	316	6.068	25.74	29.07	0
8/24/22 19:45	4.733	0.044	10.8	25.02	29.08	0
8/24/22 20:00	5.638	2.445	8.85	24.77	29.08	0
8/24/22 20:15	5.492	1.879	9.02	24.36	29.09	0
8/24/22 20:30	3.172	36.88	47.57	23.66	29.09	0
8/24/22 20:45	3.08	14.35	20.49	24.21	29.09	0
8/24/22 21:00	2.298	17.32	13.17	23.65	29.1	0
8/24/22 21:15	2.062	3.716	10.39	23.32	29.1	0
8/24/22 21:30	4.961	14.29	9.38	22.93	29.1	0
8/24/22 21:45	5.479	19.63	7.441	22.57	29.1	0
8/24/22 22:00	5.363	21.48	3.997	21.86	29.1	0
8/24/22 22:15	5.927	27.24	6.032	21.84	29.1	0
8/24/22 22:30	6.5	29.27	5.324	21.79	29.1	0
8/24/22 22:45	5.509	40.7	13.43	21.4	29.1	0
8/24/22 23:00	5.499	53.72	9.41	20.98	29.1	0
8/24/22 23:15	5.571	42.28	7.458	21.09	29.11	0
8/24/22 23:30	5.619	38.17	6.553	21.36	29.11	0
8/24/22 23:45	5.019	32.56	7.378	21.14	29.11	0
8/25/22 0:00	4	37.15	7.663	20.8	29.11	0
8/25/22 0:15	4.417	45.49	7.824	20.62	29.11	0
8/25/22 0:30	2.736	45.67	8.22	20.64	29.11	0
8/25/22 0:45	1.955	16.47	8.33	20.79	29.11	0
8/25/22 1:00	0.818	27.2	3.085	20.67	29.11	0
8/25/22 1:15	0.555	166.4	43.92	20.53	29.11	0
8/25/22 1:30	2.767	164.9	25.8	21.24	29.11	0
8/25/22 1:45	3.562	132.1	4.886	21.13	29.12	0
8/25/22 2:00	2.658	156.8	21.49	20.63	29.12	0
8/25/22 2:15	1.433	222.7	25.35	19.73	29.12	0
8/25/22 2:30	1.543	298.4	27.02	19.59	29.12	0
8/25/22 2:45	0.607	17.09	7.946	20.45	29.13	0
8/25/22 3:00	0.445	108.2	19.72	20.63	29.13	0
8/25/22 3:15	2.019	129.1	14.36	20.59	29.13	0
8/25/22 3:30	3.119	156.3	7.529	19.95	29.13	0
8/25/22 3:45	2.868	149.3	13.92	19.76	29.13	0
8/25/22 4:00	2.436	131.7	17.04	19.59	29.13	0
8/25/22 4:15	2.291	132.9	12.2	19.38	29.13	0
8/25/22 4:30	0.651	109.7	13.96	19.14	29.14	0
8/25/22 4:45	0.821	57.85	24.65	19.16	29.14	0
8/25/22 5:00	0.193	32.08	12.84	19.44	29.14	0
8/25/22 5:15	2.728	187.7	7.612	20.01	29.15	0
8/25/22 5:30	3.239	169.1	5.967	19.79	29.15	0
8/25/22 5:45	3.526	147.8	5.01	19.51	29.16	0
8/25/22 6:00	3.853	165.2	3.103	19.57	29.16	0
8/25/22 6:15	3.561	160.4	6.267	19.63	29.17	0
8/25/22 6:30	1.988	150.8	13.83	19.85	29.17	0
8/25/22 6:45	2.016	168.9	18.33	19.75	29.17	0
8/25/22 7:00	3.443	148.5	9.94	20.23	29.18	0
8/25/22 7:15	4.684	170.5	8.16	20.53	29.18	0
8/25/22 7:30	4.477	170.9	11.98	20.68	29.18	0
8/25/22 7:45	4.952	195.9	11.37	20.49	29.18	0
8/25/22 8:00	4.961	186.9	10.15	20.88	29.19	0
8/25/22 8:15	4.166	188.1	13.95	21.33	29.19	0
8/25/22 8:30	3.45	154.3	35.25	22.36	29.19	0
8/25/22 8:45	3.034	149.3	29.18	23.21	29.19	0
8/25/22 9:00	4.226	188.4	21.78	23.27	29.19	0
8/25/22 9:15	4.416	201	18.88	23.43	29.19	0
8/25/22 9:30	2.921	193.9	51.06	24.15	29.19	0
8/25/22 9:45	3.355	242.9	32.61	24.39	29.19	0
8/25/22 10:00	4.11	204.3	40.93	24.94	29.19	0
8/25/22 10:15	3.112	215.2	34.18	25.71	29.19	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
8/25/22 10:30	4.378	279.5	22.36	25.93	29.19	0
8/25/22 10:45	3.641	250.9	26.78	26.18	29.18	0
8/25/22 11:00	5.568	272.9	29.09	26.67	29.18	0
8/25/22 11:15	5.034	260.7	16.55	27.07	29.18	0
8/25/22 11:30	5.36	248.9	31.14	27.24	29.18	0
8/25/22 11:45	5.534	268.5	26.83	27.88	29.18	0
8/25/22 12:00	5.763	256	25.05	28.29	29.18	0
8/25/22 12:15	7.768	261.5	16.81	28.42	29.17	0
8/25/22 12:30	8.33	256.4	19.33	28.49	29.17	0
8/25/22 12:45	9.01	245.1	15.56	28.74	29.17	0
8/25/22 13:00	9.7	245.7	10.01	28.93	29.16	0
8/25/22 13:15	7.352	274	30.59	29.48	29.16	0
8/25/22 13:30	8.77	251.5	23.29	29.62	29.16	0
8/25/22 13:45	8.35	259.7	22.08	29.82	29.15	0
8/25/22 14:00	8.17	247.8	14.78	29.94	29.15	0
8/25/22 14:15	7.841	263.8	26.91	30.26	29.15	0
8/25/22 14:30	7.664	284	27.37	30.37	29.14	0
8/25/22 14:45	7.044	308	13.8	30.56	29.14	0
8/25/22 15:00	5.674	279.3	26.34	30.58	29.14	0
8/25/22 15:15	5.689	304.9	20.78	30.79	29.14	0
8/25/22 15:30	6.917	278.2	27.18	30.82	29.13	0
8/25/22 15:45	8	248.4	14.6	30.92	29.13	0
8/25/22 16:00	7.825	255.1	22.15	30.96	29.13	0
8/25/22 16:15	7.702	254.7	21.95	30.66	29.13	0
8/25/22 16:30	6.242	263.4	19.71	30.83	29.13	0
8/25/22 16:45	6.856	270.6	20.17	30.64	29.12	0
8/25/22 17:00	7.608	273.5	9.64	30.23	29.12	0
8/25/22 17:15	7.298	250.9	14.1	30.17	29.13	0
8/25/22 17:30	7.165	254.9	13.59	30.05	29.12	0
8/25/22 17:45	7.58	241.5	7.055	29.79	29.12	0
8/25/22 18:00	7.525	229.9	8.11	29.45	29.12	0
8/25/22 18:15	6.916	224.9	7.6	29.15	29.12	0
8/25/22 18:30	6.026	227.9	7.343	28.8	29.13	0
8/25/22 18:45	4.661	238.5	8.21	28.3	29.13	0
8/25/22 19:00	4.829	257.1	7.778	27.64	29.13	0
8/25/22 19:15	3.467	293.9	15.45	27.13	29.13	0
8/25/22 19:30	4.035	267.5	21.19	26.68	29.13	0
8/25/22 19:45	7.066	245.2	4.316	25.75	29.14	0
8/25/22 20:00	7.801	249.8	6.201	24.78	29.14	0
8/25/22 20:15	6.7	258.1	7.108	23.83	29.15	0
8/25/22 20:30	5.399	254.8	11.06	23.13	29.16	0
8/25/22 20:45	5.146	259.2	11.43	22.54	29.16	0
8/25/22 21:00	5.059	253.5	10.88	22.05	29.17	0
8/25/22 21:15	5.923	225.8	8.36	21.81	29.17	0
8/25/22 21:30	5.703	216.9	2.681	21.56	29.17	0
8/25/22 21:45	6.136	218.7	5.017	21.27	29.17	0
8/25/22 22:00	5.798	200.8	4.769	20.76	29.16	0
8/25/22 22:15	6.351	202.9	6.357	20.33	29.16	0
8/25/22 22:30	5.287	204.9	6.855	19.97	29.16	0
8/25/22 22:45	3.628	230.6	12.2	19.62	29.16	0
8/25/22 23:00	4.535	249.8	9.9	19.09	29.16	0
8/25/22 23:15	5.193	234.6	8.02	18.51	29.16	0
8/25/22 23:30	6.777	225.5	4.499	17.98	29.17	0
8/25/22 23:45	6.644	223.2	4.067	17.57	29.17	0
8/26/22 0:00	6.63	221.2	5.903	17.26	29.17	0
8/26/22 0:15	6.433	199.4	10.39	16.96	29.17	0
8/26/22 0:30	4.74	189	6.215	16.64	29.17	0
8/26/22 0:45	5.223	176.4	9.57	16.34	29.17	0
8/26/22 1:00	5.395	185.1	10.54	16.29	29.18	0
8/26/22 1:15	6.282	169.2	9.15	15.94	29.18	0
8/26/22 1:30	5.835	161.3	7.976	15.57	29.18	0
8/26/22 1:45	6.749	187.1	6.531	15.67	29.18	0
8/26/22 2:00	6.82	192.9	4.204	15.61	29.19	0
8/26/22 2:15	6.367	188.3	4.034	15.43	29.19	0
8/26/22 2:30	6.413	187.8	5.063	15.27	29.19	0
8/26/22 2:45	7.198	175.6	7.693	15.21	29.19	0
8/26/22 3:00	6.829	177.7	8.82	15.18	29.19	0
8/26/22 3:15	5.584	157.6	8.35	14.98	29.18	0
8/26/22 3:30	5.278	134.6	6.41	14.77	29.18	0
8/26/22 3:45	5.916	133.7	9.4	15.08	29.19	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
8/26/22 4:00	7.181	137.2	7.407	15.19	29.19	0
8/26/22 4:15	6.662	138.3	6.487	15.18	29.19	0
8/26/22 4:30	5.915	172	10.89	15.31	29.19	0
8/26/22 4:45	5.779	147.7	20.43	15.32	29.19	0
8/26/22 5:00	5.991	133.9	6.962	15.22	29.19	0
8/26/22 5:15	6.045	137.6	5.565	15.29	29.19	0
8/26/22 5:30	7.773	161	13.38	15.45	29.19	0
8/26/22 5:45	10.04	171.1	8.37	15.52	29.19	0
8/26/22 6:00	10.57	162.9	10.92	15.53	29.19	0
8/26/22 6:15	10.04	173.2	9.64	15.46	29.19	0
8/26/22 6:30	9.33	176.6	10.04	15.41	29.2	0
8/26/22 6:45	10	174.3	10.51	15.38	29.2	0
8/26/22 7:00	9.43	175.1	8.35	15.24	29.2	0
8/26/22 7:15	8.45	175.2	10.08	15.27	29.2	0
8/26/22 7:30	7.412	156.9	12.51	15.39	29.2	0
8/26/22 7:45	7.467	144.7	9.21	15.51	29.2	0
8/26/22 8:00	7.757	145.7	9.07	15.64	29.2	0
8/26/22 8:15	7.268	158	15.5	15.77	29.2	0
8/26/22 8:30	8.27	178.2	12.08	15.76	29.2	0
8/26/22 8:45	8.8	190.5	11.31	15.88	29.21	0
8/26/22 9:00	9.19	196.6	10.71	16.02	29.21	0
8/26/22 9:15	7.733	202.6	12.18	16.16	29.21	0
8/26/22 9:30	7.251	192.2	14.84	16.27	29.21	0
8/26/22 9:45	6.481	181.2	10.56	16.5	29.21	0
8/26/22 10:00	6.65	183.5	12.74	16.75	29.21	0
8/26/22 10:15	7.809	197.9	19.09	16.77	29.21	0
8/26/22 10:30	6.693	197.1	12.73	17.05	29.21	0
8/26/22 10:45	4.809	206.9	25.82	17.35	29.21	0
8/26/22 11:00	5.421	221.7	18.97	17.46	29.2	0
8/26/22 11:15	6.796	209.4	16.33	17.75	29.2	0
8/26/22 11:30	6.287	192.4	14.6	18.13	29.2	0
8/26/22 11:45	4.848	202.9	21.06	18.48	29.2	0
8/26/22 12:00	9.7	190.1	17.37	19.21	29.2	0
8/26/22 12:15	9.98	223.1	16.04	19.7	29.19	0
8/26/22 12:30	10.73	220.9	12.36	19.6	29.19	0
8/26/22 12:45	7.405	227	26.74	19.94	29.19	0
8/26/22 13:00	9.14	226.4	14.32	19.97	29.19	0
8/26/22 13:15	9.48	215.3	16.84	19.89	29.19	0
8/26/22 13:30	8.07	235.2	18.24	20.28	29.19	0
8/26/22 13:45	9.13	221.4	23.09	20.19	29.19	0
8/26/22 14:00	9.15	224.6	17.44	20.44	29.19	0
8/26/22 14:15	6.833	239.8	19.87	20.31	29.19	0
8/26/22 14:30	8.06	215.1	11.73	20.04	29.18	0
8/26/22 14:45	5.83	219.3	18.33	19.88	29.18	0
8/26/22 15:00	7.354	214.9	14.24	19.81	29.18	0
8/26/22 15:15	5.002	181.3	23.67	19.96	29.18	0
8/26/22 15:30	5.371	171.7	13.97	19.99	29.17	0
8/26/22 15:45	6.206	179.4	20.46	20.4	29.17	0
8/26/22 16:00	7.614	165.5	16.45	20.44	29.17	0
8/26/22 16:15	6.634	174.6	12.31	20.27	29.17	0
8/26/22 16:30	6.997	163.3	12.22	20.34	29.16	0
8/26/22 16:45	6.853	179.7	10.75	20.14	29.16	0
8/26/22 17:00	6.973	184.7	9.97	20.05	29.16	0
8/26/22 17:15	6.633	175.8	11.5	20.01	29.16	0
8/26/22 17:30	6.411	167	14.96	20	29.15	0
8/26/22 17:45	5.637	154.7	14.44	19.83	29.15	0
8/26/22 18:00	4.348	152.7	14.11	19.67	29.15	0
8/26/22 18:15	3.324	137	12.97	19.52	29.14	0
8/26/22 18:30	4.397	132.2	6.287	19.44	29.14	0
8/26/22 18:45	4.177	122.9	9.89	19.3	29.13	0
8/26/22 19:00	2.919	104.2	18.98	19.2	29.13	0
8/26/22 19:15	3.496	128	7.351	19.14	29.13	0
8/26/22 19:30	5.381	137.4	4.419	19.03	29.13	0
8/26/22 19:45	5.244	132.5	8.98	18.97	29.13	0
8/26/22 20:00	6.741	157.6	26.87	18.91	29.13	0
8/26/22 20:15	6.711	240.2	11.28	18.91	29.13	0
8/26/22 20:30	8.82	234.7	7.692	18.72	29.13	0
8/26/22 20:45	6.987	246.1	16.41	18.48	29.13	0
8/26/22 21:00	8.03	254.8	9.12	18.12	29.13	0
8/26/22 21:15	10.36	254.9	9.98	17.52	29.13	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
8/26/22 21:30	9.13	249.8	8.99	17.08	29.14	0
8/26/22 21:45	7.337	246.2	8.86	16.79	29.14	0
8/26/22 22:00	9.01	236.1	9.76	16.39	29.14	0
8/26/22 22:15	4.932	239.8	16.14	16.09	29.15	0
8/26/22 22:30	4.811	245.1	15.58	15.9	29.15	0
8/26/22 22:45	4.739	210.2	11.8	15.86	29.14	0
8/26/22 23:00	4.656	218.1	14.26	15.72	29.14	0
8/26/22 23:15	6.516	183.1	12.15	15.38	29.14	0
8/26/22 23:30	7.179	195.8	12.5	15.21	29.13	0
8/26/22 23:45	4.683	175.1	8.57	15.06	29.13	0
8/27/22 0:00	4.682	169	5.271	14.68	29.13	0
8/27/22 0:15	5.333	172	5.394	14.61	29.13	0
8/27/22 0:30	5.308	177.9	8.12	14.54	29.13	0
8/27/22 0:45	5.869	183	7.684	14.5	29.13	0
8/27/22 1:00	5.521	180.3	11.04	14.35	29.13	0
8/27/22 1:15	5.842	157.9	13.01	14.2	29.13	0
8/27/22 1:30	6.104	145.2	6.386	14.09	29.12	0
8/27/22 1:45	6.191	166.7	11.66	14.06	29.12	0.01
8/27/22 2:00	6.596	171.9	7.65	14.04	29.12	0
8/27/22 2:15	7.569	173	9.77	13.99	29.12	0.01
8/27/22 2:30	8.4	172.6	7.824	13.87	29.12	0
8/27/22 2:45	10.09	180.2	8.65	13.7	29.12	0.01
8/27/22 3:00	8.98	193.7	11.26	13.67	29.13	0
8/27/22 3:15	7.968	201	8.18	13.63	29.13	0
8/27/22 3:30	7.275	221.6	19.93	13.41	29.13	0.03
8/27/22 3:45	7.965	221.2	7.377	13.12	29.14	0.01
8/27/22 4:00	7.908	206.5	12.22	13.04	29.14	0.01
8/27/22 4:15	9.48	186.7	10.64	12.86	29.14	0.01
8/27/22 4:30	9.24	170.8	8.98	12.67	29.13	0
8/27/22 4:45	9.04	169.3	9.66	12.72	29.13	0
8/27/22 5:00	8.05	172.3	8.23	12.82	29.13	0.01
8/27/22 5:15	7.046	171.4	9.74	12.89	29.14	0
8/27/22 5:30	5.768	174.1	8.29	12.91	29.15	0
8/27/22 5:45	7.464	173.7	8.91	12.96	29.15	0
8/27/22 6:00	5.747	144.2	10.73	12.8	29.15	0
8/27/22 6:15	7.043	145.4	9.74	12.77	29.15	0
8/27/22 6:30	6.784	164.5	7.265	12.87	29.16	0
8/27/22 6:45	3.987	146.9	18.83	12.79	29.16	0
8/27/22 7:00	4.323	157.8	12.86	12.78	29.16	0
8/27/22 7:15	7.101	178.1	9.1	12.79	29.16	0
8/27/22 7:30	6.843	183.2	11.37	12.84	29.16	0
8/27/22 7:45	6.489	177.1	11.85	12.87	29.17	0
8/27/22 8:00	4.201	142.5	15	12.73	29.17	0
8/27/22 8:15	6.602	178.3	12.05	12.74	29.17	0
8/27/22 8:30	4.982	145.8	36.99	13	29.17	0
8/27/22 8:45	3.03	91.6	9.02	12.87	29.17	0
8/27/22 9:00	3.333	108.8	8.93	12.84	29.17	0
8/27/22 9:15	2.817	110.1	11.79	12.99	29.17	0
8/27/22 9:30	3.311	156.4	20.51	13.3	29.17	0
8/27/22 9:45	4.708	151.4	17.28	13.72	29.17	0
8/27/22 10:00	5.009	166	15.41	13.76	29.17	0
8/27/22 10:15	6.456	170.9	10.56	13.87	29.18	0
8/27/22 10:30	7.071	181.9	10.15	13.89	29.18	0
8/27/22 10:45	4.069	157.7	19.77	14.02	29.18	0
8/27/22 11:00	2.286	88.8	20.91	14.09	29.19	0
8/27/22 11:15	3.489	95.4	10.72	13.81	29.18	0
8/27/22 11:30	4.592	89.6	9.8	13.93	29.18	0
8/27/22 11:45	4.297	82.5	9.93	14.21	29.18	0
8/27/22 12:00	4.9	83.9	14.49	14.79	29.18	0
8/27/22 12:15	3.97	113.3	18.16	15.67	29.18	0
8/27/22 12:30	4.263	95	25.77	16.08	29.17	0
8/27/22 12:45	3.736	138.5	61.24	16.55	29.17	0
8/27/22 13:00	3.817	138.9	35.54	16.53	29.17	0
8/27/22 13:15	2.905	76.2	19.07	16.73	29.18	0
8/27/22 13:30	2.435	34.2	26.24	16.68	29.18	0
8/27/22 13:45	1.875	43.23	41.22	17.22	29.17	0
8/27/22 14:00	2.03	345.6	77.92	17.87	29.17	0
8/27/22 14:15	3.621	182.7	97.2	17.8	29.17	0
8/27/22 14:30	4.712	242.7	46.39	18.61	29.17	0
8/27/22 14:45	4.969	196.1	54.91	19.08	29.17	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
8/27/22 15:00	5.179	201	22.57	19.09	29.16	0
8/27/22 15:15	4.081	223.9	46.93	19	29.16	0
8/27/22 15:30	4.913	230.2	24.94	19.07	29.16	0
8/27/22 15:45	5.149	279.1	17.73	18.86	29.16	0
8/27/22 16:00	3.958	267.5	17.34	19.13	29.16	0
8/27/22 16:15	6.097	283	16.69	19.22	29.16	0
8/27/22 16:30	6.283	269.6	18.87	19.71	29.16	0
8/27/22 16:45	5.234	272.7	20.55	19.34	29.16	0
8/27/22 17:00	4.022	268.3	18.1	18.88	29.15	0
8/27/22 17:15	3.247	281.9	23.12	18.72	29.16	0
8/27/22 17:30	3.534	311.1	11.65	18.44	29.16	0
8/27/22 17:45	3.473	312.4	6.384	18.26	29.16	0
8/27/22 18:00	3.319	302.8	7.802	18.03	29.16	0
8/27/22 18:15	2.901	303.6	6.244	18.03	29.16	0
8/27/22 18:30	2.901	322.8	10.02	17.79	29.16	0
8/27/22 18:45	2.362	338.3	7.995	17.42	29.16	0
8/27/22 19:00	1.738	10.53	16.83	17.15	29.16	0
8/27/22 19:15	0.919	13.23	19.58	16.85	29.16	0
8/27/22 19:30	1.146	277.5	56.25	16.35	29.16	0
8/27/22 19:45	2.634	237.2	5.292	16.81	29.17	0
8/27/22 20:00	3.263	271.9	19.48	16.5	29.17	0
8/27/22 20:15	0.495	43.38	19.86	15.42	29.17	0
8/27/22 20:30	0.994	61.45	17.39	15.2	29.18	0
8/27/22 20:45	2.416	262.3	12.1	15.86	29.18	0
8/27/22 21:00	2.772	253.6	14.62	16.03	29.18	0
8/27/22 21:15	3.561	238.4	5.678	15.96	29.19	0
8/27/22 21:30	3.015	232.9	7.237	15.87	29.19	0
8/27/22 21:45	1.924	200	23.86	15.71	29.19	0
8/27/22 22:00	2.707	188	15.26	15.48	29.19	0
8/27/22 22:15	4.482	227.8	11	15.52	29.19	0
8/27/22 22:30	4.334	224.1	9.78	15.41	29.19	0
8/27/22 22:45	2.821	229.5	6.857	15.18	29.18	0
8/27/22 23:00	1.915	179.6	34.21	14.91	29.18	0
8/27/22 23:15	1.935	161.5	22.58	14.63	29.18	0
8/27/22 23:30	3.905	212.7	9.62	14.53	29.18	0
8/27/22 23:45	3.846	214.1	3.441	14.32	29.19	0
8/28/22 0:00	3.716	205.3	5.234	14.1	29.19	0
8/28/22 0:15	3.801	211.3	5.995	13.95	29.19	0
8/28/22 0:30	3.327	210.4	4.936	13.79	29.19	0
8/28/22 0:45	2.996	202.2	6.328	13.55	29.19	0
8/28/22 1:00	2.631	205.7	12.34	13.45	29.19	0
8/28/22 1:15	2.384	166.3	16.25	13.17	29.19	0
8/28/22 1:30	2.338	158.8	7.208	12.91	29.19	0
8/28/22 1:45	2.89	164.3	9.96	12.8	29.19	0
8/28/22 2:00	3.832	174.6	7.585	12.73	29.19	0
8/28/22 2:15	3.219	166.8	10.11	12.59	29.19	0
8/28/22 2:30	3.363	169.3	8.75	12.38	29.19	0
8/28/22 2:45	3.535	171.6	6.46	12.24	29.19	0
8/28/22 3:00	3.271	167.2	4.346	12.1	29.19	0
8/28/22 3:15	3.555	170.3	4.801	12.06	29.19	0
8/28/22 3:30	4.06	162.8	9.35	12.05	29.19	0
8/28/22 3:45	4.222	142.4	4.2	11.62	29.19	0
8/28/22 4:00	4.068	172.4	5.143	11.69	29.2	0
8/28/22 4:15	3.873	164.6	7.704	11.72	29.19	0
8/28/22 4:30	2.333	122.9	13.34	11.53	29.2	0
8/28/22 4:45	2.652	122.9	20.56	11.32	29.2	0
8/28/22 5:00	4.583	127.8	6.654	11.41	29.2	0
8/28/22 5:15	3.172	155.2	16.96	11.59	29.2	0
8/28/22 5:30	2.692	153.3	8.46	11.63	29.21	0
8/28/22 5:45	2.972	154.9	15.55	11.78	29.21	0
8/28/22 6:00	2.815	142.6	10.94	11.84	29.21	0
8/28/22 6:15	2.017	132.8	9.05	11.85	29.21	0
8/28/22 6:30	2.26	136.4	20.12	12.07	29.22	0
8/28/22 6:45	2.446	159	28.28	12.18	29.22	0
8/28/22 7:00	3.048	170	12.22	12.29	29.22	0
8/28/22 7:15	2.589	151.2	16.99	12.35	29.22	0
8/28/22 7:30	2.085	142.3	23.16	12.5	29.22	0
8/28/22 7:45	2.206	154.4	20.31	12.68	29.23	0
8/28/22 8:00	2.807	192.7	18.29	12.81	29.23	0
8/28/22 8:15	3.688	201.2	11.59	13.05	29.22	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
8/28/22 8:30	3.665	192.3	15.97	13.36	29.22	0
8/28/22 8:45	2.072	236.4	74.82	13.53	29.22	0
8/28/22 9:00	1.853	259.4	57.76	14	29.22	0
8/28/22 9:15	2.022	294.4	41.69	14.55	29.22	0
8/28/22 9:30	3.058	274.7	41.22	15.19	29.21	0
8/28/22 9:45	3.138	270.4	44.27	15.78	29.21	0
8/28/22 10:00	4.159	314.4	22.76	16.4	29.21	0
8/28/22 10:15	3.22	351.4	44.53	17.19	29.21	0
8/28/22 10:30	3.001	319.5	41.34	18.09	29.21	0
8/28/22 10:45	4.268	19.01	31.42	18.52	29.2	0
8/28/22 11:00	4.566	324.1	32.73	18.54	29.2	0
8/28/22 11:15	4.291	341.1	33.18	19.15	29.19	0
8/28/22 11:30	5.723	16.68	26.39	19.6	29.19	0
8/28/22 11:45	6.37	25.04	13.5	20.06	29.19	0
8/28/22 12:00	5.733	352.5	51.05	19.98	29.18	0
8/28/22 12:15	5.626	328.1	28.96	20.27	29.18	0
8/28/22 12:30	4.446	317.2	28.06	20.7	29.17	0
8/28/22 12:45	6.612	277.1	19.59	21.24	29.17	0
8/28/22 13:00	5.46	300.1	23.24	21.82	29.17	0
8/28/22 13:15	4.534	293	38.54	22.15	29.16	0
8/28/22 13:30	7.992	22.22	15.25	22.3	29.16	0
8/28/22 13:45	6.507	3.491	23.83	22.68	29.15	0
8/28/22 14:00	7.236	346.1	25.27	23.09	29.15	0
8/28/22 14:15	8.66	310.4	15.88	23.41	29.15	0
8/28/22 14:30	9.71	309.6	14.43	23.29	29.15	0
8/28/22 14:45	9.37	314.6	16.61	23.29	29.14	0
8/28/22 15:00	9.17	335.3	17.87	23.32	29.14	0
8/28/22 15:15	8.88	322.4	18.5	23.35	29.14	0
8/28/22 15:30	8.15	300.1	12.7	23.43	29.14	0
8/28/22 15:45	7.251	319.3	27.57	23.65	29.14	0
8/28/22 16:00	11.09	317.9	13.46	23.32	29.13	0
8/28/22 16:15	9.77	324.4	16.63	23.31	29.13	0
8/28/22 16:30	10.08	325.1	19.11	23.2	29.13	0
8/28/22 16:45	7.681	4.819	18	22.96	29.13	0
8/28/22 17:00	6.972	335.2	26.64	23.07	29.13	0
8/28/22 17:15	7.914	350.4	17.94	22.76	29.13	0
8/28/22 17:30	7.673	349.3	14.64	22.63	29.14	0
8/28/22 17:45	6.62	339.5	21.84	22.65	29.14	0
8/28/22 18:00	8.23	314	10.31	22.41	29.14	0
8/28/22 18:15	8.8	315	7.819	22.04	29.14	0
8/28/22 18:30	7.604	314	7.188	21.54	29.14	0
8/28/22 18:45	7.395	309.3	6.097	20.87	29.14	0
8/28/22 19:00	5.706	315.9	5.585	20.27	29.14	0
8/28/22 19:15	6.347	321.3	5.194	19.69	29.14	0
8/28/22 19:30	6.991	320.3	3.702	19.3	29.14	0
8/28/22 19:45	6.757	320.7	4.6	18.85	29.15	0
8/28/22 20:00	6.783	326.2	4.893	18.62	29.15	0
8/28/22 20:15	5.749	333.3	4.426	18.59	29.15	0
8/28/22 20:30	2.909	4.635	21.63	18.57	29.16	0
8/28/22 20:45	5.154	20.02	11.34	18.13	29.16	0
8/28/22 21:00	6.868	13.86	10.19	17.5	29.16	0
8/28/22 21:15	5.562	20.54	13.85	17.32	29.16	0
8/28/22 21:30	5.988	22.86	10.68	17.23	29.16	0
8/28/22 21:45	6.703	21.14	10.45	17.07	29.16	0
8/28/22 22:00	8.28	23.96	5.758	16.94	29.16	0
8/28/22 22:15	8.55	16.33	7.623	16.85	29.16	0
8/28/22 22:30	7.258	17.09	6.452	16.44	29.16	0
8/28/22 22:45	7.128	27.6	6.335	15.98	29.16	0
8/28/22 23:00	8.81	27.86	5.749	15.85	29.16	0
8/28/22 23:15	8.84	25.78	8.77	16.04	29.16	0
8/28/22 23:30	6.94	34.88	6.928	16.18	29.16	0
8/28/22 23:45	5.509	39.69	6.517	15.76	29.16	0
8/29/22 0:00	6.783	30.66	9.86	15.36	29.17	0
8/29/22 0:15	7.079	29.65	10.69	14.69	29.17	0
8/29/22 0:30	6.077	20.62	10.43	14.37	29.17	0
8/29/22 0:45	6.049	14.3	7.382	14.44	29.17	0
8/29/22 1:00	4.394	8.21	9.47	14.35	29.17	0
8/29/22 1:15	3.22	4.601	11.79	14.38	29.18	0
8/29/22 1:30	3.396	14.87	7.994	14.41	29.18	0
8/29/22 1:45	4.758	23.39	9.75	13.84	29.18	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
8/29/22 2:00	7.666	14.71	10.44	13.65	29.18	0
8/29/22 2:15	7.331	22.14	10.29	13.45	29.18	0
8/29/22 2:30	8.63	22.94	9.01	13.37	29.18	0
8/29/22 2:45	6.809	24.61	8.54	13.14	29.18	0
8/29/22 3:00	5.743	26.97	9.22	13.13	29.18	0
8/29/22 3:15	5.436	33.8	10.23	13.32	29.18	0
8/29/22 3:30	4.081	27.71	7.441	13.5	29.19	0
8/29/22 3:45	4.396	33.18	11.19	13.18	29.19	0
8/29/22 4:00	4.145	19.58	5.312	13.03	29.19	0
8/29/22 4:15	3.147	14.26	9.31	12.56	29.19	0
8/29/22 4:30	4.202	1.237	11.69	12.64	29.19	0
8/29/22 4:45	4.149	14.65	8.3	12.59	29.19	0
8/29/22 5:00	3.729	14.28	7.47	12.54	29.19	0
8/29/22 5:15	4.23	15.54	8.7	12.36	29.19	0
8/29/22 5:30	3.364	31.2	7.518	12.09	29.19	0
8/29/22 5:45	3.007	31.82	4.436	12.4	29.19	0
8/29/22 6:00	1.619	30.53	7.128	12.95	29.2	0
8/29/22 6:15	0.703	68.75	1.279	14.42	29.2	0
8/29/22 6:30	0.897	57.01	5.834	14.68	29.2	0
8/29/22 6:45	1.197	69.52	13.06	15.09	29.2	0
8/29/22 7:00	1.748	24.37	37.39	15.88	29.2	0
8/29/22 7:15	1.82	334	12.74	15.75	29.21	0
8/29/22 7:30	1.716	353.8	26.16	16.36	29.21	0
8/29/22 7:45	2.48	0.815	22.33	16.46	29.21	0
8/29/22 8:00	3.053	7.554	22.18	16.64	29.21	0
8/29/22 8:15	2.471	21.23	28.6	17.18	29.21	0
8/29/22 8:30	1.663	343.5	37.32	18.37	29.21	0
8/29/22 8:45	3.221	336.4	26.27	18.9	29.21	0
8/29/22 9:00	4.405	326.5	15.04	19.23	29.21	0
8/29/22 9:15	3.031	297.9	52.91	19.67	29.21	0
8/29/22 9:30	2.507	6.69	54.61	20.11	29.22	0
8/29/22 9:45	3.03	27.19	39.14	21.15	29.22	0
8/29/22 10:00	3.789	18.57	18.9	21.4	29.22	0
8/29/22 10:15	3.552	6.128	31.98	21.97	29.22	0
8/29/22 10:30	3.305	14.8	37.46	22.67	29.22	0
8/29/22 10:45	3.018	338.6	48.86	23.15	29.21	0
8/29/22 11:00	4.786	307.9	45.13	23.81	29.21	0
8/29/22 11:15	5.815	277.1	19.28	24.39	29.21	0
8/29/22 11:30	6.479	278.6	15.39	24.2	29.21	0
8/29/22 11:45	7.457	4.713	45.58	24.7	29.2	0
8/29/22 12:00	10.25	19.73	11.73	25.07	29.2	0
8/29/22 12:15	10.29	19.59	10.22	25.21	29.19	0
8/29/22 12:30	8.92	16.48	17.24	25.8	29.19	0
8/29/22 12:45	8.79	9.02	16.34	26.04	29.18	0
8/29/22 13:00	10.44	11.3	15.89	26.4	29.18	0
8/29/22 13:15	11.08	4.997	17.9	26.69	29.18	0
8/29/22 13:30	10.81	5.377	17.42	27.08	29.17	0
8/29/22 13:45	10.63	5.739	16.55	27.19	29.17	0
8/29/22 14:00	9.94	4.545	18.25	27.66	29.17	0
8/29/22 14:15	10.13	355.2	19.07	27.84	29.17	0
8/29/22 14:30	9.68	351.3	17.61	28.09	29.16	0
8/29/22 14:45	10.69	348.6	19.87	28	29.16	0
8/29/22 15:00	9.51	357.3	18.72	27.92	29.16	0
8/29/22 15:15	8.98	344.2	20.01	28.1	29.16	0
8/29/22 15:30	10.19	345	19.82	28.21	29.15	0
8/29/22 15:45	10.85	347	15.45	28.2	29.15	0
8/29/22 16:00	9.48	349.2	18.51	28.29	29.14	0
8/29/22 16:15	7.813	357.8	19.11	28.32	29.14	0
8/29/22 16:30	6.208	332.5	22.35	28.5	29.14	0
8/29/22 16:45	5.076	323.8	33.27	28.64	29.14	0
8/29/22 17:00	5.763	347.4	34.38	28.4	29.14	0
8/29/22 17:15	5.22	11.09	22.8	28.05	29.14	0
8/29/22 17:30	4.475	357.1	31.53	28.05	29.13	0
8/29/22 17:45	5.958	7.563	20.82	27.59	29.13	0
8/29/22 18:00	7.775	359.6	19.08	26.97	29.13	0
8/29/22 18:15	8.41	3.689	16.95	26.57	29.13	0
8/29/22 18:30	8.58	7.448	18.25	26.06	29.13	0
8/29/22 18:45	8.03	5.919	15.48	25.69	29.13	0
8/29/22 19:00	7.302	10.53	16.3	25.16	29.13	0
8/29/22 19:15	8.22	9.33	16.43	24.69	29.13	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
8/29/22 19:30	9.65	8.78	10.93	24.26	29.13	0
8/29/22 19:45	11.03	7.263	12.79	24.01	29.14	0
8/29/22 20:00	12.42	358.8	14.63	23.9	29.14	0
8/29/22 20:15	11.45	359.2	13.91	23.74	29.14	0
8/29/22 20:30	9.34	3.281	12.79	23.38	29.15	0
8/29/22 20:45	12.01	1.377	15.07	23.11	29.14	0
8/29/22 21:00	12.42	1.811	13.58	22.81	29.15	0
8/29/22 21:15	12.56	359.3	15.68	22.43	29.15	0
8/29/22 21:30	12.09	4.778	14.46	22.15	29.15	0
8/29/22 21:45	11.42	8.95	11.26	21.87	29.15	0
8/29/22 22:00	11.08	13.06	13.37	21.76	29.15	0
8/29/22 22:15	11.52	15.9	11.08	21.57	29.15	0
8/29/22 22:30	11.49	20.84	12.12	21.24	29.15	0
8/29/22 22:45	10.66	18.09	9.66	20.71	29.15	0
8/29/22 23:00	9.45	17.78	7.926	20.01	29.15	0
8/29/22 23:15	8.77	23.81	8.09	19.91	29.15	0
8/29/22 23:30	7.465	28.78	7.713	19.48	29.15	0
8/29/22 23:45	6.311	35	7.248	18.87	29.16	0
8/30/22 0:00	6.686	24.06	7.772	18.53	29.16	0
8/30/22 0:15	6.947	31.88	7.914	18.47	29.16	0
8/30/22 0:30	6.735	19.19	7.364	18.63	29.16	0
8/30/22 0:45	5.542	19.27	6.681	18.1	29.16	0
8/30/22 1:00	4.182	7.657	8.16	18.03	29.16	0
8/30/22 1:15	4.881	13.85	6.456	17.75	29.16	0
8/30/22 1:30	4.926	7.507	8.3	17.53	29.16	0
8/30/22 1:45	5.248	10.67	7.627	17.57	29.16	0
8/30/22 2:00	4.213	10.01	7.202	17.47	29.16	0
8/30/22 2:15	3.858	9.59	9.34	17.51	29.16	0
8/30/22 2:30	4.715	15.19	6.849	17.43	29.17	0
8/30/22 2:45	4.799	9.24	7.291	16.99	29.17	0
8/30/22 3:00	4.431	11.24	7.792	17.25	29.17	0
8/30/22 3:15	4.086	15.08	8.67	16.84	29.16	0
8/30/22 3:30	4.452	20.44	7.866	16.71	29.16	0
8/30/22 3:45	4.432	21.27	6.961	16.37	29.16	0
8/30/22 4:00	4.743	23.05	4.772	16.03	29.16	0
8/30/22 4:15	5.283	11.75	8.68	16.03	29.16	0
8/30/22 4:30	4.949	9.39	6.475	16.09	29.16	0
8/30/22 4:45	4.242	9.93	6.233	16.17	29.16	0
8/30/22 5:00	4.194	13.16	5.924	16.01	29.17	0
8/30/22 5:15	4.158	9.4	6.059	15.86	29.17	0
8/30/22 5:30	2.647	18.15	12.45	15.72	29.17	0
8/30/22 5:45	2.333	85.2	37.19	15.36	29.18	0
8/30/22 6:00	3.151	47.39	8.16	15.69	29.19	0
8/30/22 6:15	3.381	30.97	4.38	15.84	29.19	0
8/30/22 6:30	1.016	52.78	17.43	16.95	29.19	0
8/30/22 6:45	2.602	43.56	11.46	16.64	29.19	0
8/30/22 7:00	4.175	24.36	9.52	16.47	29.19	0
8/30/22 7:15	4.417	12.25	8.55	16.77	29.19	0
8/30/22 7:30	4.622	27.18	14.57	17.37	29.19	0
8/30/22 7:45	4.232	44.37	15.9	17.85	29.19	0
8/30/22 8:00	2.989	5.907	19.02	18.46	29.19	0
8/30/22 8:15	3.785	345.9	20.12	19.14	29.19	0
8/30/22 8:30	3.047	314.3	13.58	20.53	29.19	0
8/30/22 8:45	1.75	304.4	37.4	21.62	29.19	0
8/30/22 9:00	1.803	267	26.24	22.34	29.19	0
8/30/22 9:15	2.017	258.2	36.72	22.67	29.19	0
8/30/22 9:30	3.385	32.13	18.54	23.3	29.19	0
8/30/22 9:45	2.912	24.69	21.68	23.75	29.19	0
8/30/22 10:00	2.078	27.78	26.35	24.57	29.18	0
8/30/22 10:15	4.556	29.76	16.32	25.24	29.18	0
8/30/22 10:30	5.396	31.34	16.2	25.56	29.18	0
8/30/22 10:45	5.512	36.58	16.07	26.21	29.18	0
8/30/22 11:00	5.326	24.09	18.78	26.67	29.17	0
8/30/22 11:15	5.731	29.95	19.66	27.08	29.17	0
8/30/22 11:30	5.511	10.37	16.27	27.54	29.17	0
8/30/22 11:45	5.462	32.4	18.02	27.73	29.17	0
8/30/22 12:00	5.637	32.67	13.86	27.33	29.16	0
8/30/22 12:15	3.946	24.26	14.93	27.28	29.16	0
8/30/22 12:30	3.447	279	42.66	28.73	29.16	0
8/30/22 12:45	3.069	316.8	45.21	29.53	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
8/30/22 13:00	7.79	11.85	18.33	29.88	29.15	0
8/30/22 13:15	8.48	14.85	15.37	30.03	29.15	0
8/30/22 13:30	9.27	19.4	10.95	30.48	29.14	0
8/30/22 13:45	10.79	18.39	9.87	30.58	29.14	0
8/30/22 14:00	10.62	21.08	9.65	31.02	29.14	0
8/30/22 14:15	10.82	12.91	12.07	31.21	29.13	0
8/30/22 14:30	9.85	10.79	13.83	31.31	29.13	0
8/30/22 14:45	9.16	9.27	12.6	31.57	29.13	0
8/30/22 15:00	10.11	4.103	13.35	31.74	29.12	0
8/30/22 15:15	10.19	1.731	15.51	31.67	29.12	0
8/30/22 15:30	8.09	1.843	14.2	31.94	29.11	0
8/30/22 15:45	9.74	354.6	15.65	31.93	29.11	0
8/30/22 16:00	9.36	352.9	15.77	31.89	29.1	0
8/30/22 16:15	10.73	349.8	14.69	31.81	29.1	0
8/30/22 16:30	10.49	349.7	14.09	31.81	29.1	0
8/30/22 16:45	9.98	345.7	14.68	31.61	29.1	0
8/30/22 17:00	10.6	350.5	14.11	31.37	29.09	0
8/30/22 17:15	12.14	350.8	14.83	30.91	29.09	0
8/30/22 17:30	9.96	357.5	16.36	30.61	29.09	0
8/30/22 17:45	7.706	351.4	18.48	30.35	29.09	0
8/30/22 18:00	7.426	348.4	13.69	30.29	29.09	0
8/30/22 18:15	9	342.9	16.52	29.8	29.09	0
8/30/22 18:30	7.421	339.5	8.82	29.06	29.09	0
8/30/22 18:45	7.633	339.7	11.08	28.75	29.1	0
8/30/22 19:00	6.065	354.4	15.51	28.12	29.1	0
8/30/22 19:15	6.32	0.907	14.34	27.38	29.11	0
8/30/22 19:30	6.51	12.77	7.12	26.46	29.11	0
8/30/22 19:45	4.934	35.09	8.07	25.94	29.11	0
8/30/22 20:00	5.212	34.75	8.39	25.59	29.12	0
8/30/22 20:15	4.896	42.61	10.56	25.45	29.12	0
8/30/22 20:30	3.615	121.4	42.3	25.09	29.13	0
8/30/22 20:45	2.069	55.84	26.37	24.46	29.13	0
8/30/22 21:00	4.638	74.22	13.7	23.44	29.12	0
8/30/22 21:15	4.632	90.3	4.127	24.39	29.11	0
8/30/22 21:30	3.979	32.05	12.14	24.34	29.11	0
8/30/22 21:45	4.559	28.27	10.16	23.61	29.11	0
8/30/22 22:00	4.448	37.6	10.99	23.1	29.11	0
8/30/22 22:15	4.84	13.25	5.715	22.29	29.12	0
8/30/22 22:30	4.127	7.821	12.36	21.86	29.12	0
8/30/22 22:45	2.818	268.5	43.81	21.9	29.12	0
8/30/22 23:00	3.135	317.6	67.66	21.69	29.12	0
8/30/22 23:15	4.575	23.2	4.288	21.23	29.12	0
8/30/22 23:30	4.495	14.84	6.355	21.74	29.12	0
8/30/22 23:45	3.684	10.95	9.67	22.38	29.12	0
8/31/22 0:00	1.821	31.24	12.41	21.63	29.12	0
8/31/22 0:15	2.816	154.3	16.22	20.99	29.13	0
8/31/22 0:30	2.342	136.1	37.37	21	29.13	0
8/31/22 0:45	1.621	30.04	10.45	21.78	29.13	0
8/31/22 1:00	0.539	34.1	0.353	22.13	29.13	0
8/31/22 1:15	0.494	111.5	54.05	22.41	29.13	0
8/31/22 1:30	1.351	166.3	37.73	21.24	29.13	0
8/31/22 1:45	0.438	25.37	35.71	20.99	29.12	0
8/31/22 2:00	1.539	177.9	11.43	21.39	29.12	0
8/31/22 2:15	1.929	12.81	15.75	21.4	29.12	0
8/31/22 2:30	2.619	44.85	6.641	21.33	29.12	0
8/31/22 2:45	2.496	48.88	19.53	21.54	29.12	0
8/31/22 3:00	3.459	21.26	5.408	20.8	29.11	0
8/31/22 3:15	2.893	29.14	9.73	21.09	29.11	0
8/31/22 3:30	2.844	31.91	8.64	21.37	29.11	0
8/31/22 3:45	2.373	54.65	16.6	20.97	29.11	0
8/31/22 4:00	3.968	45.5	54.13	20.13	29.11	0
8/31/22 4:15	8.14	315.5	4.014	20.63	29.09	0
8/31/22 4:30	4.805	344.2	35.44	19.97	29.1	0
8/31/22 4:45	5.422	157.1	61.3	19.94	29.11	0
8/31/22 5:00	6.142	149.4	33.66	18.68	29.12	0
8/31/22 5:15	5.244	65.57	27.35	18.46	29.11	0
8/31/22 5:30	9.01	298.8	44.55	18.78	29.07	0
8/31/22 5:45	7.761	217.1	73.89	18.62	29.1	0
8/31/22 6:00	4.322	35.82	45.37	17.94	29.12	0
8/31/22 6:15	3.229	305	56.37	18.53	29.12	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
8/31/22 6:30	4.138	241.8	15.45	19.1	29.11	0
8/31/22 6:45	4.067	186	22.2	19.62	29.12	0
8/31/22 7:00	2.749	91.3	21.3	20.06	29.12	0
8/31/22 7:15	3.202	122.4	16.74	20.68	29.12	0
8/31/22 7:30	3.947	135.6	10.8	20.95	29.13	0
8/31/22 7:45	5.169	140.2	11.92	21.28	29.13	0
8/31/22 8:00	4.502	122.6	14.82	22.01	29.13	0
8/31/22 8:15	4.454	160.6	26.87	22.08	29.13	0
8/31/22 8:30	2.835	187.5	30.82	22.71	29.13	0
8/31/22 8:45	3.752	180.3	20.29	23.44	29.13	0
8/31/22 9:00	3.31	209.3	20.23	23.53	29.13	0
8/31/22 9:15	2.314	203.6	59.13	24.4	29.13	0
8/31/22 9:30	4.246	219	10.69	24.39	29.13	0
8/31/22 9:45	3.18	219.1	24.87	24.83	29.13	0
8/31/22 10:00	2.765	191.3	66.68	25.63	29.13	0
8/31/22 10:15	3.685	234	23.48	25.8	29.13	0
8/31/22 10:30	4.314	218.7	27.99	26.13	29.13	0
8/31/22 10:45	4.757	243.3	14.41	26.42	29.13	0
8/31/22 11:00	5.644	272	22.78	26.98	29.13	0
8/31/22 11:15	6.884	264.9	20.78	27.15	29.13	0
8/31/22 11:30	6.974	249.7	21.65	27.17	29.13	0
8/31/22 11:45	8.24	270.7	15.04	27.52	29.13	0
8/31/22 12:00	7.88	248.4	34.93	27.59	29.13	0
8/31/22 12:15	6.69	199.5	15.76	27.74	29.13	0
8/31/22 12:30	5.281	205.6	33	27.74	29.13	0
8/31/22 12:45	5.591	216	16.88	28.11	29.13	0
8/31/22 13:00	6.234	224.1	21.55	28.16	29.13	0
8/31/22 13:15	6.56	218.5	23.63	28.74	29.14	0
8/31/22 13:30	8.17	226.2	18.86	28.68	29.14	0
8/31/22 13:45	8.44	221.4	17.05	28.56	29.14	0
8/31/22 14:00	7.577	218.8	20.9	29.22	29.14	0
8/31/22 14:15	8.4	219.3	17.38	29.13	29.14	0
8/31/22 14:30	6.975	208.9	28.38	29.1	29.14	0
8/31/22 14:45	7.353	241.6	20.08	29.66	29.13	0
8/31/22 15:00	9.68	236.9	13.01	29.33	29.13	0
8/31/22 15:15	11.01	229.3	14.94	28.89	29.13	0
8/31/22 15:30	13.39	245.3	8.03	28.46	29.13	0
8/31/22 15:45	11.85	242.9	12.16	28.23	29.14	0
8/31/22 16:00	9.15	248.3	20.64	28.15	29.14	0
8/31/22 16:15	8.81	249.1	19.71	27.61	29.14	0
8/31/22 16:30	6.49	260.5	17.46	26.95	29.14	0
8/31/22 16:45	6.204	241.3	16.45	27.62	29.14	0
8/31/22 17:00	8.61	241.2	13.75	27.75	29.14	0
8/31/22 17:15	10.68	243.7	8.83	27.3	29.14	0
8/31/22 17:30	8.46	242.7	10.06	26.86	29.14	0
8/31/22 17:45	6.67	249.9	11.06	26.37	29.14	0
8/31/22 18:00	4.962	243.4	9.41	26.01	29.14	0
8/31/22 18:15	5.568	238.9	8.59	25.72	29.15	0
8/31/22 18:30	5.154	233.5	9.51	25.25	29.14	0
8/31/22 18:45	6.343	231.2	7.181	24.62	29.15	0
8/31/22 19:00	8.03	233.6	7.053	23.85	29.15	0
8/31/22 19:15	9.05	233.5	4.838	23.22	29.15	0
8/31/22 19:30	7.906	231.3	5.073	22.71	29.16	0
8/31/22 19:45	4.395	240.1	8.19	22.03	29.17	0
8/31/22 20:00	1.143	240.3	38.89	21.49	29.17	0
8/31/22 20:15	2.864	242.4	10.69	21.21	29.17	0
8/31/22 20:30	4.952	240.6	4.852	20.8	29.18	0
8/31/22 20:45	4.462	256.2	5.484	20.3	29.18	0
8/31/22 21:00	2.952	248.7	7.947	19.9	29.18	0
8/31/22 21:15	2.103	213.1	17.28	19.71	29.18	0
8/31/22 21:30	2.314	160.8	24.66	19.56	29.19	0
8/31/22 21:45	2.426	176.8	10.95	19.29	29.19	0
8/31/22 22:00	4.332	178.6	12.28	18.98	29.19	0
8/31/22 22:15	3.95	177.9	13.14	18.74	29.19	0
8/31/22 22:30	3.788	164.9	5.858	18.47	29.19	0
8/31/22 22:45	4.361	167.7	5.832	18.02	29.19	0
8/31/22 23:00	5.585	171.6	5.938	17.72	29.19	0
8/31/22 23:15	5.221	187.3	9.03	17.66	29.19	0
8/31/22 23:30	3.28	153.7	16.01	17.34	29.19	0
8/31/22 23:45	3.374	165.9	10.75	17.04	29.2	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/1/22 0:00	5.008	163	11.88	16.82	29.2	0
9/1/22 0:15	4.879	182.9	4.837	16.81	29.19	0
9/1/22 0:30	4.778	187.3	5.387	16.73	29.19	0
9/1/22 0:45	5.262	199.7	4.718	16.83	29.2	0
9/1/22 1:00	4.784	189.4	20.98	16.75	29.2	0
9/1/22 1:15	2.418	130.1	10.16	16.11	29.2	0
9/1/22 1:30	2.662	124.9	9.54	15.99	29.2	0
9/1/22 1:45	2.477	179.2	13.18	16.41	29.2	0
9/1/22 2:00	1.766	194.9	5.037	16.4	29.2	0
9/1/22 2:15	1.181	216.3	9.43	16.23	29.21	0
9/1/22 2:30	0	0	0	15.96	29.2	0
9/1/22 2:45	0	0	0	15.88	29.2	0
9/1/22 3:00	1.856	236.2	11.19	15.76	29.2	0
9/1/22 3:15	1.92	256.4	7.815	15.41	29.2	0
9/1/22 3:30	3.148	278.5	4.088	14.94	29.21	0
9/1/22 3:45	3.823	277.8	3.455	14.66	29.2	0
9/1/22 4:00	4.294	270.2	4.158	14.49	29.2	0
9/1/22 4:15	3.089	268.8	8.13	14.42	29.2	0
9/1/22 4:30	3.021	266.7	8.79	14.3	29.2	0
9/1/22 4:45	4.325	250.1	3.373	14.22	29.2	0
9/1/22 5:00	3.375	250.9	23.47	14.09	29.2	0
9/1/22 5:15	3.761	239.3	8.14	13.97	29.2	0
9/1/22 5:30	1.969	232.1	11.51	13.97	29.21	0
9/1/22 5:45	2.533	238.3	13.29	14.03	29.21	0
9/1/22 6:00	2.656	199.3	25.72	13.99	29.22	0
9/1/22 6:15	2.798	158	17.6	13.92	29.22	0
9/1/22 6:30	2.816	121.7	14.17	13.87	29.22	0
9/1/22 6:45	2.96	152.3	18.96	13.85	29.23	0
9/1/22 7:00	3.004	162.3	17.68	13.91	29.23	0
9/1/22 7:15	3.723	196.5	18.1	13.83	29.23	0
9/1/22 7:30	3.272	184.3	13.01	13.87	29.24	0
9/1/22 7:45	1.977	201.7	20.1	13.86	29.24	0
9/1/22 8:00	0.921	283.3	21.11	14.04	29.24	0
9/1/22 8:15	1.275	155.2	44.52	14.17	29.24	0
9/1/22 8:30	0.138	133.7	13.95	14.41	29.25	0
9/1/22 8:45	0.973	126.2	34.8	14.34	29.25	0
9/1/22 9:00	2.15	166.4	36.34	14.38	29.25	0
9/1/22 9:15	2.741	133.4	14.33	14.49	29.25	0
9/1/22 9:30	2.399	131.5	27.59	14.64	29.25	0
9/1/22 9:45	1.848	71.94	21.47	14.87	29.25	0
9/1/22 10:00	1.565	42.99	22.85	15.2	29.25	0
9/1/22 10:15	1.474	87.6	91.4	15.77	29.24	0
9/1/22 10:30	3.262	213.2	22.17	16.13	29.24	0
9/1/22 10:45	2.704	206.5	24.66	16.19	29.24	0
9/1/22 11:00	2.538	193.1	27.93	16.86	29.23	0
9/1/22 11:15	3.069	224.4	31.01	16.96	29.23	0
9/1/22 11:30	3.309	232.4	24.45	17.31	29.23	0
9/1/22 11:45	3.421	212.9	39.84	18.02	29.22	0
9/1/22 12:00	3.547	206.8	46.03	18.99	29.22	0
9/1/22 12:15	3.326	215.3	44.38	19.94	29.21	0
9/1/22 12:30	3.963	246.2	39.09	20.49	29.21	0
9/1/22 12:45	2.197	311.6	63.56	21.27	29.21	0
9/1/22 13:00	3.331	321	34.95	21.86	29.2	0
9/1/22 13:15	3.831	311.2	24.59	22.81	29.2	0
9/1/22 13:30	4.029	278.9	32.21	23.13	29.19	0
9/1/22 13:45	3.935	267.1	31.37	23.31	29.19	0
9/1/22 14:00	5.83	275.4	21.49	23.87	29.18	0
9/1/22 14:15	5.218	267.7	23.87	24.41	29.18	0
9/1/22 14:30	4.785	272.5	32.59	24.34	29.17	0
9/1/22 14:45	2.872	285	41.26	24.67	29.17	0
9/1/22 15:00	3.04	299.5	45.18	25.44	29.16	0
9/1/22 15:15	2.531	331.9	43.01	25.87	29.15	0
9/1/22 15:30	3.458	289.9	23.86	26.12	29.15	0
9/1/22 15:45	3.032	291.7	29.98	26.19	29.14	0
9/1/22 16:00	4.904	266.5	21.24	26.05	29.14	0
9/1/22 16:15	6.64	273.4	12.03	26.09	29.14	0
9/1/22 16:30	6.955	267.1	11.22	25.73	29.14	0
9/1/22 16:45	5.759	280.3	14.67	25.67	29.13	0
9/1/22 17:00	3.664	297.1	17.87	25.72	29.13	0
9/1/22 17:15	3.34	316.7	18.34	25.71	29.13	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
9/1/22 17:30	2.846	323.9	13	25.48	29.12	0
9/1/22 17:45	2.203	328.4	17.39	25.32	29.12	0
9/1/22 18:00	2.995	309	11.65	25.13	29.11	0
9/1/22 18:15	4.421	277.4	5.79	24.44	29.11	0
9/1/22 18:30	3.635	292.5	6.943	23.83	29.1	0
9/1/22 18:45	3.19	281.7	11.55	23.28	29.1	0
9/1/22 19:00	3.512	285	9.54	22.58	29.1	0
9/1/22 19:15	2.567	304.3	10.98	22.46	29.1	0
9/1/22 19:30	3.072	1.626	8.91	22.15	29.1	0
9/1/22 19:45	3.606	6.73	7.473	21.74	29.1	0
9/1/22 20:00	3.435	1.607	11.77	21.08	29.1	0
9/1/22 20:15	2.571	356.9	11.99	20.76	29.1	0
9/1/22 20:30	2.724	14.78	13.66	20.46	29.11	0
9/1/22 20:45	3.06	11.77	3.633	19.74	29.1	0
9/1/22 21:00	4.081	7.992	8.59	19.83	29.1	0
9/1/22 21:15	6.188	21.6	6.517	19.16	29.1	0
9/1/22 21:30	6.141	20.56	9.18	18.84	29.09	0
9/1/22 21:45	7.599	19.61	8.04	18.91	29.09	0
9/1/22 22:00	8.5	17.74	7.035	18.67	29.09	0
9/1/22 22:15	8.36	19.33	8.06	18.43	29.08	0
9/1/22 22:30	8.74	18.02	8.88	18.13	29.08	0
9/1/22 22:45	8.11	16.56	10.58	18.05	29.09	0
9/1/22 23:00	6.986	19.99	6.637	17.69	29.08	0
9/1/22 23:15	6.375	18.29	7.054	17.3	29.08	0
9/1/22 23:30	6.209	24.23	6.458	17.18	29.08	0
9/1/22 23:45	6.763	19.94	7.863	16.9	29.08	0
9/2/22 0:00	6.718	25.18	8.39	16.82	29.08	0
9/2/22 0:15	6.234	24.31	7.488	16.56	29.08	0
9/2/22 0:30	5.786	15.98	7.468	16.29	29.08	0
9/2/22 0:45	4.994	16.47	4.46	16.23	29.07	0
9/2/22 1:00	4.584	12.68	7.2	16.12	29.07	0
9/2/22 1:15	5.506	24.8	7.878	16.02	29.07	0
9/2/22 1:30	5.095	35.72	7.671	15.56	29.07	0
9/2/22 1:45	4.169	2.759	21.18	15.43	29.07	0
9/2/22 2:00	2.293	253.3	25.32	15.98	29.08	0
9/2/22 2:15	1.709	191	16.24	15.59	29.08	0
9/2/22 2:30	2.422	228.9	17.93	15.45	29.09	0
9/2/22 2:45	5.531	212.5	5.253	15.22	29.09	0
9/2/22 3:00	2.979	167.7	27.78	14.79	29.09	0
9/2/22 3:15	4.048	79.34	11.43	14.47	29.09	0
9/2/22 3:30	4.952	87.8	9.95	14.7	29.08	0
9/2/22 3:45	4.027	78.82	10.59	14.92	29.08	0
9/2/22 4:00	3.388	47.19	24.07	14.71	29.08	0
9/2/22 4:15	4.15	9.26	7.678	14.52	29.08	0
9/2/22 4:30	3.382	297.5	44.75	14.35	29.08	0
9/2/22 4:45	3.139	265.5	17.51	14.29	29.08	0
9/2/22 5:00	2.578	316.1	27.28	14.36	29.08	0
9/2/22 5:15	1.512	320.8	14.81	14.24	29.08	0
9/2/22 5:30	1.134	349.9	13.7	14.15	29.08	0
9/2/22 5:45	1.788	33.83	10.17	14.22	29.08	0
9/2/22 6:00	1.023	26.27	2.715	14.17	29.08	0
9/2/22 6:15	2.353	13.28	12.21	14.15	29.08	0
9/2/22 6:30	2.307	20.79	11.39	14.22	29.08	0
9/2/22 6:45	2.318	11.93	9.92	14.23	29.08	0
9/2/22 7:00	1.372	29.22	27.32	14.33	29.08	0
9/2/22 7:15	1.621	13.76	17.32	14.31	29.07	0
9/2/22 7:30	0.442	23.12	17.18	14.67	29.07	0
9/2/22 7:45	1.125	334.2	63.96	14.84	29.07	0
9/2/22 8:00	1.16	324.1	16.38	15.14	29.07	0
9/2/22 8:15	1.351	227.9	59.97	15.31	29.07	0
9/2/22 8:30	1.783	41.03	16.72	15.35	29.07	0
9/2/22 8:45	2.111	70.82	24.8	15.66	29.07	0
9/2/22 9:00	1.53	81.1	34.16	15.81	29.06	0
9/2/22 9:15	2.34	210.4	37.75	15.91	29.06	0
9/2/22 9:30	4.692	210.4	14.97	16.23	29.06	0
9/2/22 9:45	3.698	237.3	21.12	16.74	29.06	0
9/2/22 10:00	3.465	277	18.08	18.39	29.06	0
9/2/22 10:15	2.127	287.5	61.54	19.64	29.06	0
9/2/22 10:30	3.452	257.1	43.32	20.65	29.05	0
9/2/22 10:45	2.94	262.4	29.64	21.31	29.05	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
9/2/22 11:00	3.655	275.5	32.32	21.64	29.05	0
9/2/22 11:15	3.076	313.9	48.77	22.42	29.04	0
9/2/22 11:30	4.563	246.1	18.34	23.05	29.04	0
9/2/22 11:45	7.045	253.3	18.84	23.3	29.04	0
9/2/22 12:00	6.587	267.7	16.15	23.65	29.04	0
9/2/22 12:15	4.857	266.4	29.75	23.76	29.04	0
9/2/22 12:30	4.921	270.8	28.73	24.25	29.04	0
9/2/22 12:45	3.946	247.9	38.19	24.87	29.03	0
9/2/22 13:00	4.514	250.6	36.6	25.2	29.03	0
9/2/22 13:15	5.533	242.2	22.8	25.29	29.03	0
9/2/22 13:30	4.716	264.4	30.79	25.94	29.03	0
9/2/22 13:45	4.968	254.4	16.66	26.21	29.02	0
9/2/22 14:00	4.888	264.2	19.76	26.42	29.02	0
9/2/22 14:15	4.759	264.4	17.76	26.67	29.02	0
9/2/22 14:30	5.39	248.9	26.69	26.91	29.01	0
9/2/22 14:45	4.662	241.1	37.52	27.11	29.01	0
9/2/22 15:00	5.31	235.7	22.02	27.23	29.01	0
9/2/22 15:15	6.511	257.9	15.26	27.13	29.01	0
9/2/22 15:30	7.038	243.7	14.62	27.19	29.01	0
9/2/22 15:45	5.951	251.3	12.15	26.95	29.01	0
9/2/22 16:00	4.646	250.1	25.61	27.15	29.01	0
9/2/22 16:15	5.383	245.3	18.25	27.42	29.01	0
9/2/22 16:30	5.699	240.9	11.38	27.35	29.02	0
9/2/22 16:45	6.321	256.3	12.91	26.93	29.02	0
9/2/22 17:00	6.65	260	13.03	26.45	29.02	0
9/2/22 17:15	7.599	264.2	9.19	25.91	29.02	0
9/2/22 17:30	6.582	262.9	9.09	25.6	29.02	0
9/2/22 17:45	5.083	257.3	9.65	25.32	29.02	0
9/2/22 18:00	4.374	244.2	7.138	25.04	29.02	0
9/2/22 18:15	3.722	239.7	4.532	24.85	29.03	0
9/2/22 18:30	3.025	234.1	5.312	24.75	29.03	0
9/2/22 18:45	3.265	235.7	4.252	24.61	29.03	0
9/2/22 19:00	1.288	215.9	6.991	24.37	29.04	0
9/2/22 19:15	1.337	88.1	21.27	23.62	29.04	0
9/2/22 19:30	1.079	87.9	0.56	23.07	29.05	0
9/2/22 19:45	0.993	220.5	11.24	23.31	29.05	0
9/2/22 20:00	6.991	237	8.84	23	29.06	0
9/2/22 20:15	10.06	244.3	5.64	21.74	29.07	0
9/2/22 20:30	9.25	235.1	10.54	20.87	29.08	0
9/2/22 20:45	6.391	234.9	6.859	19.97	29.1	0
9/2/22 21:00	5.754	250.7	9.09	19.22	29.11	0
9/2/22 21:15	3.516	222.1	27.8	18.82	29.11	0
9/2/22 21:30	7.632	197.8	10.91	18.29	29.12	0
9/2/22 21:45	7.477	228.5	12.24	17.83	29.13	0
9/2/22 22:00	5.728	246	7.838	17.28	29.14	0
9/2/22 22:15	7.503	251.7	6.886	16.63	29.14	0
9/2/22 22:30	7.686	243	5.843	16.04	29.15	0
9/2/22 22:45	6.219	257.1	11.31	15.46	29.15	0
9/2/22 23:00	3.513	264.2	14.55	14.97	29.15	0
9/2/22 23:15	2.61	218.1	22.2	14.97	29.15	0
9/2/22 23:30	4.592	203	10.85	14.99	29.15	0
9/2/22 23:45	2.747	195.5	11.58	14.72	29.15	0
9/3/22 0:00	3.565	165.4	32.32	14.49	29.15	0
9/3/22 0:15	2.941	149.3	17.92	14.05	29.15	0
9/3/22 0:30	5.761	182.4	7.024	14.27	29.16	0
9/3/22 0:45	5.73	170.2	10.59	14.19	29.16	0
9/3/22 1:00	4.56	161.4	11.71	13.69	29.17	0
9/3/22 1:15	4.669	161.9	12.67	13.51	29.17	0
9/3/22 1:30	6.446	174	6.358	13.69	29.17	0
9/3/22 1:45	6.844	170.8	11.75	13.7	29.18	0
9/3/22 2:00	6.196	137.9	5.798	13.5	29.18	0
9/3/22 2:15	6.667	142.1	6.317	13.56	29.19	0
9/3/22 2:30	6.051	142.5	8.07	13.66	29.2	0
9/3/22 2:45	5.735	141.9	6.855	13.68	29.2	0
9/3/22 3:00	5.71	140.3	8.45	13.62	29.2	0
9/3/22 3:15	6.852	146.5	7.886	13.63	29.21	0
9/3/22 3:30	5.978	142	8.9	13.61	29.21	0
9/3/22 3:45	5.318	119.3	8.08	13.57	29.21	0
9/3/22 4:00	5.021	113.9	8.6	13.59	29.21	0
9/3/22 4:15	3.857	104.6	12.67	13.56	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/3/22 4:30	4.836	102.7	10.76	13.56	29.21	0
9/3/22 4:45	3.173	83.1	22.67	13.53	29.22	0
9/3/22 5:00	3.641	77.04	23.91	13.44	29.21	0
9/3/22 5:15	6.719	118.2	8.15	13.39	29.22	0
9/3/22 5:30	6.968	121.7	9.33	13.31	29.22	0
9/3/22 5:45	7.356	119.6	9.24	13.24	29.22	0
9/3/22 6:00	6.728	124.6	9.13	13.32	29.22	0
9/3/22 6:15	7.056	128.7	9.4	13.4	29.22	0
9/3/22 6:30	6.803	123.9	9.47	13.47	29.22	0
9/3/22 6:45	7.493	137.3	8.08	13.7	29.23	0
9/3/22 7:00	8.22	141.1	7.785	13.91	29.23	0
9/3/22 7:15	7.93	144.7	7.753	14.02	29.23	0
9/3/22 7:30	7.127	137.5	8.56	14.19	29.24	0
9/3/22 7:45	6.955	143.6	10.46	14.27	29.24	0
9/3/22 8:00	7.927	138.8	9.65	14.29	29.25	0
9/3/22 8:15	7.304	144.2	10.86	14.48	29.25	0
9/3/22 8:30	8.21	146.8	8.81	14.67	29.26	0
9/3/22 8:45	8.62	143.9	10.47	14.86	29.26	0
9/3/22 9:00	8.66	142.7	9.21	14.77	29.27	0
9/3/22 9:15	8.35	149.5	11.9	14.9	29.27	0
9/3/22 9:30	7.763	163.6	12.56	14.85	29.27	0
9/3/22 9:45	7.179	166.8	12.9	14.96	29.28	0.01
9/3/22 10:00	7.761	169	13.7	15.06	29.28	0
9/3/22 10:15	7.504	182	11	14.99	29.28	0.02
9/3/22 10:30	7.243	179.1	12.38	15.19	29.28	0
9/3/22 10:45	6.03	172	9.62	15.44	29.28	0
9/3/22 11:00	4.892	173.9	13.59	15.77	29.28	0
9/3/22 11:15	4.301	179.1	15.3	15.97	29.28	0
9/3/22 11:30	4.242	173.1	19.62	16.41	29.28	0
9/3/22 11:45	4.896	177.9	13.26	16.71	29.27	0
9/3/22 12:00	5.137	181	13.5	16.75	29.27	0
9/3/22 12:15	4.522	125.6	11.82	16.92	29.28	0
9/3/22 12:30	3.887	111.1	23.57	17.69	29.28	0
9/3/22 12:45	4.919	180.8	15.97	17.67	29.28	0
9/3/22 13:00	3.545	202.6	22.41	17.47	29.28	0
9/3/22 13:15	2.414	184.3	33.82	17.75	29.28	0
9/3/22 13:30	3.27	229.2	15.41	17.78	29.28	0
9/3/22 13:45	1.908	239.9	14.92	17.97	29.28	0
9/3/22 14:00	2.668	228.5	28.69	18.31	29.29	0
9/3/22 14:15	2.949	187.4	28.72	18.4	29.28	0
9/3/22 14:30	3.131	206.9	48.62	18.97	29.28	0
9/3/22 14:45	3.04	145.1	31.85	19.58	29.28	0
9/3/22 15:00	5.434	169.1	38.71	19.89	29.28	0
9/3/22 15:15	2.347	185.8	56.46	19.65	29.28	0
9/3/22 15:30	2.956	84.1	96.5	19.91	29.28	0
9/3/22 15:45	2.332	139.6	58.28	20.17	29.28	0
9/3/22 16:00	4.268	102.2	37.44	20.21	29.28	0
9/3/22 16:15	3.708	175.3	44.93	20.78	29.28	0
9/3/22 16:30	2.552	175.7	48.07	20.66	29.28	0
9/3/22 16:45	3.194	108	35.39	20.54	29.27	0
9/3/22 17:00	4.039	85.1	17.9	20.53	29.28	0
9/3/22 17:15	4.726	66.97	14.18	20.44	29.28	0
9/3/22 17:30	5.529	78.76	11.88	20.2	29.27	0
9/3/22 17:45	4.482	90.7	9.83	20.11	29.27	0
9/3/22 18:00	4.258	92.9	10.25	20.03	29.27	0
9/3/22 18:15	4.781	96.5	7.616	19.93	29.27	0
9/3/22 18:30	4.675	102.3	6.93	19.73	29.27	0
9/3/22 18:45	4.646	90.1	5.022	19.42	29.27	0
9/3/22 19:00	3.449	37.13	24.61	18.86	29.26	0
9/3/22 19:15	3.064	55.78	14.62	17.97	29.27	0
9/3/22 19:30	3.818	32.47	15.86	18.1	29.27	0
9/3/22 19:45	4.981	27.97	5.623	17.44	29.27	0
9/3/22 20:00	4.956	30.29	7.441	17.48	29.27	0
9/3/22 20:15	4.295	40.8	6.528	17.33	29.27	0
9/3/22 20:30	3.203	32.48	4.737	17.06	29.27	0
9/3/22 20:45	2.299	49.92	17.47	17.25	29.27	0
9/3/22 21:00	2.808	114.1	20.2	16.66	29.26	0
9/3/22 21:15	3.454	145.2	31.12	16.56	29.26	0
9/3/22 21:30	2.875	174	17.77	17.17	29.26	0
9/3/22 21:45	4.962	232.1	26.21	16.18	29.27	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
9/3/22 22:00	5.45	239.5	15.84	15.55	29.27	0
9/3/22 22:15	4.442	212.6	27.67	16.01	29.27	0
9/3/22 22:30	2.968	83.7	23.54	15.43	29.27	0
9/3/22 22:45	3.251	99.3	9.76	14.76	29.27	0
9/3/22 23:00	4.348	101.8	5.888	15.14	29.27	0
9/3/22 23:15	4.033	119.6	12.15	15.2	29.27	0
9/3/22 23:30	5.246	137	5.766	15.24	29.27	0
9/3/22 23:45	5.535	125.2	6.283	15.17	29.26	0
9/4/22 0:00	5.509	115.9	7.592	15.34	29.26	0
9/4/22 0:15	6.414	123.4	6.686	15.29	29.25	0
9/4/22 0:30	6.627	129.2	6.27	15.53	29.25	0
9/4/22 0:45	6.127	133	4.694	15.51	29.25	0
9/4/22 1:00	5.006	136.1	4.808	15.42	29.25	0
9/4/22 1:15	3.949	154.6	9.25	15.17	29.25	0
9/4/22 1:30	3.976	161.6	8.93	14.83	29.25	0
9/4/22 1:45	4.859	177	9.29	14.67	29.25	0
9/4/22 2:00	4.07	161.5	7.825	14.62	29.25	0
9/4/22 2:15	2.151	123.7	15.89	14.29	29.25	0
9/4/22 2:30	1.371	66.7	7.479	14.09	29.25	0
9/4/22 2:45	2.535	94.6	11.99	13.84	29.26	0
9/4/22 3:00	3.575	127.2	9.89	14.31	29.26	0
9/4/22 3:15	3.546	121.6	5.05	14.41	29.26	0
9/4/22 3:30	5.026	127.4	7.349	14.59	29.26	0
9/4/22 3:45	4.793	130.8	5.876	14.72	29.25	0
9/4/22 4:00	5.156	129.7	4.169	14.42	29.25	0
9/4/22 4:15	5.059	124.6	3.574	14.33	29.25	0
9/4/22 4:30	5.344	137.4	6.762	14.36	29.25	0
9/4/22 4:45	6.354	141.2	4.849	14.63	29.25	0
9/4/22 5:00	6.094	138.6	5.617	14.15	29.24	0
9/4/22 5:15	5.936	143.9	6.158	14.25	29.24	0
9/4/22 5:30	5.572	156.4	11	14.23	29.24	0
9/4/22 5:45	6.471	185.1	8.91	13.22	29.24	0
9/4/22 6:00	7.62	191.9	6.839	13.03	29.24	0
9/4/22 6:15	6.344	184.3	11.99	13.48	29.25	0
9/4/22 6:30	5.981	160.9	7.292	14.14	29.25	0
9/4/22 6:45	4.796	159.8	8.07	14.34	29.25	0
9/4/22 7:00	4.178	150.4	7.551	14.52	29.26	0
9/4/22 7:15	2.982	144.3	17.01	15.46	29.26	0
9/4/22 7:30	3.371	176	20.58	15.17	29.26	0
9/4/22 7:45	4.697	185.7	10.81	14.93	29.25	0
9/4/22 8:00	5.325	164.7	10.81	16.26	29.25	0
9/4/22 8:15	5.882	179.4	11.69	17.02	29.25	0
9/4/22 8:30	6.203	184.4	14.7	17.38	29.26	0
9/4/22 8:45	5.528	157.9	16.03	18.23	29.25	0
9/4/22 9:00	5.448	160.7	19.05	18.8	29.25	0
9/4/22 9:15	4.368	179.7	29.39	19.54	29.25	0
9/4/22 9:30	4.37	183.8	17.29	19.89	29.25	0
9/4/22 9:45	4.995	181.5	24.11	20.45	29.25	0
9/4/22 10:00	5.408	174.7	33.2	20.83	29.25	0
9/4/22 10:15	7.409	184.5	18.96	21.85	29.25	0
9/4/22 10:30	7.362	162.6	22.27	22.2	29.24	0
9/4/22 10:45	9.06	190.2	16.5	22.2	29.24	0
9/4/22 11:00	6.873	176.5	28.09	22.44	29.24	0
9/4/22 11:15	9.73	211.8	17.57	22.36	29.24	0
9/4/22 11:30	8.4	227.2	15.49	22.07	29.24	0
9/4/22 11:45	8.45	217.6	11.95	22.14	29.24	0
9/4/22 12:00	8.46	235.4	12.94	21.91	29.24	0
9/4/22 12:15	8.92	267.2	8.49	21.5	29.24	0
9/4/22 12:30	10.11	258.9	8.43	21.28	29.24	0
9/4/22 12:45	6.464	268.2	23.31	21.81	29.23	0
9/4/22 13:00	3.336	211.9	50.67	22.38	29.23	0
9/4/22 13:15	6.626	197.8	24	23.05	29.23	0
9/4/22 13:30	8.84	218.5	28.5	23.63	29.23	0
9/4/22 13:45	9.4	247.2	12.9	23.14	29.22	0
9/4/22 14:00	6.217	253.9	14.78	22.81	29.22	0
9/4/22 14:15	5.256	263.2	22.53	22.88	29.23	0
9/4/22 14:30	7.593	271.4	13.15	22.43	29.23	0
9/4/22 14:45	6.786	263.1	16.55	22.04	29.23	0
9/4/22 15:00	7.898	255.3	12.8	21.91	29.23	0
9/4/22 15:15	8	242.3	13.53	21.68	29.23	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
9/4/22 15:30	7.631	230.1	13.04	21.72	29.23	0
9/4/22 15:45	5.205	254.8	22.85	21.83	29.23	0
9/4/22 16:00	6.349	247	17.93	21.69	29.23	0
9/4/22 16:15	3.904	251	37.21	21.35	29.23	0
9/4/22 16:30	9.06	242.7	13.62	21.67	29.23	0
9/4/22 16:45	11.29	229.5	9.4	21.29	29.23	0
9/4/22 17:00	8.99	221.5	15.22	20.92	29.23	0
9/4/22 17:15	7.724	239.7	10.35	20.6	29.23	0
9/4/22 17:30	7.02	220.1	17.69	20.26	29.23	0
9/4/22 17:45	6.444	208.7	11.8	20.13	29.23	0
9/4/22 18:00	6.693	221.1	14.61	19.99	29.23	0
9/4/22 18:15	8.76	234.8	8.4	19.74	29.23	0
9/4/22 18:30	8.76	235.9	8.37	19.42	29.23	0
9/4/22 18:45	8.27	234.6	13.3	19.15	29.23	0
9/4/22 19:00	6.389	209.2	9.93	19.11	29.23	0
9/4/22 19:15	7.065	213.3	9.29	19.15	29.24	0
9/4/22 19:30	5.707	223.1	6.738	19.08	29.24	0
9/4/22 19:45	3.352	234.4	9.08	18.97	29.24	0
9/4/22 20:00	6.066	254.2	13	18.68	29.25	0.01
9/4/22 20:15	7.796	255	8.9	17.42	29.25	0.01
9/4/22 20:30	6.609	243	8.06	16.99	29.25	0
9/4/22 20:45	4.123	247.9	6.731	16.85	29.26	0
9/4/22 21:00	5.169	233.5	10.96	16.96	29.26	0
9/4/22 21:15	5.769	228.6	8.11	16.96	29.26	0
9/4/22 21:30	4.848	229.8	11.33	16.75	29.26	0
9/4/22 21:45	3.338	255.1	39.96	16.53	29.26	0
9/4/22 22:00	4.46	12.57	7.831	15.37	29.27	0
9/4/22 22:15	6.281	12.31	12.63	14.69	29.27	0
9/4/22 22:30	8.56	16.75	10.18	14.56	29.27	0
9/4/22 22:45	10.66	17.43	9.62	14.47	29.28	0
9/4/22 23:00	9.58	14.14	9.74	14.48	29.28	0
9/4/22 23:15	8.97	12.03	10.68	14.26	29.28	0
9/4/22 23:30	8.73	8.75	12.29	14.2	29.28	0
9/4/22 23:45	9.09	5.3	14.75	14.17	29.29	0
9/5/22 0:00	12.35	14.49	16.07	13.55	29.29	0
9/5/22 0:15	11.77	14.99	12.34	12.89	29.29	0
9/5/22 0:30	8.92	15.25	11.75	13.17	29.29	0
9/5/22 0:45	6.151	33.74	11.79	13.42	29.29	0
9/5/22 1:00	7.829	29.31	13.01	13.8	29.29	0
9/5/22 1:15	8.59	18.71	19.2	13.94	29.29	0
9/5/22 1:30	6.224	10.32	20.97	14.03	29.3	0
9/5/22 1:45	7.226	1.924	19.63	14.23	29.3	0
9/5/22 2:00	8.11	10.1	13.85	14.18	29.3	0
9/5/22 2:15	4.583	25.03	40.58	14.23	29.3	0
9/5/22 2:30	2.969	92	65.27	14.04	29.3	0
9/5/22 2:45	2.991	118.8	50.47	14.15	29.3	0
9/5/22 3:00	1.124	238.8	63.62	14.32	29.31	0
9/5/22 3:15	2.429	274.3	27.28	14.73	29.32	0
9/5/22 3:30	2.801	243.3	44.39	13.86	29.33	0
9/5/22 3:45	1.992	285	90.9	13.87	29.33	0
9/5/22 4:00	1.115	37.01	14.01	13.25	29.32	0
9/5/22 4:15	2.326	143.1	45.77	12.96	29.32	0
9/5/22 4:30	3.722	198.4	5.034	12.92	29.32	0
9/5/22 4:45	5.222	205.3	22.06	13.09	29.33	0
9/5/22 5:00	2.88	173.9	27.94	12.89	29.32	0
9/5/22 5:15	1.84	260.2	51.28	13.84	29.33	0
9/5/22 5:30	2.841	317.7	34.7	14.45	29.34	0
9/5/22 5:45	3.682	1.943	24.5	14.26	29.34	0
9/5/22 6:00	3.478	32.59	20.04	12.36	29.35	0
9/5/22 6:15	4.499	21.28	12.75	12.98	29.35	0
9/5/22 6:30	2.096	336.2	63.12	13.76	29.35	0
9/5/22 6:45	2.289	230	25.24	13.26	29.35	0
9/5/22 7:00	3.607	226.4	17.42	13.2	29.36	0
9/5/22 7:15	3.901	349	31.11	13.97	29.37	0
9/5/22 7:30	6.349	21.46	14.63	14.44	29.37	0
9/5/22 7:45	3.698	13.47	14.41	15.12	29.37	0
9/5/22 8:00	8.38	354	28.52	15.22	29.38	0
9/5/22 8:15	9.09	11.01	16.22	15.38	29.38	0
9/5/22 8:30	9.29	4.109	17.95	15.5	29.38	0
9/5/22 8:45	8.82	13.38	17.47	15.65	29.38	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
9/5/22 9:00	7.095	22.97	15.59	15.77	29.39	0
9/5/22 9:15	9.34	32.39	14.69	16.54	29.39	0
9/5/22 9:30	9.35	26.41	20.81	16.74	29.39	0
9/5/22 9:45	9.73	27.77	15.59	16.94	29.39	0
9/5/22 10:00	9.44	25.62	17.58	17.31	29.38	0
9/5/22 10:15	10.24	14.49	20.25	17.74	29.38	0
9/5/22 10:30	12.31	3.346	15.33	17.78	29.38	0
9/5/22 10:45	11.15	3.94	13.62	18.18	29.37	0
9/5/22 11:00	10.12	3.061	14.4	18.45	29.37	0
9/5/22 11:15	9.19	13.67	14.52	18.73	29.37	0
9/5/22 11:30	8.91	12.69	16.98	19.18	29.37	0
9/5/22 11:45	8.72	21.93	20.54	19.27	29.37	0
9/5/22 12:00	9.39	35.79	12.7	19.83	29.37	0
9/5/22 12:15	7.047	42.41	19.49	19.58	29.37	0
9/5/22 12:30	8.66	13.79	22.15	20.3	29.37	0
9/5/22 12:45	8.67	21.33	21.63	20.21	29.36	0
9/5/22 13:00	7.71	25.83	15.06	20.02	29.36	0
9/5/22 13:15	8.16	20.64	16.46	20.61	29.36	0
9/5/22 13:30	6.822	352.7	37.99	21.11	29.36	0
9/5/22 13:45	8.57	5.545	19.06	21.19	29.35	0
9/5/22 14:00	8.78	3.529	24.7	21.32	29.35	0
9/5/22 14:15	10.04	19.23	12.04	21.33	29.34	0
9/5/22 14:30	10.19	19.19	15.71	21.39	29.33	0
9/5/22 14:45	8.87	8.38	19.16	21.67	29.33	0
9/5/22 15:00	9.72	358.5	26.08	21.48	29.32	0
9/5/22 15:15	9.33	349.3	16.14	21.69	29.32	0
9/5/22 15:30	8.77	349.9	25.85	21.84	29.32	0
9/5/22 15:45	10.46	329.5	15.6	21.9	29.31	0
9/5/22 16:00	10.73	316.5	16.11	21.95	29.31	0
9/5/22 16:15	9.75	335.1	22.65	21.8	29.31	0
9/5/22 16:30	9.36	326.4	19.7	21.74	29.3	0
9/5/22 16:45	10.46	311.2	14.4	21.72	29.3	0
9/5/22 17:00	11.71	323	21.92	21.26	29.29	0
9/5/22 17:15	11.39	321.9	18.21	21.03	29.29	0
9/5/22 17:30	11.93	320.7	13.96	20.6	29.28	0
9/5/22 17:45	8.97	309.5	14.93	20.39	29.28	0
9/5/22 18:00	6.159	297	16.4	20.2	29.28	0
9/5/22 18:15	5.705	283.3	15.81	19.92	29.28	0
9/5/22 18:30	4.129	311.8	30.33	19.54	29.28	0
9/5/22 18:45	4.236	346.5	24.68	19	29.28	0
9/5/22 19:00	5.309	4.968	21.43	18.49	29.28	0
9/5/22 19:15	4.135	2.474	27.22	18.35	29.28	0
9/5/22 19:30	4.815	28.93	13.97	17.76	29.28	0
9/5/22 19:45	5.863	16.67	24.05	17.68	29.28	0
9/5/22 20:00	6.089	356.7	14.9	17.56	29.28	0
9/5/22 20:15	6.462	356.9	28.28	17.55	29.28	0
9/5/22 20:30	7.848	359.6	15.5	17.43	29.28	0
9/5/22 20:45	7.005	2.275	16.62	17.19	29.27	0
9/5/22 21:00	7.414	1.172	16.88	16.92	29.27	0
9/5/22 21:15	7.779	355.8	15.74	16.72	29.26	0
9/5/22 21:30	8.66	357.4	13.78	16.84	29.26	0
9/5/22 21:45	6.248	12.03	17.9	16.53	29.27	0
9/5/22 22:00	6.72	3.321	17.22	16.25	29.26	0
9/5/22 22:15	8.13	347.7	12.33	16.05	29.26	0
9/5/22 22:30	6.715	336.8	11.09	15.36	29.26	0
9/5/22 22:45	5.517	359.7	13.15	14.55	29.26	0
9/5/22 23:00	6.898	3.955	11.8	14.02	29.26	0
9/5/22 23:15	7.574	1.101	11.55	14.4	29.26	0
9/5/22 23:30	9.88	5.096	12.41	14.43	29.25	0
9/5/22 23:45	11.46	6.635	10.06	14.83	29.25	0
9/6/22 0:00	10.31	11.75	10.49	14.61	29.24	0
9/6/22 0:15	8.12	24.14	8.28	13.74	29.24	0
9/6/22 0:30	8.08	24.71	7.79	13.19	29.24	0
9/6/22 0:45	6.964	25.08	9.43	12.95	29.24	0
9/6/22 1:00	6.827	21.93	7.326	12.82	29.24	0
9/6/22 1:15	6.59	15.86	6.884	12.53	29.24	0
9/6/22 1:30	6.182	11.12	9.12	12.27	29.23	0
9/6/22 1:45	5.546	10.03	8.39	12.17	29.23	0
9/6/22 2:00	4.734	22.09	9.84	12.02	29.23	0
9/6/22 2:15	5.277	22.42	7.464	11.57	29.23	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
9/6/22 2:30	4.954	20.82	6.458	11.7	29.23	0
9/6/22 2:45	4.368	13.32	6.228	11.81	29.23	0
9/6/22 3:00	3.478	33.91	11.2	11.78	29.23	0
9/6/22 3:15	4.208	28.84	9.86	11.71	29.22	0
9/6/22 3:30	3.064	21.49	7.828	11.46	29.23	0
9/6/22 3:45	2.687	56.29	15.72	11.13	29.23	0
9/6/22 4:00	2.665	42.21	14.82	11.21	29.23	0
9/6/22 4:15	3.901	7.02	6.812	11.52	29.23	0
9/6/22 4:30	3.947	14.7	7.908	11.42	29.23	0
9/6/22 4:45	4.362	19.4	7.879	11.58	29.22	0
9/6/22 5:00	4.06	20.62	6.138	11.15	29.22	0
9/6/22 5:15	3.851	12.81	7.706	10.86	29.22	0
9/6/22 5:30	4.481	14.79	6.754	10.63	29.22	0
9/6/22 5:45	3.93	7.88	12.8	10.82	29.22	0
9/6/22 6:00	3.808	355.2	16.25	11.05	29.22	0
9/6/22 6:15	3.519	29.9	15.71	11.03	29.23	0
9/6/22 6:30	2.923	18.77	15.13	11.12	29.23	0
9/6/22 6:45	3.133	6.306	6.9	11.46	29.23	0
9/6/22 7:00	3.008	359.9	10.27	12.57	29.23	0
9/6/22 7:15	2.423	10.13	18.69	13.15	29.23	0
9/6/22 7:30	2.8	51.43	20.51	13.39	29.23	0
9/6/22 7:45	2.837	50.12	16.81	13.45	29.23	0
9/6/22 8:00	2.445	35.88	15.94	13.67	29.23	0
9/6/22 8:15	1.844	55.63	19.38	15.03	29.23	0
9/6/22 8:30	1.853	36.89	25.19	16.05	29.23	0
9/6/22 8:45	2.964	45.27	19.15	16.26	29.23	0
9/6/22 9:00	2.856	45.66	19.08	16.5	29.23	0
9/6/22 9:15	2.568	29.09	21.11	16.95	29.23	0
9/6/22 9:30	2.45	165.6	83.9	17.92	29.23	0
9/6/22 9:45	2.124	216.9	71.08	18.67	29.23	0
9/6/22 10:00	1.758	315.6	53.4	19.31	29.23	0
9/6/22 10:15	3.893	16.69	20.14	19.96	29.23	0
9/6/22 10:30	3.074	9.92	24.53	20.09	29.22	0
9/6/22 10:45	4.531	14.72	28.73	20.63	29.22	0
9/6/22 11:00	6.604	17.26	14.31	21.01	29.21	0
9/6/22 11:15	6.551	12.76	12.79	21.36	29.21	0
9/6/22 11:30	5.595	36.38	17.57	22.16	29.2	0
9/6/22 11:45	5.206	27.24	16.85	22.5	29.2	0
9/6/22 12:00	5.641	17.74	20.17	22.74	29.19	0
9/6/22 12:15	4.559	34.85	18.66	23.66	29.19	0
9/6/22 12:30	5.801	343.5	49.61	24.07	29.18	0
9/6/22 12:45	6.703	271.3	18.28	24.15	29.18	0
9/6/22 13:00	5.565	269.6	26.49	24.3	29.18	0
9/6/22 13:15	5.792	280	18.53	24.78	29.18	0
9/6/22 13:30	4.706	304.1	23.83	25.36	29.18	0
9/6/22 13:45	5.977	354.3	34.66	25.44	29.17	0
9/6/22 14:00	8.85	23.46	12.31	25.24	29.17	0
9/6/22 14:15	8.48	22.38	11.75	25.62	29.17	0
9/6/22 14:30	10.13	17.5	9.61	25.67	29.17	0
9/6/22 14:45	8.94	19.64	10.18	25.59	29.17	0
9/6/22 15:00	7.598	352.1	24.86	26	29.17	0
9/6/22 15:15	6.816	1.064	19.37	26.24	29.17	0
9/6/22 15:30	9.41	13.11	10.59	25.76	29.17	0
9/6/22 15:45	8.04	12.64	14.99	25.94	29.17	0
9/6/22 16:00	7.09	9.68	16.04	25.96	29.17	0
9/6/22 16:15	7.364	6.883	13.63	25.82	29.16	0
9/6/22 16:30	6.826	6.032	16.96	25.73	29.16	0
9/6/22 16:45	7.823	357	13.03	25.54	29.16	0
9/6/22 17:00	5.566	332.5	27.47	25.62	29.16	0
9/6/22 17:15	5.857	313.2	18.64	25.5	29.16	0
9/6/22 17:30	6.365	300.1	12.35	25.13	29.16	0
9/6/22 17:45	5.758	316.5	16.49	24.7	29.16	0
9/6/22 18:00	4.873	308.6	17.41	24.37	29.16	0
9/6/22 18:15	4.813	304.7	10.47	23.78	29.16	0
9/6/22 18:30	5.928	309.9	8.37	22.9	29.16	0
9/6/22 18:45	5.214	335.7	16.58	22.2	29.16	0
9/6/22 19:00	5.233	8.08	12.58	21.57	29.17	0
9/6/22 19:15	7.395	2.056	15.59	21.67	29.17	0
9/6/22 19:30	7.835	353.9	16.37	21.32	29.17	0
9/6/22 19:45	6.897	2.523	12.87	21.17	29.18	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
9/6/22 20:00	3.178	354	21.57	20.7	29.18	0
9/6/22 20:15	5.389	11.24	16.78	19.9	29.18	0
9/6/22 20:30	10.47	13.96	5.846	19.6	29.18	0
9/6/22 20:45	8.42	10.24	6.214	19.42	29.18	0
9/6/22 21:00	7.647	21.14	8.07	18.86	29.18	0
9/6/22 21:15	4.979	31.69	8.73	18.1	29.19	0
9/6/22 21:30	9.05	19.11	8.07	17.77	29.19	0
9/6/22 21:45	7.925	17.94	8.04	17.18	29.19	0
9/6/22 22:00	9.42	19.64	8.16	17.19	29.2	0
9/6/22 22:15	11.73	21.11	7.766	17.44	29.19	0
9/6/22 22:30	11.35	21.62	10.1	17.43	29.19	0
9/6/22 22:45	11.99	22.15	11.34	17.46	29.18	0
9/6/22 23:00	10.99	20.47	9.84	17.14	29.19	0
9/6/22 23:15	11.69	16.26	10.84	16.65	29.18	0
9/6/22 23:30	11.26	11.47	9.11	16.87	29.19	0
9/6/22 23:45	8.8	7.742	13.11	16.94	29.19	0
9/7/22 0:00	7.158	14.37	10.83	16.56	29.19	0
9/7/22 0:15	10.49	14.05	11.28	16.43	29.19	0
9/7/22 0:30	9.9	16.44	9.03	16.57	29.19	0
9/7/22 0:45	8.35	13.02	14.09	16.62	29.19	0
9/7/22 1:00	7.697	27.12	7.298	15.91	29.19	0
9/7/22 1:15	9.54	24.12	6.634	15.48	29.19	0
9/7/22 1:30	9.53	14.21	9.92	15.94	29.19	0
9/7/22 1:45	10.04	12.85	9.79	16.59	29.2	0
9/7/22 2:00	8.88	20.62	11.55	16.24	29.2	0
9/7/22 2:15	9.05	22.54	8.11	15.62	29.2	0
9/7/22 2:30	10.13	20.74	8.65	15.81	29.2	0
9/7/22 2:45	9.63	28.4	11.05	15.69	29.21	0
9/7/22 3:00	9.6	20.5	12.72	16.13	29.21	0
9/7/22 3:15	9.98	21.77	11.49	16.22	29.21	0
9/7/22 3:30	11.27	19.94	10.73	16.58	29.22	0
9/7/22 3:45	7.696	15.52	14.38	16.73	29.22	0
9/7/22 4:00	6.882	35.39	16.61	16.72	29.23	0
9/7/22 4:15	6.407	42.69	9.98	16.83	29.23	0
9/7/22 4:30	3.224	75.53	44.53	16.6	29.24	0
9/7/22 4:45	3.507	355.8	51.48	16.65	29.24	0
9/7/22 5:00	7.991	353.5	23.35	18.03	29.25	0
9/7/22 5:15	7.358	19.37	14.85	17.69	29.25	0
9/7/22 5:30	3.016	81.6	45.5	16.38	29.26	0
9/7/22 5:45	4.575	18.15	19.55	16.34	29.26	0
9/7/22 6:00	6.991	10.66	11.98	16.31	29.27	0
9/7/22 6:15	3.927	56.29	31.81	17.16	29.28	0
9/7/22 6:30	4.364	27.61	16.54	17.39	29.28	0
9/7/22 6:45	6.944	12.24	23.8	17.23	29.29	0
9/7/22 7:00	4.851	44.26	26.99	17.34	29.28	0
9/7/22 7:15	2.963	348.3	55.66	16.84	29.28	0
9/7/22 7:30	3.487	335.9	47.44	17.14	29.28	0
9/7/22 7:45	7.974	351.7	22.18	17.36	29.29	0
9/7/22 8:00	9.97	357.7	19.72	17.85	29.29	0
9/7/22 8:15	7.777	0.476	24.14	18.44	29.29	0
9/7/22 8:30	11.68	15.27	13.76	18.58	29.3	0
9/7/22 8:45	8.99	6.415	14.93	18.53	29.31	0
9/7/22 9:00	10.79	7.213	14.44	18.61	29.32	0
9/7/22 9:15	8.93	14.47	15.08	18.53	29.32	0
9/7/22 9:30	8.11	19.64	15.77	19.05	29.33	0
9/7/22 9:45	8.31	18.79	14.75	18.99	29.34	0
9/7/22 10:00	7.24	0.329	18.91	18.83	29.34	0
9/7/22 10:15	7.892	17.5	17.3	19.43	29.34	0
9/7/22 10:30	7.453	19.77	14.65	19.41	29.34	0
9/7/22 10:45	8.65	351.9	25.23	19.73	29.34	0
9/7/22 11:00	6.387	342.8	24.3	20.17	29.34	0
9/7/22 11:15	7.328	357.8	25.56	20.59	29.34	0
9/7/22 11:30	7.769	305	17.45	21.24	29.34	0
9/7/22 11:45	8.16	312.6	24	21.74	29.34	0
9/7/22 12:00	8.96	318.8	15.19	21.87	29.34	0
9/7/22 12:15	7.189	320.7	25.33	21.95	29.34	0
9/7/22 12:30	8.14	311	24.71	22.39	29.34	0
9/7/22 12:45	5.863	352.7	26.41	22.31	29.34	0
9/7/22 13:00	6.526	2.232	30.61	23.17	29.34	0
9/7/22 13:15	7.747	349.7	21.08	23.38	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
9/7/22 13:30	7.652	1.647	21.41	23.39	29.34	0
9/7/22 13:45	9.48	328.2	20.26	23.57	29.35	0
9/7/22 14:00	8.14	328.8	21.93	23.79	29.34	0
9/7/22 14:15	8.58	339.5	22.2	24.03	29.34	0
9/7/22 14:30	10.53	348.2	17.22	24.04	29.34	0
9/7/22 14:45	8.76	331.4	23.36	24.1	29.34	0
9/7/22 15:00	9.71	323.7	19.77	24.04	29.34	0
9/7/22 15:15	10.44	337.7	14.37	23.88	29.34	0
9/7/22 15:30	10.29	352.4	13.69	23.74	29.34	0
9/7/22 15:45	9.37	337.9	27.56	23.91	29.34	0
9/7/22 16:00	7.779	351.2	24.64	23.84	29.34	0
9/7/22 16:15	9.32	342.8	24.39	23.53	29.34	0
9/7/22 16:30	9.07	337.2	19.31	23.48	29.34	0
9/7/22 16:45	8.94	356.4	17.48	23.21	29.34	0
9/7/22 17:00	11.3	346.8	18.69	22.81	29.34	0
9/7/22 17:15	11.12	356.2	15.21	22.32	29.34	0
9/7/22 17:30	8.61	346	21.53	22.18	29.34	0
9/7/22 17:45	7.975	344.9	18.65	21.83	29.34	0
9/7/22 18:00	7.549	324.3	10.2	21.62	29.34	0
9/7/22 18:15	8.43	320.7	10.54	21.11	29.33	0
9/7/22 18:30	7.917	324.3	9.54	20.44	29.34	0
9/7/22 18:45	7.576	314.6	8.29	19.8	29.34	0
9/7/22 19:00	7.305	309.4	7.074	19.28	29.34	0
9/7/22 19:15	6.86	305.1	6.039	18.85	29.35	0
9/7/22 19:30	3.982	302.9	13.18	18.65	29.35	0
9/7/22 19:45	2.202	358.5	50.52	18.49	29.36	0
9/7/22 20:00	4.779	340.8	16.08	18.19	29.36	0
9/7/22 20:15	4.301	344.4	21.52	18	29.36	0
9/7/22 20:30	4.085	339.6	19.57	17.78	29.36	0
9/7/22 20:45	3.575	356.3	29.2	17.45	29.36	0
9/7/22 21:00	2.679	351.9	33.4	16.95	29.36	0
9/7/22 21:15	3.462	323.4	57.34	16.73	29.36	0
9/7/22 21:30	5.101	294.8	21.06	16.91	29.37	0
9/7/22 21:45	4.81	321.8	28.78	16.75	29.37	0
9/7/22 22:00	6.133	348.7	24.09	16.66	29.37	0
9/7/22 22:15	7.224	352.7	20.16	16.56	29.38	0
9/7/22 22:30	5.192	356.7	20.07	16.08	29.38	0
9/7/22 22:45	4.682	22.07	27.7	15.71	29.38	0
9/7/22 23:00	4.979	359.9	27.19	15.22	29.38	0
9/7/22 23:15	4.726	8.11	58.88	15.39	29.38	0
9/7/22 23:30	6.531	20.54	22.15	15.36	29.38	0
9/7/22 23:45	5.469	12.86	28.19	15.66	29.38	0
9/8/22 0:00	5.689	1.038	32.86	15.57	29.38	0
9/8/22 0:15	2.915	311.7	42.5	15.56	29.39	0
9/8/22 0:30	1.998	330.3	59.8	15.47	29.39	0
9/8/22 0:45	5.577	344.6	20.78	15.51	29.39	0
9/8/22 1:00	6.604	4.469	14.62	15.11	29.39	0
9/8/22 1:15	4.762	340.8	23.13	15.06	29.39	0
9/8/22 1:30	4.154	349.7	18.11	15.08	29.39	0
9/8/22 1:45	5.002	10.88	20.17	14.77	29.39	0
9/8/22 2:00	3.459	2.634	28.25	14.79	29.39	0
9/8/22 2:15	3.008	25.36	36.38	14.15	29.39	0
9/8/22 2:30	2.597	346.9	43.19	14.37	29.39	0
9/8/22 2:45	2.739	27.65	28.15	14.31	29.39	0
9/8/22 3:00	2.967	41.64	20.45	13.83	29.39	0
9/8/22 3:15	3.497	44.96	9.95	13.49	29.4	0
9/8/22 3:30	3.212	20.07	16.1	13.18	29.4	0
9/8/22 3:45	2.135	9.6	23.19	14.04	29.4	0
9/8/22 4:00	1.923	342.6	49.77	14.06	29.4	0
9/8/22 4:15	2.408	159.7	19.41	12.07	29.41	0
9/8/22 4:30	4.019	157.7	6.867	11.7	29.41	0
9/8/22 4:45	2.94	151.5	26.47	11.78	29.41	0
9/8/22 5:00	3.64	158.5	11.58	11.89	29.41	0
9/8/22 5:15	3.755	181	8.76	11.34	29.41	0
9/8/22 5:30	4.707	167.3	10.59	11.06	29.41	0
9/8/22 5:45	4.349	150.2	5.101	10.83	29.42	0
9/8/22 6:00	3.163	169.7	14.09	10.99	29.43	0
9/8/22 6:15	4.354	166.5	12.34	11.22	29.43	0
9/8/22 6:30	4.599	151.3	5.565	11.43	29.43	0
9/8/22 6:45	3.056	117.4	37.09	11.93	29.44	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
9/8/22 7:00	1.091	69.31	28.88	12.5	29.44	0
9/8/22 7:15	1.489	99.3	24.67	13.22	29.44	0
9/8/22 7:30	1.389	69.46	53.01	14.31	29.44	0
9/8/22 7:45	2.436	198.2	21.49	13.73	29.44	0
9/8/22 8:00	2.728	153.6	32.72	14.11	29.44	0
9/8/22 8:15	2.947	60.13	17.48	14.84	29.43	0
9/8/22 8:30	3.74	55.7	15.88	15.03	29.43	0
9/8/22 8:45	2.629	39.33	20.02	15.77	29.43	0
9/8/22 9:00	3.418	34.45	21	16.22	29.43	0
9/8/22 9:15	3.85	25.78	15.11	16.68	29.42	0
9/8/22 9:30	4.548	2.552	23.89	17.17	29.42	0
9/8/22 9:45	7.712	20.88	10.57	17.24	29.42	0
9/8/22 10:00	7.597	17.43	15.84	17.97	29.42	0
9/8/22 10:15	8.69	23.55	13.5	18.23	29.42	0
9/8/22 10:30	10.72	19.16	10.79	18.52	29.41	0
9/8/22 10:45	11.25	16.5	13.44	18.85	29.4	0
9/8/22 11:00	10.88	18.37	16.36	19.06	29.4	0
9/8/22 11:15	12.02	17.28	13.06	19.35	29.4	0
9/8/22 11:30	11.55	17.27	11.52	19.38	29.39	0
9/8/22 11:45	10.82	17.34	13.4	19.79	29.39	0
9/8/22 12:00	10.63	16.93	18.26	20.08	29.38	0
9/8/22 12:15	10.77	22.66	13.57	20.33	29.38	0
9/8/22 12:30	9.08	10.08	17.26	20.81	29.37	0
9/8/22 12:45	9.37	9.88	24.3	21.25	29.37	0
9/8/22 13:00	8.77	340.8	33.85	20.93	29.37	0
9/8/22 13:15	11.84	309.8	10.47	21.39	29.36	0
9/8/22 13:30	10.57	325.2	24.6	21.6	29.36	0
9/8/22 13:45	10.72	320.7	23.31	21.82	29.35	0
9/8/22 14:00	11.1	329.5	18.57	21.73	29.35	0
9/8/22 14:15	8.15	344.3	23.58	21.73	29.34	0
9/8/22 14:30	10.16	328.8	28.16	21.67	29.34	0
9/8/22 14:45	9.65	321.6	20.15	21.93	29.34	0
9/8/22 15:00	11.39	315.9	16.58	21.7	29.33	0
9/8/22 15:15	10.4	335.3	21.58	21.53	29.33	0
9/8/22 15:30	9.42	338.5	22.42	21.38	29.32	0
9/8/22 15:45	7.912	332.5	18.95	21.41	29.31	0
9/8/22 16:00	9.72	307.2	15.05	21.53	29.31	0
9/8/22 16:15	8.98	316.6	17.67	21.17	29.31	0
9/8/22 16:30	7.643	324.8	15.4	20.43	29.31	0
9/8/22 16:45	9.33	326.8	13.93	19.96	29.31	0
9/8/22 17:00	9.3	315.6	9.98	19.84	29.31	0
9/8/22 17:15	9.04	318.9	13.13	19.98	29.31	0
9/8/22 17:30	9.47	338	18.99	19.96	29.3	0
9/8/22 17:45	10.76	352.5	17.4	19.62	29.3	0
9/8/22 18:00	9.49	352.8	15.5	19.32	29.29	0
9/8/22 18:15	8.87	341.4	14.17	19.03	29.29	0
9/8/22 18:30	7.363	330.4	22.37	18.64	29.29	0
9/8/22 18:45	6.842	314.9	18.74	18	29.29	0
9/8/22 19:00	5.732	302.5	14.06	17.5	29.29	0
9/8/22 19:15	6.798	340.5	18.71	16.81	29.3	0
9/8/22 19:30	13.12	2.482	16.83	16.65	29.29	0
9/8/22 19:45	15.47	7.641	13.14	16.6	29.29	0
9/8/22 20:00	14.23	8.31	9.45	16.19	29.29	0
9/8/22 20:15	12.35	2.071	11.39	15.98	29.29	0
9/8/22 20:30	10.26	355.2	15.12	15.83	29.29	0
9/8/22 20:45	10.76	352.9	14.2	15.71	29.29	0
9/8/22 21:00	9.16	358.1	13.77	15.77	29.29	0
9/8/22 21:15	8.93	6.148	11.31	15.86	29.29	0
9/8/22 21:30	9.57	354.1	14.64	15.7	29.29	0
9/8/22 21:45	7.257	6.624	16.27	15.09	29.29	0
9/8/22 22:00	4.801	37.51	17.79	14.11	29.29	0
9/8/22 22:15	3.84	28.82	17.91	13.63	29.28	0
9/8/22 22:30	6.952	355.4	16.11	13.7	29.28	0
9/8/22 22:45	8.97	339.1	10.71	14.37	29.28	0
9/8/22 23:00	7.315	349.6	22.6	13.87	29.27	0
9/8/22 23:15	9.07	43.19	30.15	13.27	29.27	0
9/8/22 23:30	10.07	22.38	16.52	13.17	29.27	0
9/8/22 23:45	12.39	5	14.38	13.72	29.27	0
9/9/22 0:00	11.33	359.8	12.72	14.01	29.27	0
9/9/22 0:15	8.89	4.743	11.09	13.69	29.26	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
9/9/22 0:30	11.96	8.42	9.7	13.31	29.26	0
9/9/22 0:45	13.34	10.07	8.79	13.52	29.26	0
9/9/22 1:00	13.15	17.35	7.874	13.05	29.26	0
9/9/22 1:15	10.76	21.85	7.405	12.78	29.26	0
9/9/22 1:30	9.69	20.82	7.451	12.39	29.26	0
9/9/22 1:45	7.264	9.25	11.29	11.82	29.26	0
9/9/22 2:00	7.589	18.66	7.952	11.66	29.25	0
9/9/22 2:15	7.244	16.58	8.25	11.54	29.25	0
9/9/22 2:30	5.422	4.832	9.42	11.36	29.25	0
9/9/22 2:45	4.418	18.81	13.82	11.27	29.25	0
9/9/22 3:00	6.679	25.13	6.011	11.14	29.25	0
9/9/22 3:15	6.631	39.79	6.562	11.05	29.25	0
9/9/22 3:30	6.264	36.93	7.966	10.84	29.24	0
9/9/22 3:45	8.12	21.93	6.72	10.81	29.24	0
9/9/22 4:00	6.707	24.96	6.132	10.53	29.24	0
9/9/22 4:15	6.355	25.58	7.959	9.97	29.24	0
9/9/22 4:30	8.42	29.29	7.1	10.03	29.23	0
9/9/22 4:45	9.06	19.53	10.99	10.16	29.23	0
9/9/22 5:00	8.46	9.05	10.67	10	29.23	0
9/9/22 5:15	8.81	7.705	13.43	10.51	29.23	0
9/9/22 5:30	10.22	6.794	13.99	10.91	29.22	0
9/9/22 5:45	11.05	11.02	11.48	11.07	29.22	0
9/9/22 6:00	12.46	11.73	14.52	11.1	29.22	0
9/9/22 6:15	11.43	15.11	12.32	11.02	29.22	0
9/9/22 6:30	11.08	17.49	8.65	11.36	29.22	0
9/9/22 6:45	9.69	16.96	12.61	11.58	29.22	0
9/9/22 7:00	9.16	26.79	7.791	11.21	29.22	0
9/9/22 7:15	10.07	24.59	9.1	11.44	29.22	0
9/9/22 7:30	11.12	21.59	10.12	11.73	29.22	0
9/9/22 7:45	12.02	21.88	9.56	11.97	29.22	0
9/9/22 8:00	11.09	21.21	10.7	12.14	29.22	0
9/9/22 8:15	9.84	19.2	8.46	12.45	29.22	0
9/9/22 8:30	7.535	17.74	10.42	12.86	29.21	0
9/9/22 8:45	6.999	13.02	12.23	13.3	29.21	0
9/9/22 9:00	6.899	16.51	13.01	13.91	29.21	0
9/9/22 9:15	6.41	9.55	16.08	14.48	29.21	0
9/9/22 9:30	8.22	15.12	16.91	15.06	29.21	0
9/9/22 9:45	9.84	16.63	10.92	15.27	29.21	0
9/9/22 10:00	9.71	17.85	10.44	15.81	29.2	0
9/9/22 10:15	8.96	16.79	11.45	16.66	29.2	0
9/9/22 10:30	10.01	16.15	14.47	16.99	29.19	0
9/9/22 10:45	10.6	17	12.3	17.28	29.19	0
9/9/22 11:00	10.26	10.06	14.28	17.73	29.18	0
9/9/22 11:15	9.35	16.97	12.42	18.28	29.18	0
9/9/22 11:30	9.03	19.9	10.5	19.03	29.17	0
9/9/22 11:45	10.78	16.44	10.67	19.34	29.17	0
9/9/22 12:00	11.48	11.82	11.83	19.74	29.16	0
9/9/22 12:15	13.38	10.26	12.55	20.07	29.15	0
9/9/22 12:30	13.76	8.63	11.04	20.5	29.15	0
9/9/22 12:45	14.48	8.43	12.78	20.99	29.14	0
9/9/22 13:00	18.51	0	0	20.98	29.13	0
9/9/22 13:15	15.82	3.937	14.88	21.1	29.13	0
9/9/22 13:30	18.12	3.842	14.36	21.48	29.12	0
9/9/22 13:45	17.28	6.127	14.51	21.77	29.12	0
9/9/22 14:00	14.92	4.596	14.33	22.14	29.12	0
9/9/22 14:15	14.84	5.211	15.31	22.5	29.11	0
9/9/22 14:30	16.81	8.39	16.75	22.42	29.11	0
9/9/22 14:45	17.33	1.431	14.4	22.7	29.1	0
9/9/22 15:00	17.79	6.011	17.43	22.81	29.09	0
9/9/22 15:15	19.32	0	0	22.88	29.08	0
9/9/22 15:30	18.98	3.933	16.51	22.95	29.08	0
9/9/22 15:45	18.56	2.062	15.85	23.09	29.07	0
9/9/22 16:00	18.27	1.361	17.08	23.13	29.07	0
9/9/22 16:15	15.6	7.418	18.94	23.08	29.07	0
9/9/22 16:30	15.3	13.26	12.69	22.86	29.07	0
9/9/22 16:45	12.99	10.45	16.06	22.74	29.07	0
9/9/22 17:00	12.41	26.02	15.69	22.53	29.07	0
9/9/22 17:15	12.64	22.23	18.71	22.27	29.07	0
9/9/22 17:30	14.04	14.17	14.52	22.08	29.07	0
9/9/22 17:45	12.93	19.65	13.15	21.97	29.07	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/9/22 18:00	13.78	19.7	13.15	21.81	29.07	0
9/9/22 18:15	13.09	19.28	12.5	21.74	29.07	0
9/9/22 18:30	13.85	16.93	10.65	21.48	29.06	0
9/9/22 18:45	12.74	13.63	11.07	21.46	29.07	0
9/9/22 19:00	13.14	9.49	10.81	21.32	29.07	0
9/9/22 19:15	14.65	6.893	11.89	21.24	29.07	0
9/9/22 19:30	14.25	1.127	14.03	21.1	29.07	0
9/9/22 19:45	13.9	4.64	12.06	20.67	29.07	0
9/9/22 20:00	13.14	6.957	14.03	20.3	29.08	0
9/9/22 20:15	15.36	6.266	12.4	20.24	29.08	0
9/9/22 20:30	10.65	12.6	12.77	19.95	29.08	0
9/9/22 20:45	7.675	13.98	14.45	19.26	29.09	0
9/9/22 21:00	8.31	12.01	11.76	18.93	29.09	0
9/9/22 21:15	8.15	10.92	13.36	18.62	29.08	0
9/9/22 21:30	8.77	9.9	11.09	18.38	29.08	0
9/9/22 21:45	8.65	9.66	13.35	18.39	29.08	0
9/9/22 22:00	9.88	10.29	11.38	18.35	29.08	0
9/9/22 22:15	11.13	12.5	8.97	18.46	29.08	0
9/9/22 22:30	10.29	15.15	11.77	18.7	29.08	0
9/9/22 22:45	10.11	17.12	10.76	18.68	29.08	0
9/9/22 23:00	9.43	17.43	10.02	18.52	29.08	0
9/9/22 23:15	9.39	21	13.17	18.42	29.07	0
9/9/22 23:30	10.63	18.55	12.99	18.4	29.07	0
9/9/22 23:45	9.21	22.55	9.91	19.05	29.07	0
9/10/22 0:00	9.71	18.73	9.28	18.45	29.07	0
9/10/22 0:15	9.4	18.37	12.6	18.1	29.07	0
9/10/22 0:30	9.48	25.33	20.5	18.08	29.07	0
9/10/22 0:45	9.67	17.62	11.06	17.35	29.06	0
9/10/22 1:00	8.26	16.53	11.53	17.01	29.06	0
9/10/22 1:15	9.36	22.02	7.233	17.27	29.06	0
9/10/22 1:30	7.762	20.89	12.69	17.52	29.06	0
9/10/22 1:45	8.7	22.67	11.29	17.71	29.06	0
9/10/22 2:00	6.48	15.83	13.95	17.03	29.06	0
9/10/22 2:15	4.65	38.69	57.67	17.83	29.06	0
9/10/22 2:30	5.551	55.59	25.96	19.32	29.06	0
9/10/22 2:45	8.44	55.41	14.77	21.09	29.06	0
9/10/22 3:00	8.85	47.64	10.41	20.93	29.06	0
9/10/22 3:15	9.97	40.09	8.19	20.34	29.05	0
9/10/22 3:30	8.93	41.48	14.85	19.9	29.05	0
9/10/22 3:45	7.833	31.84	13.68	19.83	29.05	0
9/10/22 4:00	7.809	31.37	17.14	19.94	29.05	0
9/10/22 4:15	9.23	29.18	13.89	19.85	29.04	0
9/10/22 4:30	9.26	21.56	14.74	19.25	29.04	0
9/10/22 4:45	9.09	21.74	12.49	18.64	29.04	0
9/10/22 5:00	10.64	34.88	10.12	18.76	29.04	0
9/10/22 5:15	12.13	29.36	12.8	18.27	29.04	0
9/10/22 5:30	10.58	24.49	12.98	17.33	29.04	0
9/10/22 5:45	8.32	34.44	14.66	18.48	29.04	0
9/10/22 6:00	8.21	42.12	14.64	19.64	29.04	0
9/10/22 6:15	8.79	45.02	15.39	20.49	29.04	0
9/10/22 6:30	7.031	48.38	17.33	20.95	29.04	0
9/10/22 6:45	6.223	54.96	16.73	21.5	29.05	0
9/10/22 7:00	6.494	50.19	17.84	21.9	29.05	0
9/10/22 7:15	5.021	32.36	15.77	21.41	29.05	0
9/10/22 7:30	5.159	19.89	15.77	21.38	29.05	0
9/10/22 7:45	5.078	15.42	9.46	21.19	29.05	0
9/10/22 8:00	4.015	11.19	11.24	21.16	29.06	0
9/10/22 8:15	4.297	30.26	26.93	21.95	29.05	0
9/10/22 8:30	3.932	9.48	15.82	22.47	29.05	0
9/10/22 8:45	3.851	10.66	15.68	23.23	29.06	0
9/10/22 9:00	3.35	42.44	33	24.65	29.06	0
9/10/22 9:15	3.94	38.65	34.48	25.39	29.06	0
9/10/22 9:30	7.047	89	18.06	27.09	29.06	0
9/10/22 9:45	10.91	93.3	15.54	27.75	29.06	0
9/10/22 10:00	10.65	95.7	17.01	28.2	29.06	0
9/10/22 10:15	9.61	89.5	22.82	28.65	29.06	0
9/10/22 10:30	13.39	92.6	20.19	28.54	29.05	0
9/10/22 10:45	12.54	100	18.44	28.99	29.05	0
9/10/22 11:00	12.83	93.4	19.02	29.01	29.05	0
9/10/22 11:15	13.78	80.4	17.38	29.11	29.05	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
9/10/22 11:30	12.75	78.67	15.97	29.35	29.04	0
9/10/22 11:45	13.45	85	19.16	29.57	29.04	0
9/10/22 12:00	9.17	90	23.01	30.32	29.03	0
9/10/22 12:15	10.77	96.3	18.49	30.73	29.03	0
9/10/22 12:30	10.51	103	22.04	30.76	29.03	0
9/10/22 12:45	8.75	94.8	28.43	31.14	29.03	0
9/10/22 13:00	11.29	113.4	15.67	31.22	29.02	0
9/10/22 13:15	11.15	118.3	12.77	31.59	29.02	0
9/10/22 13:30	10.84	102.7	24.96	31.7	29.02	0
9/10/22 13:45	9.79	91.5	17.56	31.77	29.02	0
9/10/22 14:00	9.64	115.9	18.47	32.28	29.01	0
9/10/22 14:15	11.56	116.8	13.27	31.9	29.01	0
9/10/22 14:30	8.92	104.1	21.37	32.41	29.01	0
9/10/22 14:45	9.18	111.2	17.44	32.42	29	0
9/10/22 15:00	9.2	95.9	18.37	32.17	29	0
9/10/22 15:15	8.48	104.6	18.72	32.25	28.99	0
9/10/22 15:30	10.29	120.7	15.01	32.28	28.99	0
9/10/22 15:45	8.85	108.9	17.21	32.1	28.99	0
9/10/22 16:00	8.4	100.8	16.91	32.06	28.99	0
9/10/22 16:15	7.645	96.1	15.2	31.65	28.99	0
9/10/22 16:30	8.26	113.9	13.1	31.09	28.99	0
9/10/22 16:45	8.08	107.2	15.21	30.72	28.99	0
9/10/22 17:00	5.657	98.6	14.05	30.27	28.99	0
9/10/22 17:15	6.519	100	12.1	29.89	28.99	0
9/10/22 17:30	5.786	90.9	14.21	29.34	28.99	0
9/10/22 17:45	6.154	96.9	12.62	29.01	28.99	0
9/10/22 18:00	4.341	98.2	13.84	28.51	29	0
9/10/22 18:15	4.689	102.4	15.48	28	29	0
9/10/22 18:30	4.61	106.1	10.86	27.69	29	0
9/10/22 18:45	5.776	116.5	14.11	27.29	29.01	0
9/10/22 19:00	7.673	118.6	12.8	27.1	29.02	0
9/10/22 19:15	8.46	113.9	11.02	26.85	29.02	0
9/10/22 19:30	8.93	111.5	11.6	26.75	29.03	0
9/10/22 19:45	9.9	115.6	10.93	26.54	29.03	0
9/10/22 20:00	12.66	122.1	9.85	26.71	29.04	0
9/10/22 20:15	11.36	117.4	10.85	26.61	29.04	0
9/10/22 20:30	10.23	109.6	12.56	26.24	29.05	0
9/10/22 20:45	11.38	115	14.68	26.17	29.05	0
9/10/22 21:00	11.07	121.8	11.44	26.13	29.05	0
9/10/22 21:15	11.69	118.9	10.9	26.04	29.06	0
9/10/22 21:30	11.62	123.9	11.92	25.96	29.06	0
9/10/22 21:45	11.21	123.7	11.36	25.96	29.06	0
9/10/22 22:00	12.66	123	9.73	26.03	29.06	0
9/10/22 22:15	11.79	119.9	11.82	25.96	29.06	0
9/10/22 22:30	10.43	121	12.16	25.76	29.07	0
9/10/22 22:45	7.602	131.4	17.31	25.54	29.07	0
9/10/22 23:00	6.54	160.7	18.54	24.86	29.08	0
9/10/22 23:15	4.459	149.7	15.84	24.6	29.08	0
9/10/22 23:30	6.202	155.5	15.63	24.88	29.08	0
9/10/22 23:45	6.861	150.6	12	24.54	29.09	0
9/11/22 0:00	7.497	145.1	10.29	24.27	29.09	0
9/11/22 0:15	7.335	166.9	16.25	23.72	29.09	0
9/11/22 0:30	8.79	218.8	16.13	22.35	29.1	0
9/11/22 0:45	9.24	210	7.815	23.07	29.11	0
9/11/22 1:00	7.065	226.6	8.04	22.27	29.12	0
9/11/22 1:15	4.896	204.7	6.49	21.66	29.13	0
9/11/22 1:30	5.414	194.3	18.21	20.65	29.14	0
9/11/22 1:45	4.031	101.6	27.52	19.54	29.14	0
9/11/22 2:00	7.557	152.3	20.35	19.26	29.15	0
9/11/22 2:15	7.69	166.7	5.94	18.53	29.15	0
9/11/22 2:30	6.296	163.5	5.717	18.13	29.16	0
9/11/22 2:45	5.027	141	8.33	18.57	29.16	0
9/11/22 3:00	5.126	175.2	12.07	18.69	29.16	0
9/11/22 3:15	5.124	169.3	8.45	18.77	29.17	0
9/11/22 3:30	3.892	161.5	13.99	18.69	29.17	0
9/11/22 3:45	2.8	136.1	8.81	18.69	29.17	0
9/11/22 4:00	3.381	123.6	14	19.03	29.17	0
9/11/22 4:15	5.279	106	18.44	19.05	29.16	0
9/11/22 4:30	5.446	134.9	10.36	19.39	29.15	0
9/11/22 4:45	4.268	167.5	71.33	19.25	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
9/11/22 5:00	4.459	3.883	29.05	18.16	29.14	0
9/11/22 5:15	14.15	247.8	16.1	18.29	29.16	0
9/11/22 5:30	8.3	256.1	10.39	17.93	29.18	0
9/11/22 5:45	3.508	50.75	41.04	17.4	29.19	0
9/11/22 6:00	4.588	98.5	22.42	17.04	29.19	0
9/11/22 6:15	5.26	131.9	14.95	17.63	29.21	0
9/11/22 6:30	9.65	87.4	18.91	17.03	29.18	0
9/11/22 6:45	8.22	175.9	31.16	17.38	29.18	0
9/11/22 7:00	7.919	193.8	19.81	17.6	29.21	0
9/11/22 7:15	4.789	112.6	59.5	17.3	29.2	0
9/11/22 7:30	4.95	351.5	59.09	17.27	29.17	0
9/11/22 7:45	12.09	244.9	11.05	17.43	29.19	0
9/11/22 8:00	5.894	294.4	51.53	17.91	29.2	0
9/11/22 8:15	1.079	0.377	41.12	18.01	29.2	0
9/11/22 8:30	3.692	113.6	21.11	18.45	29.2	0
9/11/22 8:45	2.796	101	17.39	18.66	29.2	0
9/11/22 9:00	3.221	143.4	40.29	19.29	29.2	0
9/11/22 9:15	5.403	176.5	14.45	19.46	29.2	0
9/11/22 9:30	5.562	171.3	14.48	19.46	29.21	0
9/11/22 9:45	3.322	176	24.87	19.69	29.21	0
9/11/22 10:00	3.738	134	47.36	20.36	29.21	0
9/11/22 10:15	6.255	199.6	15.01	20.8	29.21	0
9/11/22 10:30	5.302	170.9	28.17	21.21	29.22	0
9/11/22 10:45	4.563	163.5	24.47	21.43	29.22	0
9/11/22 11:00	3.91	130.7	20.31	21.99	29.21	0
9/11/22 11:15	4.193	146.6	33.88	22.11	29.21	0
9/11/22 11:30	3.323	149.6	57.12	22.55	29.21	0
9/11/22 11:45	2.838	87.2	28.49	22.3	29.2	0
9/11/22 12:00	6.609	186.2	16.53	22.22	29.21	0
9/11/22 12:15	6.383	178.7	18.35	22.08	29.21	0
9/11/22 12:30	5.066	174.4	11.94	22.18	29.21	0
9/11/22 12:45	4.359	176.4	19.88	22.32	29.22	0
9/11/22 13:00	6.682	158.5	18.07	22.2	29.22	0
9/11/22 13:15	5.532	145.1	15.03	21.94	29.22	0
9/11/22 13:30	6.63	155.6	11.55	21.58	29.22	0
9/11/22 13:45	5.493	175.6	19.97	21.49	29.23	0
9/11/22 14:00	5.952	149.6	22.28	21.16	29.22	0
9/11/22 14:15	7.651	92.1	16.38	20.56	29.21	0
9/11/22 14:30	4.283	149	45.73	20.31	29.22	0
9/11/22 14:45	5	147.4	22.46	20.13	29.22	0
9/11/22 15:00	4.777	155.8	15.56	20.59	29.21	0
9/11/22 15:15	4.652	124	34.82	20.8	29.22	0
9/11/22 15:30	3.847	104.4	17.61	20.58	29.21	0
9/11/22 15:45	3.598	94.2	13.74	21.45	29.21	0
9/11/22 16:00	4.07	104.8	14.87	21.3	29.2	0
9/11/22 16:15	3.35	142.2	11.98	21.42	29.2	0
9/11/22 16:30	4.093	194.4	26.46	21.41	29.21	0
9/11/22 16:45	4.162	231.6	8.47	21.39	29.21	0
9/11/22 17:00	2.192	188.8	28.28	21.32	29.21	0
9/11/22 17:15	2.491	132.8	21.63	20.8	29.21	0
9/11/22 17:30	1.611	161.9	58.15	20.79	29.21	0
9/11/22 17:45	3.584	244.7	17.2	20.98	29.22	0
9/11/22 18:00	6.316	220.3	15.49	21	29.22	0
9/11/22 18:15	5.997	179.6	13.56	20.47	29.22	0
9/11/22 18:30	3.529	189.5	16.94	19.91	29.23	0
9/11/22 18:45	5.911	87.8	15.45	19.09	29.22	0
9/11/22 19:00	6.371	106.4	7.612	19.49	29.22	0
9/11/22 19:15	6.542	132.5	34.18	19.84	29.22	0
9/11/22 19:30	6.578	196.8	31.38	19.74	29.23	0
9/11/22 19:45	6.288	224.4	12.11	19.28	29.23	0
9/11/22 20:00	6.425	217.1	12.21	19.59	29.24	0
9/11/22 20:15	4.183	212.8	6.678	19.71	29.24	0
9/11/22 20:30	1.056	35	25.55	19.03	29.24	0
9/11/22 20:45	2.971	256.6	15.33	19.18	29.25	0
9/11/22 21:00	2.696	262.7	18.67	19.16	29.25	0
9/11/22 21:15	4.344	253.2	12.47	18.87	29.25	0
9/11/22 21:30	4.398	280.6	23.19	18.08	29.25	0
9/11/22 21:45	2.442	317.1	27.98	17.57	29.23	0
9/11/22 22:00	2.404	265.9	11.95	17.48	29.23	0
9/11/22 22:15	3.93	290.6	14.1	17.37	29.22	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
9/11/22 22:30	8.19	261.5	4.977	17.37	29.23	0
9/11/22 22:45	8.62	239.5	7.866	17.45	29.24	0
9/11/22 23:00	9.97	243.6	6.339	17.01	29.25	0
9/11/22 23:15	3.68	239.6	9.96	16.85	29.26	0
9/11/22 23:30	2.597	103.6	44.63	16.57	29.26	0
9/11/22 23:45	4.375	112.7	8.63	16.35	29.25	0
9/12/22 0:00	4.77	112.6	10.44	16.45	29.25	0
9/12/22 0:15	3.594	97.1	13.72	16.61	29.24	0
9/12/22 0:30	2.755	113	24	16.64	29.23	0
9/12/22 0:45	3.384	143	15.77	16.72	29.22	0
9/12/22 1:00	3.395	108.2	29.28	16.83	29.21	0
9/12/22 1:15	3.332	33.84	24.44	16.14	29.2	0
9/12/22 1:30	4.66	245.8	30.65	16.27	29.21	0
9/12/22 1:45	10.64	257.4	7.371	16.34	29.22	0
9/12/22 2:00	5.47	257.4	9.58	16.23	29.23	0
9/12/22 2:15	5.516	252.9	9.11	16.16	29.24	0
9/12/22 2:30	2.151	239.3	77.72	16.16	29.24	0
9/12/22 2:45	0.733	76.64	5.158	15.84	29.24	0
9/12/22 3:00	1.851	167.8	38.47	15.97	29.24	0
9/12/22 3:15	3.793	94.7	13.84	15.78	29.24	0
9/12/22 3:30	3.371	101	14.07	15.74	29.23	0
9/12/22 3:45	4.003	93.4	15.77	15.71	29.23	0
9/12/22 4:00	4.142	134.7	9.17	15.7	29.23	0
9/12/22 4:15	3.56	108.8	17.62	15.63	29.23	0
9/12/22 4:30	3.111	65.11	8.63	15.66	29.22	0
9/12/22 4:45	2.559	263.9	15.41	15.78	29.21	0
9/12/22 5:00	4.632	286.1	9.15	15.75	29.21	0
9/12/22 5:15	6.05	286.8	3.845	15.56	29.21	0
9/12/22 5:30	5.536	285.6	4.295	15.55	29.2	0
9/12/22 5:45	6.45	270.3	17.09	15.6	29.21	0
9/12/22 6:00	5.121	268.3	18.79	15.5	29.22	0
9/12/22 6:15	2.725	325.5	20.81	15.21	29.21	0
9/12/22 6:30	0.746	328.1	23.21	15.04	29.22	0
9/12/22 6:45	1.908	261.2	25.26	15.33	29.22	0
9/12/22 7:00	3.634	196.7	24	15.59	29.23	0
9/12/22 7:15	1.905	190.9	29.22	15.57	29.23	0
9/12/22 7:30	2.24	141.2	34.54	15.64	29.23	0
9/12/22 7:45	2.63	148.5	26.81	15.69	29.23	0
9/12/22 8:00	2.519	205.5	14.25	15.83	29.22	0
9/12/22 8:15	1.856	201.9	31.14	16.05	29.22	0
9/12/22 8:30	4.776	203.4	13.89	16.09	29.23	0
9/12/22 8:45	3.696	201.2	16.83	16.14	29.23	0
9/12/22 9:00	5.461	210.9	7.496	16.09	29.23	0
9/12/22 9:15	4.617	216.6	9.68	16.2	29.23	0
9/12/22 9:30	5.814	225.8	12.32	16.42	29.23	0
9/12/22 9:45	6.507	229.6	16.18	16.6	29.23	0
9/12/22 10:00	4.69	250.1	20.42	16.94	29.23	0
9/12/22 10:15	4.638	182.6	13.44	17.01	29.23	0
9/12/22 10:30	3.737	210.1	31.57	16.97	29.23	0
9/12/22 10:45	2.674	176.2	43.28	17.2	29.22	0
9/12/22 11:00	2.978	207	34.1	17.37	29.22	0
9/12/22 11:15	3.227	145.7	60.43	17.88	29.21	0
9/12/22 11:30	3.318	113.2	48.92	18.27	29.2	0
9/12/22 11:45	2.574	122.8	55.11	18.75	29.19	0
9/12/22 12:00	2.625	160.2	67.05	18.97	29.19	0
9/12/22 12:15	3.813	174.5	78	19.15	29.18	0
9/12/22 12:30	2.599	175.7	94.6	19.71	29.18	0
9/12/22 12:45	3.538	199.5	44.22	20.31	29.17	0
9/12/22 13:00	4.31	213	40.84	20.18	29.16	0
9/12/22 13:15	4.294	178.6	32.53	20.72	29.16	0
9/12/22 13:30	3.99	254.2	48.57	21.46	29.15	0
9/12/22 13:45	4.236	277.3	40	21.31	29.14	0
9/12/22 14:00	3.785	301	32.67	21.65	29.14	0
9/12/22 14:15	4.723	261.6	21.83	22.03	29.13	0
9/12/22 14:30	6.895	264.2	18.89	22.19	29.13	0
9/12/22 14:45	7.293	260.3	20.98	22.26	29.13	0
9/12/22 15:00	6.368	251.4	22.58	22.31	29.13	0
9/12/22 15:15	6.563	264.3	16.22	22.19	29.13	0
9/12/22 15:30	8.76	254.5	15.73	21.94	29.12	0
9/12/22 15:45	7.315	265.2	12.81	21.74	29.12	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
9/12/22 16:00	7.848	258.2	14.56	21.58	29.13	0
9/12/22 16:15	7.598	267.1	15.51	21.64	29.13	0
9/12/22 16:30	7.271	260	15.23	21.32	29.12	0
9/12/22 16:45	7.904	253.4	18.52	21.12	29.12	0
9/12/22 17:00	7.93	235.7	11.92	20.86	29.12	0
9/12/22 17:15	6.943	229.4	13.19	20.66	29.12	0
9/12/22 17:30	6.32	214.4	8.92	20.34	29.12	0
9/12/22 17:45	4.21	224.4	8.48	20.28	29.12	0
9/12/22 18:00	2.385	197.4	27.02	20.07	29.11	0
9/12/22 18:15	1.172	125.6	28.72	19.66	29.11	0
9/12/22 18:30	0.864	98.5	0.429	19.34	29.11	0
9/12/22 18:45	2.02	112.7	6.254	19.13	29.11	0
9/12/22 19:00	2.805	125.9	6.978	18.92	29.11	0
9/12/22 19:15	1.687	133.3	10.38	18.98	29.11	0
9/12/22 19:30	0.311	112.1	5.084	18.87	29.11	0
9/12/22 19:45	1.668	82.5	6.754	18.45	29.11	0
9/12/22 20:00	2.586	83.8	9.57	17.9	29.11	0
9/12/22 20:15	2.061	84.8	1.988	17.81	29.12	0
9/12/22 20:30	0.359	107.6	41.23	17.99	29.12	0
9/12/22 20:45	5.723	235.6	10.73	18.32	29.12	0
9/12/22 21:00	6.714	238.7	3.979	17.79	29.12	0
9/12/22 21:15	5.593	238.4	4.173	17.74	29.12	0
9/12/22 21:30	4.993	238	6.15	17.71	29.11	0
9/12/22 21:45	4.111	254	7.843	17.64	29.11	0
9/12/22 22:00	2.258	279	39.08	17.52	29.11	0
9/12/22 22:15	1.59	13.66	3.744	16.99	29.11	0
9/12/22 22:30	1.676	9.3	9.6	16.79	29.11	0
9/12/22 22:45	1.938	20.54	8.68	16.27	29.12	0
9/12/22 23:00	1.569	19.15	7.993	16.29	29.12	0
9/12/22 23:15	1.805	35.18	13.2	16.16	29.12	0
9/12/22 23:30	2.067	35.45	7.234	16	29.12	0
9/12/22 23:45	1.678	31.22	3.103	15.98	29.12	0
9/13/22 0:00	1.266	153.7	57.36	16.22	29.12	0
9/13/22 0:15	3.09	204.5	8.79	16.64	29.11	0
9/13/22 0:30	2.907	192.2	16.4	16.62	29.11	0
9/13/22 0:45	2.291	181.3	27.18	16.43	29.11	0
9/13/22 1:00	1.334	168.5	28.91	16.25	29.11	0
9/13/22 1:15	1.16	209.8	50.21	16.2	29.11	0
9/13/22 1:30	1.003	113.9	55.91	16.21	29.11	0
9/13/22 1:45	1.281	100.9	5.855	15.98	29.11	0
9/13/22 2:00	1.639	111.1	17.53	16.04	29.1	0
9/13/22 2:15	1.405	115.7	12.68	15.98	29.1	0
9/13/22 2:30	1.676	106.2	10.22	15.97	29.1	0
9/13/22 2:45	2.331	104.8	5.226	15.87	29.1	0
9/13/22 3:00	2.051	119.3	8.2	15.93	29.1	0
9/13/22 3:15	2.293	142.2	6.17	16.03	29.1	0
9/13/22 3:30	2.457	188.8	22.21	16.2	29.1	0
9/13/22 3:45	2.551	195.7	9.25	16.11	29.1	0
9/13/22 4:00	2.814	202.5	26.55	15.95	29.1	0
9/13/22 4:15	4.658	248.3	4.626	15.65	29.09	0
9/13/22 4:30	4.743	258.7	3.784	15.55	29.09	0
9/13/22 4:45	4.493	265.8	7.486	15.54	29.09	0
9/13/22 5:00	3.236	311.3	43.37	15.47	29.09	0
9/13/22 5:15	2.208	28.03	12.05	15	29.09	0
9/13/22 5:30	1.361	37.73	5.546	14.91	29.09	0
9/13/22 5:45	1.236	346.2	11.06	15.06	29.09	0
9/13/22 6:00	2.754	8.41	9.55	15.17	29.09	0
9/13/22 6:15	3.237	21.15	6.487	15.12	29.09	0
9/13/22 6:30	1.847	349.1	17.56	15.12	29.09	0
9/13/22 6:45	2.001	3.532	9.5	15.29	29.09	0
9/13/22 7:00	1.786	6.582	6.458	15.36	29.09	0
9/13/22 7:15	1.652	339.1	11.42	15.55	29.09	0
9/13/22 7:30	1.638	322.2	19.31	15.91	29.09	0
9/13/22 7:45	2.077	12.58	13.17	16.01	29.09	0
9/13/22 8:00	2.024	25.74	17.56	16.13	29.09	0
9/13/22 8:15	1.024	347.6	40.22	16.54	29.09	0
9/13/22 8:30	1.781	4.046	43.05	16.83	29.09	0
9/13/22 8:45	2.368	352.7	38.31	16.93	29.09	0
9/13/22 9:00	2.712	9.76	21.36	16.94	29.09	0
9/13/22 9:15	2.712	38	35.34	17.21	29.09	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/13/22 9:30	3.267	21.17	16.69	17.41	29.09	0
9/13/22 9:45	4.59	20.95	18.61	17.36	29.09	0
9/13/22 10:00	3.598	44.23	25.89	17.74	29.09	0
9/13/22 10:15	4.174	40.59	20.24	17.81	29.08	0
9/13/22 10:30	3.531	25.19	21.59	18.07	29.08	0
9/13/22 10:45	3.276	26.74	33.26	18.12	29.08	0
9/13/22 11:00	4.136	359.5	28.28	18.44	29.08	0
9/13/22 11:15	4.129	327.6	26.53	18.61	29.08	0
9/13/22 11:30	5.278	27.65	19.68	18.64	29.07	0
9/13/22 11:45	4.344	357.2	28.65	18.7	29.07	0
9/13/22 12:00	6.737	25.16	13.93	18.93	29.07	0
9/13/22 12:15	6.007	13.11	22.82	19.06	29.07	0
9/13/22 12:30	5.813	5.845	39.23	19.28	29.07	0
9/13/22 12:45	6.318	3.322	25.31	19.2	29.07	0
9/13/22 13:00	8.74	20.93	14.64	19.01	29.07	0
9/13/22 13:15	8.51	23.26	17.33	19.01	29.07	0
9/13/22 13:30	9.09	22.31	13.64	18.8	29.07	0
9/13/22 13:45	6.965	20.12	17.42	18.84	29.06	0
9/13/22 14:00	6.261	22.4	15.8	19.03	29.06	0
9/13/22 14:15	5.681	328.2	21.42	19.43	29.06	0
9/13/22 14:30	5.228	347.3	33.36	19.42	29.05	0
9/13/22 14:45	5.845	343.8	38.94	19.37	29.05	0
9/13/22 15:00	5.135	334.6	19.37	19.06	29.05	0
9/13/22 15:15	3.823	332	22.35	19.09	29.04	0
9/13/22 15:30	5.315	320.4	9.63	19.12	29.04	0
9/13/22 15:45	5.993	329.9	11.65	19.2	29.04	0
9/13/22 16:00	4.593	342.2	19.31	19.04	29.04	0
9/13/22 16:15	4.31	16.27	15.29	18.89	29.04	0
9/13/22 16:30	4.11	16.93	14.09	18.74	29.04	0
9/13/22 16:45	4.69	15.66	9.22	18.63	29.05	0
9/13/22 17:00	3.693	13.4	6.675	18.53	29.05	0
9/13/22 17:15	3.933	12.51	7.001	18.36	29.05	0
9/13/22 17:30	4.429	6.831	5.317	18.3	29.05	0
9/13/22 17:45	3.662	2.787	8.55	18.3	29.05	0
9/13/22 18:00	3.649	358.2	9.7	18.24	29.05	0
9/13/22 18:15	2.645	352	7.563	18.17	29.05	0
9/13/22 18:30	1.809	350.3	13.38	18.08	29.05	0
9/13/22 18:45	0.576	21.1	0.126	17.79	29.05	0
9/13/22 19:00	0	0	0	17.65	29.05	0
9/13/22 19:15	1.108	222.1	36.79	17.71	29.05	0
9/13/22 19:30	1.825	227.5	5.45	17.74	29.05	0
9/13/22 19:45	1.691	250.2	38.02	17.62	29.06	0
9/13/22 20:00	0.745	23.39	2.251	16.84	29.06	0
9/13/22 20:15	0.726	359.2	9.32	16.83	29.07	0
9/13/22 20:30	1.662	29.35	14.6	16.96	29.07	0
9/13/22 20:45	2.297	40.92	5.427	16.48	29.06	0
9/13/22 21:00	0.873	45.34	1.047	16.61	29.06	0
9/13/22 21:15	0.591	44.1	0.965	16.85	29.06	0
9/13/22 21:30	2.073	42.4	1.811	16.81	29.06	0
9/13/22 21:45	2.72	40.82	1.428	16.01	29.06	0
9/13/22 22:00	3.106	32.04	3.442	15.8	29.06	0
9/13/22 22:15	5.609	29.96	7.8	15.69	29.06	0
9/13/22 22:30	6.176	25.13	7.765	15.67	29.06	0
9/13/22 22:45	7.499	17.94	11.73	15.7	29.06	0
9/13/22 23:00	7.819	11.97	13.35	15.67	29.06	0
9/13/22 23:15	6.073	23.32	6.947	15.54	29.06	0
9/13/22 23:30	6.524	25.97	7.839	15.48	29.06	0
9/13/22 23:45	5.636	30.93	8.16	15.29	29.06	0
9/14/22 0:00	3.977	2.712	13.1	15.06	29.06	0
9/14/22 0:15	4.372	6.832	9.77	15.15	29.06	0
9/14/22 0:30	6.336	9.5	8.83	15.39	29.06	0
9/14/22 0:45	7.122	18.52	9.11	15.29	29.06	0
9/14/22 1:00	7.656	13.45	12.24	15.33	29.06	0
9/14/22 1:15	6.518	2.761	12.35	15.62	29.06	0
9/14/22 1:30	6.201	17.34	8.93	15.49	29.06	0
9/14/22 1:45	6.403	29.38	11.75	15.27	29.06	0
9/14/22 2:00	6.502	45.31	11.65	15.34	29.07	0
9/14/22 2:15	5.632	29.57	15.29	15.36	29.07	0
9/14/22 2:30	2.774	39.55	9.28	15.27	29.07	0
9/14/22 2:45	2.049	48.93	7.075	15.31	29.07	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/14/22 3:00	2.752	31.43	4.343	15.2	29.07	0
9/14/22 3:15	2.137	33.46	4.604	15.13	29.07	0
9/14/22 3:30	2.264	21.18	6.726	15.05	29.07	0
9/14/22 3:45	1.767	50.89	9.91	15	29.07	0
9/14/22 4:00	1.4	96.8	31.35	15.08	29.07	0
9/14/22 4:15	0.651	65.46	1.535	15.05	29.07	0
9/14/22 4:30	0.162	67.35	0	15.01	29.07	0
9/14/22 4:45	1.723	122.4	25.87	15.02	29.07	0
9/14/22 5:00	2.856	145.8	5.099	14.94	29.07	0
9/14/22 5:15	2.24	130.4	9.28	14.89	29.08	0
9/14/22 5:30	2.006	95	14.96	14.71	29.08	0
9/14/22 5:45	2.782	108.9	5.159	14.67	29.08	0
9/14/22 6:00	3.233	131.1	7.719	14.74	29.08	0
9/14/22 6:15	3.004	135	21.19	14.48	29.08	0
9/14/22 6:30	2.869	141.5	6.345	14.5	29.08	0
9/14/22 6:45	2.665	144.1	9.96	14.8	29.09	0
9/14/22 7:00	3.011	141.2	9.43	15.03	29.09	0
9/14/22 7:15	3.191	130.7	8.86	15.12	29.09	0
9/14/22 7:30	1.997	110.8	14.97	15.21	29.09	0
9/14/22 7:45	0.8	40.77	10.66	15.36	29.09	0
9/14/22 8:00	1.728	187.3	33.17	15.49	29.09	0
9/14/22 8:15	3.504	161	21.32	15.51	29.09	0
9/14/22 8:30	3.464	124.9	10.94	15.87	29.09	0
9/14/22 8:45	3.305	144.3	25.65	16.16	29.09	0
9/14/22 9:00	1.614	136.1	40.51	16.48	29.1	0
9/14/22 9:15	2.121	113.6	37.53	16.85	29.1	0
9/14/22 9:30	2.237	53.22	42.09	17.3	29.1	0
9/14/22 9:45	3.547	181.3	21.58	17.22	29.11	0
9/14/22 10:00	3.936	174.9	30.67	17.03	29.11	0
9/14/22 10:15	2.655	187.3	38.52	17.3	29.11	0
9/14/22 10:30	3.051	182.5	39.19	17.5	29.11	0
9/14/22 10:45	3.509	246	25.85	17.67	29.11	0
9/14/22 11:00	3.674	226.7	28.89	17.43	29.11	0
9/14/22 11:15	2.56	204.1	32.67	17.47	29.11	0
9/14/22 11:30	2.71	184.6	26.41	17.91	29.11	0
9/14/22 11:45	4.062	241.5	20.9	17.96	29.11	0
9/14/22 12:00	4.426	269.7	18.74	17.91	29.11	0
9/14/22 12:15	4.061	253	21.46	18.07	29.11	0
9/14/22 12:30	4.171	262.8	22.55	18.62	29.11	0
9/14/22 12:45	6.532	231.5	17.47	18.71	29.11	0
9/14/22 13:00	6.048	256.3	18.97	18.78	29.11	0
9/14/22 13:15	5.559	262	12.29	18.72	29.11	0
9/14/22 13:30	4.636	268.5	16.96	18.9	29.11	0
9/14/22 13:45	4.407	263.2	20.53	18.92	29.11	0
9/14/22 14:00	4.412	261.2	24.52	18.93	29.11	0
9/14/22 14:15	5.414	255.6	14.53	18.92	29.11	0
9/14/22 14:30	4.877	265.9	16.12	18.97	29.1	0
9/14/22 14:45	4.211	247.6	20.37	19.02	29.1	0
9/14/22 15:00	3.259	243.6	15.79	18.89	29.1	0
9/14/22 15:15	2.517	233.5	28.06	18.79	29.1	0
9/14/22 15:30	2.286	283.1	24.94	18.97	29.1	0
9/14/22 15:45	1.426	314.9	45.07	18.97	29.1	0
9/14/22 16:00	2.081	265.2	16.63	18.96	29.1	0
9/14/22 16:15	2.147	286.8	22.67	18.95	29.1	0
9/14/22 16:30	1.456	272.9	28.54	19.02	29.1	0
9/14/22 16:45	0.603	303.7	15.73	19.04	29.1	0
9/14/22 17:00	1.073	314.3	14.61	19	29.11	0
9/14/22 17:15	0.58	300	9.91	18.96	29.11	0
9/14/22 17:30	0.295	23.27	8.05	18.79	29.11	0
9/14/22 17:45	0	0	0	18.56	29.11	0
9/14/22 18:00	0	0	0	18.4	29.11	0
9/14/22 18:15	0.022	16.79	0.01	18.27	29.11	0
9/14/22 18:30	0.506	16.91	0.237	18.01	29.11	0
9/14/22 18:45	0.278	17.06	0.158	17.67	29.12	0
9/14/22 19:00	0.042	17.52	0.016	17.41	29.12	0
9/14/22 19:15	0.828	17.6	0.091	17.46	29.12	0
9/14/22 19:30	1.462	22.72	11.18	16.87	29.13	0
9/14/22 19:45	1.559	59.5	1.403	16.53	29.13	0
9/14/22 20:00	1.475	61.28	3.765	16.58	29.13	0
9/14/22 20:15	0.619	78.79	0.25	16.47	29.14	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
9/14/22 20:30	0.179	78.7	0.046	16.55	29.14	0
9/14/22 20:45	0.003	45.21	0.002	16.5	29.14	0
9/14/22 21:00	1.645	352.3	12.92	16.25	29.14	0
9/14/22 21:15	1.584	45.13	7.469	15.78	29.15	0
9/14/22 21:30	1.329	27.45	25.06	15.88	29.15	0
9/14/22 21:45	2.801	27.27	11.21	16	29.15	0
9/14/22 22:00	2.742	22.48	4.645	15.77	29.15	0
9/14/22 22:15	3.221	20.38	4.407	15.38	29.15	0
9/14/22 22:30	2.889	24.82	15.24	15.12	29.15	0
9/14/22 22:45	3.242	39.31	7.113	14.9	29.15	0
9/14/22 23:00	3.695	30.36	4.801	14.74	29.15	0
9/14/22 23:15	3.59	30.53	10.23	14.82	29.16	0
9/14/22 23:30	3.904	21.56	7.187	14.64	29.16	0
9/14/22 23:45	3.313	27.89	7.681	14.42	29.16	0
9/15/22 0:00	3.11	43.64	11.61	14.15	29.16	0
9/15/22 0:15	4.08	43.79	7.162	13.96	29.17	0
9/15/22 0:30	2.75	48.85	6.287	13.95	29.17	0
9/15/22 0:45	2.016	95.6	32.89	14.13	29.17	0
9/15/22 1:00	0.742	122	0.565	14.61	29.17	0
9/15/22 1:15	1.837	128.6	5.916	14.37	29.17	0
9/15/22 1:30	3.118	133.3	2.537	14.08	29.18	0
9/15/22 1:45	2.097	124	11.84	13.79	29.18	0
9/15/22 2:00	3.849	166.6	12.55	13.76	29.18	0
9/15/22 2:15	2.275	131.8	31.06	13.82	29.18	0
9/15/22 2:30	2.18	132.1	4.491	13.68	29.19	0
9/15/22 2:45	1.294	145.8	8.65	13.95	29.19	0
9/15/22 3:00	2.551	176.1	7.254	14.13	29.19	0
9/15/22 3:15	1.88	157.6	11.04	14.16	29.19	0
9/15/22 3:30	2.432	190.8	5.52	14.17	29.19	0
9/15/22 3:45	1.795	186.9	1.323	14.17	29.19	0
9/15/22 4:00	2.177	189.2	3.833	14.12	29.19	0
9/15/22 4:15	2.215	198.2	6.024	14.01	29.19	0
9/15/22 4:30	1.993	209	6.321	14.02	29.2	0
9/15/22 4:45	1.757	252.9	13.72	13.97	29.2	0
9/15/22 5:00	0.064	243.8	7.834	13.9	29.2	0
9/15/22 5:15	2.054	277	53.05	13.81	29.21	0
9/15/22 5:30	3.157	268.7	9.68	13.77	29.21	0
9/15/22 5:45	2.936	253.5	8.29	13.69	29.21	0
9/15/22 6:00	3.55	264	11.13	13.63	29.22	0
9/15/22 6:15	4.745	258.8	4.95	13.56	29.22	0
9/15/22 6:30	4.693	267	7.141	13.56	29.22	0
9/15/22 6:45	4.352	283.7	9.14	13.5	29.23	0
9/15/22 7:00	4.161	281.9	8.1	13.54	29.23	0
9/15/22 7:15	2.823	286.9	11.16	13.61	29.23	0
9/15/22 7:30	2.305	273.6	14.6	13.83	29.24	0
9/15/22 7:45	0.988	272.2	16.46	13.93	29.24	0
9/15/22 8:00	0.445	32.24	17.47	14.29	29.24	0
9/15/22 8:15	1.148	260.6	85.3	14.43	29.24	0
9/15/22 8:30	1.37	227.5	39.04	14.62	29.24	0
9/15/22 8:45	0.386	293.3	44.78	14.8	29.24	0
9/15/22 9:00	1.836	5.947	14.26	14.64	29.25	0
9/15/22 9:15	2.488	35.1	20.11	14.59	29.25	0
9/15/22 9:30	2.928	32.33	20.09	14.59	29.25	0
9/15/22 9:45	3.925	28.06	8.99	14.51	29.25	0
9/15/22 10:00	3.064	32.91	13.52	14.78	29.25	0
9/15/22 10:15	2.964	23.61	9.51	14.98	29.25	0
9/15/22 10:30	2.835	38.35	18.16	15.67	29.25	0
9/15/22 10:45	1.191	2.427	39.46	15.86	29.25	0
9/15/22 11:00	3.49	26.53	13.46	15.97	29.25	0
9/15/22 11:15	1.861	22.86	21.66	15.79	29.25	0
9/15/22 11:30	2.03	11.12	17.21	15.98	29.25	0
9/15/22 11:45	1.451	13.11	13.1	16.18	29.25	0
9/15/22 12:00	3.538	22.84	26.75	16.62	29.25	0
9/15/22 12:15	2.327	4.806	24.31	16.69	29.25	0
9/15/22 12:30	2.843	1.702	30.86	16.81	29.25	0
9/15/22 12:45	3.779	20.74	16.79	17.07	29.25	0
9/15/22 13:00	3.952	38.82	22.12	17.27	29.25	0
9/15/22 13:15	2.96	349.6	42.61	17.65	29.25	0
9/15/22 13:30	3.552	4.286	90.5	18.38	29.25	0
9/15/22 13:45	3.366	246.8	57.44	19.24	29.24	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
9/15/22 14:00	3.739	231.9	55.71	19.19	29.24	0
9/15/22 14:15	3.422	257.7	50.4	19.1	29.24	0
9/15/22 14:30	4.561	230.3	30.67	19.12	29.24	0
9/15/22 14:45	3.022	244.9	31.39	19.46	29.23	0
9/15/22 15:00	5.438	263.6	18.04	19.82	29.23	0
9/15/22 15:15	4.34	255.2	33.81	19.56	29.23	0
9/15/22 15:30	4.617	261.1	35.1	19.65	29.23	0
9/15/22 15:45	3.124	278.6	55.61	19.45	29.23	0
9/15/22 16:00	4.546	223.7	38.03	20.03	29.22	0
9/15/22 16:15	4.584	223.1	12.52	19.48	29.22	0
9/15/22 16:30	3.771	224	24.75	19.33	29.22	0
9/15/22 16:45	2.831	261.8	46.61	19.6	29.22	0
9/15/22 17:00	2.239	272.6	29.02	19.25	29.23	0
9/15/22 17:15	0.899	34.25	59.62	18.97	29.23	0
9/15/22 17:30	1.575	28.86	9.63	18.34	29.23	0
9/15/22 17:45	3.095	7.405	14.4	17.85	29.23	0
9/15/22 18:00	1.622	20.72	8.15	17.66	29.23	0
9/15/22 18:15	1.388	284.2	39.34	17.58	29.23	0
9/15/22 18:30	1.392	332.8	17.21	17.32	29.23	0
9/15/22 18:45	3.097	357.7	13.56	16.91	29.23	0
9/15/22 19:00	2.427	9.47	7.574	16.45	29.23	0
9/15/22 19:15	2.67	15.07	3.421	16.05	29.23	0
9/15/22 19:30	2.944	16.91	4.21	15.55	29.24	0
9/15/22 19:45	2.832	31.23	5.788	15.11	29.24	0
9/15/22 20:00	3.997	25.16	7.041	14.88	29.24	0
9/15/22 20:15	5.161	14.05	8.34	14.84	29.24	0
9/15/22 20:30	5.487	16.54	11.99	15.03	29.24	0
9/15/22 20:45	5.177	18.64	11.26	15.1	29.24	0
9/15/22 21:00	8.25	15.13	8.98	14.78	29.24	0
9/15/22 21:15	9.1	16.14	9.92	14.73	29.24	0
9/15/22 21:30	9.75	13.16	11.87	14.68	29.24	0
9/15/22 21:45	10.07	12.06	9.39	14.58	29.24	0
9/15/22 22:00	9.39	9.47	13.32	14.48	29.24	0
9/15/22 22:15	8.85	12.84	8.08	14.47	29.24	0
9/15/22 22:30	9.57	8.3	12.14	14.35	29.24	0
9/15/22 22:45	7.739	15.27	12.2	14.14	29.24	0
9/15/22 23:00	7.681	19.03	11.27	14.02	29.25	0
9/15/22 23:15	6.157	19.13	9.55	13.85	29.25	0
9/15/22 23:30	5.152	22.93	6.941	13.76	29.25	0
9/15/22 23:45	3.889	12.87	7.519	13.66	29.25	0
9/16/22 0:00	3.086	27.69	7.324	13.59	29.25	0
9/16/22 0:15	3.908	27.37	11.93	13.51	29.25	0
9/16/22 0:30	4.85	23.22	8.72	13.42	29.26	0
9/16/22 0:45	3.301	26.08	14.59	13.35	29.26	0
9/16/22 1:00	2.313	28.29	13.82	13.31	29.26	0
9/16/22 1:15	2.091	28.91	8.97	13.33	29.26	0
9/16/22 1:30	0.124	29.97	3.67	13.37	29.26	0
9/16/22 1:45	0.534	16.48	24.35	13.41	29.26	0
9/16/22 2:00	1.136	342.3	38.74	13.35	29.26	0
9/16/22 2:15	2.026	261.9	33.69	13.37	29.26	0
9/16/22 2:30	3.358	221	11.82	13.34	29.26	0
9/16/22 2:45	3.037	247.6	9.51	13.23	29.26	0
9/16/22 3:00	2.258	229.4	22.54	13.19	29.26	0
9/16/22 3:15	1.617	139	21.39	13.03	29.26	0
9/16/22 3:30	2.835	163.8	18.67	12.84	29.26	0
9/16/22 3:45	3.738	177.2	9.42	12.86	29.26	0
9/16/22 4:00	3.721	191.9	6.059	12.83	29.26	0
9/16/22 4:15	3.396	180	6.485	12.73	29.26	0
9/16/22 4:30	3.42	147.2	8.72	12.53	29.26	0
9/16/22 4:45	5.022	166.2	14.82	12.42	29.26	0
9/16/22 5:00	5.296	186.7	5.113	12.29	29.26	0
9/16/22 5:15	5.174	192.3	4.802	12.13	29.26	0
9/16/22 5:30	5.012	186.4	4.008	12.04	29.27	0
9/16/22 5:45	3.515	176.1	13.54	12	29.27	0
9/16/22 6:00	4.009	140.6	8.84	11.82	29.27	0
9/16/22 6:15	3.888	125.8	8.93	11.88	29.27	0
9/16/22 6:30	4.986	157.7	19.65	12.03	29.27	0
9/16/22 6:45	5.122	171.1	19.63	12.12	29.27	0
9/16/22 7:00	4.501	137.2	10	12.01	29.28	0
9/16/22 7:15	4.945	128.3	8.12	12.08	29.28	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
9/16/22 7:30	6.111	122.9	7.416	12.19	29.28	0
9/16/22 7:45	7.65	125.4	7.72	12.37	29.28	0
9/16/22 8:00	9.24	122.4	7.865	12.43	29.27	0
9/16/22 8:15	8.08	126.7	10.6	12.56	29.27	0
9/16/22 8:30	8.85	142.2	12.67	12.53	29.28	0
9/16/22 8:45	8.18	156	13.68	12.42	29.28	0
9/16/22 9:00	7.788	169.5	9.84	12.31	29.28	0
9/16/22 9:15	7.32	177	13.2	12.26	29.28	0
9/16/22 9:30	6.583	188.8	10.06	12.17	29.28	0
9/16/22 9:45	6.464	174	13.67	12.46	29.28	0
9/16/22 10:00	6.728	170.8	23.86	12.81	29.28	0
9/16/22 10:15	6.646	131.8	11.83	13.1	29.27	0
9/16/22 10:30	6.077	163.4	23.06	13.54	29.27	0
9/16/22 10:45	6.338	166.4	27.07	14.05	29.28	0
9/16/22 11:00	6.269	176.6	15.98	14.07	29.27	0
9/16/22 11:15	5.119	151.3	24.62	14.65	29.28	0
9/16/22 11:30	5.512	153.3	22.5	14.77	29.28	0
9/16/22 11:45	5.836	160.6	16.58	15.07	29.27	0
9/16/22 12:00	4.281	169.6	37.96	15.35	29.27	0
9/16/22 12:15	4.297	159.2	39.39	15.64	29.27	0
9/16/22 12:30	5.433	147.5	35.18	15.81	29.26	0
9/16/22 12:45	5.148	172.2	42.89	16.43	29.26	0
9/16/22 13:00	5.854	131.4	24.27	16.56	29.26	0
9/16/22 13:15	5.574	126.4	40.53	16.65	29.25	0
9/16/22 13:30	3.195	137	43.36	16.52	29.25	0
9/16/22 13:45	3.534	100.4	23.35	17.56	29.24	0
9/16/22 14:00	4.069	90.9	26.6	17.31	29.24	0
9/16/22 14:15	2.641	109.5	34.04	17.83	29.24	0
9/16/22 14:30	4.431	77.29	27.87	17.91	29.23	0
9/16/22 14:45	2.856	28.76	25.3	17.09	29.23	0
9/16/22 15:00	5.53	324.4	17.6	16.18	29.23	0
9/16/22 15:15	6.786	285.1	19.56	14.59	29.23	0.04
9/16/22 15:30	7.63	319.1	18.18	13.83	29.23	0.01
9/16/22 15:45	6.092	342.4	13.58	13.81	29.22	0
9/16/22 16:00	5.275	331.1	13.92	13.82	29.22	0
9/16/22 16:15	3.323	3.239	15.24	13.75	29.22	0
9/16/22 16:30	4.702	18.63	6.42	13.93	29.21	0
9/16/22 16:45	5.342	31.96	8.67	14.18	29.21	0
9/16/22 17:00	4.869	24.2	7.283	14.15	29.21	0
9/16/22 17:15	6.121	22.48	8.08	14.1	29.2	0
9/16/22 17:30	7.904	14.01	13.96	14.31	29.2	0
9/16/22 17:45	7.612	9.98	14.32	14.19	29.2	0
9/16/22 18:00	9.31	13.75	10.2	14.05	29.2	0
9/16/22 18:15	11.68	14.12	9.53	13.99	29.2	0
9/16/22 18:30	9.08	13.82	10.15	13.73	29.2	0
9/16/22 18:45	7.819	23.87	9.76	13.39	29.2	0
9/16/22 19:00	5.278	32.63	13.71	12.97	29.2	0
9/16/22 19:15	5.248	39.17	17.13	12.9	29.2	0
9/16/22 19:30	5.544	38.91	13.35	12.73	29.2	0
9/16/22 19:45	5.999	43.76	10.6	12.8	29.2	0
9/16/22 20:00	6.175	46.89	12.68	12.86	29.2	0
9/16/22 20:15	6.711	42.61	7.306	12.32	29.2	0
9/16/22 20:30	7.193	35.23	8.44	11.98	29.2	0
9/16/22 20:45	6.783	40.35	9.74	12.37	29.19	0
9/16/22 21:00	5.59	27.32	6.583	12.34	29.19	0
9/16/22 21:15	7.134	27.17	6.282	11.92	29.19	0
9/16/22 21:30	6.928	35.38	8.29	11.41	29.18	0
9/16/22 21:45	5.105	41.17	13.81	11.74	29.18	0
9/16/22 22:00	4.808	42.59	13.19	11.97	29.18	0
9/16/22 22:15	6.095	53.99	14.87	11.86	29.17	0
9/16/22 22:30	5.965	77.15	18.98	11.94	29.17	0
9/16/22 22:45	6.694	54.39	24.18	12.58	29.17	0
9/16/22 23:00	2.112	83.5	42.77	12.31	29.17	0
9/16/22 23:15	2.484	89.1	19.03	12.21	29.17	0
9/16/22 23:30	3.732	115.9	10.99	12.04	29.16	0
9/16/22 23:45	3.752	112.7	11.11	11.94	29.16	0
9/17/22 0:00	3.643	109.7	7.146	11.49	29.16	0
9/17/22 0:15	2.643	99.2	34.17	11.5	29.15	0
9/17/22 0:30	1.249	46.59	20.94	10.44	29.15	0
9/17/22 0:45	2.705	100.6	10.27	10.63	29.14	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
9/17/22 1:00	2.733	133.6	15.95	11.38	29.14	0
9/17/22 1:15	1.077	123.9	33.72	11.16	29.14	0
9/17/22 1:30	1.148	36.42	13.06	10.91	29.14	0
9/17/22 1:45	1.746	39.12	4.976	10.81	29.13	0
9/17/22 2:00	1.719	65.08	17.81	10.55	29.13	0
9/17/22 2:15	2.855	96.2	14.7	10.67	29.13	0
9/17/22 2:30	2.852	107.8	16.86	10.67	29.13	0
9/17/22 2:45	2.24	70.37	2.286	10.24	29.12	0
9/17/22 3:00	2.597	85.7	5.644	10.23	29.12	0
9/17/22 3:15	2.324	103.2	6.222	10.37	29.12	0
9/17/22 3:30	1.597	75.47	44.22	10.48	29.12	0
9/17/22 3:45	0.281	19.15	7.382	10.15	29.12	0
9/17/22 4:00	0.658	41.06	0.545	9.88	29.11	0
9/17/22 4:15	2.413	31.48	8.34	9.71	29.11	0
9/17/22 4:30	2.956	21.26	12.74	9.79	29.1	0
9/17/22 4:45	1.285	4.723	10.29	10.2	29.1	0
9/17/22 5:00	3.823	11.02	6.107	10.35	29.09	0
9/17/22 5:15	3.429	12.11	7.017	9.88	29.09	0
9/17/22 5:30	4.873	14.56	8.16	9.45	29.09	0
9/17/22 5:45	7.055	12.74	5.427	9.36	29.09	0
9/17/22 6:00	6.979	11.28	6.23	9.28	29.09	0
9/17/22 6:15	6.68	2.124	11	9.43	29.09	0
9/17/22 6:30	8.28	2.688	10.99	9.57	29.09	0
9/17/22 6:45	10.33	5.186	8.19	9.82	29.09	0
9/17/22 7:00	8.99	9.19	5.098	9.85	29.08	0
9/17/22 7:15	10.23	5.585	11.82	10.14	29.08	0
9/17/22 7:30	9.6	4.649	10.15	10.35	29.08	0
9/17/22 7:45	8.81	357.9	14.6	10.55	29.08	0
9/17/22 8:00	3.605	38.4	23.07	10.36	29.08	0
9/17/22 8:15	2.322	14.27	24.57	10.98	29.07	0
9/17/22 8:30	3.307	1.93	15.04	11.81	29.07	0
9/17/22 8:45	5.206	9.95	16.47	12.34	29.06	0
9/17/22 9:00	3.986	339.9	19.31	12.89	29.06	0
9/17/22 9:15	4.656	1.407	25.83	13.24	29.05	0
9/17/22 9:30	5.87	13.42	15.88	13.72	29.05	0
9/17/22 9:45	7.277	5.058	17.16	13.98	29.05	0
9/17/22 10:00	7.317	20.48	11.73	14.21	29.04	0
9/17/22 10:15	6.306	10.18	20.57	14.37	29.04	0
9/17/22 10:30	5.64	8.55	18.19	14.86	29.03	0
9/17/22 10:45	7.905	6.577	15.44	14.82	29.03	0
9/17/22 11:00	7.063	11.28	13.35	14.63	29.03	0
9/17/22 11:15	7.886	6.104	18.85	14.85	29.03	0
9/17/22 11:30	8.64	3.889	14.43	15.06	29.02	0
9/17/22 11:45	7.281	1.39	19.73	16.13	29.02	0
9/17/22 12:00	10.12	15.64	17.28	16.68	29.01	0
9/17/22 12:15	9.98	17.82	13.48	16.72	29.01	0
9/17/22 12:30	9.51	17.76	11.42	16.81	29.01	0
9/17/22 12:45	10.05	11.13	14.48	16.93	29	0
9/17/22 13:00	9.05	4.88	13.34	16.93	29	0
9/17/22 13:15	9.1	353.8	18.79	17.18	28.99	0
9/17/22 13:30	11.31	341.3	12.89	17.42	28.99	0
9/17/22 13:45	10.35	349	14.58	17.28	28.99	0
9/17/22 14:00	8.25	348.3	21.68	17.65	28.98	0
9/17/22 14:15	10.25	348.5	17.36	17.59	28.98	0
9/17/22 14:30	9.52	348.6	17.62	17.86	28.98	0
9/17/22 14:45	9.39	355.9	19.92	18.23	28.97	0
9/17/22 15:00	10.24	349	13.86	17.98	28.96	0
9/17/22 15:15	10.16	338.5	14.08	17.67	28.96	0
9/17/22 15:30	9.92	347.8	16.33	17.37	28.96	0
9/17/22 15:45	10.24	351.3	16.3	17.25	28.95	0
9/17/22 16:00	10.55	354.2	15.15	17.26	28.95	0
9/17/22 16:15	10.18	357.9	17.61	17.08	28.95	0
9/17/22 16:30	11.13	349	16.78	17.04	28.94	0
9/17/22 16:45	7.329	345.5	20.49	16.88	28.94	0
9/17/22 17:00	3.969	340.9	38.74	16.81	28.94	0
9/17/22 17:15	2.994	304.6	32.9	16.93	28.94	0
9/17/22 17:30	4.238	322	28.11	16.62	28.94	0
9/17/22 17:45	4.392	335.4	32.26	16.03	28.94	0
9/17/22 18:00	2.129	345.1	39.7	15.6	28.94	0
9/17/22 18:15	3.794	323.8	45.59	15.18	28.95	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
9/17/22 18:30	6.515	350.8	24.8	14.77	28.95	0
9/17/22 18:45	5.663	0.762	21.99	14.56	28.95	0
9/17/22 19:00	7.075	7.461	18.87	14.2	28.95	0
9/17/22 19:15	7.331	12.4	15.4	13.94	28.95	0
9/17/22 19:30	8.53	358.6	18.32	13.73	28.95	0
9/17/22 19:45	10.54	2.85	15.65	13.58	28.95	0
9/17/22 20:00	8.62	11.72	16.62	13.3	28.95	0
9/17/22 20:15	11.01	7.379	14.16	13.15	28.95	0
9/17/22 20:30	12.78	8.46	10.33	13.04	28.95	0
9/17/22 20:45	12.83	8.53	11.13	13.04	28.95	0
9/17/22 21:00	13.77	6.195	11.97	13.05	28.95	0
9/17/22 21:15	13.28	6.52	14.21	13	28.95	0
9/17/22 21:30	12.72	11.96	10.83	12.98	28.95	0
9/17/22 21:45	14.05	19.37	7.971	12.95	28.95	0
9/17/22 22:00	12.57	15.65	9.53	12.79	28.96	0
9/17/22 22:15	11.98	0.324	14.48	12.65	28.95	0
9/17/22 22:30	13.37	10.72	11.1	12.53	28.95	0
9/17/22 22:45	10.72	12.14	8.65	12.27	28.96	0
9/17/22 23:00	10.16	14.97	10.76	12.31	28.96	0
9/17/22 23:15	8.75	20.23	10.69	12.17	28.96	0
9/17/22 23:30	8.61	21.72	9.47	11.81	28.96	0
9/17/22 23:45	8.31	16.39	10.29	11.9	28.96	0
9/18/22 0:00	7.98	21.97	7.491	11.65	28.96	0
9/18/22 0:15	7.574	21.02	9.37	11.32	28.96	0
9/18/22 0:30	7.293	14.89	8.22	11.18	28.96	0
9/18/22 0:45	6.55	16.14	11.65	11.07	28.95	0
9/18/22 1:00	5.836	9.18	11.31	11.14	28.95	0
9/18/22 1:15	6.704	12.13	12.91	11.41	28.96	0
9/18/22 1:30	9.03	22.31	12.02	11.22	28.96	0
9/18/22 1:45	9.72	30.96	11.75	11.25	28.96	0
9/18/22 2:00	9.01	16.44	10.07	11.12	28.96	0
9/18/22 2:15	6.948	13.36	9.17	11.06	28.96	0
9/18/22 2:30	4.485	7.376	7.959	10.98	28.96	0
9/18/22 2:45	7.056	7.681	14.59	11.01	28.95	0
9/18/22 3:00	4.675	334.1	14.8	10.98	28.93	0
9/18/22 3:15	5.508	356.5	20.89	11.23	28.93	0
9/18/22 3:30	4.451	4.318	50.39	11.43	28.94	0
9/18/22 3:45	7.93	354.5	15	11.07	28.93	0
9/18/22 4:00	3.416	356.2	24.62	10.99	28.94	0
9/18/22 4:15	6.517	23.03	10.86	10.89	28.94	0
9/18/22 4:30	5.676	359.8	14.04	10.91	28.94	0
9/18/22 4:45	3.702	20.23	13.8	11.09	28.94	0
9/18/22 5:00	8.83	20.3	10.55	11.07	28.93	0
9/18/22 5:15	10.35	20.87	10.54	10.85	28.94	0
9/18/22 5:30	6.612	6.272	13.72	10.52	28.94	0
9/18/22 5:45	2.534	352.4	36.97	10.23	28.94	0
9/18/22 6:00	8.08	16.68	11.91	10.92	28.94	0
9/18/22 6:15	10.46	18.05	10.49	10.83	28.94	0
9/18/22 6:30	7.817	20.35	14.45	11.25	28.95	0
9/18/22 6:45	4.544	44.8	16.34	11.12	28.96	0
9/18/22 7:00	10.59	21.07	9.29	10.63	28.97	0
9/18/22 7:15	12.09	19.09	10.13	11.14	28.97	0
9/18/22 7:30	12.02	6.729	13.82	12.21	28.97	0
9/18/22 7:45	12.37	8.36	16.75	12.79	28.97	0
9/18/22 8:00	13.9	3.963	16.57	13.06	28.97	0
9/18/22 8:15	15.04	10.45	13.28	13.23	28.97	0
9/18/22 8:30	16.45	9.22	13.99	13.43	28.97	0
9/18/22 8:45	15.82	4.898	13.67	13.58	28.97	0
9/18/22 9:00	12.81	8.77	14.42	14.29	28.97	0
9/18/22 9:15	13.06	12.49	12.67	14.44	28.97	0
9/18/22 9:30	11.67	11.66	14.82	14.78	28.97	0
9/18/22 9:45	10.63	17.8	10.87	15.34	28.97	0
9/18/22 10:00	10.29	19.85	10.83	15.56	28.97	0
9/18/22 10:15	10.75	17.15	11.97	15.97	28.97	0
9/18/22 10:30	9.83	16.53	10.82	16.4	28.97	0
9/18/22 10:45	8.14	12.95	14.12	17.24	28.97	0
9/18/22 11:00	10.67	18.58	11.08	17.25	28.97	0
9/18/22 11:15	11.31	20.51	10.98	17.72	28.97	0
9/18/22 11:30	10.96	13.67	12.2	17.98	28.97	0
9/18/22 11:45	11.01	20.09	11.18	18.44	28.97	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
9/18/22 12:00	9.57	12.82	14.82	18.77	28.97	0
9/18/22 12:15	10.25	0.454	14.81	19.16	28.97	0
9/18/22 12:30	11.4	9.32	13.75	19.45	28.96	0
9/18/22 12:45	10.36	11.86	13.34	19.74	28.96	0
9/18/22 13:00	9.67	25.28	14.51	19.95	28.96	0
9/18/22 13:15	10.12	17.49	11.59	20.11	28.96	0
9/18/22 13:30	9.63	1.834	17.28	20.4	28.95	0
9/18/22 13:45	11.65	350.6	15.35	21.09	28.94	0
9/18/22 14:00	10.07	357.7	16.28	21.32	28.94	0
9/18/22 14:15	9.84	3.33	11.68	21.54	28.94	0
9/18/22 14:30	9.62	17.94	10.01	21.7	28.94	0
9/18/22 14:45	8.7	7.902	16.01	21.61	28.93	0
9/18/22 15:00	9.12	10.46	15.97	21.89	28.93	0
9/18/22 15:15	7.865	10.05	15.68	22.27	28.93	0
9/18/22 15:30	4.96	350.4	28.57	22.26	28.93	0
9/18/22 15:45	8.4	312.3	15.83	22.42	28.93	0
9/18/22 16:00	8.25	309.5	10.25	22.12	28.93	0
9/18/22 16:15	7.446	334.5	19.69	21.81	28.93	0
9/18/22 16:30	4.93	333.6	21.59	22.04	28.93	0
9/18/22 16:45	3.687	341.8	20.96	21.83	28.93	0
9/18/22 17:00	4.771	336.6	15.08	21.64	28.93	0
9/18/22 17:15	4.087	358.1	36.71	21.21	28.93	0
9/18/22 17:30	5.253	14.46	17.8	20.41	28.94	0
9/18/22 17:45	6.736	11.4	11.16	19.94	28.94	0
9/18/22 18:00	6.107	6.131	8.55	19.53	28.94	0
9/18/22 18:15	5.021	6.035	9.72	18.97	28.94	0
9/18/22 18:30	4.803	336.8	10.92	18.78	28.94	0
9/18/22 18:45	4.878	331.2	9.35	18.67	28.94	0
9/18/22 19:00	4.823	327.8	5.522	18.26	28.95	0
9/18/22 19:15	4.971	333.9	7.488	17.92	28.95	0
9/18/22 19:30	4.883	3.664	7.843	16.95	28.95	0
9/18/22 19:45	5.955	345.9	7.255	17.13	28.95	0
9/18/22 20:00	6.494	339.9	4.08	16.56	28.95	0
9/18/22 20:15	6.247	359.5	13.66	15.85	28.96	0
9/18/22 20:30	7.887	10.48	9.1	15.3	28.96	0
9/18/22 20:45	5.684	17.88	16.58	15.6	28.96	0
9/18/22 21:00	8.33	23.31	7.606	15.36	28.97	0
9/18/22 21:15	6.284	24.47	7.364	15.12	28.97	0
9/18/22 21:30	4.715	349	22.76	15.27	28.97	0
9/18/22 21:45	5.401	7.014	18.64	15.95	28.97	0
9/18/22 22:00	7.059	17.92	7.312	14.71	28.97	0
9/18/22 22:15	7.431	20.99	6.677	14.51	28.98	0
9/18/22 22:30	4.559	53.51	16.12	14.19	28.98	0
9/18/22 22:45	4.998	96.7	18.9	14.31	28.98	0
9/18/22 23:00	4.583	138.9	4.546	15.04	28.98	0
9/18/22 23:15	1.179	79.78	46.01	15.93	28.98	0
9/18/22 23:30	3.106	14.21	13.21	14.29	28.98	0
9/18/22 23:45	2.472	50.57	9.79	14.79	28.98	0
9/19/22 0:00	3.542	19.29	3.318	14.85	28.98	0
9/19/22 0:15	2.733	38.47	14.69	14.66	28.98	0
9/19/22 0:30	2.078	98.6	16.48	14.57	28.98	0
9/19/22 0:45	1.984	135.2	20.6	14.44	28.98	0
9/19/22 1:00	1.559	140.8	12.83	13.43	28.98	0
9/19/22 1:15	2.947	131.5	15.65	14.3	28.98	0
9/19/22 1:30	0.864	90.7	5.582	13.97	28.99	0
9/19/22 1:45	0.43	143.5	30.79	13.81	28.99	0
9/19/22 2:00	0.416	303.6	12.64	13.78	28.99	0
9/19/22 2:15	0.95	323.6	2.079	13.78	29	0
9/19/22 2:30	1.47	325.8	3.275	13.67	28.99	0
9/19/22 2:45	0.01	340.2	0.125	13.68	28.99	0
9/19/22 3:00	0	0	0	13.7	28.99	0
9/19/22 3:15	0.576	340	0.325	13.32	29	0
9/19/22 3:30	1.066	180.4	59.24	13.29	28.99	0
9/19/22 3:45	1.468	159.2	11.09	13.56	29	0
9/19/22 4:00	1.223	120.8	26.6	13.19	29	0
9/19/22 4:15	0.561	55.25	3.594	12.87	29	0
9/19/22 4:30	0.284	40.89	0.357	12.87	29	0
9/19/22 4:45	0.894	28.53	3.202	13.12	29	0
9/19/22 5:00	1.61	24.66	5.282	13.15	29	0
9/19/22 5:15	2.156	22.7	4.112	12.33	29	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
9/19/22 5:30	0.767	19.13	4.546	12.93	29	0
9/19/22 5:45	1.308	45.92	7.427	12.92	29.01	0
9/19/22 6:00	1.953	51.12	12.63	12.71	29.01	0
9/19/22 6:15	3.331	36.41	8.14	11.81	29.01	0
9/19/22 6:30	3.051	38.08	3.72	11.76	29.02	0
9/19/22 6:45	1.813	345.9	57.48	11.58	29.02	0
9/19/22 7:00	1.898	275.2	24.97	13.27	29.02	0
9/19/22 7:15	2.047	15.54	13.38	13.09	29.03	0
9/19/22 7:30	2.093	54.39	13.58	13.24	29.03	0
9/19/22 7:45	1.447	43.44	16.85	13.44	29.03	0
9/19/22 8:00	2.655	27.2	8.3	13.71	29.03	0
9/19/22 8:15	3.463	48.71	10.71	14.35	29.04	0
9/19/22 8:30	3.6	64.19	14.61	15.02	29.04	0
9/19/22 8:45	4.343	20.62	17.5	15.57	29.03	0
9/19/22 9:00	4.103	9.63	23.82	16.1	29.03	0
9/19/22 9:15	2.772	24.54	16.75	17.08	29.03	0
9/19/22 9:30	2.093	18.28	17.43	17.59	29.03	0
9/19/22 9:45	2.666	36.7	33.09	18.33	29.04	0
9/19/22 10:00	2.249	22.03	30.72	18.63	29.04	0
9/19/22 10:15	2.825	358.7	30.75	19.24	29.04	0
9/19/22 10:30	3.436	283.3	26.04	20.04	29.04	0
9/19/22 10:45	4.764	344.8	40.18	20.31	29.04	0
9/19/22 11:00	4.636	23.73	20.03	20.46	29.04	0
9/19/22 11:15	5.247	32.02	29.27	20.71	29.04	0
9/19/22 11:30	4.153	356.1	67	20.85	29.04	0
9/19/22 11:45	3.016	327.5	73.63	21.2	29.04	0
9/19/22 12:00	4.274	330.4	37.87	21.97	29.04	0
9/19/22 12:15	4.547	342.9	33.31	22.6	29.04	0
9/19/22 12:30	5.508	337.5	28.11	23	29.04	0
9/19/22 12:45	8.03	18.71	13.09	22.79	29.04	0
9/19/22 13:00	7.952	21.87	20.02	22.89	29.04	0
9/19/22 13:15	4.565	293.9	25.77	23.26	29.03	0
9/19/22 13:30	6.783	302.1	23.25	23.71	29.03	0
9/19/22 13:45	6.877	328.5	29.1	23.8	29.03	0
9/19/22 14:00	6.893	325.6	22.15	23.99	29.03	0
9/19/22 14:15	7.219	353.6	22.71	24.1	29.03	0
9/19/22 14:30	9.32	15.99	16.23	23.74	29.03	0
9/19/22 14:45	10.93	9.73	12.69	23.78	29.03	0
9/19/22 15:00	10.78	5.713	13.14	23.62	29.03	0
9/19/22 15:15	10.67	2.623	15.44	23.73	29.03	0
9/19/22 15:30	9.73	7.146	14.38	23.79	29.03	0
9/19/22 15:45	6.567	340.1	21.93	24.02	29.03	0
9/19/22 16:00	5.569	312	16.18	24.3	29.04	0
9/19/22 16:15	6.438	316.8	14.94	24.17	29.04	0
9/19/22 16:30	6.718	324.3	17.39	23.92	29.04	0
9/19/22 16:45	6.955	305.9	11.96	23.65	29.04	0
9/19/22 17:00	6.691	307.6	16.84	23.44	29.04	0
9/19/22 17:15	7.841	329.8	17.88	23.05	29.04	0
9/19/22 17:30	9.05	350.4	15.06	22.57	29.05	0
9/19/22 17:45	7.813	347.7	14.11	22.07	29.05	0
9/19/22 18:00	8.71	5.55	19.07	21.34	29.05	0
9/19/22 18:15	7.764	6.484	31.03	20.83	29.06	0
9/19/22 18:30	7.739	21.58	19.35	20.19	29.07	0
9/19/22 18:45	10.73	20.89	8.57	19.97	29.07	0
9/19/22 19:00	10.9	14.26	10.82	19.76	29.07	0
9/19/22 19:15	9.87	13.28	11.14	19.53	29.08	0
9/19/22 19:30	9.5	12.27	10.07	19.11	29.09	0
9/19/22 19:45	9.24	14.25	10.95	18.66	29.09	0
9/19/22 20:00	8.94	16.82	10.86	18.61	29.1	0
9/19/22 20:15	8.43	25.74	11.62	18.04	29.1	0
9/19/22 20:30	10.68	17.86	13.08	18	29.1	0
9/19/22 20:45	12.75	15.46	9.35	17.81	29.11	0
9/19/22 21:00	12.56	358.8	14.49	17.77	29.11	0
9/19/22 21:15	9.68	357.8	16.2	17.62	29.11	0
9/19/22 21:30	7.539	8.32	16.24	17.16	29.12	0
9/19/22 21:45	6.313	13.41	13.23	16.78	29.12	0
9/19/22 22:00	5.754	5.501	18.78	16.32	29.12	0
9/19/22 22:15	6.124	2.968	12.87	15.42	29.13	0
9/19/22 22:30	5.219	13.89	10.43	14.89	29.13	0
9/19/22 22:45	5.063	14.73	7.33	14.73	29.13	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
9/19/22 23:00	6.302	19.85	7.68	14.57	29.13	0
9/19/22 23:15	8.71	15.85	12.42	13.94	29.12	0
9/19/22 23:30	5.872	4.566	14.64	13.88	29.13	0
9/19/22 23:45	7.339	12.87	14.88	13.82	29.12	0
9/20/22 0:00	7.994	26	10.86	13.67	29.12	0
9/20/22 0:15	5.616	28.95	5.757	12.82	29.13	0
9/20/22 0:30	3.427	45.67	9.2	12.64	29.13	0
9/20/22 0:45	5.034	37.71	12.66	14.35	29.13	0
9/20/22 1:00	6.292	11.79	9.74	13.42	29.13	0
9/20/22 1:15	6.555	358.9	12.68	12.82	29.13	0
9/20/22 1:30	6.359	347.9	10.58	13.61	29.13	0
9/20/22 1:45	4.103	19.85	36.45	13.62	29.12	0
9/20/22 2:00	3.837	51.43	21.56	11.86	29.13	0
9/20/22 2:15	7.35	32.17	7.737	11.64	29.13	0
9/20/22 2:30	7.801	23.56	7.389	12.39	29.13	0
9/20/22 2:45	6.546	38.54	9.43	11.42	29.13	0
9/20/22 3:00	6.687	29.57	10.08	11.21	29.13	0
9/20/22 3:15	6.558	18.22	8.93	10.98	29.13	0
9/20/22 3:30	8.04	23.18	8.11	11.25	29.13	0
9/20/22 3:45	6.039	25.9	8.99	10.34	29.13	0
9/20/22 4:00	4.399	14.9	9.25	10.56	29.13	0
9/20/22 4:15	4.5	14.59	8.23	10.8	29.13	0
9/20/22 4:30	4.426	24	6.882	10.77	29.13	0
9/20/22 4:45	6.626	18.63	9.49	10.21	29.13	0
9/20/22 5:00	6.976	14.92	9.15	9.88	29.13	0
9/20/22 5:15	6.333	17.19	9.59	10	29.13	0
9/20/22 5:30	6.859	22.94	9.69	9.94	29.13	0
9/20/22 5:45	9.46	16.37	9.89	10.3	29.13	0
9/20/22 6:00	10.55	13.39	10.44	10.71	29.13	0
9/20/22 6:15	10.44	14.65	9.53	10.93	29.14	0
9/20/22 6:30	10.69	16.7	10.28	11.37	29.14	0
9/20/22 6:45	11.23	18.96	9.37	11.64	29.14	0
9/20/22 7:00	11.88	18.08	11.37	12.25	29.15	0
9/20/22 7:15	12.36	17.88	9.09	13.19	29.15	0
9/20/22 7:30	12.12	19.59	11.11	13.54	29.15	0
9/20/22 7:45	11.78	17.18	10.45	13.96	29.15	0
9/20/22 8:00	9.45	16.41	10.63	14.3	29.16	0
9/20/22 8:15	8.09	16.96	10.06	14.77	29.16	0
9/20/22 8:30	5.945	18.2	8.58	15.43	29.16	0
9/20/22 8:45	5.138	23.88	11.28	16.02	29.16	0
9/20/22 9:00	4.108	29.25	11.72	16.54	29.16	0
9/20/22 9:15	4.201	25.02	17.49	17.03	29.16	0
9/20/22 9:30	3.206	40.72	21.56	18.13	29.17	0
9/20/22 9:45	4.508	35.46	15.22	18.46	29.17	0
9/20/22 10:00	4.411	29.38	20.78	18.91	29.17	0
9/20/22 10:15	5.855	29.22	9.37	18.88	29.16	0
9/20/22 10:30	7.342	24.77	11.02	19.39	29.16	0
9/20/22 10:45	7.3	16.42	9.81	19.91	29.16	0
9/20/22 11:00	8.14	19.37	8.63	20.24	29.16	0
9/20/22 11:15	9.03	21.44	11.27	20.76	29.15	0
9/20/22 11:30	10.39	18.09	9.34	21.05	29.15	0
9/20/22 11:45	11.02	16.42	10.39	21.59	29.15	0
9/20/22 12:00	12.55	17.81	8.26	22.1	29.14	0
9/20/22 12:15	12.74	11.63	14.65	22.58	29.14	0
9/20/22 12:30	11.8	8.36	14.76	23.16	29.14	0
9/20/22 12:45	11.46	7.657	17.01	23.58	29.13	0
9/20/22 13:00	12.37	9.53	17.78	23.96	29.13	0
9/20/22 13:15	12.71	3.132	18.32	24.01	29.13	0
9/20/22 13:30	11.78	3.437	15.06	24.37	29.13	0
9/20/22 13:45	10.76	5.708	16.78	24.75	29.13	0
9/20/22 14:00	12.14	4.967	17.22	24.56	29.13	0
9/20/22 14:15	10.35	2.063	18.28	24.74	29.12	0
9/20/22 14:30	9.49	348.8	18.88	25.15	29.12	0
9/20/22 14:45	11.78	338	14.73	25.07	29.12	0
9/20/22 15:00	9.9	348.3	16.7	25.05	29.12	0
9/20/22 15:15	11.34	342.7	16.08	25.03	29.12	0
9/20/22 15:30	11.26	343.7	14.68	24.87	29.12	0
9/20/22 15:45	9.86	336.6	15.02	24.83	29.12	0
9/20/22 16:00	10.41	345.8	16.7	24.71	29.12	0
9/20/22 16:15	11.42	336	19.2	24.42	29.12	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
9/20/22 16:30	11.64	333	14.75	24.1	29.12	0
9/20/22 16:45	12.81	327.6	10.97	23.76	29.12	0
9/20/22 17:00	10.49	331.4	16.31	23.46	29.13	0
9/20/22 17:15	7.988	320.6	14.76	23.25	29.13	0
9/20/22 17:30	4.831	300.1	21.27	23.05	29.13	0
9/20/22 17:45	6.046	333.8	19.39	22.47	29.13	0
9/20/22 18:00	4.795	353.1	19.16	21.97	29.14	0
9/20/22 18:15	5.751	358.4	11.88	21.1	29.14	0
9/20/22 18:30	4.567	359.3	14.81	20.94	29.14	0
9/20/22 18:45	3.774	5.928	17.57	20.74	29.14	0
9/20/22 19:00	5.207	38.6	12.95	20.22	29.14	0
9/20/22 19:15	7.438	31.95	12.94	19.71	29.15	0
9/20/22 19:30	10.23	11.69	9.49	19.46	29.15	0
9/20/22 19:45	10.07	16.39	12	19.13	29.15	0
9/20/22 20:00	10.91	20.19	7.312	18.6	29.15	0
9/20/22 20:15	9.9	23.47	10.44	18.31	29.15	0
9/20/22 20:30	9.31	30.15	13.1	18.21	29.15	0
9/20/22 20:45	8.91	26.5	11.92	17.94	29.15	0
9/20/22 21:00	7.446	25.94	10.07	17.46	29.15	0
9/20/22 21:15	6.411	21.97	8.33	17.14	29.16	0
9/20/22 21:30	6.747	16.52	9.46	16.67	29.16	0
9/20/22 21:45	6.359	11.37	7.065	16.49	29.16	0
9/20/22 22:00	6.769	10.77	9.73	16.01	29.16	0
9/20/22 22:15	5.71	2.048	11.62	16	29.16	0
9/20/22 22:30	5.028	4.12	9.56	15.97	29.16	0
9/20/22 22:45	4.181	1.542	11.24	15.41	29.16	0
9/20/22 23:00	3.699	6.856	14.62	15.62	29.16	0
9/20/22 23:15	4.241	3.584	14.47	15.11	29.16	0
9/20/22 23:30	3.926	9.55	7.18	15.15	29.16	0
9/20/22 23:45	5.439	13.42	11.96	14.93	29.16	0
9/21/22 0:00	5.822	21.59	9.83	14.04	29.17	0
9/21/22 0:15	6.368	24.01	11.36	13.33	29.16	0
9/21/22 0:30	5.926	19.26	9.53	13.05	29.16	0
9/21/22 0:45	5.885	6.69	8.92	13.65	29.16	0
9/21/22 1:00	5.543	2.594	8.39	14.52	29.16	0
9/21/22 1:15	5.492	9.69	11.74	14.28	29.15	0
9/21/22 1:30	5.798	14.83	11.5	12.32	29.15	0
9/21/22 1:45	5.641	20.75	8.11	11.28	29.15	0
9/21/22 2:00	7.062	25.7	8.87	10.91	29.16	0
9/21/22 2:15	7.043	19.05	10.54	11.05	29.15	0
9/21/22 2:30	7.46	16.46	11.91	11.18	29.15	0
9/21/22 2:45	8.41	17.8	10.55	11.42	29.15	0
9/21/22 3:00	6.934	21.71	9.58	11.11	29.15	0
9/21/22 3:15	7.802	22.13	10.38	11.25	29.15	0
9/21/22 3:30	7.608	15.47	9.67	11.18	29.15	0
9/21/22 3:45	8.3	15.2	8.01	11.46	29.14	0
9/21/22 4:00	5.847	19.73	13.98	11.58	29.15	0
9/21/22 4:15	3.336	48.38	40.29	10.96	29.15	0
9/21/22 4:30	3.599	58.24	23.38	11.11	29.15	0
9/21/22 4:45	5.46	7.622	9.78	11.29	29.15	0
9/21/22 5:00	6.465	0.273	10.73	12.43	29.14	0
9/21/22 5:15	3.897	4.227	7.125	13.01	29.14	0
9/21/22 5:30	3.35	7.176	12.07	13.23	29.14	0
9/21/22 5:45	1.297	46.19	48.24	11.85	29.14	0
9/21/22 6:00	1.939	37.02	19.58	11.72	29.14	0
9/21/22 6:15	4.14	3.134	10.89	10.99	29.15	0
9/21/22 6:30	3.756	342.3	9.74	12.72	29.14	0
9/21/22 6:45	3.042	13.85	15.21	12.52	29.14	0
9/21/22 7:00	1.967	26.92	13.82	13.27	29.14	0
9/21/22 7:15	1.828	358.9	25.92	14.64	29.14	0
9/21/22 7:30	1.144	57.64	8.71	15.27	29.14	0
9/21/22 7:45	0.335	25.34	16.63	16.27	29.14	0
9/21/22 8:00	1.625	201.5	27.57	16.14	29.14	0
9/21/22 8:15	2.054	245.5	11.82	15.98	29.14	0
9/21/22 8:30	1.929	323.1	65.57	17.14	29.14	0
9/21/22 8:45	2.295	297.8	17.14	17.33	29.14	0
9/21/22 9:00	2.119	237.3	54.02	17.87	29.14	0
9/21/22 9:15	0.902	247	43.15	18.53	29.13	0
9/21/22 9:30	3.668	293.7	13.79	18.79	29.13	0
9/21/22 9:45	3.218	303.6	17.76	19.02	29.13	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
9/21/22 10:00	2.465	284	30	19.46	29.13	0
9/21/22 10:15	2.405	272.4	21.08	19.59	29.12	0
9/21/22 10:30	3.594	299.2	17.45	20.31	29.12	0
9/21/22 10:45	3.862	300.6	24.69	20.5	29.11	0
9/21/22 11:00	2.895	278.4	32.55	21.1	29.11	0
9/21/22 11:15	4.854	253.3	26.73	21.33	29.11	0
9/21/22 11:30	5.655	252.5	17.39	21.57	29.11	0
9/21/22 11:45	6.414	265.2	14.86	21.78	29.1	0
9/21/22 12:00	6.816	272.2	14.48	22.08	29.1	0
9/21/22 12:15	6.257	262.5	15.94	22.27	29.1	0
9/21/22 12:30	6.531	272	21.34	22.81	29.1	0
9/21/22 12:45	7.347	256.9	15.93	23.11	29.09	0
9/21/22 13:00	6.063	266.5	21.3	23.08	29.09	0
9/21/22 13:15	7.932	252.5	12.79	23.38	29.09	0
9/21/22 13:30	8.19	256.1	12.08	23.61	29.08	0
9/21/22 13:45	6.158	279.4	32.73	23.95	29.08	0
9/21/22 14:00	7.203	270.5	16.13	24.18	29.08	0
9/21/22 14:15	7.016	283.8	18.01	24.45	29.08	0
9/21/22 14:30	6.608	267.8	19.55	24.18	29.08	0
9/21/22 14:45	5.453	283.1	40.17	24.45	29.07	0
9/21/22 15:00	5.784	338	31.2	24.42	29.07	0
9/21/22 15:15	4.319	15.25	40.83	24.25	29.07	0
9/21/22 15:30	5.17	313.9	44.1	24.65	29.07	0
9/21/22 15:45	6.095	275.4	28.11	24.49	29.07	0
9/21/22 16:00	8.46	264.2	8.29	23.46	29.07	0
9/21/22 16:15	7.868	267.3	9.87	23.55	29.07	0
9/21/22 16:30	8.39	285.1	9.4	23.76	29.06	0
9/21/22 16:45	9.93	283.9	8.62	23.27	29.06	0
9/21/22 17:00	9.28	287.1	7.431	23.06	29.06	0
9/21/22 17:15	5.004	303.3	11.21	22.85	29.06	0
9/21/22 17:30	3.242	314.6	5.667	22.67	29.07	0
9/21/22 17:45	3.429	353.7	12.83	22.19	29.07	0
9/21/22 18:00	3.109	328.3	10.98	21.94	29.07	0
9/21/22 18:15	1.491	321.6	2.815	21.97	29.07	0
9/21/22 18:30	1.186	29.3	16.98	21.35	29.08	0
9/21/22 18:45	2.148	17.88	11	20.66	29.08	0
9/21/22 19:00	1.778	65.07	5.524	20.27	29.08	0
9/21/22 19:15	2.821	57.46	5.39	20.13	29.08	0
9/21/22 19:30	1.118	64.64	7.982	19.59	29.08	0
9/21/22 19:45	3.779	255.7	17.31	19.48	29.08	0
9/21/22 20:00	2.822	338.7	54.83	18.33	29.09	0
9/21/22 20:15	3.501	65.42	10	17.68	29.09	0
9/21/22 20:30	4.246	91.6	11.42	17.47	29.1	0
9/21/22 20:45	4.055	129	20.97	18.1	29.11	0
9/21/22 21:00	5.753	163.3	7.95	17.99	29.11	0
9/21/22 21:15	6.334	161.5	10.14	17.68	29.12	0
9/21/22 21:30	6.488	172.3	12.5	16.92	29.12	0
9/21/22 21:45	6.017	182.3	8.21	16.59	29.12	0
9/21/22 22:00	1.348	92.6	52.8	15.93	29.13	0
9/21/22 22:15	2.36	107.7	34.73	15.5	29.14	0
9/21/22 22:30	2.248	222.7	14.24	15.74	29.15	0
9/21/22 22:45	3.476	204.3	7.668	15.71	29.15	0
9/21/22 23:00	5.247	218.3	14.08	15.17	29.15	0
9/21/22 23:15	6.093	233.6	7.724	14.61	29.16	0
9/21/22 23:30	4.91	225.4	7.835	14.13	29.17	0
9/21/22 23:45	6.064	219	4.575	13.57	29.17	0
9/22/22 0:00	7.367	212	4.615	13.27	29.17	0
9/22/22 0:15	6.383	213.9	6.221	12.88	29.17	0
9/22/22 0:30	5.163	210.2	3.605	12.54	29.17	0
9/22/22 0:45	5.735	202.5	7.855	12.36	29.17	0
9/22/22 1:00	8.03	177.6	5.788	12	29.18	0
9/22/22 1:15	7.034	165	6.059	11.81	29.19	0
9/22/22 1:30	5.642	137.1	12.47	11.74	29.19	0
9/22/22 1:45	7.589	148.7	6.354	11.92	29.19	0
9/22/22 2:00	6.927	147.7	3.433	11.93	29.19	0
9/22/22 2:15	6.533	152	8.73	11.84	29.19	0
9/22/22 2:30	6.773	155	6.59	11.78	29.19	0
9/22/22 2:45	6.345	160.1	9.49	11.99	29.2	0
9/22/22 3:00	6.539	153.4	8.48	11.68	29.2	0
9/22/22 3:15	6.462	166.7	6.355	11.89	29.21	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/22/22 3:30	7.06	168.4	5.389	11.79	29.21	0
9/22/22 3:45	4.794	156.2	9.86	11.86	29.22	0
9/22/22 4:00	4.916	155.2	10.57	11.74	29.22	0
9/22/22 4:15	4.079	144.1	13.55	11.55	29.22	0
9/22/22 4:30	4.963	130.6	5.998	11.34	29.22	0
9/22/22 4:45	5.311	133.5	6.786	11.32	29.22	0
9/22/22 5:00	5.262	147.5	10.78	11.16	29.23	0
9/22/22 5:15	7.172	141.8	6.202	11.14	29.23	0
9/22/22 5:30	7.422	136.7	5.556	11.26	29.23	0
9/22/22 5:45	7.925	135.4	7.663	11.68	29.23	0
9/22/22 6:00	7.459	142.1	9.12	11.86	29.24	0
9/22/22 6:15	7.218	133.7	8.47	11.87	29.24	0
9/22/22 6:30	7.921	138.3	8.74	11.9	29.25	0
9/22/22 6:45	8.45	137.4	8.06	12	29.25	0
9/22/22 7:00	8.72	141.7	9.45	12.11	29.25	0
9/22/22 7:15	8.13	155.7	10.74	12.35	29.26	0
9/22/22 7:30	9	148.7	9.03	12.38	29.26	0
9/22/22 7:45	7.653	145.3	7.862	12.39	29.26	0
9/22/22 8:00	8.13	149.4	10.11	12.84	29.26	0
9/22/22 8:15	7.215	140.4	7.914	13.1	29.27	0
9/22/22 8:30	6.166	150.2	20.29	13.31	29.27	0
9/22/22 8:45	5.984	140.8	15.05	13.42	29.27	0
9/22/22 9:00	6.623	138.2	10.44	13.64	29.28	0
9/22/22 9:15	7.342	140.1	17.17	14.06	29.28	0
9/22/22 9:30	6.58	142.8	9.72	13.97	29.28	0
9/22/22 9:45	5.906	137.7	15.03	14.32	29.28	0
9/22/22 10:00	6.388	134.2	15.64	14.48	29.28	0
9/22/22 10:15	6.019	142.8	17.43	14.68	29.28	0
9/22/22 10:30	6.265	139.5	15.01	14.89	29.27	0
9/22/22 10:45	5.45	156.5	14.54	15.1	29.28	0
9/22/22 11:00	7.302	160.2	19.5	15.45	29.28	0
9/22/22 11:15	6.913	156.5	14.92	15.6	29.27	0
9/22/22 11:30	8.18	180.8	14.75	15.61	29.27	0
9/22/22 11:45	7.802	179.1	11.63	16	29.27	0
9/22/22 12:00	7.269	171.4	13.03	16.47	29.27	0
9/22/22 12:15	5.57	193.2	14.58	16.61	29.27	0
9/22/22 12:30	6.567	184.1	17.55	17.22	29.27	0
9/22/22 12:45	7.131	179	17.43	17.37	29.26	0
9/22/22 13:00	6.59	218	20.12	17.47	29.26	0
9/22/22 13:15	8.77	219.3	15.71	18.03	29.26	0
9/22/22 13:30	10.5	214.2	10.2	18.07	29.25	0
9/22/22 13:45	9.44	222.9	15.22	18.98	29.25	0
9/22/22 14:00	10.39	218.7	9.91	18.75	29.25	0
9/22/22 14:15	11.3	228	10.16	19.16	29.25	0
9/22/22 14:30	10.14	254.2	17.22	18.86	29.25	0
9/22/22 14:45	10.82	247.4	9.59	18.71	29.25	0
9/22/22 15:00	8.55	248.8	15.39	19.45	29.25	0
9/22/22 15:15	9.99	253.3	12.87	19.38	29.25	0
9/22/22 15:30	11.02	233.1	18	19.1	29.25	0
9/22/22 15:45	11.79	234.1	15.86	19.43	29.25	0
9/22/22 16:00	11.04	233.5	11.62	19.09	29.25	0
9/22/22 16:15	10.91	248.7	12.23	19.19	29.25	0
9/22/22 16:30	13.7	247.8	11.7	19.14	29.25	0
9/22/22 16:45	12.83	243.3	8.97	18.62	29.25	0
9/22/22 17:00	11.2	229.2	10.6	18.51	29.25	0
9/22/22 17:15	11.91	234.9	10.11	18.19	29.25	0
9/22/22 17:30	10.34	242.5	10.31	17.91	29.25	0
9/22/22 17:45	9.59	241.6	8.23	17.61	29.25	0
9/22/22 18:00	9.03	235	9.11	17.27	29.26	0
9/22/22 18:15	7.048	229.8	6.957	16.95	29.26	0
9/22/22 18:30	5.395	225.6	5.398	16.82	29.26	0
9/22/22 18:45	4.436	223.4	6.529	16.48	29.26	0
9/22/22 19:00	5.867	219.2	11.16	16.37	29.27	0
9/22/22 19:15	9.16	228.3	6.403	16.22	29.27	0
9/22/22 19:30	8.03	237.3	6.815	15.83	29.27	0
9/22/22 19:45	6.541	244.2	5.721	15.34	29.28	0
9/22/22 20:00	6.427	235.6	5.114	15.18	29.28	0
9/22/22 20:15	6.252	234.5	4.631	15.01	29.29	0
9/22/22 20:30	7.061	230.7	7.774	14.87	29.29	0
9/22/22 20:45	8.6	224.4	7.223	14.72	29.29	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
9/22/22 21:00	6.385	205.5	22.98	14.39	29.29	0
9/22/22 21:15	3.476	128.1	10.5	13.47	29.29	0
9/22/22 21:30	4.128	151.1	19.74	13.79	29.29	0
9/22/22 21:45	5.03	160.3	7.485	13.43	29.29	0
9/22/22 22:00	6.435	161	11.96	13.4	29.3	0
9/22/22 22:15	7.461	142.7	4.888	12.93	29.3	0
9/22/22 22:30	8.05	145.6	6.027	12.95	29.3	0
9/22/22 22:45	7.906	145.7	5.215	12.81	29.3	0
9/22/22 23:00	7.633	140.7	7.331	12.9	29.3	0
9/22/22 23:15	8.68	146.6	6.478	13.29	29.31	0
9/22/22 23:30	8.33	142.9	7.673	13.48	29.31	0
9/22/22 23:45	7.214	147	6.472	13.51	29.31	0
9/23/22 0:00	6.956	138.1	7.191	13.47	29.31	0
9/23/22 0:15	7.162	135.2	8.33	13.38	29.31	0
9/23/22 0:30	6.109	142	6.271	13.27	29.32	0
9/23/22 0:45	6.24	148.1	5.759	13.32	29.32	0
9/23/22 1:00	6.598	144.8	5.262	13.36	29.32	0
9/23/22 1:15	5.95	139.4	5.479	13.47	29.32	0
9/23/22 1:30	7.071	146.7	6.395	13.61	29.32	0
9/23/22 1:45	7.129	147.5	6.598	13.74	29.32	0
9/23/22 2:00	5.176	158.1	9.18	13.77	29.32	0
9/23/22 2:15	4.618	152.1	13.1	13.69	29.31	0
9/23/22 2:30	4.983	144.7	6.908	13.58	29.31	0
9/23/22 2:45	5.516	139.4	5.851	13.5	29.31	0
9/23/22 3:00	4.012	131	9.14	13.55	29.31	0
9/23/22 3:15	2.897	119.2	13.63	13.63	29.31	0
9/23/22 3:30	3.609	128.3	8.13	13.69	29.31	0
9/23/22 3:45	3.557	135	8.22	13.65	29.31	0
9/23/22 4:00	3.827	136.6	6.154	13.65	29.31	0
9/23/22 4:15	4.889	139.4	5.765	13.68	29.31	0
9/23/22 4:30	4.951	138.9	5.695	13.72	29.31	0
9/23/22 4:45	5.036	148.7	10.58	13.74	29.31	0
9/23/22 5:00	4.951	163.5	5.496	13.86	29.31	0
9/23/22 5:15	4.747	163	7.042	13.85	29.31	0
9/23/22 5:30	4.367	160.8	6.046	13.87	29.32	0
9/23/22 5:45	4.683	167.6	6.669	13.97	29.32	0
9/23/22 6:00	3.103	155.1	13.39	13.92	29.32	0
9/23/22 6:15	2.248	121.6	22.06	13.93	29.33	0
9/23/22 6:30	2.064	106.8	19.15	13.95	29.33	0
9/23/22 6:45	2.018	107.2	14	13.96	29.33	0
9/23/22 7:00	2.466	108.2	9.21	13.94	29.33	0
9/23/22 7:15	2.363	112.5	8.53	13.98	29.33	0
9/23/22 7:30	2.008	131.7	16.03	14.22	29.34	0
9/23/22 7:45	2.871	156.5	16.75	14.42	29.34	0
9/23/22 8:00	3.597	152.4	14.72	14.58	29.34	0
9/23/22 8:15	4.032	153.4	10.78	14.75	29.34	0
9/23/22 8:30	4.151	155.6	16.69	15.02	29.35	0
9/23/22 8:45	4.074	161.9	15.1	15.1	29.35	0
9/23/22 9:00	4.056	162.3	14.63	15.28	29.35	0
9/23/22 9:15	4.96	176.9	10.64	15.22	29.36	0
9/23/22 9:30	5.726	176.6	11.31	15.32	29.35	0
9/23/22 9:45	7.357	165.8	16.15	15.57	29.35	0
9/23/22 10:00	6.954	187.3	13.08	15.54	29.35	0
9/23/22 10:15	8.26	176.7	13.85	15.65	29.36	0
9/23/22 10:30	6.25	195.7	12.64	16	29.36	0
9/23/22 10:45	6.958	170.5	15.78	16.46	29.36	0
9/23/22 11:00	5.438	145.8	21.84	16.32	29.36	0
9/23/22 11:15	5.103	145	20.9	16.22	29.36	0
9/23/22 11:30	4.165	134.9	23.31	16.48	29.36	0
9/23/22 11:45	4.486	150.4	26.11	16.88	29.36	0
9/23/22 12:00	4.66	161.9	31.31	17.25	29.35	0
9/23/22 12:15	3.109	156.5	36.01	17.08	29.35	0
9/23/22 12:30	3.589	127.7	34.09	17.54	29.35	0
9/23/22 12:45	3.909	193.8	52.2	17.41	29.35	0
9/23/22 13:00	3.894	200.3	30.34	17.55	29.35	0
9/23/22 13:15	4.12	229	43.21	17.95	29.35	0
9/23/22 13:30	5.372	233	18.33	17.75	29.34	0
9/23/22 13:45	5.16	188.5	27.82	18.06	29.34	0
9/23/22 14:00	5.058	223.5	45.74	18.49	29.33	0
9/23/22 14:15	6.076	257	21.77	18.81	29.33	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
9/23/22 14:30	6.253	218.6	24.06	18.72	29.33	0
9/23/22 14:45	3.798	195.3	51.77	19.24	29.33	0
9/23/22 15:00	7.493	260.7	21.86	19.43	29.32	0
9/23/22 15:15	4.993	287	21.66	19.34	29.32	0
9/23/22 15:30	6.414	280.1	27.76	18.99	29.32	0
9/23/22 15:45	7.127	262.6	22.78	19.41	29.32	0
9/23/22 16:00	5.334	248.2	13.42	19.28	29.32	0
9/23/22 16:15	4.713	281.3	36.3	19.2	29.32	0
9/23/22 16:30	3.874	278.6	25.44	19.36	29.32	0
9/23/22 16:45	4.953	288.4	18.72	19.15	29.32	0
9/23/22 17:00	3.352	271.4	21.97	18.73	29.32	0
9/23/22 17:15	3.551	264	16.05	18.73	29.32	0
9/23/22 17:30	3.265	307.3	27.17	18.79	29.32	0
9/23/22 17:45	3.64	322.8	5.285	18.3	29.32	0
9/23/22 18:00	3.86	311.4	5.009	17.84	29.32	0
9/23/22 18:15	3.434	305.9	2.547	17.58	29.32	0
9/23/22 18:30	3.63	315	3.756	17.43	29.32	0
9/23/22 18:45	2.644	347.8	24.46	17.09	29.33	0
9/23/22 19:00	2.175	7.669	1.965	16.67	29.33	0
9/23/22 19:15	2.208	7.722	5.578	16.47	29.34	0
9/23/22 19:30	1.257	339.8	12.69	16.2	29.34	0
9/23/22 19:45	1.263	3.671	15.59	16.12	29.34	0
9/23/22 20:00	0.218	307.3	26.16	15.88	29.34	0
9/23/22 20:15	2.091	251.1	7.344	16.44	29.35	0
9/23/22 20:30	1.592	149.1	42.64	15.74	29.35	0
9/23/22 20:45	1.714	109.9	7.117	15.22	29.35	0
9/23/22 21:00	1.635	127.4	14.83	15.51	29.35	0
9/23/22 21:15	2.786	136.8	11.32	15.59	29.35	0
9/23/22 21:30	2.346	124.7	11.13	15.34	29.35	0
9/23/22 21:45	3.269	135.9	7.752	15.01	29.35	0
9/23/22 22:00	3.381	139.6	7.74	14.31	29.35	0
9/23/22 22:15	1.536	95.6	24.73	14.15	29.35	0
9/23/22 22:30	3.636	109.1	20.44	14.12	29.36	0
9/23/22 22:45	4.752	126.7	5.02	14.62	29.36	0
9/23/22 23:00	2.716	140.9	9.81	14.41	29.36	0
9/23/22 23:15	2.564	21.59	37.18	13.68	29.36	0
9/23/22 23:30	0.57	26.07	30.34	14.27	29.36	0
9/23/22 23:45	1.786	152.1	18.86	14.72	29.36	0
9/24/22 0:00	2.263	138	7.35	14.17	29.36	0
9/24/22 0:15	1.2	105.7	17.94	13.98	29.36	0
9/24/22 0:30	2.277	138.4	13.5	13.97	29.36	0
9/24/22 0:45	2.887	142.9	1.954	13.98	29.36	0
9/24/22 1:00	2.415	116.1	6.579	14.18	29.36	0
9/24/22 1:15	2.532	96.9	6.167	13.63	29.37	0
9/24/22 1:30	2.098	104.8	6.014	13.35	29.37	0
9/24/22 1:45	1.586	119.3	16.18	13.61	29.37	0
9/24/22 2:00	1.647	177.6	14.46	13.72	29.37	0
9/24/22 2:15	0.489	230.3	41.6	13.55	29.38	0
9/24/22 2:30	2.37	316.2	5.534	13.57	29.38	0
9/24/22 2:45	3.154	306.8	3.955	13.48	29.38	0
9/24/22 3:00	4.572	301.2	5.838	13.6	29.38	0
9/24/22 3:15	4.227	287.1	2.818	13.76	29.38	0
9/24/22 3:30	2.393	285.7	4.108	13.89	29.38	0
9/24/22 3:45	1.26	234.1	12.55	13.06	29.37	0
9/24/22 4:00	1.996	228.4	7.174	12.37	29.37	0
9/24/22 4:15	0.319	237.3	0.139	12.7	29.37	0
9/24/22 4:30	0.867	12.32	13.55	12.67	29.37	0
9/24/22 4:45	0.015	48.19	0.006	12.14	29.37	0
9/24/22 5:00	0.452	29.37	7.239	12.08	29.37	0
9/24/22 5:15	1.41	10.29	10.41	12.15	29.38	0
9/24/22 5:30	2.2	2.639	9.79	12.04	29.38	0
9/24/22 5:45	2.407	357.3	10.54	11.7	29.38	0
9/24/22 6:00	2.523	342.4	5.901	11.92	29.38	0
9/24/22 6:15	1.143	337.2	5.894	12.49	29.39	0
9/24/22 6:30	0.887	348.8	5.034	12	29.39	0
9/24/22 6:45	0.06	30.57	0.283	12.18	29.4	0
9/24/22 7:00	0.986	31.34	5.11	13.12	29.4	0
9/24/22 7:15	2.343	36.44	7.309	12.73	29.41	0
9/24/22 7:30	3.085	22.24	10.54	12.49	29.41	0
9/24/22 7:45	3.396	6.61	11.52	12.9	29.41	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
9/24/22 8:00	4.405	14.07	9.31	13.21	29.41	0
9/24/22 8:15	3.155	14.4	14.05	13.58	29.42	0
9/24/22 8:30	2.885	352.1	15.86	14.27	29.42	0
9/24/22 8:45	1.847	321.3	30.51	15.4	29.42	0
9/24/22 9:00	2.689	325.8	24.62	16.09	29.42	0
9/24/22 9:15	3.14	325.3	20.22	16.48	29.42	0
9/24/22 9:30	3.054	353.9	26.82	17.21	29.42	0
9/24/22 9:45	3.828	11.68	29.76	17.77	29.42	0
9/24/22 10:00	4.534	352.5	19.8	18.2	29.42	0
9/24/22 10:15	6.465	5.872	15.23	18.4	29.42	0
9/24/22 10:30	7.945	15.42	13.56	18.42	29.42	0
9/24/22 10:45	8.99	19.85	13.34	18.83	29.42	0
9/24/22 11:00	10.53	16.59	11.09	19.03	29.42	0
9/24/22 11:15	9.65	21.36	13.23	19.16	29.42	0
9/24/22 11:30	9.29	12.36	16.99	19.75	29.41	0
9/24/22 11:45	9.45	334.1	11.78	20.27	29.41	0
9/24/22 12:00	9.48	336.5	13.13	20.27	29.41	0
9/24/22 12:15	9.49	313.9	16.15	20.53	29.41	0
9/24/22 12:30	8.33	337.2	24.09	20.87	29.4	0
9/24/22 12:45	9.06	7.744	19.89	20.88	29.4	0
9/24/22 13:00	9.1	356	19.9	20.89	29.4	0
9/24/22 13:15	8.98	360	19.53	21.22	29.4	0
9/24/22 13:30	9.32	13.06	16.9	21.45	29.39	0
9/24/22 13:45	9.89	6.539	14.87	21.32	29.39	0
9/24/22 14:00	10.02	6.727	20.91	21.73	29.39	0
9/24/22 14:15	9.48	7.04	20.02	21.91	29.38	0
9/24/22 14:30	8.76	19.58	11.69	22.03	29.38	0
9/24/22 14:45	7.462	13.62	16.96	22.51	29.38	0
9/24/22 15:00	6.685	8.83	22.41	22.55	29.37	0
9/24/22 15:15	7.073	15.36	10.96	22.7	29.37	0
9/24/22 15:30	7.197	341.1	14.88	22.59	29.37	0
9/24/22 15:45	7.999	350.4	14.72	22.16	29.36	0
9/24/22 16:00	8.97	336	13.12	22.22	29.36	0
9/24/22 16:15	8.39	322	13.41	22.23	29.36	0
9/24/22 16:30	9.61	335.8	10.07	21.83	29.36	0
9/24/22 16:45	7.685	339.1	11.71	21.43	29.36	0
9/24/22 17:00	6.521	324.4	13.8	21.28	29.36	0
9/24/22 17:15	6.339	320.1	11.21	20.83	29.36	0
9/24/22 17:30	7.146	317.2	9.61	20.37	29.36	0
9/24/22 17:45	8.77	314.6	6.722	19.7	29.36	0
9/24/22 18:00	7.369	322.2	12.45	19.25	29.36	0
9/24/22 18:15	7.013	348.3	16.87	18.82	29.36	0
9/24/22 18:30	7.548	6.81	14.75	18.76	29.36	0
9/24/22 18:45	7.032	7.803	11.53	18.29	29.36	0
9/24/22 19:00	6.896	359.1	14.56	18.12	29.37	0
9/24/22 19:15	5.45	355.9	21.19	18.07	29.37	0
9/24/22 19:30	6.482	10.53	18.75	17.57	29.38	0
9/24/22 19:45	8.27	14.99	10.77	17.32	29.38	0
9/24/22 20:00	8.51	10.92	11.27	17.13	29.38	0
9/24/22 20:15	9.95	8.44	12.01	17.22	29.38	0
9/24/22 20:30	11.3	11.01	15.12	17.17	29.38	0
9/24/22 20:45	11.28	13.03	13.44	16.96	29.38	0
9/24/22 21:00	11.73	14.34	10.29	16.75	29.38	0
9/24/22 21:15	11.06	9.77	11.47	16.66	29.38	0
9/24/22 21:30	12.18	8.83	13.5	16.69	29.37	0
9/24/22 21:45	13	11.67	11.54	16.52	29.37	0
9/24/22 22:00	12.47	16.6	8.7	16.33	29.37	0
9/24/22 22:15	12.01	21.52	10.78	16.14	29.37	0
9/24/22 22:30	11.89	22.46	9.49	15.98	29.37	0
9/24/22 22:45	10.24	16.25	8.64	15.79	29.37	0
9/24/22 23:00	10.06	15.59	11.09	15.83	29.37	0
9/24/22 23:15	10.72	18.31	10.57	15.23	29.37	0
9/24/22 23:30	9.78	21	9.55	14.79	29.37	0
9/24/22 23:45	8.05	21.23	9.93	14.57	29.37	0
9/25/22 0:00	8.98	32.92	9.32	14.6	29.37	0
9/25/22 0:15	7.643	29.2	9.2	14.35	29.37	0
9/25/22 0:30	8.28	36.43	7.445	14.41	29.37	0
9/25/22 0:45	8.54	23.74	7.717	14.26	29.36	0
9/25/22 1:00	6.449	16.71	7.028	13.93	29.36	0
9/25/22 1:15	5.432	17.4	6.013	13.76	29.36	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
9/25/22 1:30	4.098	23.41	5.012	13.35	29.36	0
9/25/22 1:45	4.34	23.72	4.699	13.24	29.36	0
9/25/22 2:00	3.716	10.9	5.773	13.35	29.36	0
9/25/22 2:15	4.127	12.96	4.522	13.26	29.36	0
9/25/22 2:30	3.66	22.38	5.76	13.04	29.36	0
9/25/22 2:45	2.961	26.64	6.605	12.77	29.36	0
9/25/22 3:00	3.384	22.85	5.358	12.44	29.36	0
9/25/22 3:15	3.007	28.75	3.884	11.94	29.36	0
9/25/22 3:30	3.448	20.04	4.262	11.93	29.36	0
9/25/22 3:45	4.095	17.96	5.015	11.88	29.36	0
9/25/22 4:00	4.658	12.95	5.912	11.68	29.35	0
9/25/22 4:15	4.649	12.11	6.11	11.84	29.35	0
9/25/22 4:30	4.823	12.97	5.412	11.85	29.35	0
9/25/22 4:45	4.817	13.43	6.094	11.62	29.35	0
9/25/22 5:00	4.309	18.26	9.39	11.33	29.36	0
9/25/22 5:15	4.466	25.38	8.72	11.25	29.36	0
9/25/22 5:30	4.817	12.8	8.75	11.12	29.36	0
9/25/22 5:45	4.574	9.22	15.07	11.09	29.36	0
9/25/22 6:00	5.735	17.04	8.16	10.95	29.36	0
9/25/22 6:15	4.393	25.15	13.21	10.95	29.36	0
9/25/22 6:30	5.007	23.39	6.101	10.57	29.36	0
9/25/22 6:45	4.291	22.43	8.4	10.76	29.36	0
9/25/22 7:00	5.223	34.62	6.621	11.23	29.36	0
9/25/22 7:15	4.856	26.14	14	11.81	29.36	0
9/25/22 7:30	5.085	19.06	7.677	11.97	29.36	0
9/25/22 7:45	3.343	29.88	13.35	12.85	29.36	0
9/25/22 8:00	2.193	16.22	12.84	13.62	29.36	0
9/25/22 8:15	1.137	38.34	16.79	14.79	29.36	0
9/25/22 8:30	1.359	68.67	52.04	15.86	29.36	0
9/25/22 8:45	3.401	51.63	16.2	15.3	29.36	0
9/25/22 9:00	2.526	46.15	27.19	15.95	29.36	0
9/25/22 9:15	3.966	20.29	16.42	16.18	29.36	0
9/25/22 9:30	2.861	32.39	16.6	16.57	29.35	0
9/25/22 9:45	2.145	51.74	32.44	17.54	29.35	0
9/25/22 10:00	1.975	93.6	61.62	18.86	29.35	0
9/25/22 10:15	2.507	50.17	29.54	19.21	29.35	0
9/25/22 10:30	4.178	27.94	20.55	19.08	29.34	0
9/25/22 10:45	5.529	35.06	18.66	19.52	29.34	0
9/25/22 11:00	5.724	20.08	15.25	19.96	29.34	0
9/25/22 11:15	5.488	26.84	19.67	20.21	29.34	0
9/25/22 11:30	5.548	28.58	17.95	21.07	29.33	0
9/25/22 11:45	5.896	26.97	14.86	21.58	29.33	0
9/25/22 12:00	5.609	30.35	15.44	21.92	29.32	0
9/25/22 12:15	5.94	22.9	13.06	22.02	29.32	0
9/25/22 12:30	5.892	13.18	14.79	22.75	29.31	0
9/25/22 12:45	5.89	21.39	14.26	23.02	29.3	0
9/25/22 13:00	5.701	13.38	14.27	23.46	29.3	0
9/25/22 13:15	6.391	15.8	10.76	23.8	29.29	0
9/25/22 13:30	5.597	15.93	19.39	23.78	29.28	0
9/25/22 13:45	6.192	24.54	17.28	24.19	29.28	0
9/25/22 14:00	6.155	6.161	28.83	24.5	29.28	0
9/25/22 14:15	5.988	4.202	30.01	24.91	29.27	0
9/25/22 14:30	8.8	13.43	11.92	24.85	29.26	0
9/25/22 14:45	7.934	11.46	13.66	25.12	29.26	0
9/25/22 15:00	8.32	11.68	12.72	25.31	29.26	0
9/25/22 15:15	9.59	14.99	13.7	25.41	29.25	0
9/25/22 15:30	7.691	13.6	12.32	25.56	29.25	0
9/25/22 15:45	8.14	7.409	17.95	25.44	29.25	0
9/25/22 16:00	8.03	4.893	13.74	25.51	29.24	0
9/25/22 16:15	8.89	9.68	12.81	25.37	29.24	0
9/25/22 16:30	7.93	0.919	14.63	25.3	29.23	0
9/25/22 16:45	8.2	353.2	16.28	25.19	29.23	0
9/25/22 17:00	8.38	352.8	12.91	24.99	29.23	0
9/25/22 17:15	8.58	357.5	12.19	24.5	29.23	0
9/25/22 17:30	8.61	359.8	13.4	23.99	29.22	0
9/25/22 17:45	8.38	0.137	11.52	23.5	29.22	0
9/25/22 18:00	7.399	2.526	12.99	22.64	29.22	0
9/25/22 18:15	6.756	5.568	11.7	21.65	29.22	0
9/25/22 18:30	8.93	8.82	9.42	21.16	29.22	0
9/25/22 18:45	8.9	14.26	10.38	20.8	29.22	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
9/25/22 19:00	9.08	15.57	9.94	20.61	29.23	0
9/25/22 19:15	9.07	19.48	8.69	20.21	29.22	0
9/25/22 19:30	8.49	21.76	9.33	19.83	29.22	0
9/25/22 19:45	8.58	18.52	8.03	19.53	29.22	0
9/25/22 20:00	9.78	22.5	10.58	19.58	29.22	0
9/25/22 20:15	8.76	19.7	9.73	18.87	29.22	0
9/25/22 20:30	8.61	17.63	7.794	18.29	29.22	0
9/25/22 20:45	8.48	15.52	9.24	18.26	29.22	0
9/25/22 21:00	8.44	16.65	7.949	17.77	29.22	0
9/25/22 21:15	8.09	21.15	7.376	17.6	29.22	0
9/25/22 21:30	6.866	18.13	8.1	17.16	29.22	0
9/25/22 21:45	9.76	15.55	8.05	17.1	29.22	0
9/25/22 22:00	8.95	17.11	9.3	17.03	29.22	0
9/25/22 22:15	7.965	14.28	10.04	16.84	29.22	0
9/25/22 22:30	7.661	16.54	9.04	16.68	29.21	0
9/25/22 22:45	8.25	21.71	8.54	16.41	29.22	0
9/25/22 23:00	8.44	22.1	6.584	16.01	29.21	0
9/25/22 23:15	7.238	19.98	8.16	15.73	29.21	0
9/25/22 23:30	7.075	24.16	9.67	15.64	29.21	0
9/25/22 23:45	6.744	15.28	9.97	15.41	29.2	0
9/26/22 0:00	5.042	11.95	9.06	15.63	29.2	0
9/26/22 0:15	4.413	8.07	8.16	15.69	29.2	0
9/26/22 0:30	5.421	10.76	6.666	15.74	29.19	0
9/26/22 0:45	5.871	15.9	9.51	15.33	29.19	0
9/26/22 1:00	6.021	14.59	10.17	14.97	29.19	0
9/26/22 1:15	6.291	12.77	10.13	14.99	29.18	0
9/26/22 1:30	6.142	14.72	8.55	14.74	29.18	0
9/26/22 1:45	6.983	11.45	6.483	14.84	29.17	0
9/26/22 2:00	6.039	6.452	7.882	14.85	29.17	0
9/26/22 2:15	7.539	247.3	37.97	14.13	29.17	0
9/26/22 2:30	7.686	261.5	10.38	13.7	29.18	0
9/26/22 2:45	2.198	172.2	53.72	13.28	29.19	0
9/26/22 3:00	2.705	84.4	14.96	12.78	29.19	0
9/26/22 3:15	3.618	122.7	7.879	12.9	29.18	0
9/26/22 3:30	3.922	81	11.61	13.26	29.18	0
9/26/22 3:45	3.928	85.9	6.544	13.47	29.18	0
9/26/22 4:00	4.512	104.5	11.02	13.43	29.18	0
9/26/22 4:15	5.177	140.8	25.86	13.92	29.18	0
9/26/22 4:30	3.93	108.9	70.18	14.45	29.19	0
9/26/22 4:45	3.357	351	26.82	12.6	29.18	0
9/26/22 5:00	3.441	37.45	11.36	14.04	29.17	0
9/26/22 5:15	5.7	12.11	6.55	13.89	29.17	0
9/26/22 5:30	4.521	353.2	47.71	12.89	29.17	0
9/26/22 5:45	5.671	258.5	13.64	12.98	29.18	0
9/26/22 6:00	6.197	277.8	10.89	13.28	29.18	0
9/26/22 6:15	4.419	304	5.924	13.11	29.18	0
9/26/22 6:30	3.45	331.4	20.71	12.9	29.18	0
9/26/22 6:45	2.993	29.53	13.14	12.63	29.18	0
9/26/22 7:00	2.999	74.32	34.75	12.92	29.18	0
9/26/22 7:15	5.372	44.4	18.28	12.4	29.18	0
9/26/22 7:30	6.819	18.38	10.04	12.04	29.18	0
9/26/22 7:45	4.455	16.53	14.75	13.69	29.18	0
9/26/22 8:00	3.186	59.06	14.9	15.05	29.18	0
9/26/22 8:15	1.453	35.01	20.11	15.44	29.19	0
9/26/22 8:30	2.597	215	15.82	15.99	29.19	0
9/26/22 8:45	2.89	212.7	12.02	16.07	29.19	0
9/26/22 9:00	2.304	190.7	27.29	16.89	29.19	0
9/26/22 9:15	2.826	203.5	20.71	17.43	29.18	0
9/26/22 9:30	2.871	216.3	18.64	18	29.18	0
9/26/22 9:45	1.323	209.4	47.19	19.69	29.18	0
9/26/22 10:00	1.831	262.6	31.95	20.44	29.17	0
9/26/22 10:15	1.63	323.1	56.07	21.74	29.17	0
9/26/22 10:30	2.826	247.3	25.33	22.3	29.18	0
9/26/22 10:45	2.457	285.6	21.56	22.78	29.17	0
9/26/22 11:00	2.465	302.9	21.93	22.79	29.17	0
9/26/22 11:15	1.732	272.9	41.72	23.39	29.17	0
9/26/22 11:30	1.67	201.5	40.96	24.22	29.16	0
9/26/22 11:45	2.894	251	45.67	24.33	29.16	0
9/26/22 12:00	4.561	200	20.93	24.79	29.16	0
9/26/22 12:15	3.446	208.6	42.78	25.21	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
9/26/22 12:30	3.644	193.2	32.94	25.56	29.15	0
9/26/22 12:45	3.263	175	52.86	26.12	29.14	0
9/26/22 13:00	5.022	278.5	15.73	26.16	29.14	0
9/26/22 13:15	4.689	257.5	18.63	26.47	29.14	0
9/26/22 13:30	4.897	235.7	22.55	26.55	29.14	0
9/26/22 13:45	4.533	238.6	14.77	26.63	29.13	0
9/26/22 14:00	4.001	232	21.61	26.86	29.13	0
9/26/22 14:15	3.32	260.9	34.49	27.4	29.12	0
9/26/22 14:30	3.876	265.8	15.26	27.37	29.12	0
9/26/22 14:45	4.222	257.5	17.65	27.38	29.12	0
9/26/22 15:00	4.964	261.2	17.77	27.41	29.12	0
9/26/22 15:15	5.165	237.9	14.02	27.7	29.12	0
9/26/22 15:30	3.808	247.1	24.66	27.48	29.11	0
9/26/22 15:45	2.897	270.8	17.61	27.74	29.11	0
9/26/22 16:00	3.475	239.3	20.99	27.56	29.11	0
9/26/22 16:15	2.869	232.1	22.3	27.66	29.11	0
9/26/22 16:30	3.047	237.4	19.66	27.57	29.11	0
9/26/22 16:45	2.866	252.2	21.71	27.45	29.11	0
9/26/22 17:00	3.203	234.6	13.63	27.14	29.11	0
9/26/22 17:15	2.767	236.1	10.55	26.94	29.11	0
9/26/22 17:30	1.415	6.934	38.48	26.14	29.11	0
9/26/22 17:45	2.063	18	3.203	25.02	29.1	0
9/26/22 18:00	2.599	13.39	2.968	24.46	29.11	0
9/26/22 18:15	3.411	18.68	5.221	24.12	29.1	0
9/26/22 18:30	3.776	23.82	2.312	23.69	29.1	0
9/26/22 18:45	3.776	28.38	4.678	23.29	29.1	0
9/26/22 19:00	2.915	42.06	5.605	23.13	29.1	0
9/26/22 19:15	3.026	41.09	5.126	22.96	29.11	0
9/26/22 19:30	3.847	44.66	5.081	22.77	29.1	0
9/26/22 19:45	3.312	43.97	7.556	22.47	29.1	0
9/26/22 20:00	2.524	48.72	11.22	22.25	29.1	0
9/26/22 20:15	1.946	41.49	9.4	22.24	29.1	0
9/26/22 20:30	2.025	23.37	10.15	22.17	29.1	0
9/26/22 20:45	2.405	320.4	7.427	20.99	29.1	0
9/26/22 21:00	2.556	328.4	10.34	21.17	29.11	0
9/26/22 21:15	1.361	345.4	7.505	20.27	29.1	0
9/26/22 21:30	1.314	1.607	5.201	20.21	29.11	0
9/26/22 21:45	2.977	193	15.24	20.2	29.11	0
9/26/22 22:00	3.676	165.1	13.83	19.53	29.11	0
9/26/22 22:15	2.467	127.1	9.61	19.68	29.11	0
9/26/22 22:30	4.088	100.7	6.212	18.91	29.11	0
9/26/22 22:45	4.473	122.8	4.923	19.34	29.11	0
9/26/22 23:00	4.435	113.3	6.82	18.88	29.11	0
9/26/22 23:15	4.977	135.5	11.42	18.86	29.11	0
9/26/22 23:30	6.111	139.4	3.872	18.98	29.11	0
9/26/22 23:45	6.763	159.5	7.014	19.02	29.1	0
9/27/22 0:00	5.154	155.2	6.517	18.41	29.1	0
9/27/22 0:15	4.386	149	8.12	18.38	29.1	0
9/27/22 0:30	4.784	152.5	6.528	18.11	29.1	0
9/27/22 0:45	4.694	148.5	9.7	18.04	29.1	0
9/27/22 1:00	4.631	176.1	8.15	17.99	29.1	0
9/27/22 1:15	6.249	192.5	3.432	18.08	29.1	0
9/27/22 1:30	2.314	145.3	55.9	17.63	29.1	0
9/27/22 1:45	0.92	166.1	41.62	17.13	29.09	0
9/27/22 2:00	2.496	176	9.32	17.69	29.09	0
9/27/22 2:15	2.947	207.9	11.66	17.72	29.09	0
9/27/22 2:30	2.083	198.8	12.16	17.63	29.08	0
9/27/22 2:45	0.86	195.8	1.571	17.83	29.08	0
9/27/22 3:00	1.616	333.4	51.95	17.39	29.08	0
9/27/22 3:15	1.49	338.9	14.64	17.32	29.08	0
9/27/22 3:30	2.974	338.9	17.1	16.84	29.08	0
9/27/22 3:45	3.287	16.08	7.538	15.39	29.08	0
9/27/22 4:00	1.983	343.8	12.98	15.33	29.08	0
9/27/22 4:15	1.282	10.59	11.17	15.14	29.08	0
9/27/22 4:30	0	0	0	14.8	29.08	0
9/27/22 4:45	0.927	340.8	2.953	15.09	29.08	0
9/27/22 5:00	1.376	271	18.68	15.21	29.09	0
9/27/22 5:15	2.419	227.1	12.92	14.59	29.09	0
9/27/22 5:30	2.256	191.4	16.48	14.32	29.09	0
9/27/22 5:45	3.667	173.1	7.265	13.38	29.09	0

Meteorological Data

Date/Time	Wind Speed (Average) Miles per Hour	Wind Direction Degrees	Sigma Theta Degrees	Temperature (Average) ° C	Barometric Pressure inches-Hg	Precipitation inches
9/27/22 6:00	3.828	163.3	5.431	13.27	29.09	0
9/27/22 6:15	4.784	149.7	8.22	13.34	29.09	0
9/27/22 6:30	4.754	153.3	9.36	13.65	29.08	0
9/27/22 6:45	3.969	152	11.6	14.09	29.08	0
9/27/22 7:00	4.163	145.6	3.99	14.2	29.08	0
9/27/22 7:15	3.882	150.1	7.233	14.56	29.07	0
9/27/22 7:30	1.773	194.5	38.57	15.3	29.07	0
9/27/22 7:45	0.798	148.9	32.38	16.02	29.07	0
9/27/22 8:00	1.791	311.7	35.62	16.46	29.07	0
9/27/22 8:15	2.837	210.7	21.14	16.5	29.07	0
9/27/22 8:30	2.045	217.3	14.16	16.7	29.07	0
9/27/22 8:45	2.628	224.2	17.91	17.45	29.07	0
9/27/22 9:00	3.699	206.6	16.44	17.51	29.07	0
9/27/22 9:15	3.55	182	15.7	17.86	29.07	0
9/27/22 9:30	3.18	171.3	15.81	18.68	29.07	0
9/27/22 9:45	3.332	180.4	22.05	19.03	29.07	0
9/27/22 10:00	3.546	185.2	29.13	19.83	29.07	0
9/27/22 10:15	3.681	202.8	18.2	20.15	29.07	0
9/27/22 10:30	2.758	211.4	34.56	20.7	29.07	0
9/27/22 10:45	2.222	200.3	31.36	21.46	29.06	0
9/27/22 11:00	3.537	207.5	29.54	22.02	29.06	0
9/27/22 11:15	3.615	227.4	26.48	22.25	29.06	0
9/27/22 11:30	3.363	197.6	27.61	23.05	29.06	0
9/27/22 11:45	4.922	199.1	27.96	23.46	29.06	0
9/27/22 12:00	4.462	183.2	26.52	23.71	29.06	0
9/27/22 12:15	5.482	192.8	32.32	23.99	29.06	0
9/27/22 12:30	5.117	205	23.49	23.94	29.06	0
9/27/22 12:45	6.303	243.3	27.81	23.91	29.07	0
9/27/22 13:00	6.61	200.3	18.74	23.99	29.07	0
9/27/22 13:15	6.316	223.1	23.63	24.37	29.07	0
9/27/22 13:30	4.962	202.7	26.53	24.5	29.07	0
9/27/22 13:45	4.185	211.6	37.35	24.71	29.07	0
9/27/22 14:00	4.738	236.1	23	25.18	29.06	0
9/27/22 14:15	6.377	220.7	22.37	25.31	29.06	0
9/27/22 14:30	5.783	219.7	19.09	25.29	29.06	0
9/27/22 14:45	5.904	206.8	16.38	25.43	29.06	0
9/27/22 15:00	5.39	201	19.52	25.44	29.06	0
9/27/22 15:15	7.955	205.5	11	25.48	29.05	0
9/27/22 15:30	7.521	212.3	22.42	25.54	29.05	0
9/27/22 15:45	7.48	228	16.49	25.29	29.05	0
9/27/22 16:00	8.66	247.1	11.21	24.74	29.06	0
9/27/22 16:15	9.76	253.5	8.09	24.12	29.06	0
9/27/22 16:30	9.9	254.7	12.1	23.41	29.06	0
9/27/22 16:45	9.91	251.4	8.12	22.65	29.06	0
9/27/22 17:00	8.29	254.4	9.22	22.19	29.06	0
9/27/22 17:15	3.862	257.8	10.83	22.04	29.07	0
9/27/22 17:30	1.338	247	21.36	22.3	29.07	0
9/27/22 17:45	0.802	31.67	35.66	21.82	29.07	0
9/27/22 18:00	0.202	247.9	7.775	21.39	29.08	0
9/27/22 18:15	4.201	221.5	10.1	21.04	29.08	0
9/27/22 18:30	5.957	248.1	9.94	20.1	29.08	0
9/27/22 18:45	6.73	256.2	4.359	19.59	29.08	0
9/27/22 19:00	7.16	259.4	5.529	19.23	29.09	0
9/27/22 19:15	7.637	267.7	3.144	18.81	29.09	0
9/27/22 19:30	4.598	288.9	17.83	18.4	29.09	0
9/27/22 19:45	2.883	265.1	16.09	18.09	29.09	0
9/27/22 20:00	4.279	262.5	5.703	17.92	29.1	0
9/27/22 20:15	4.774	262.8	7.869	17.42	29.1	0
9/27/22 20:30	3.837	270.9	9.94	17.05	29.11	0
9/27/22 20:45	4.095	259.1	4.498	16.58	29.11	0
9/27/22 21:00	5.772	260.3	5.435	15.66	29.11	0
9/27/22 21:15	6.513	238	7.069	15.05	29.12	0
9/27/22 21:30	4.949	219.6	7.704	14.93	29.12	0
9/27/22 21:45	3.533	226.1	8.12	14.65	29.12	0
9/27/22 22:00	2.817	223.5	2.637	14.29	29.12	0
9/27/22 22:15	3.818	215.9	5.43	14.18	29.12	0
9/27/22 22:30	5.216	206.4	6.047	13.98	29.13	0
9/27/22 22:45	3.517	145.4	27.53	13.45	29.13	0
9/27/22 23:00	5.176	164.8	15.78	12.94	29.14	0
9/27/22 23:15	5.767	156.2	9.73	12.54	29.14	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
9/27/22 23:30	5.544	165.5	10.7	12.42	29.14	0
9/27/22 23:45	4.332	172	7.909	12.39	29.13	0
9/28/22 0:00	3.418	168.3	16.48	12.39	29.13	0
9/28/22 0:15	6.277	143.2	5.046	12.23	29.13	0
9/28/22 0:30	6.164	142.4	3.399	12.15	29.13	0
9/28/22 0:45	5.204	137.9	10	12.13	29.13	0
9/28/22 1:00	5.167	128.6	5.157	12.3	29.12	0
9/28/22 1:15	6.186	134.6	5.911	12.66	29.12	0
9/28/22 1:30	5.631	158.9	15.35	12.73	29.12	0
9/28/22 1:45	4.301	161.3	6.665	12.85	29.12	0
9/28/22 2:00	3.962	159.9	7.936	12.68	29.12	0
9/28/22 2:15	4.124	166.6	14.51	12.63	29.12	0
9/28/22 2:30	3.533	187.2	28.81	12.4	29.12	0
9/28/22 2:45	3.374	235.5	4.495	12.25	29.11	0
9/28/22 3:00	2.537	222.8	8.3	12.29	29.11	0
9/28/22 3:15	4.351	228.3	6.124	12.05	29.12	0
9/28/22 3:30	1.929	182.1	34.11	11.68	29.12	0
9/28/22 3:45	3.064	199.9	11.09	11.54	29.13	0
9/28/22 4:00	2.957	167.2	11.87	11.23	29.13	0
9/28/22 4:15	4.25	186	12.32	11.14	29.14	0
9/28/22 4:30	4.331	161.1	17.35	11.09	29.15	0
9/28/22 4:45	6.431	143.1	4.473	11.04	29.15	0
9/28/22 5:00	5.964	139.3	7.965	11.02	29.15	0
9/28/22 5:15	6.718	149	6.553	10.95	29.16	0
9/28/22 5:30	5.494	152	10.52	10.84	29.16	0
9/28/22 5:45	6.934	151.7	9.85	10.91	29.17	0
9/28/22 6:00	5.025	145.8	5.863	11.08	29.17	0
9/28/22 6:15	3.288	105.8	13.07	11.21	29.17	0
9/28/22 6:30	2.875	120	28.25	11.53	29.16	0
9/28/22 6:45	2.224	83.9	55.62	11.49	29.15	0
9/28/22 7:00	3.934	219.3	16.05	12.38	29.15	0
9/28/22 7:15	1.758	12.98	53.08	12.07	29.15	0
9/28/22 7:30	3.282	355.9	44.63	12.09	29.14	0
9/28/22 7:45	6.664	33.22	11.88	11.72	29.13	0
9/28/22 8:00	5.427	10.55	26.72	12.55	29.13	0
9/28/22 8:15	7.637	242.8	14.48	12.89	29.14	0
9/28/22 8:30	4.744	294.4	12.99	13.51	29.15	0
9/28/22 8:45	5.899	252.6	24.9	13.48	29.16	0
9/28/22 9:00	3.148	319.4	43.42	13.36	29.16	0
9/28/22 9:15	3.239	263.5	21.66	13.51	29.16	0
9/28/22 9:30	4.911	238.4	9.57	13.51	29.17	0
9/28/22 9:45	3.873	28.63	59.96	13.73	29.16	0
9/28/22 10:00	3.503	169.5	44.14	13.83	29.17	0
9/28/22 10:15	6.087	218.2	9.03	14.09	29.17	0
9/28/22 10:30	3.623	225.9	34.33	13.92	29.18	0
9/28/22 10:45	0.995	196.6	67.67	13.96	29.18	0
9/28/22 11:00	0.992	133.4	27.82	14.3	29.19	0
9/28/22 11:15	1.517	145.3	44.09	14.58	29.19	0
9/28/22 11:30	3.148	290	28.22	14.9	29.18	0
9/28/22 11:45	4.227	333	24.1	15.39	29.17	0
9/28/22 12:00	3.428	310.8	31.21	15.44	29.17	0
9/28/22 12:15	5.271	278.8	19.29	16.44	29.18	0
9/28/22 12:30	4.642	290.7	14.77	16.71	29.18	0
9/28/22 12:45	5.703	297.8	21.25	16.84	29.18	0
9/28/22 13:00	6.828	271.5	8.9	16.54	29.18	0
9/28/22 13:15	6.186	278.2	17.58	16.54	29.17	0
9/28/22 13:30	5.363	233.5	17.39	16.52	29.18	0
9/28/22 13:45	3.652	240.7	34.49	16.6	29.17	0
9/28/22 14:00	1.919	266.1	52.12	16.75	29.17	0
9/28/22 14:15	3.76	280.7	47.69	17.02	29.17	0
9/28/22 14:30	4.113	290	20.4	16.99	29.17	0
9/28/22 14:45	1.892	224.1	45.33	17.24	29.17	0
9/28/22 15:00	3.086	238.4	24.25	17.38	29.17	0
9/28/22 15:15	3.551	228.9	28.86	17.39	29.18	0
9/28/22 15:30	6.442	231.2	8.51	17.09	29.18	0
9/28/22 15:45	5.707	240	12.13	16.62	29.18	0
9/28/22 16:00	1.782	262.8	23.1	16.6	29.18	0
9/28/22 16:15	1.137	155.1	49.8	16.75	29.18	0
9/28/22 16:30	4.136	85.6	11.37	16.75	29.18	0
9/28/22 16:45	4.765	88.3	13.65	16.9	29.18	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
9/28/22 17:00	4.835	106	14.15	16.97	29.18	0
9/28/22 17:15	4.213	104	8.58	16.9	29.18	0
9/28/22 17:30	2.543	90.2	14.08	16.51	29.18	0
9/28/22 17:45	1.891	100.8	27.49	16.29	29.18	0
9/28/22 18:00	1.346	189.5	46.28	16.36	29.19	0
9/28/22 18:15	1.512	182.6	25.43	16.42	29.19	0
9/28/22 18:30	2.863	305.6	90.4	16.15	29.19	0
9/28/22 18:45	1.992	328.8	22.76	16.06	29.2	0
9/28/22 19:00	3.69	12.07	7.089	15.55	29.2	0
9/28/22 19:15	1.473	16.67	8.64	15.52	29.2	0
9/28/22 19:30	1.34	337.2	11.6	16.29	29.2	0
9/28/22 19:45	3.246	14.92	13.27	15.55	29.21	0
9/28/22 20:00	3.791	330.4	49.06	15.44	29.21	0
9/28/22 20:15	4.151	317.5	18.46	15.04	29.21	0
9/28/22 20:30	4.592	309	12.08	14.7	29.21	0
9/28/22 20:45	6.091	290.5	5.602	15.07	29.22	0
9/28/22 21:00	6.576	287	4.782	15.13	29.21	0
9/28/22 21:15	4.503	302.8	8.23	14.93	29.21	0
9/28/22 21:30	5.306	299.2	9.45	14.84	29.21	0
9/28/22 21:45	3.906	354.8	16.6	14.4	29.21	0
9/28/22 22:00	1.527	25.96	41.66	14.1	29.21	0
9/28/22 22:15	2.439	219.9	10.76	14.54	29.22	0
9/28/22 22:30	3.215	259.2	5.498	14.75	29.21	0
9/28/22 22:45	1.058	59.72	52.18	14.34	29.21	0
9/28/22 23:00	1.989	6.144	12.88	14.01	29.21	0
9/28/22 23:15	3.407	23.83	8.79	14.01	29.21	0
9/28/22 23:30	3.125	58.44	14.99	13.95	29.21	0
9/28/22 23:45	2.069	120.7	13.21	13.67	29.21	0
9/29/22 0:00	1.036	139.7	19.73	13.68	29.21	0
9/29/22 0:15	0.907	74.33	9.32	13.76	29.21	0
9/29/22 0:30	1.312	41.09	15.5	13.58	29.21	0
9/29/22 0:45	0.81	66.76	5.527	13.52	29.21	0
9/29/22 1:00	0.79	80.8	6.032	13.81	29.22	0
9/29/22 1:15	0.821	311.3	53.12	13.91	29.22	0
9/29/22 1:30	2.359	203.5	7.645	13.72	29.22	0
9/29/22 1:45	1.663	212.2	21.28	13.73	29.22	0
9/29/22 2:00	1.154	97.1	60.71	13.33	29.22	0
9/29/22 2:15	2.121	161.8	8.95	13.38	29.23	0
9/29/22 2:30	1.483	191.3	7.894	13.57	29.23	0
9/29/22 2:45	1.443	188.7	10.97	13.58	29.23	0
9/29/22 3:00	1.806	174.4	1.112	13.49	29.23	0
9/29/22 3:15	1.889	176.2	0.042	13.56	29.24	0
9/29/22 3:30	0.253	176.1	0.011	13.62	29.24	0
9/29/22 3:45	0.551	351.7	16.65	13.58	29.24	0
9/29/22 4:00	0.931	336	10.41	13.52	29.24	0
9/29/22 4:15	0.565	325.2	21.51	13.59	29.24	0
9/29/22 4:30	2.336	332.8	28.52	13.39	29.25	0
9/29/22 4:45	1.983	349.3	7.585	13.29	29.25	0
9/29/22 5:00	2.774	8.18	13.41	13.43	29.25	0
9/29/22 5:15	3.75	15.37	7.52	13.21	29.26	0
9/29/22 5:30	4.267	5.99	9.86	13.15	29.26	0
9/29/22 5:45	3.287	39.55	30.62	13.24	29.26	0
9/29/22 6:00	3.024	37.85	16.25	13.04	29.27	0
9/29/22 6:15	3.511	13.38	17.33	12.91	29.28	0
9/29/22 6:30	2.079	2.56	11.39	12.68	29.28	0
9/29/22 6:45	0.929	44.29	11.67	12.68	29.29	0
9/29/22 7:00	1.618	23.4	13.46	12.73	29.29	0
9/29/22 7:15	1.051	27.56	6.804	12.89	29.29	0
9/29/22 7:30	1.213	47.86	11.08	13.34	29.3	0
9/29/22 7:45	2.502	29.33	13.96	14.02	29.3	0
9/29/22 8:00	2.759	38.79	11.95	14.19	29.3	0
9/29/22 8:15	2.338	331	40.51	13.82	29.31	0
9/29/22 8:30	0.947	204.7	58.9	13.81	29.31	0
9/29/22 8:45	1.166	158.2	65.96	14.55	29.31	0
9/29/22 9:00	3.603	253.7	16.05	14.7	29.32	0
9/29/22 9:15	4.312	276.8	11.22	14.71	29.33	0
9/29/22 9:30	2.95	5.06	41.13	14.81	29.33	0
9/29/22 9:45	3.569	32.76	7.305	14.62	29.34	0
9/29/22 10:00	3.26	35.47	14.03	14.97	29.34	0
9/29/22 10:15	1.124	323.7	54.81	16.25	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
9/29/22 10:30	1.785	325.5	26.67	16.32	29.34	0
9/29/22 10:45	2.037	358.7	27.35	16.22	29.34	0
9/29/22 11:00	2.672	256.5	70.24	16.4	29.34	0
9/29/22 11:15	4.692	31.83	20.93	16.6	29.34	0
9/29/22 11:30	3.612	39.71	22.89	16.79	29.34	0
9/29/22 11:45	3.766	43.03	16.85	17.24	29.34	0
9/29/22 12:00	4.437	39.94	18.59	17.12	29.34	0
9/29/22 12:15	3.271	29.46	69.52	17.31	29.34	0
9/29/22 12:30	3.769	51.72	30.25	17.93	29.35	0
9/29/22 12:45	4.619	20.75	53.13	18.21	29.35	0
9/29/22 13:00	5.469	42.52	18.07	18.27	29.34	0
9/29/22 13:15	5.375	15.67	19.32	18.21	29.34	0
9/29/22 13:30	3.957	13.11	26.34	18.05	29.34	0
9/29/22 13:45	7.145	340.3	13.02	18.21	29.34	0
9/29/22 14:00	5.89	328.4	16.94	18.91	29.34	0
9/29/22 14:15	6.292	344.8	25.4	19.14	29.34	0
9/29/22 14:30	6.422	332.9	16.2	18.86	29.35	0
9/29/22 14:45	7.156	337.2	12.08	18.85	29.35	0
9/29/22 15:00	7.814	335.4	9.95	18.48	29.35	0
9/29/22 15:15	6.891	340.5	11.75	18.49	29.35	0
9/29/22 15:30	6.828	346.5	11.36	18.39	29.35	0
9/29/22 15:45	5.745	341.8	13.71	18.31	29.35	0
9/29/22 16:00	7.732	313.3	9.61	18.42	29.36	0
9/29/22 16:15	6.279	316.6	10.64	18.54	29.36	0
9/29/22 16:30	5.014	328.7	13.17	18.35	29.36	0
9/29/22 16:45	4.721	297.1	8.51	18.03	29.36	0
9/29/22 17:00	4.23	304.9	5.459	18.15	29.36	0
9/29/22 17:15	5.967	300.2	9.72	18.35	29.36	0
9/29/22 17:30	5.563	297.1	5.734	18.05	29.36	0
9/29/22 17:45	6.183	293.2	5.686	17.51	29.37	0
9/29/22 18:00	6.726	284.4	3.801	17.15	29.37	0
9/29/22 18:15	6.467	289.3	5.49	16.74	29.37	0
9/29/22 18:30	6.613	297.4	3.576	16.28	29.37	0
9/29/22 18:45	4.95	325.9	27.06	16.04	29.37	0
9/29/22 19:00	3.506	358.6	19.63	15.73	29.37	0
9/29/22 19:15	2.36	355.9	24.92	16.13	29.38	0
9/29/22 19:30	1.891	47.28	22.17	15.82	29.38	0
9/29/22 19:45	3.353	35.66	12.48	15.47	29.38	0
9/29/22 20:00	3.556	1.828	8.06	15.56	29.38	0
9/29/22 20:15	2.323	354.2	11.66	15.72	29.38	0
9/29/22 20:30	3.002	329.9	9.33	15.87	29.38	0
9/29/22 20:45	3.713	325.8	8.58	15.84	29.38	0
9/29/22 21:00	2.838	351.9	16.5	15.04	29.39	0
9/29/22 21:15	4.064	340.7	11.13	14.74	29.39	0
9/29/22 21:30	4.299	7.034	3.745	14.09	29.39	0
9/29/22 21:45	5.977	9.67	7.618	13.64	29.39	0
9/29/22 22:00	6.737	6.334	5.163	13.06	29.38	0
9/29/22 22:15	6.232	16.3	7.582	13.31	29.39	0
9/29/22 22:30	6.6	7.84	7.533	13.23	29.39	0
9/29/22 22:45	8.24	13.17	8.78	13.2	29.39	0
9/29/22 23:00	6.546	17.31	10.51	13.14	29.39	0
9/29/22 23:15	6.358	23.25	15.98	12.97	29.39	0
9/29/22 23:30	5.347	42.4	10.02	12.6	29.39	0
9/29/22 23:45	7.135	35.69	7.774	12.95	29.39	0
9/30/22 0:00	5.661	30.94	11	12.58	29.39	0
9/30/22 0:15	6.861	21.36	9.59	12.44	29.39	0
9/30/22 0:30	6.837	26.73	11.95	12.31	29.39	0
9/30/22 0:45	7.51	26.65	7.65	12.23	29.39	0
9/30/22 1:00	8.34	22.41	10.55	12.52	29.39	0
9/30/22 1:15	9.82	21.29	9.43	12.9	29.39	0
9/30/22 1:30	8.01	31.92	10.29	13.1	29.39	0
9/30/22 1:45	6.359	39.48	9.42	12.91	29.4	0
9/30/22 2:00	6.35	33.71	10.76	12.81	29.4	0
9/30/22 2:15	7.21	33.42	11.62	12.67	29.4	0
9/30/22 2:30	7.837	31.43	15.35	12.52	29.39	0
9/30/22 2:45	6.295	15.74	12.63	12.19	29.39	0
9/30/22 3:00	11.45	12.54	8.27	11.97	29.39	0
9/30/22 3:15	9.23	27.02	10.03	11.47	29.39	0
9/30/22 3:30	8.84	33.02	8.11	11.41	29.4	0
9/30/22 3:45	6.36	40.24	10.06	11.23	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
9/30/22 4:00	8.56	27.07	8.63	11.05	29.4	0
9/30/22 4:15	8.42	24.02	8.39	10.92	29.4	0
9/30/22 4:30	8.3	29.13	10.33	10.77	29.39	0
9/30/22 4:45	8.26	34.87	11.85	10.71	29.39	0
9/30/22 5:00	7.895	30.86	11.26	10.59	29.39	0
9/30/22 5:15	6.76	17.01	9.71	10.5	29.39	0
9/30/22 5:30	6.603	14.63	8.69	10.44	29.4	0
9/30/22 5:45	6.892	20.57	8.29	10.44	29.4	0
9/30/22 6:00	6.24	25.96	10.22	10.42	29.4	0
9/30/22 6:15	8.22	23.64	12.27	10.39	29.4	0
9/30/22 6:30	10.55	17.38	8.09	10.37	29.4	0
9/30/22 6:45	11.85	16.07	8.34	10.42	29.4	0
9/30/22 7:00	7.763	9.55	12.86	10.47	29.4	0
9/30/22 7:15	2.589	2.773	24.43	10.58	29.4	0
9/30/22 7:30	4.188	30.37	11.83	10.74	29.4	0
9/30/22 7:45	6.279	24.3	9.77	10.84	29.39	0
9/30/22 8:00	3.822	50.5	21.62	10.91	29.39	0
9/30/22 8:15	3.441	35.58	18.78	10.83	29.39	0
9/30/22 8:30	5.703	25.5	13.02	10.96	29.39	0
9/30/22 8:45	6.936	22.15	9.52	11.36	29.39	0
9/30/22 9:00	6.05	22.55	12.18	11.77	29.39	0
9/30/22 9:15	5.608	12.59	10.18	12.14	29.39	0
9/30/22 9:30	4.608	39.89	17.03	13.01	29.39	0
9/30/22 9:45	4.048	19.7	22.64	13.72	29.38	0
9/30/22 10:00	4.892	27.89	24.17	14.2	29.38	0
9/30/22 10:15	5.194	18.26	22.14	14.24	29.38	0
9/30/22 10:30	4.666	6.283	18.1	14.61	29.38	0
9/30/22 10:45	4.104	19.15	13.62	15.04	29.37	0
9/30/22 11:00	5.181	36.47	16.79	15.48	29.36	0
9/30/22 11:15	5.494	25.58	12.7	15.71	29.36	0
9/30/22 11:30	5.496	9.82	16.51	15.96	29.35	0
9/30/22 11:45	6.168	25.6	15.23	16.44	29.35	0
9/30/22 12:00	5.49	19.1	14.07	16.62	29.34	0
9/30/22 12:15	5.241	22.27	12.04	17.09	29.33	0
9/30/22 12:30	5.233	25.3	13.71	17.28	29.33	0
9/30/22 12:45	5.681	23.93	18.87	17.65	29.32	0
9/30/22 13:00	7.426	22.66	11.48	17.73	29.32	0
9/30/22 13:15	8.91	20.88	9.08	17.8	29.31	0
9/30/22 13:30	8.06	21.4	13.34	18.36	29.31	0
9/30/22 13:45	8.67	19.84	10.15	18.66	29.3	0
9/30/22 14:00	9.21	24.62	9.5	18.59	29.3	0
9/30/22 14:15	9.05	21.84	9.42	18.62	29.29	0
9/30/22 14:30	9.67	20.06	9.01	18.87	29.29	0
9/30/22 14:45	8.39	12.86	13.49	19.04	29.29	0
9/30/22 15:00	7.972	13.97	12.16	19.2	29.29	0
9/30/22 15:15	8.29	11.5	10.79	19.27	29.28	0
9/30/22 15:30	7.397	14.21	12.72	19.37	29.28	0
9/30/22 15:45	8.58	11.09	8.93	19.28	29.27	0
9/30/22 16:00	7.529	14.45	12.21	19.2	29.27	0
9/30/22 16:15	7.018	3.219	12.91	19.2	29.27	0
9/30/22 16:30	7.268	356.4	13.87	19.19	29.27	0
9/30/22 16:45	8.24	357.5	13.64	19.08	29.27	0
9/30/22 17:00	8.78	350.2	12.86	18.94	29.26	0
9/30/22 17:15	6.643	342.1	16.43	18.8	29.26	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
9/30/22 17:30	5.299	323.8	9.19	18.5	29.26	0
9/30/22 17:45	6.431	326.4	14.08	18.02	29.26	0
9/30/22 18:00	6.897	342.5	7.513	17.51	29.26	0
9/30/22 18:15	7.43	0.704	12.35	17.27	29.26	0
9/30/22 18:30	7.251	353.3	12.47	17.03	29.26	0
9/30/22 18:45	6.643	5.883	11.35	16.51	29.26	0
9/30/22 19:00	7.974	4.959	11.54	16.32	29.26	0
9/30/22 19:15	8.52	9.3	7.513	16.09	29.27	0
9/30/22 19:30	8.45	11.14	9.78	15.96	29.27	0
9/30/22 19:45	9.53	18.36	7.832	15.63	29.27	0
9/30/22 20:00	9.76	18.42	8.31	15.38	29.27	0
9/30/22 20:15	6.672	26.98	8.24	15.29	29.27	0
9/30/22 20:30	7.809	23.76	7.697	15.47	29.27	0
9/30/22 20:45	6.206	26.69	8.42	15.23	29.27	0
9/30/22 21:00	6.567	23.98	7.565	14.6	29.27	0
9/30/22 21:15	6.401	29	8.7	14.32	29.26	0
9/30/22 21:30	6.273	21.6	8.41	14.2	29.26	0
9/30/22 21:45	7.092	15.88	11.16	14.08	29.26	0
9/30/22 22:00	6.022	11.35	7.504	13.91	29.26	0
9/30/22 22:15	4.562	16.19	5.804	13.8	29.26	0
9/30/22 22:30	4.389	6.559	9.97	13.7	29.26	0
9/30/22 22:45	3.865	19	8.72	13.76	29.26	0
9/30/22 23:00	4.841	15.13	9.39	13.77	29.26	0
9/30/22 23:15	5.263	20.36	7.581	13.64	29.26	0
9/30/22 23:30	4.749	41.66	8.85	13.02	29.26	0
9/30/22 23:45	5.326	31.01	8.63	12.96	29.26	0
10/1/22 0:00	5.479	21.57	9.49	13.21	29.26	0

APPENDIX D

Area 5 Top Deck Report

CEDAR HILLS REGIONAL LANDFILL
AREA 5 TOP DECK
MONITORING REPORT

Third Quarter 2022

King County

Department of Natural Resources and Parks
Solid Waste Division

December 2022
Printed on recycled paper

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AREA 5 TOP DECK MONITORING
QUARTERLY REPORT

THIRD QUARTER 2022

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 3RD QUARTER of 2022

Time	Leachate	Surface Area of Refuse	Refuse In Place	Precipitation	Flow			
(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	174.29	353.12*	70,076,050,304	48.30	493,572	10,903	0.0027	0.00006
2022	99.24	353.12*	71,403,404,304	30.46	281,051	16,204	0.0025	0.00008

2022: Precipitation and leachate through 3rd Quarter of 2022. Refuse in place through 3rd Quarter 2022.

* 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 third quarter of 2022 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 third quarter of 2022, KCSWD staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A. During the third quarter, aerators continued to operate to control odor from the landfill.

In addition to KCSWD inspections, inspections were performed by Public Health – Seattle & King County (PHSKC) this quarter. 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 third quarter of 2022 surface emission monitoring was conducted in July, 2022 and August 19, 2022. The results from the third quarter of 2022 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 third quarter of 2022 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 work for the closure of Area 7 and the opening on Area 8, all previously surveyed control points in Area 5 were covered. 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 July 7th 22nd, 2022. 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.

CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for 3RD QUARTER of 2022									
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
--	--	12/20/2021	757.09	--	--	--	--	12/20/2021	767.41
		5/5/2022	756.96	--	--	--	--	5/5/2022	767.32
		7/7/2022	756.90	--	--	--	--	7/7/2022	767.24

[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 3RD QUARTER of 2022

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	05/2020- 12/2021	12/2021- 07/2022
[a] A5SM-1	Feet	3.17	2.08	1.49	1.17	1.14	0.77	0.60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A5SM-2	Feet	4.85	3.43	2.41	2.51	1.94	1.51	1.06	0.71	0.97	0.74	0.79	0.46	0.66	0.73	0.54	0.32
[b] A5SM-3	Feet	N/A	1.37	1.26	1.27	1.12	0.97	0.60	1.41	0.05	0.8	0.6	N/A	N/A	N/A	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	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	0.5	0.14
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	0.52	0.23
	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	0.11	0.04	0.04

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

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

[c] PMX20074 was destroyed during Phase 3 of Area 6.

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

IV. STORMWATER SAMPLING

Collection of Samples

No samples were collected from the Area 5 Top Deck stormwater monitoring stations SW-TD1, SW-TD2, SW-TD4, and SW-TD6 during the Second quarter of 2022. 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 2022.

V. CONCLUSION

Stormwater samples for the Area 5 Top Deck were unable to be collected during the second quarter of 2022 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 2022 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).

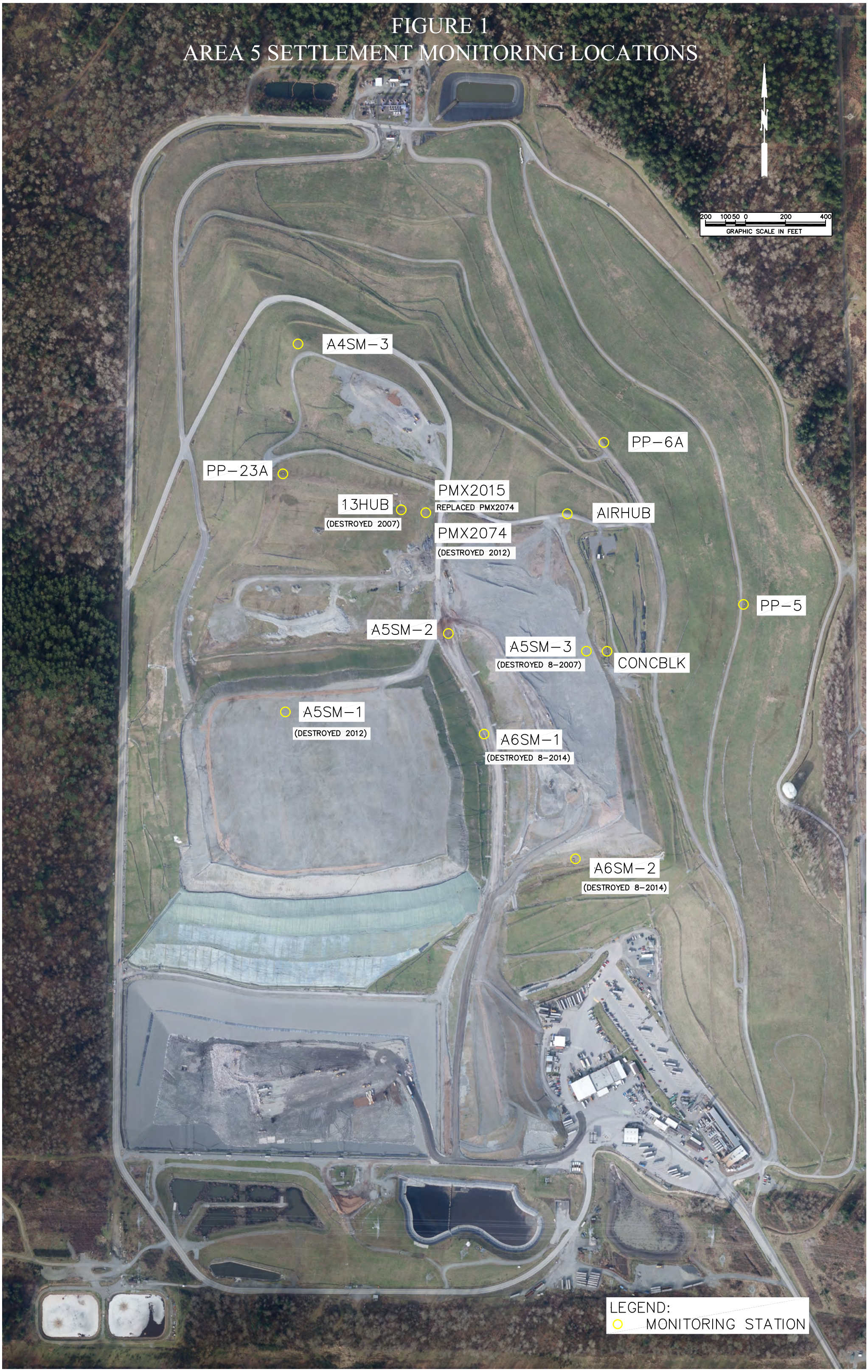
The inspection reports for the second quarter of 2022 showed no issues with the interim cover system for Area 5 and no indication of LFG presence.

Due to survey control points being covered, there is no recent settlement survey data for second quarter of 2022. New survey points will be assessed for future monitoring.

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

Figures

FIGURE 1
AREA 5 SETTLEMENT MONITORING LOCATIONS



N

W — E

100 0 100 200

SCALE IN FEET

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

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

Figure 1

Area 5 Top Deck Stormwater Monitoring Stations

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

Appendix A:
Inspection Reports

Appendix A:
Inspection Reports

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

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

Inspected By: Sterling Bath Date: 7/25/2022

Location: Cedar Hills Ambient Temperature: (66ºF) Weather Condition: Sunny

Inspection Requirements

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

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond	X			
B. North Siltation Pond	X			
C. North SW Lagoon	X			
D. South SW Lagoon	X			
E. South Siltation Pond	X			
F. Sand Filter	X			
G. CB/ Control Structures	X			
H. Pipes/Culverts	X			
I. Trash Racks		X		Two clogged trash racks on the south slope of Area 6.
J. Ditches		X		Damaged stormwater ditches northeast of Area 2/3.
K. Best Management Practices		X		Damaged silt fences north of Area 6. Several damaged triangular silt dikes on the south slope of Area 6. Body of water on the south slope of Area 6.
L. Compliance Points:	X			
a. SW-N4	X			
b. SW-GS1	X			
c. SW-SL3	X			
M. Other:	X			

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Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status Good	Fair	Poor	State Reason if "Fair or Poor", include remedy to get item to 'Good"	Date Corrective Action Implemented
1	K	A6			X		Rills and damaged plastic sheeting on the upper southwest corner of Area 6. Rills should be filled, compacted and hydroseeded. The plastic sheeting should be replaced with new sheeting.	
2	K	A6			X		Four Silt fences north of Area 6 are damaged. These silt fences should be repaired.	
3	J	A2/3			X		Two damaged stormwater ditches on northeast slope of Area 2/3. Both require new sheet metal to repair.	
4	I	A6			X		Two stormwater trash racks are clogged with debris on the south slope of Area 6. The debris should be removed.	
5	K	A6			X		Several damaged triangular silt dikes on the south slope of Area 6 should be removed.	
6	K	A6			X		Body of water on the south slope of Area 6. This area should be regraded when dry to prevent the accumulation of water.	

AREA CODES (Cedar Hills):

Area 2/3 = A2/3
Area 4 = A4
Area 5 = A5
Area 6 = A6
Area 7 = A7
Area 8 = A8
Central Pit = CP
CSW Lagoon = CSW
East Main Hill = EMH
Leachate Lagoon = LL
North Flare Station = NFS
Southeast Pit Area = SEPA
Southwest Main Hill = SWMH
Stockpile = CP

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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 is a damaged stormwater ditch on the northeast slope of Area 2/3 that needs some repair with sheet metal. Silt fences north of Area 6 are damaged. These fences should be repaired. There is a body of water on the south slope of Area 6. This area should be regraded when dry to prevent the accumulation of water. There are damaged triangular silt dikes on the south slope of Area 6 that should be repaired. There are two clogged stormwater trash racks on the south slope of Area 6 that should be unclogged. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 22\07 - Jul\Photos	
Category number:	Action to be Completed. Suggested Remedy:
Category number:	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*

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INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 7/25/2022 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: DocuSigned by: Sterling Bath 9D5B6D432FD9441... Date: Aug 23, 2022

DULY AUTHORIZED REPRESENTATIVE

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

Printed name: Mark Monteiro, Operations Manager

Signature: DocuSigned by: Joseph Newton 97F5C1E8E78F4E4... Date: Aug 23, 2022

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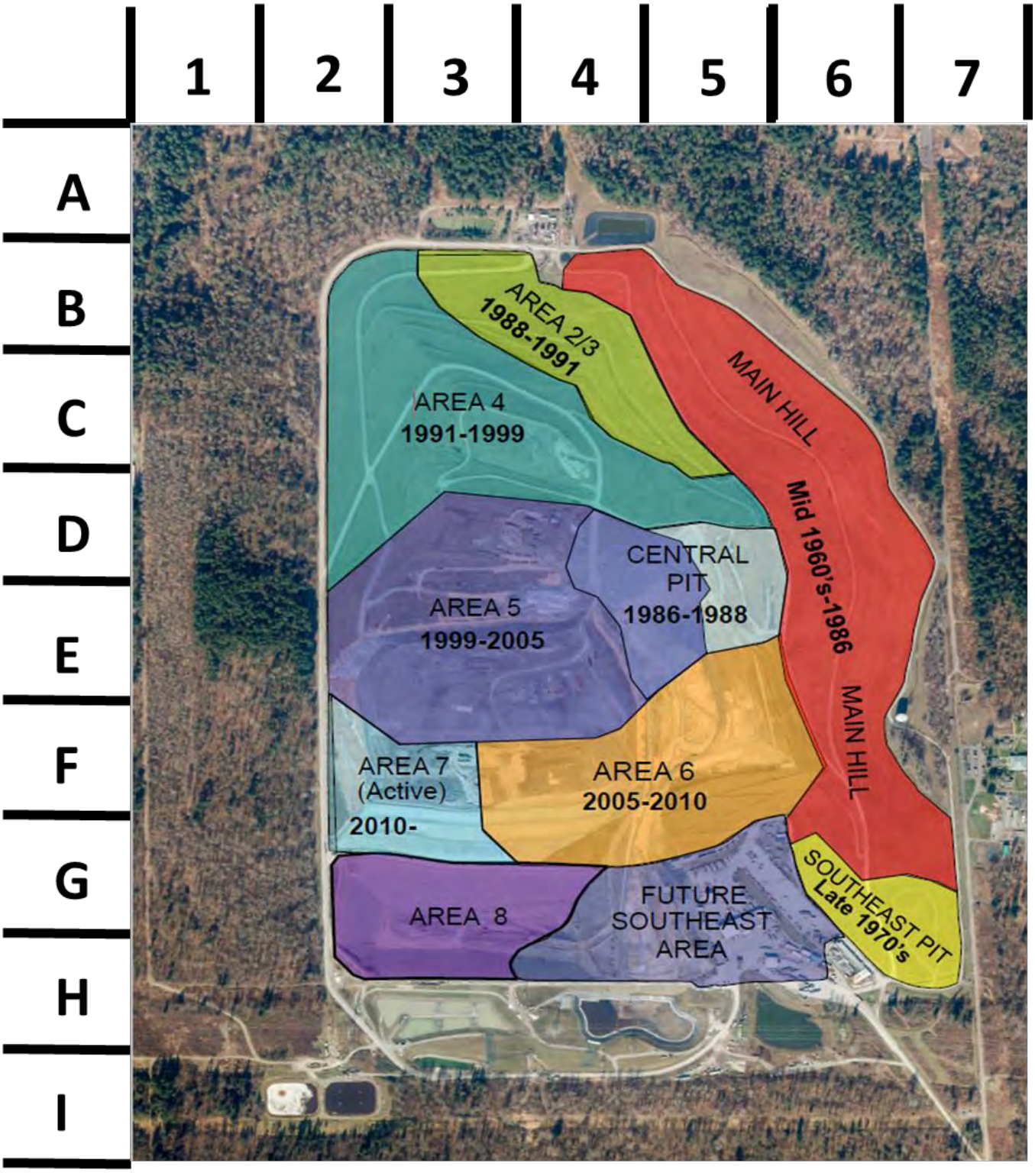

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Permit Compliance

Inspected By: Sterling Bath Date: 7/25/2022

Location: Cedar Hills Ambient Temperature: (66ºF) Weather Condition: Sunny

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.** Boundary 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:	X			**3.** North SW Lagoon	X						
a. Collection Pipes	X			**4.** South SW Lagoon	X						
b. Force Mains	X			**5.** South Siltation Pond	X						
c. Manholes	X			**6.** Sand Filter	X						
d. Cleanouts	X			**7.** CB/ Control Structures	X						
8. Generators	X			**8.** Pipes/Culverts	X						
9. Extraction Wells	X			**9.** Trash Racks		X					
10. Valves/Cleanouts	X			**10.** Ditches		X					
11. Groundwater	X			**11.** Best Management		X					
				12. Compliance Points	X						
				13. Other	X						

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Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status Good	Fair	Poor	State Reason if "Fair or Poor", include remedy to get item to 'Good"	Date Corrective Action Implemented
1	**C4**		**I4**		X		South boundary fence is damaged near intersection of 228th and 227th Avenues SE and near the middle of the south boundary.	
2	**C5**		**I4**		X		Branches need to be cut back above the south boundary fence	
3	**E3**		**D7**		X		East boundary road is eroded in one location.	
4	**D10**	**A2/3**			X		Damaged stormwater ditch on northeast slope of Area 2/3. Will need new sheet metal to repair.	
5	**D11**	**A6**			X		Silt fences north of Area 6 are damaged. These silt fences should be repaired.	
6	**D11**	**A6**			X		Body of water on the south slope of Area 6. This area should be regraded when dry to prevent the accumulation of water.	
7	**D11**	**A6**			X		Several damaged triangular silt dikes on the south slope of Area 6 should be removed.	
8	**D9**	**A6**			X		Two stormwater trash racks are clogged with debris on the south slope of Area 6. The debris should be removed.	

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	

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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. The south boundary fence is damaged in near the intersection of 228th and 227th and the middle of the boundary fence should be repaired. Branches need to be cut back above the south boundary fence. A portion of the road along the east boundary of the site is eroding and should be redone. There is a damaged stormwater ditch on the northeast slope of Area 2/3 that needs some repair with sheet metal. Silt fences north of Area 6 are damaged. These fences should be repaired. There is a body of water on the south slope of Area 6. This area should be regraded when dry to prevent the accumulation of water. There are damaged triangular silt dikes on the south slope of Area 6 that should be repaired. There are two clogged stormwater trash racks on the south slope of Area 6 that should be unclogged. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 22\07 - Jul\Photos

Category number:	Action to be Completed. Suggested Remedy:
Category number:	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*

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INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 7/25/2022 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: DocuSigned by: Sterling Bath 9D5B6D432FD9441... Date: Aug 23, 2022

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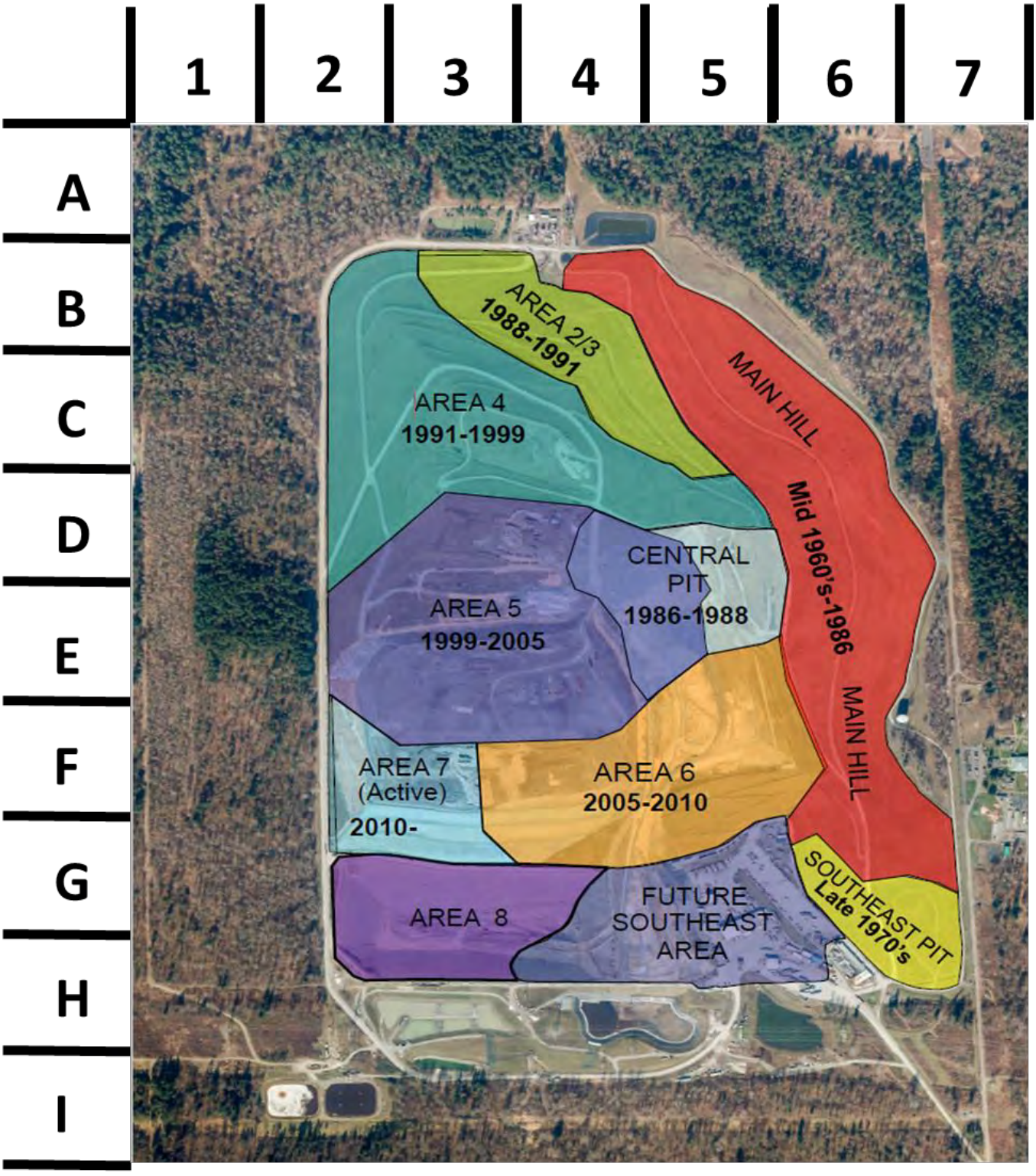

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

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

Inspected By: Sterling Bath Date: 8/19/2022

Location: Cedar Hills Ambient Temperature: (70ºF) Weather Condition: Overcast

Inspection Requirements

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

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond	X			
B. North Siltation Pond	X			
C. North SW Lagoon	X			
D. South SW Lagoon	X			
E. South Siltation Pond	X			
F. Sand Filter	X			
G. CB/ Control Structures	X			
H. Pipes/Culverts	X			
I. Trash Racks		X		Two clogged trash racks on the south slope of Area 6.
J. Ditches	X			
K. Best Management Practices		X		Damaged silt fences north of Area 6. Several damaged triangular silt dikes on the south slope of Area 6. Body of water on the south slope of Area 6. Rills and damaged plastic sheeting on the sheeting
L. Compliance Points:	X			
a. SW-N4	X			
b. SW-GS1	X			
c. SW-SL3	X			
M. Other:	X			

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Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status Good	Fair	Poor	State Reason if "Fair or Poor", include remedy to get item to 'Good"	Date Corrective Action Implemented
1	K	A6			X		Silt fences north of Area 6 are damaged. These silt fences should be repaired.	
2	K	A6			X		Body of water on the south slope of Area 6. Work is currently underway to prevent the accumulation of water in this area.	
3	K	A6			X		Several damaged triangular silt dikes on the south slope of Area 6 should be removed.	
4	I	A6			X		Two stormwater trash racks are clogged with debris on the south slope of Area 6. The debris should be removed.	
5	K	A6			X		Rills and damaged plastic sheeting on the upper southwest corner of Area 6. Rills should be filled, compacted and hydroseeded. The plastic sheeting should be replaced with new sheeting.	

AREA CODES (Cedar Hills):

Area 2/3 = A2/3
Area 4 = A4
Area 5 = A5
Area 6 = A6
Area 7 = A7
Area 8 = A8
Central Pit = CP
CSW Lagoon = CSW
East Main Hill = EMH
Leachate Lagoon = LL
North Flare Station = NFS
Southeast Pit Area = SEPA
Southwest Main Hill = SWMH
Stockpile = CP

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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. Silt fences north of Area 6 are damaged. These fences should be repaired. There is a body of water on the south slope of Area 6. This area is currently in the process of being modified to prevent the accumulation of water. There are damaged triangular silt dikes on the south slope of Area 6 that should be repaired. There are two clogged stormwater trash racks on the south slope of Area 6 that should be unclogged. There is some rilling and damaged plastic sheeting on the upper southwest corner of Area 6. Rills should be filled, compacted and hydroseeded. The existing plastic sheeting should be replaced with new sheeting. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 22\08 - Aug\Photos

Category number:	Action to be Completed. Suggested Remedy:
Category number:	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*

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INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 8/19/2022 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: DocuSigned by: Sterling Bath 9D5B6D432FD9441... Date: Oct 26, 2022

DULY AUTHORIZED REPRESENTATIVE

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

Printed name: Mark Monteiro, Operations Manager

Signature: DocuSigned by: Scott Borden 3C6E21EE72DF43C... Date: Oct 26, 2022

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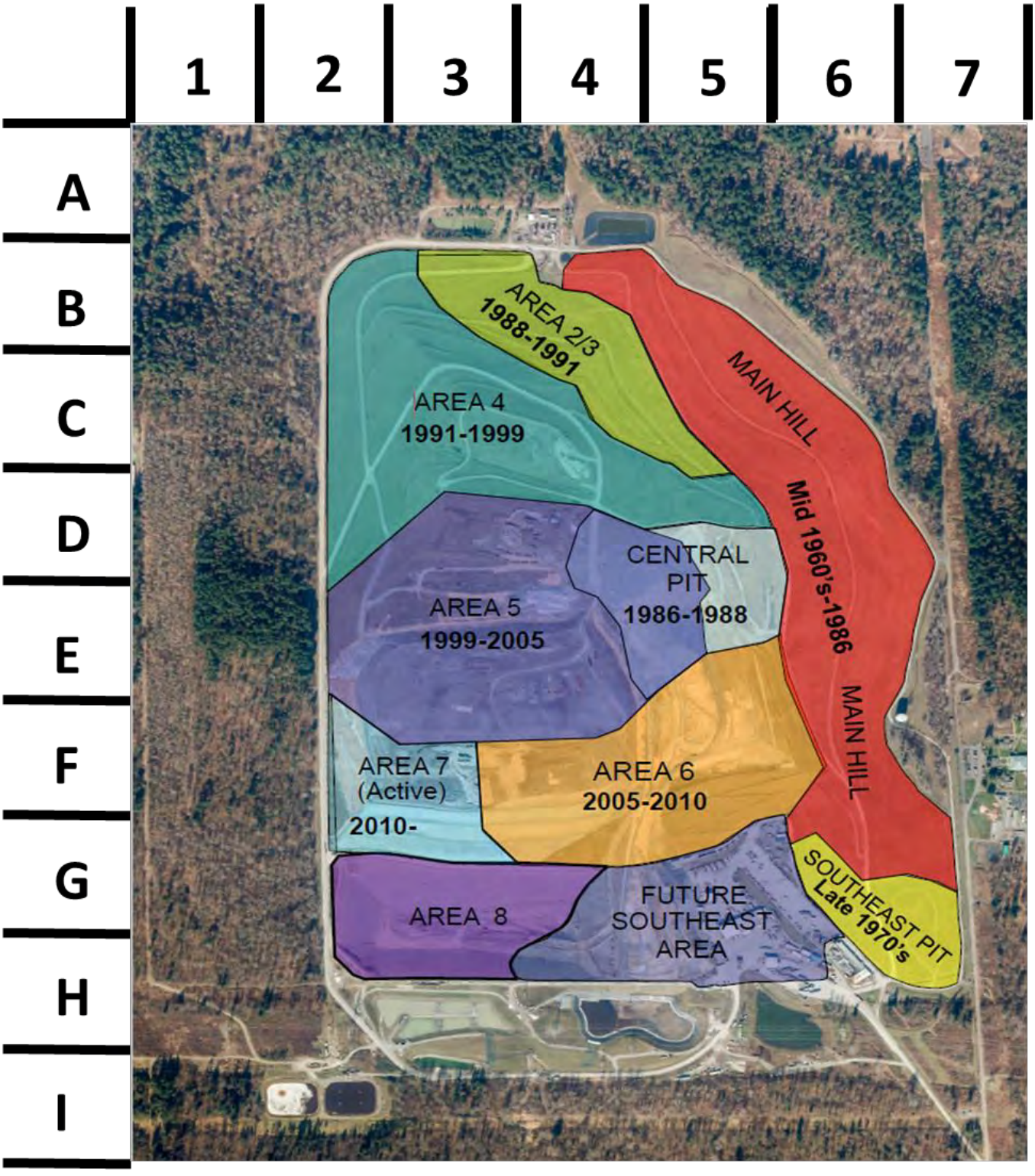

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Permit Compliance

Inspected By: Sterling Bath Date: 8/19/2022

Location: Cedar Hills Ambient Temperature: (70ºF) Weather Condition: Overcast

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.** Boundary 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:	X			**3.** North SW Lagoon	X						
a. Collection Pipes	X			**4.** South SW Lagoon	X						
b. Force Mains	X			**5.** South Siltation Pond	X						
c. Manholes	X			**6.** Sand Filter	X						
d. Cleanouts	X			**7.** CB/ Control Structures	X						
8. Generators	X			**8.** Pipes/Culverts	X						
9. Extraction Wells	X			**9.** Trash Racks		X					
10. Valves/Cleanouts	X			**10.** Ditches	X						
11. Groundwater	X			**11.** Best Management		X					
				12. Compliance Points	X						
				13. Other	X						

DocuSign Envelope ID: 66BB4FEE-D00E-41D7-B13D-1F18BC8E2B41

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status Good	Fair	Poor	State Reason if "Fair or Poor", include remedy to get item to 'Good"	Date Corrective Action Implemented
1	**C4**		**I4**		X		South boundary fence is damaged near intersection of 228th and 227th Avenues SE should be repaired.	
2	**E3**		**D7**		X		East boundary road is eroded in one location. Rebuild eroded portion of the road.	
3	**D11**	**A6**			X		Silt fences north of Area 6 are damaged. These silt fences should be repaired.	
4	**D11**	**A6**			X		Body of water on the south slope of Area 6. Work is currently underway to prevent the accumulation of water in this area.	
5	**D11**	**A6**			X		Several damaged triangular silt dikes on the south slope of Area 6 should be removed.	
6	**D9**	**A6**			X		Two stormwater trash racks are clogged with debris on the south slope of Area 6. The debris should be removed.	
7	**D11**	**A6**			X		Rills and damaged plastic sheeting on the upper southwest corner of Area 6. Rills should be filled, compacted and hydroseeded. The plastic sheeting should be replaced with new sheeting.	

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	

DocuSign Envelope ID: 66BB4FEE-D00E-41D7-B13D-1F18BC8E2B41

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. The south boundary fence is damaged in near the intersection of 228th and 227th and the middle of the boundary fence and should be repaired. portion of the road along the east boundary of the site is eroding and should be redone. Silt fences north of Area 6 are damaged. These fences should be repaired. There is a body of water on the south slope of Area 6. This area is currently in the process of being modified to prevent the accumulation of water. There are damaged triangular silt dikes on the south slope of Area 6 that should be repaired. There are two clogged stormwater trash racks on the south slope of Area 6 that should be unclogged. There is some rilling and damaged plastic sheeting on the upper southwest corner of Area 6. Rills should be filled, compacted and hydroseeded. The existing plastic sheeting should be replaced with new sheeting. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 22\08 - Aug\Photos

Category number:	Action to be Completed. Suggested Remedy:
Category number:	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*

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INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 8/19/2022 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: DocuSigned by: Sterling Bath 9D5B6D432FD9441... Date: Oct 26, 2022

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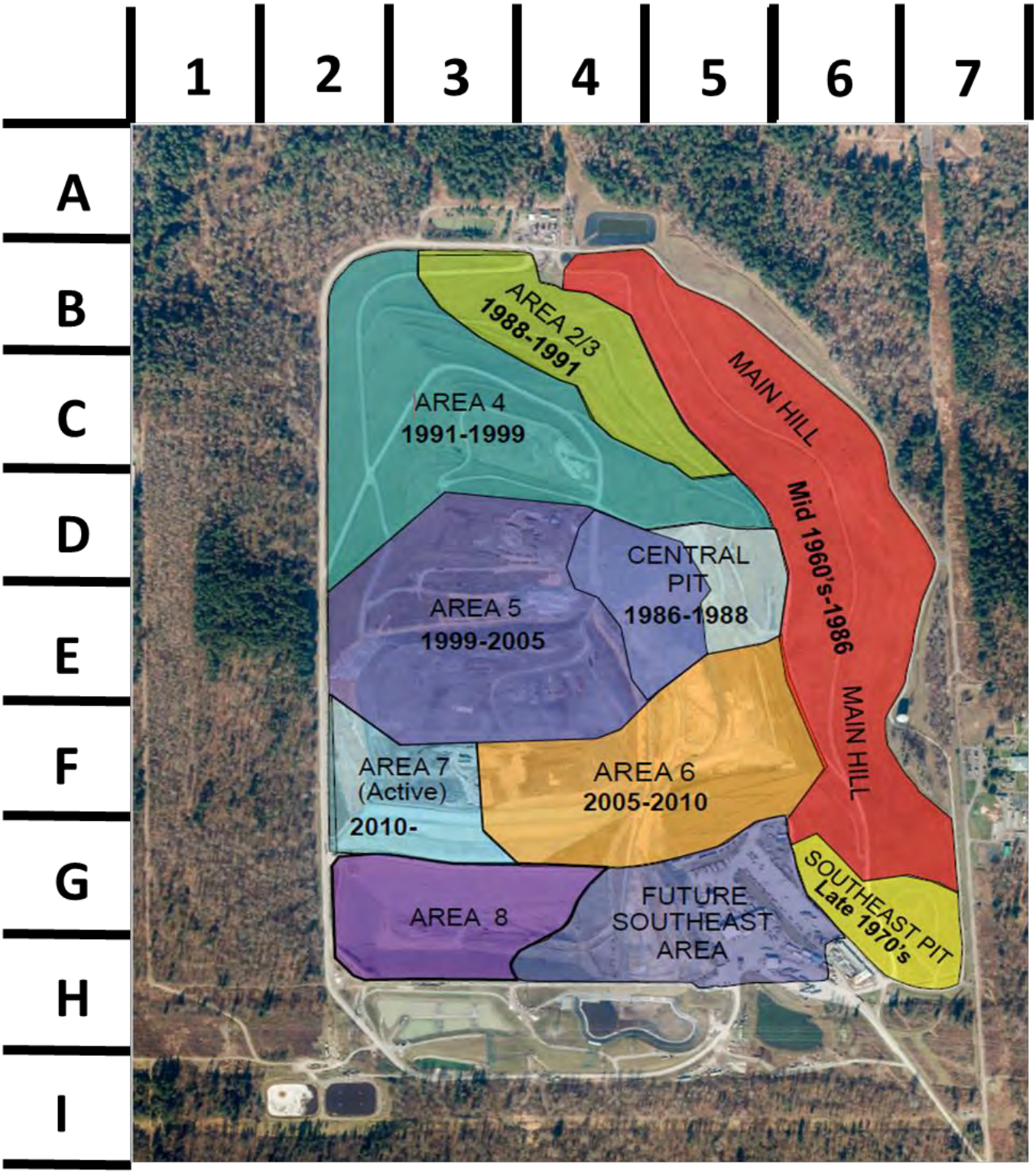

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

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

Inspected By: Sterling Bath Date: 9/19/2022

Location: Cedar Hills Ambient Temperature: (52ºF) Weather Condition: Sunny

Inspection Requirements

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

Stormwater System Action Code	Good	Fair	Poor	Comments
A. CSW Pond	X			
B. North Siltation Pond	X			
C. North SW Lagoon	X			
D. South SW Lagoon	X			
E. South Siltation Pond	X			
F. Sand Filter	X			
G. CB/ Control Structures	X			
H. Pipes/Culverts	X			
I. Trash Racks		X		Clogged trash rack on the south slope of Area 6.
J. Ditches	X			
K. Best Management Practices		X		Damaged silt fences north of Area 6.
L. Compliance Points:	X			
a. SW-N4	X			
b. SW-GS1	X			
c. SW-SL3	X			
M. Other:	X			

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Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status Good	Fair	Poor	State Reason if "Fair or Poor", include remedy to get item to 'Good"	Date Corrective Action Implemented
1	K	A6			X		Silt fences north of Area 6 are damaged and the fabric has come loose. The fences should be repaired, and the fabric reattached.	
2	I	A6			X		One Stormwater trash rack is clogged with debris on the south slope of Area 6. The debris should be removed.	

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 = CP
Area 5 = A5	Central Pit = CP	North Flare Station = NFS	
Area 6 = A6	CSW Lagoon = CSW	Southeast Pit Area = SEPA	

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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. Silt fences north of Area 6 are damaged and the fabric has come loose from the posts. These fences should be repaired, and the fabric should be reattached to the fence posts. There is one clogged stormwater trash rack on the south slope of Area 6 that should be unclogged. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 22\09 - Sep\Photos	
Category number:	Action to be Completed. Suggested Remedy:
Category number:	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*

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INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 9/19/2022 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: DocuSigned by: Sterling Bath 9D5B6D432FD9441... Date: Oct 26, 2022

DULY AUTHORIZED REPRESENTATIVE

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

Printed name: Mark Monteiro, Operations Manager

Signature: DocuSigned by: Scott Borden 3C6E21EE72DF43C... Date: Oct 26, 2022

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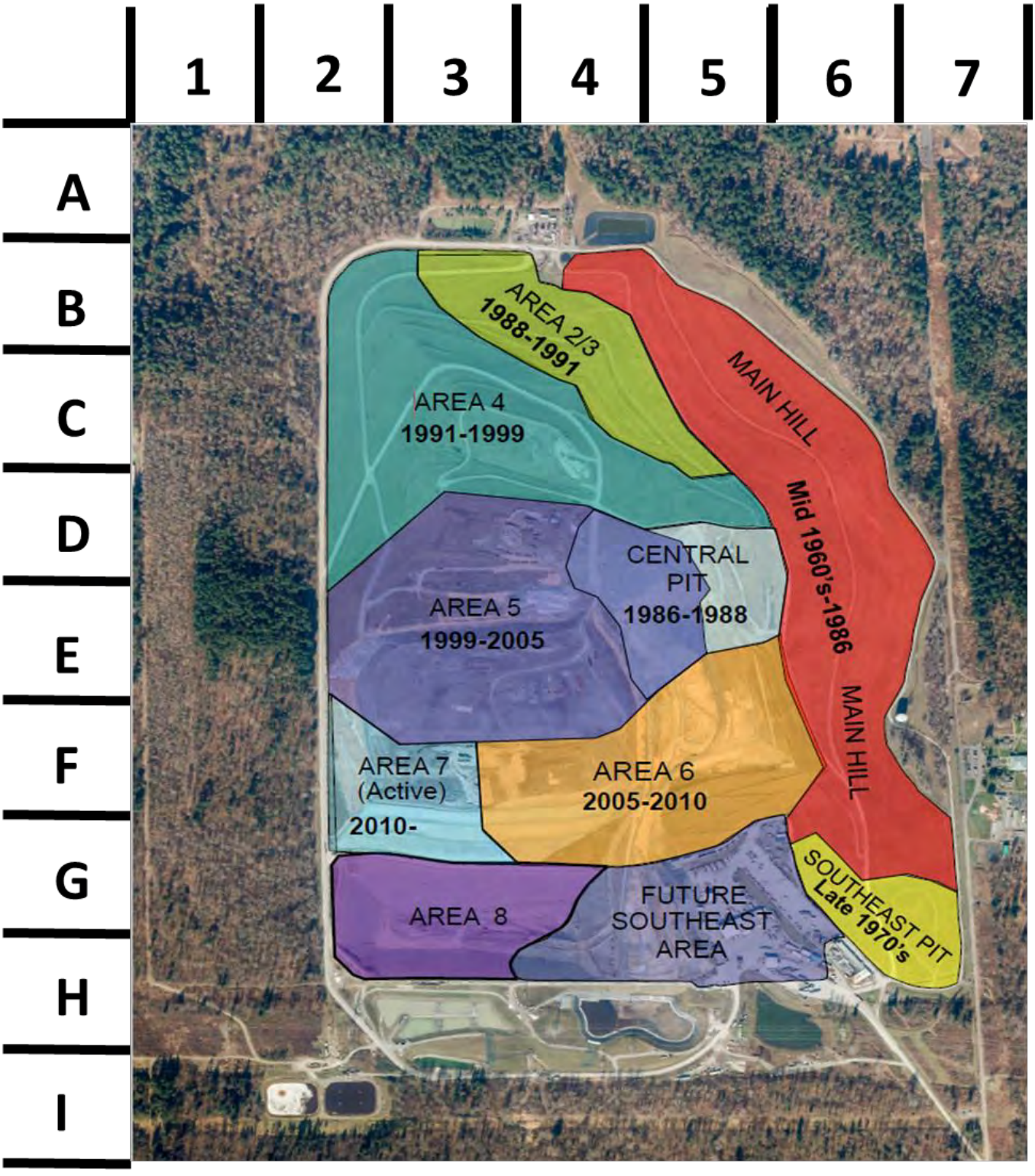

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SOLID WASTE DIVISION

Cedar Hills Regional Landfill Monthly Facility Inspection

Site Inspection: Permit Compliance

Inspected By: Sterling Bath Date: 9/19/2022

Location: Cedar Hills Ambient Temperature: (52ºF) Weather Condition: Sunny

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.** Boundary 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:	X			**3.** North SW Lagoon	X						
a. Collection Pipes	X			**4.** South SW Lagoon	X						
b. Force Mains	X			**5.** South Siltation Pond	X						
c. Manholes	X			**6.** Sand Filter	X						
d. Cleanouts	X			**7.** CB/ Control Structures	X						
8. Generators	X			**8.** Pipes/Culverts	X						
9. Extraction Wells	X			**9.** Trash Racks		X					
10. Valves/Cleanouts	X			**10.** Ditches	X						
11. Groundwater	X			**11.** Best Management		X					
				12. Compliance Points	X						
				13. Other	X						

DocuSign Envelope ID: 66BB4FEE-D00E-41D7-B13D-1F18BC8E2B41

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area	Map	Status Good	Fair	Poor	State Reason if "Fair or Poor", include remedy to get item to 'Good"	Date Corrective Action Implemented
1	**C4**		**I4**		X		South boundary fence is damaged near intersection of 228th and 227th Avenues SE should be repaired.	
2	**E3**		**D7**		X		East boundary road is eroded in one location. Rebuild eroded portion of the road.	
3	**D11**	**A6**			X		Silt fences north of Area 6 are damaged and the fabric has come loose. The fences should be repaired, and the fabric reattached.	
4	**D9**	**A6**			X		One Stormwater trash rack is clogged with debris on the south slope of Area 6. The debris should be removed.	
5	**C11**	**A6**			X		Debris on the south slope of Area 6 should be removed.	

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

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

Overall site description day of site inspection: Overall the site is maintained. The south boundary fence is damaged in near the intersection of 228th and 227th and should be repaired. A portion of the road along the east boundary of the site is eroding and should be redone. Silt fences north of Area 6 are damaged and the fabric has come loose. These fences should be repaired, and fabric should be reattached to the posts. One clogged stormwater trash racks on the south slope of Area 6 that should be unclogged. There is some debris on the south slope of Area 6 that should be removed. Photos taken during the site inspection can be found at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 22\09 - Sep\Photos	
Category number:	Action to be Completed. Suggested Remedy:
Category number:	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*

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INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 9/19/2022 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.*

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Printed name: Sterling Bath

Signature: DocuSigned by: Sterling Bath 9D5B6D432FD9441... Date: Oct 26, 2022

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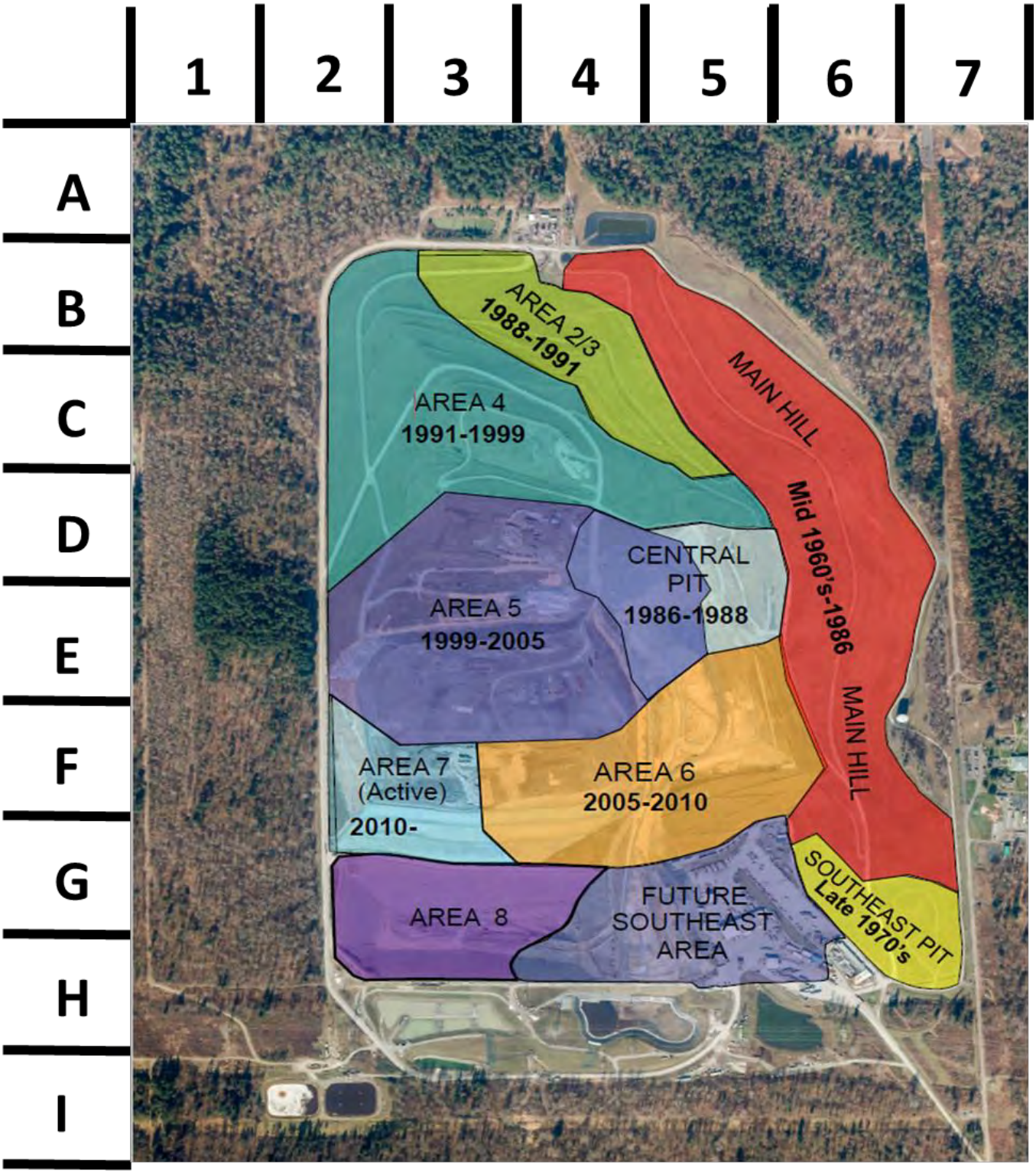

SOLID WASTE INSPECTION REPORT

Public Health
Seattle & King County

PUBLIC HEALTH - SEATTLE & KING COUNTY	PURPOSE OF VISIT:
Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	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, July 20, 2022 **Time In:** 10:05 am **Time Out:** 1:50 pm **Inspector:** Jeromeo Cruz **Result:** **UNSATISFACTORY**

VIOLATIONS OBSERVED (if any)

-0838-Litter must be controlled

All owners or operators of MSWLF units must operate the facility so as to collect scattered litter as necessary to prevent vector harborage, a fire hazard, an aesthetic nuisance, or adversely affect wildlife or its habitat. WAC 173-351-220 (2)

OVERALL INSPECTION COMMENTS:

Actions and Recommendations:

1. During visual inspection of east perimeter fence, we noted construction work on Pump Stations 2 and 3. Requesting brief description of planned and ongoing work.

2. Visited Flare station – requesting latest methane gas exceedances/monitoring report.

3. The perimeter fence along the east property boundary appears to be in good shape, however, the west and southwestern fence requires maintenance (see 6/17/2022 inspection report). WAC 173-351-200(6) requires that the owner or operator control public access and prevent unauthorized vehicular traffic, illegal dumping of wastes, and controls to keep animals out by using artificial barriers, natural barriers, or both, as appropriate to protect human health and the environment. Table A-1 of the Plan of Operations also requires inspection and maintenance of perimeter fences. Recommend inspection and maintenance of complete perimeter fencing around the landfill property.

4. Dust was being kicked up at the Area 8 access road. Pictures were provided to Joseph Newton after the inspection. Soon afterwards, Mr. Newton rerouted the water truck to go to the area to apply water. Recommend more frequent dust control operations during sunny and high temperature days and to frequent remove dirt which spills onto asphalt road along access to Area 8 active face. Pictures provided. WAC 173-351-220(1) requires all owners and operators of MSWLF units to control road dust.

5. Plastic bags continue to hang from trees that line the road west of Area 8. WAC 173-351-220(2) requires collecting scattered litter to prevent vector harborage, a fire hazard, an aesthetic nuisance, and adversely affect wildlife or its habitat.

6. Wildlife biologist at Area 8 was conducting bird control measures. The biologist demonstrated to Public Health inspectors on how he deters birds from assembling at the landfill.

Observations:

- Both aerators were operating at the time of the visit. No odors detected at the aerator area during visit.
- Slight odor at the scale house noted.
- No exceptional waste inspection reports. In the future, I would like to discuss waste inspection process of loads entering landfill scalehouse and tipped loads, if any.
- The North Flare station was visited along with the Motor Control Center building upgrade (still in construction).

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

Jerome Cruz
Environmental Scientist III

Scott Barden
Assistant Operations Manager - SWD

PIC Phone #: **Email:**

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
- [x] 0838-Litter must be controlled
- [ ] 0839-Scavenging must be prohibited
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- [ ] 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 overfilling 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

PUBLIC HEALTH - SEATTLE & KING COUNTY	PURPOSE OF VISIT:
Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	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:** Friday, August 19, 2022 **Time In:** 9:57 am **Time Out:** 11:45 am **Inspector:** Jeromeo Cruz **Result: COMPLETE**

VIOLATIONS OBSERVED (if any)

-0838-Litter must be controlled

All owners or operators of MSWLF units must operate the facility so as to collect scattered litter as necessary to prevent vector harborage, a fire hazard, an aesthetic nuisance, or adversely affect wildlife or its habitat. WAC 173-351-220 (2)

Plastic bags continue to hang from trees that line the road west of Area 8. WAC 173-351-220(2) requires collecting scattered litter to prevent vector harborage, a fire hazard, an aesthetic nuisance, and adversely affect wildlife or its habitat. This was mentioned 4 times from past inspections and "violation code -0838-Litter must be controlled" 2 times (6/17/2022 and 7/20/2022 inspection reports). Inspection report of 5/27/2022 requested removal from trees within 30 days of receipt of report.

OVERALL INSPECTION COMMENTS:

Actions and Recommendations:

1. Dust observed to be kicked up by heavy vehicles at Area 7 and 8 (in particular, the turning road from the west perimeter road into Area 8). Water truck was not observed at area. Recommend more attention to dust control in these areas. WAC 173-351-220(1) requires all owners and operators of MSWLF units to control road dust.

2. Along east perimeter road near MW-109, I observed some litter and scattered orange traffic cones by the wayside. Observed litter includes unidentified aluminum colored textile (picture attached). Recommend street crews do a sweep along the perimeter road for litter pickup.

3. Observed large cobbles and stones on turning road from west perimeter road to Area 8 (picture attached). This is a possible safety hazard if the cobbles get kicked out from underneath the tires of trucks.

4. The North Flare station was visited along with the Motor Control Center building upgrade (still in construction). Methane monitoring spreadsheet was submitted upon request after inspection. There appears to be two methane exceedances on 8/17/2022 for GP-47S and GP-47L. Public Health has notified KCSWD of the exceedances and will work with them on whether follow up work is needed.

Observations:

- July and August unacceptable waste forms show several documented instances of unacceptable waste that entered into landfill (excessive liquid, TVs, C&D waste, mattresses). Are there specially designated areas for these when they enter into the landfill? How is the information used? Jerome will follow up with Kris Beatty
- Both aerators at the leachate ponds were operating at the time of the visit. No odors detected at the leachate pond area during visit.
- Speed limit did not appear to be followed by some vehicles on west perimeter road.

Jerome Cruz
ES III

Scott Barden
Assistant Operations Manager - SWD

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Cedar Hills Area 5 Maintenance

for the period 07/01/2022 *to* 09/30/2022

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	0000026301	CLOSED	Monthy Gas System PM	07/21/2022	N
	CHAREA5	0000026301	CLOSED	Monthly Stormwater PM	07/21/2022	N
	CHAREA5	0000026301	CLOSED	Monthly Cover System PM	07/21/2022	N
	CHAREA5	0000026436	CLOSED	Monthy Gas System PM	08/28/2022	N
	CHAREA5	0000026436	CLOSED	Monthly Stormwater PM	08/28/2022	N
	CHAREA5	0000026436	CLOSED	Monthly Cover System PM	08/28/2022	N
	CHAREA5	0000026576	CLOSED	Monthy Gas System PM	09/20/2022	N
	CHAREA5	0000026576	CLOSED	Monthly Stormwater PM	09/20/2022	N
	CHAREA5	0000026576	CLOSED	Monthly Cover System PM	09/20/2022	N
	CHAREA5E	0000026222	CLOSED	Monthly Header PM	07/12/2022	N
	CHAREA5E	0000026364	CLOSED	Monthly Header PM	08/27/2022	N
	CHAREA5W	0000026221	CLOSED	Monthly Header PM	07/29/2022	N
	CHAREA5W	0000026363	CLOSED	Monthly Header PM	08/20/2022	N

Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 07/01/2022 *to* 09/30/2022

Click the blue 'Y' to see notes

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Catch Basins						
	Cedar Hills	0000054612	CLOSED	PMM	07/03/2022	N
	Cedar Hills	0000054947	CLOSED	PMM	08/07/2022	Y
	Cedar Hills	0000055285	CLOSED	PMM	09/08/2022	N
Trash Racks						
	Cedar Hills	0000054611	CLOSED	PMW	07/03/2022	Y
	Cedar Hills	0000054692	CLOSED	PMW	07/10/2022	Y
	Cedar Hills	0000054756	CLOSED	PMW	07/17/2022	Y
	Cedar Hills	0000054832	CLOSED	PMW	07/24/2022	Y
	Cedar Hills	0000054870	CLOSED	PMW	07/31/2022	Y
	Cedar Hills	0000054946	CLOSED	PMW	08/07/2022	Y
	Cedar Hills	0000055009	CLOSED	PMW	08/14/2022	Y
	Cedar Hills	0000055079	CLOSED	PMW	08/21/2022	N
	Cedar Hills	0000055145	CLOSED	PMW	08/29/2022	N
	Cedar Hills	0000055284	CLOSED	PMW	09/08/2022	N
	Cedar Hills	0000055382	CLOSED	PMW	09/16/2022	Y
	Cedar Hills	0000055398	CLOSED	PMW	09/20/2022	Y
	Cedar Hills	0000055449	CLOSED	PMW	09/26/2022	Y
Ditches						
	Cedar Hills	0000054031	CLOSED	PMQ	07/01/2022	N
	Cedar Hills	0000054611	CLOSED	PMW	07/03/2022	Y
	Cedar Hills	0000054612	CLOSED	PMM	07/03/2022	N
	Cedar Hills	0000054692	CLOSED	PMW	07/10/2022	Y
	Cedar Hills	0000054756	CLOSED	PMW	07/17/2022	Y
	Cedar Hills	0000054832	CLOSED	PMW	07/24/2022	Y
	Cedar Hills	0000054870	CLOSED	PMW	07/31/2022	Y
	Cedar Hills	0000054946	CLOSED	PMW	08/07/2022	Y
	Cedar Hills	0000054947	CLOSED	PMM	08/07/2022	Y
	Cedar Hills	0000055009	CLOSED	PMW	08/14/2022	Y

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000055079	CLOSED	PMW	08/21/2022	N
	Cedar Hills	0000055145	CLOSED	PMW	08/29/2022	N
	Cedar Hills	0000055284	CLOSED	PMW	09/08/2022	N
	Cedar Hills	0000055285	CLOSED	PMM	09/08/2022	N
	Cedar Hills	0000055382	CLOSED	PMW	09/16/2022	Y
	Cedar Hills	0000055398	CLOSED	PMW	09/20/2022	Y
	Cedar Hills	0000055449	CLOSED	PMW	09/26/2022	Y
Pipes/Culverts						
	Cedar Hills	0000054031	CLOSED	PMQ	07/01/2022	N
Ponds/Lagoons						
	Cedar Hills	0000054031	CLOSED	PMQ	07/01/2022	N
	Cedar Hills	0000054611	CLOSED	PMW	07/03/2022	Y
	Cedar Hills	0000054692	CLOSED	PMW	07/10/2022	Y
	Cedar Hills	0000054756	CLOSED	PMW	07/17/2022	Y
	Cedar Hills	0000054832	CLOSED	PMW	07/24/2022	Y
	Cedar Hills	0000054870	CLOSED	PMW	07/31/2022	Y
	Cedar Hills	0000054946	CLOSED	PMW	08/07/2022	Y
	Cedar Hills	0000055009	CLOSED	PMW	08/14/2022	Y
	Cedar Hills	0000055079	CLOSED	PMW	08/21/2022	N
	Cedar Hills	0000055145	CLOSED	PMW	08/29/2022	N
	Cedar Hills	0000055284	CLOSED	PMW	09/08/2022	N
	Cedar Hills	0000055382	CLOSED	PMW	09/16/2022	Y
	Cedar Hills	0000055398	CLOSED	PMW	09/20/2022	Y
	Cedar Hills	0000055449	CLOSED	PMW	09/26/2022	Y
General						
	Cedar Hills	0000054031	CLOSED	PMQ	07/01/2022	N
	Cedar Hills	0000054611	CLOSED	PMW	07/03/2022	Y
	Cedar Hills	0000054692	CLOSED	PMW	07/10/2022	Y
	Cedar Hills	0000054756	CLOSED	PMW	07/17/2022	Y
	Cedar Hills	0000054832	CLOSED	PMW	07/24/2022	Y
	Cedar Hills	0000054870	CLOSED	PMW	07/31/2022	Y
	Cedar Hills	0000054946	CLOSED	PMW	08/07/2022	Y

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000055009	CLOSED	PMW	08/14/2022	Y
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	Cedar Hills	0000055284	CLOSED	PMW	09/08/2022	N
	Cedar Hills	0000055382	CLOSED	PMW	09/16/2022	Y
	Cedar Hills	0000055398	CLOSED	PMW	09/20/2022	Y
	Cedar Hills	0000055449	CLOSED	PMW	09/26/2022	Y
Leachate System						
	LEPS	0000054590	CLOSED	PMW	07/05/2022	N
	LEPS	0000054591	CLOSED	PMM	07/16/2022	Y
	LEPS	0000054697	CLOSED	PMW	07/11/2022	N
	LEPS	0000054786	CLOSED	PMW	07/18/2022	N
	LEPS	0000054814	CLOSED	PMW	07/26/2022	N
	LEPS	0000054878	CLOSED	PMW	08/01/2022	N
	LEPS	0000054919	CLOSED	PMW	08/09/2022	N
	LEPS	0000054928	CLOSED	PMM	08/12/2022	Y
	LEPS	0000055012	CLOSED	PMW	08/15/2022	N
	LEPS	0000055096	CLOSED	PMW	08/22/2022	N
	LEPS	0000055133	CLOSED	PMW	08/29/2022	N
	LEPS	0000055236	CLOSED	PMW	09/08/2022	N
	LEPS	0000055244	CLOSED	PMM	09/08/2022	Y
	LEPS	0000055320	CLOSED	PMW	09/13/2022	Y
	LEPS	0000055358	CLOSED	PMW	09/19/2022	N
	Cedar Hills	0000054031	CLOSED	PMQ	07/01/2022	N
	CHPS1	0000054598	CLOSED	PMW	07/05/2022	N
	CHPS1	0000054704	CLOSED	PMW	07/11/2022	N
	CHPS1	0000054793	CLOSED	PMW	07/18/2022	N
	CHPS1	0000054821	CLOSED	PMW	07/26/2022	N
	CHPS1	0000054884	CLOSED	PMW	08/01/2022	N
	CHPS1	0000054926	CLOSED	PMW	08/09/2022	N
	CHPS1	0000055018	CLOSED	PMW	08/15/2022	N
	CHPS1	0000055103	CLOSED	PMW	08/22/2022	N
	CHPS1	0000055140	CLOSED	PMW	08/29/2022	N
	CHPS1	0000055242	CLOSED	PMW	09/08/2022	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS1	0000055328	CLOSED	PMW	09/13/2022	Y
	CHPS1	0000055364	CLOSED	PMW	09/20/2022	N
	CHPS2	0000054597	CLOSED	PMW	07/05/2022	N
	CHPS2	0000054703	CLOSED	PMW	07/11/2022	N
	CHPS2	0000054792	CLOSED	PMW	07/18/2022	N
	CHPS2	0000054820	CLOSED	PMW	07/26/2022	N
	CHPS2	0000054890	CLOSED	PMW	08/01/2022	N
	CHPS2	0000054925	CLOSED	PMW	08/09/2022	N
	CHPS2	0000055017	CLOSED	PMW	08/15/2022	N
	CHPS2	0000055102	CLOSED	PMW	08/22/2022	N
	CHPS2	0000055139	CLOSED	PMW	08/29/2022	N
	CHPS2	0000055241	CLOSED	PMW	09/08/2022	N
	CHPS2	0000055327	CLOSED	PMW	09/13/2022	N
	CHPS2	0000055363	CLOSED	PMW	09/20/2022	N
	CHPS3	0000054595	CLOSED	PMW	07/05/2022	N
	CHPS3	0000054701	CLOSED	PMW	07/11/2022	N
	CHPS3	0000054790	CLOSED	PMW	07/18/2022	N
	CHPS3	0000054818	CLOSED	PMW	07/26/2022	N
	CHPS3	0000054882	CLOSED	PMW	08/01/2022	N
	CHPS3	0000054923	CLOSED	PMW	08/09/2022	N
	CHPS3	0000055015	CLOSED	PMW	08/15/2022	N
	CHPS3	0000055100	CLOSED	PMW	08/22/2022	N
	CHPS3	0000055137	CLOSED	PMW	08/29/2022	N
	CHPS3	0000055240	CLOSED	PMW	09/08/2022	N
	CHPS3	0000055324	CLOSED	PMW	09/13/2022	Y
	CHPS3	0000055361	CLOSED	PMW	09/20/2022	N
	CHPS4	0000054594	CLOSED	PMW	07/05/2022	N
	CHPS4	0000054700	CLOSED	PMW	07/11/2022	N
	CHPS4	0000054789	CLOSED	PMW	07/18/2022	N
	CHPS4	0000054817	CLOSED	PMW	07/26/2022	N
	CHPS4	0000054881	CLOSED	PMW	08/01/2022	N
	CHPS4	0000054922	CLOSED	PMW	08/09/2022	Y
	CHPS4	0000055077	CLOSED	PMW	08/17/2022	N
	CHPS4	0000055099	CLOSED	PMW	08/22/2022	N
	CHPS4	0000055136	CLOSED	PMW	08/29/2022	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS4	0000055239	CLOSED	PMW	09/08/2022	N
	CHPS4	0000055323	CLOSED	PMW	09/13/2022	Y
	CHPS4	0000055360	CLOSED	PMW	09/19/2022	N
Landfill Cover						
	CHSTOCKPILE	0000026297	CLOSED	PMV	07/21/2022	N
	CHAPONDS	0000026299	CLOSED	PMV	07/21/2022	N
	CHAREA4	0000026300	CLOSED	PMV	07/21/2022	N
	CHAREA5	0000026301	CLOSED	PMV	07/21/2022	N
	CHAREA6	0000026302	CLOSED	PMV	07/21/2022	N
	CHAREAS23	0000026305	CLOSED	PMV	07/21/2022	N
	CHCENTRALPIT	0000026306	CLOSED	PMV	07/21/2022	N
	CHEMH	0000026307	CLOSED	PMV	07/21/2022	N
	CHSEPA	0000026308	CLOSED	PMV	07/21/2022	N
	CHSSWA	0000026309	CLOSED	PMV	07/21/2022	N
	CHSWMH	0000026310	CLOSED	PMV	07/21/2022	N
	CHNFLARESTN	0000026311	CLOSED	PMV	07/21/2022	N
	CHSTOCKPILE	0000026433	CLOSED	PMV	08/28/2022	N
	CHAPONDS	0000026434	CLOSED	PMV	08/28/2022	N
	CHAREA4	0000026435	CLOSED	PMV	08/28/2022	N
	CHAREA5	0000026436	CLOSED	PMV	08/28/2022	N
	CHAREA6	0000026437	CLOSED	PMV	08/28/2022	N
	CHAREAS23	0000026440	CLOSED	PMV	08/28/2022	N
	CHCENTRALPIT	0000026441	CLOSED	PMV	08/28/2022	N
	CHEMH	0000026442	CLOSED	PMV	08/28/2022	N
	CHSEPA	0000026443	CLOSED	PMV	08/28/2022	N
	CHSSWA	0000026444	CLOSED	PMV	08/28/2022	N
	CHSWMH	0000026445	CLOSED	PMV	08/28/2022	N
	CHNFLARESTN	0000026446	CLOSED	PMV	08/28/2022	N
	CHSTOCKPILE	0000026573	CLOSED	PMV	09/20/2022	N
	CHAPONDS	0000026574	CLOSED	PMV	09/20/2022	N
	CHAREA4	0000026575	CLOSED	PMV	09/20/2022	N
	CHAREA5	0000026576	CLOSED	PMV	09/20/2022	N
	CHAREA6	0000026577	CLOSED	PMV	09/20/2022	N
	CHAREAS23	0000026580	CLOSED	PMV	09/20/2022	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHEMH	0000026581	CLOSED	PMV	09/20/2022	N
	CHCENTRALPIT	0000026582	CLOSED	PMV	09/20/2022	N
	CHSEPA	0000026583	CLOSED	PMV	09/20/2022	N
	CHSSWA	0000026584	CLOSED	PMV	09/20/2022	N
	CHSWMH	0000026585	CLOSED	PMV	09/20/2022	N
	CHNFLARESTN	0000026586	CLOSED	PMV	09/20/2022	N
Landfill Gas						
	CHCMH	0000026240	CLOSED	PMW	07/06/2022	N
	CHCMH	0000026327	CLOSED	PMW	07/26/2022	N
	CHCMH	0000026382	CLOSED	PMW	08/01/2022	N
	CHCMH	0000026462	CLOSED	PMW	08/16/2022	N
	CHCMH	0000026497	CLOSED	PMW	09/01/2022	N
	CHCMH	0000026602	CLOSED	PMW	09/20/2022	N
	CHCMH	0000026602	CLOSED	PMW	09/22/2022	N
	CHCMH	0000026602	CLOSED	PMW	09/23/2022	N
	CHAREA5E	0000026275	CLOSED	PMW	07/01/2022	N
	CHAREA5E	0000026349	CLOSED	PMW	07/15/2022	N
	CHAREA5E	0000026417	CLOSED	PMW	08/03/2022	N
	CHAREA5E	0000026486	CLOSED	PMW	08/16/2022	N
	CHAREA5E	0000026557	CLOSED	PMW	09/01/2022	N
	CHAREA5E	0000026625	CLOSED	PMW	09/15/2022	N
	CHAREA5W	0000026276	CLOSED	PMW	07/02/2022	N
	CHAREA5W	0000026350	CLOSED	PMW	07/16/2022	N
	CHAREA5W	0000026418	CLOSED	PMW	08/01/2022	N
	CHAREA5W	0000026487	CLOSED	PMW	08/15/2022	N
	CHAREA5W	0000026558	CLOSED	PMW	09/08/2022	N
	CHAREA5W	0000026626	CLOSED	PMW	09/22/2022	N
	CHEMH	0000026271	CLOSED	PMW	07/12/2022	N
	CHEMH	0000026348	CLOSED	PMW	07/25/2022	N
	CHEMH	0000026413	CLOSED	PMW	08/03/2022	N
	CHEMH	0000026485	CLOSED	PMW	08/17/2022	N
	CHEMH	0000026553	CLOSED	PMW	09/07/2022	N
	CHEMH	0000026624	CLOSED	PMW	09/19/2022	N
	CHAREAS23	0000026345	CLOSED	PMW	07/19/2022	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHAREAS23	0000026400	CLOSED	PMW	08/03/2022	N
	CHAREAS23	0000026476	CLOSED	PMW	08/17/2022	N
	CHAREAS23	0000026540	CLOSED	PMW	09/08/2022	N
	CHAREAS23	0000026615	CLOSED	PMW	09/23/2022	N
	CHAREA6	0000026218	CLOSED	PMW	07/15/2022	N
	CHAREA6	0000026314	CLOSED	PMW	07/28/2022	N
	CHAREA6	0000026360	CLOSED	PMW	08/07/2022	N
	CHAREA6	0000026448	CLOSED	PMW	08/16/2022	N
	CHAREA6	0000026498	CLOSED	PMW	09/07/2022	N
	CHAREA6	0000026589	CLOSED	PMW	09/27/2022	N
	CHSEPA	0000026248	CLOSED	PMW	07/06/2022	N
	CHSEPA	0000026338	CLOSED	PMW	07/25/2022	N
	CHSEPA	0000026390	CLOSED	PMW	08/03/2022	N
	CHSEPA	0000026468	CLOSED	PMW	08/24/2022	N
	CHSEPA	0000026529	CLOSED	PMW	09/12/2022	N
	CHSEPA	0000026608	CLOSED	PMW	09/27/2022	N
Landfill Roads						
	CHSTOCKPILE	0000026297	CLOSED	PMR	07/21/2022	N
	CHSTOCKPILE	0000026433	CLOSED	PMR	08/28/2022	N
	CHSTOCKPILE	0000026573	CLOSED	PMR	09/20/2022	N
	CHACTIVEAREA	0000026289	CLOSED	PMR	07/21/2022	N
	CHACTIVEAREA	0000026424	CLOSED	PMR	08/28/2022	N
	CHACTIVEAREA	0000026564	CLOSED	PMR	09/20/2022	N
	CHPSR	0000026291	CLOSED	PMR	07/21/2022	N
	CHPSR	0000026426	CLOSED	PMR	08/28/2022	N
	CHPSR	0000026566	CLOSED	PMR	09/20/2022	N
	CHMAINGATE	0000026290	CLOSED	PMR	07/21/2022	N
	CHMAINGATE	0000026425	CLOSED	PMR	08/28/2022	N
	CHMAINGATE	0000026565	CLOSED	PMR	09/20/2022	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
Landfill Roads						
	Sweeper	0	see Equipment Operator Spreadsheet	NA	0	N

Equipment *Click the word 'Equipment' to see Work Order Numbers*

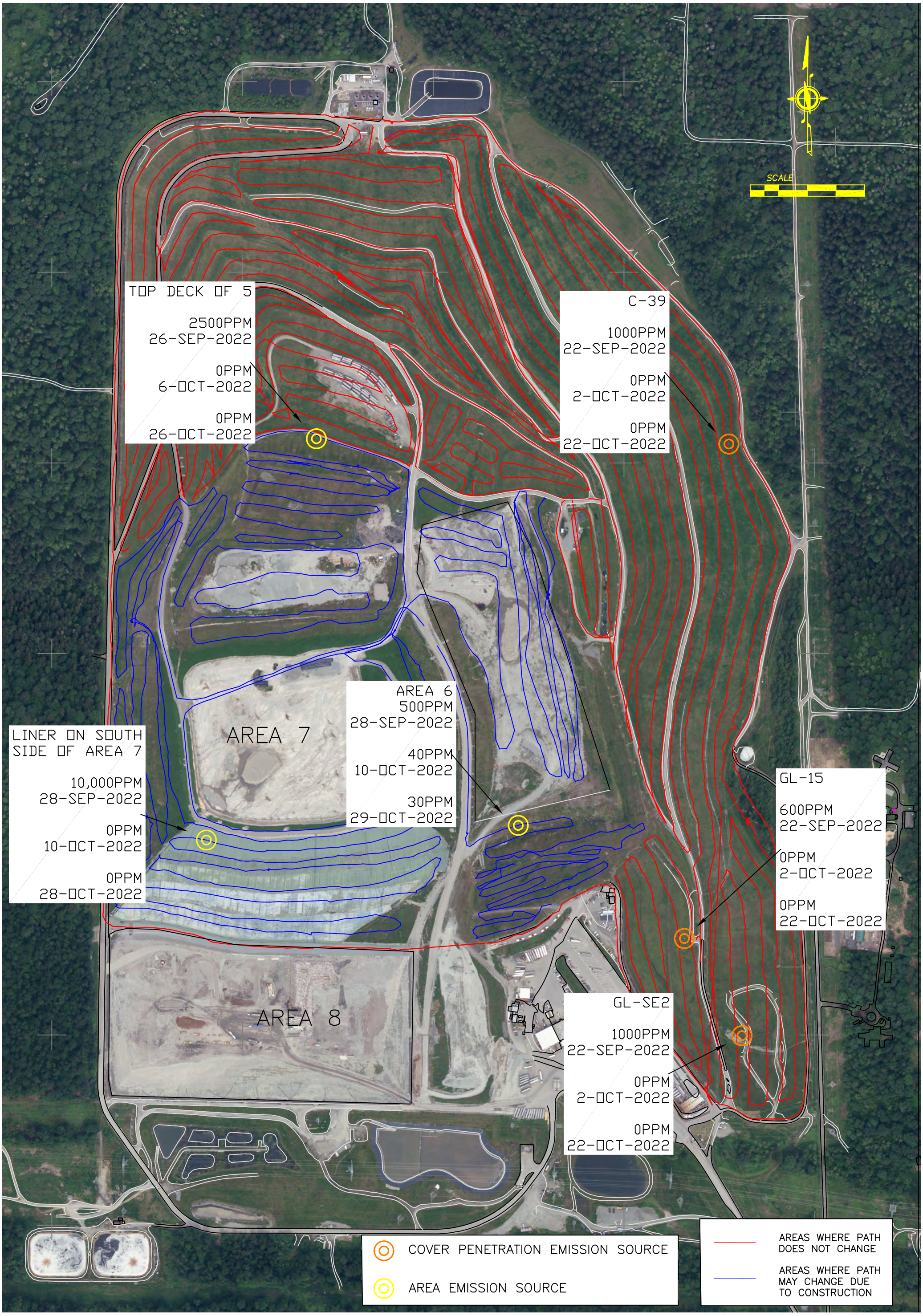
Appendix B:
Gas Monitoring Reports

Cedar Hills Landfill
Serpentine Logs
2022

Date	Northing (UTM)	Easting (10 T)	CH4 PPM	H2S PPM
9/15/2022				
9/20/2022				
9/21/2022				
9/21/2022				
9/22/2022	5256287	0572337	1000+PPM	
9/22/2022	5257239	0572270	1000+PPM	
9/22/2022	5256582	0572218	600PPM	
9/23/2022				
9/26/2022	5257255	0571671	2500ppm	
9/28/2022	5256607	0571546	10000 ppm	
9/28/2022	5256645	0571892	500ppm	
10/10/2022				
10/2/2022	5256287	0572337	0 PPM	
10/2/2022	5257239	0572270	0 PPM	
10/2/2022	5256582	0572218	0 PPM	
10/6/2022	5257255	0571671	0 PPM	
10/8/2022	5256607	0571546	0 PPM	
10/9/2022	5256645	0571892	40ppm	
10/22/2022	5256287	0572337	0ppm	
10/22/2022	5257239	0572270	0ppm	
10/22/2022	5256582	0572218	0ppm	
10/26/2022	5257255	0571671	0ppm	
10/28/2022	5256607	0571546	0ppm	
10/29/2022	5256645	0571892	30ppm	

COMMENTS

Started Serpentine, No exceedences detected. BL
No exceedences detected. BL
No exceedences detected. BL
No Exceedance(s) Noted. DNS
Dual phase well CHEGLSE2 in SEP needs dug up excedeedence detected at ground level JM
CHE00039 4" flex is cracked at inline tee JM
Dual phase well CHGL0015 no top on flange needs blind flange JM
No exceedences detected. JM
Top deck of 5 suspect area. BB
Liner on south side of 7 has a hole. BB
Top deck of Area 6 along the South edge of slope. End serpentine. BB
No H2S Exceedences detected. CS
10 day check of dual phase well CHEGLSE2. Repaired on 9/24/22. Checked 10/2/2022 CS
10 day check of CHE00039 4" flex repaired on 9/24/22. Checked 10/2/2022 CS
10 day check of dual phase well CHGL0015 top on flange repiared on 9/23/22. Checked 10/2/2022 CS
10 day check of top deck of 5 suspect area. BB
10 day check of liner on south side of 7 has a hole. NWL repaired 10/6/22 BB
10 day check of Top deck of Area 6 along the South edge of slope. BB Checked by LD 10/9/22, awaiting recommendations from Herrera before proceding with a repair/solution.
30 day check if dual phase well CHEGLSE2. Repaired on 9/24/22. Checked on 10/22/22. RS
30 day check of CHE00039 4" flex repaired on 9/24/22. Checked on 10/22/22. RS
30 day check of dual phase well CHGL0015 top on flange repiared on 9/23/22. Checked on 10/22/22. RS
30 day check of top deck of 5 suspect area. RB, JF
30 day check of liner on south side of 7 has a hole. Repaired 10/6/22. Checked 10/28/22. RS
30 day check of Top deck of Area 6 along the South edge of slope. RS


SCALE
TOP DECK OF 5
2500PPM
26-SEP-2022
0PPM
6-OCT-2022
0PPM
26-OCT-2022
C-39
1000PPM
22-SEP-2022
0PPM
2-OCT-2022
0PPM
22-OCT-2022
AREA 7
AREA 6
500PPM
28-SEP-2022
40PPM
10-OCT-2022
30PPM
29-OCT-2022
LINER ON SOUTH
SIDE OF AREA 7
10,000PPM
28-SEP-2022
0PPM
10-OCT-2022
0PPM
28-OCT-2022
GL-15
600PPM
22-SEP-2022
0PPM
2-OCT-2022
0PPM
22-OCT-2022
AREA 8
GL-SE2
1000PPM
22-SEP-2022
0PPM
2-OCT-2022
0PPM
22-OCT-2022
COVER PENETRATION EMISSION SOURCE
AREA EMISSION SOURCE
AREAS WHERE PATH DOES NOT CHANGE
AREAS WHERE PATH MAY CHANGE DUE TO CONSTRUCTION

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-15-22

Cal. Time: 7:00 Am

Calibration :

Technician: BC

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 4035462 / 4912991

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure		Time
Start	29.95	7:00 Am
Stop	29.95	3:00 PM

90% response time in seconds:

1 2 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): 3 mph W

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO	Exceedences		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-20-22

Cal. Time: 7:00 AM

Calibration :

Technician: BL

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 4035462 / 4912991

Cal Gas Used:

CH_4 500 PPM

O_2 Zero Air

Barometric Pressure		Time
Start	29.87	7:00 AM
Stop	29.90	12:00 PM

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Clear

Wind Speed &

Direction (out of): 5 mph NE

Northing (UTM #)	Easting (10 T #)	Time	Comments
NO	EXCEEDENCES		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9-21-22

Cal. Time: 7:15 Am

Calibration :

Technician: BL

Test Instrument used: SEM 5000

Surveyor PS

Cal. Gas Lot No: 4035462 / 4912991

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure		Time
Start	29.88	7:15 Am
Stop	29.87	11:00 Am

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Clear

Wind Speed &

Direction (out of): Calm

Northing (UTM #)	Easting (10 T #)	Time	Comments
No	Exceedences		

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills LF Perimeter

Date: 21SEP2022

Cal. Time: 2130

Technician: D. Smith

Surveyor PJ

Calibration :

Test Instrument used: SEM 500

Cal. Gas Lot No: 4035462 / 4912991

Cal Gas Used:

CH_4 500 ppm

O_2 ULTRA ZERO Air

Barometric Pressure		Time
Start	29.88	2128
Stop	29.91	0100 22SEP2022

90% response time in seconds:

1 2 seconds

2 2 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: CLEAR SKIES

Wind Speed &

Direction (out of): CALM

Northing (UTM #)	Easting (10 T #)	Time	Comments

NO EXCEEDANCES NOTED

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9/26/22

Cal. Time: 7:36 AM

Calibration :

Technician: B.B. J.F

Test Instrument used: Scm 5000

Surveyor P.J

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH_4 500

O_2 0

Barometric Pressure	Time
Start 29.90	8:AM
Stop 29.84	3:PM

90% response time in seconds:

1 6 seconds

2 5 seconds

3 6 seconds

avg. 6 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): SE 3mPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
5257255	0571671	1:40P	2500 PPM

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9/28/22

Cal. Time: 7:30 A.M

Calibration :

Technician: B.B

Test Instrument used: Sem 5000

Surveyor P.S

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH_4 500 PPM

O_2 Zero Air

Barometric Pressure	Time
Start 29.89	7A
Stop 29.90	3:30P

90% response time in seconds:

1 5 seconds

2 5 seconds

3 5 seconds

avg. 5 seconds

Weather Conditions: Overcast

Wind Speed &

Direction (out of): SW 2MPH

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256607	0571546	1:10PM	18 PPM

DNRP / King County Solid Waste
Serpentine Surface Monitoring Data

Landfill Site: Cedar Hills

Date: 9/29/22

Cal. Time: 11 AM

Calibration :

Technician: B.B.

Test Instrument used: sem 5000

Surveyor P.J.

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH_4 500

O_2 20.0

Barometric Pressure	Time
Start 30.06	11:A
Stop 30.06	1 P

90% response time in seconds:

1 5 seconds

2 4 seconds

3 4 seconds

avg. 4 seconds

Weather Conditions: overcast no wind

Wind Speed &

Direction (out of): Calm

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256645	0571892	12:03	500 PPM

Landfill Site: Cedar hills

Date: 10-2-22

10 Days after Exceedance

Cal. Time: 11:15

Calibration :

Technician: CS

Test Instrument used: SEM 5000

Surveyor SP

Cal. Gas Lot No: 4035462, 4912991

Cal Gas Used:

CH_4	500 PPM
O_2	ZERO AIR

Barometric Pressure	Time
Start 29.91	11:15
Stop 29.90	12:15

90% response time in seconds:

1 2 seconds

2 1 seconds

3 2 seconds

avg. 2 seconds

Weather Conditions: Sunny / Hazy

Wind Speed &

Direction (out of): N 1 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256287	052337	11:40 AM	CHEGLSE2 no Exceedances
5257239	0572270	11:20 AM	CHEGC039 no Exceedances
5256582	0572218	12:10 PM	CHGLC015 no Exceedances

Landfill Site: Cedar Fills

Date: 10/6/22

10 Days after Exceedance

Cal. Time: 8:AM

Calibration :

Technician: B.B.

Test Instrument used: Sem 5000

Surveyor P.J.

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure	Time
Start 30.05	8 AM
Stop 30.05	10 AM

90% response time in seconds:

1 5 seconds

2 4 seconds

3 4 seconds

avg. 4 seconds

Weather Conditions: overcast

Wind Speed &

Direction (out of): NA

Northing (UTM #)	Easting (10 T #)	Time	Comments
5257255	0571671	8:30A	

Landfill Site: Cedar Hills

Date: 10/8/22

10 Days after Exceedance

Cal. Time: 12:50

Calibration :

Technician: Jm

Test Instrument used: Sem 5000

Surveyor P.S.

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure	Time
Start 30.07	12:45
Stop 30.05	13:45

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Sunny

Wind Speed &

Direction (out of): Calm

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256607	0571546	13:23	NO Exceedences
			Detected

Landfill Site: cedar hills

10 Days after Exceedance

Date: 10/9/22

Cal. Time: noon

Technician: LD

Surveyor PJ

Calibration :

Test Instrument used: sem 5000

Cal. Gas Lot No: 40354102

Cal Gas Used:

CH_4 500ppm

O_2 zero

Barometric Pressure	Time
Start 30.03	1230pm
Stop 30.03	1238pm

90% response time in seconds:

1 4 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: sunny

Wind Speed &

Direction (out of): N, 1mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
5250645	0571892	1235	40ppm

Landfill Site: CEDAR HILLS

Date: 10/22/12

30 Days after Exceedance

Cal. Time: 1:30 pm

Calibration :

Technician: RS

Test Instrument used: SEM 5000

Surveyor RJ

Cal. Gas Lot No: 4912991, 4035462

Cal Gas Used:

CH_4 500 ppm

O_2 Zero air

Barometric Pressure	Time
Start 29.71	1:40 pm
Stop 29.71	2:25 pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Overcast w/ Rain

Wind Speed &

Direction (out of): SE, 4 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256287	0572337	2:11 pm	GLSE2
5257239	0572270	2:18 pm	E-39
5256582	0572218	2:08 pm	GL-15

Landfill Site: Cedar Hills

30 Days after Exceedance

Date: 10-26-22

Cal. Time: 3:33 pm

Technician: PJ

Surveyor RB

Calibration :

Test Instrument used: GEM 5000

Cal. Gas Lot No: 4035462

Cal Gas Used:

CH_4 500 ppm

O_2 Zero

Barometric Pressure	Time
Start 30.01	3:30 pm
Stop 30.01	4:04 pm

90% response time in seconds:

1 5 seconds

2 5 seconds

3 5 seconds

avg. 5 seconds

Weather Conditions: Mostly cloudy

Wind Speed & Direction (out of): 1 mph SW

Northing (UTM #)	Easting (10 T #)	Time	Comments
5257255	0571671	3:40 pm	no exceedances

Landfill Site: CEDAR HILLS

Date: 10/28/22

30 Days after Exceedance

Cal. Time: 10:00 AM

Calibration :

Technician: RS

Test Instrument used: SEM 5000

Surveyor PJ

Cal. Gas Lot No: 4912994, 4035462

Cal Gas Used:

CH_4 500 ppm

O_2 Zero Air

Barometric Pressure	Time
Start 30.01	10:00 AM
Stop 30.05	12:20 pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Rain

Wind Speed &

Direction (out of): S, 4 mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256607	057 1546	11:50 AM	Ambient

Landfill Site: CEDAR HILLS

Date: 10/29/22

30 Days after Exceedance

Cal. Time: 12:45 pm

Calibration :

Technician: RS

Test Instrument used: SEM 6000

Surveyor PJ

Cal. Gas Lot No: 4912991, 4035462

Cal Gas Used:

CH_4 500 ppm

O_2 Zero air

Barometric Pressure	Time
Start 30.13	12:50 pm
Stop 30.15	1:20 pm

90% response time in seconds:

1 3 seconds

2 3 seconds

3 3 seconds

avg. 3 seconds

Weather Conditions: Partly Cloudy

Wind Speed &

Direction (out of): SW, 7mph

Northing (UTM #)	Easting (10 T #)	Time	Comments
5256645	0571892	1:09 pm	30 ppm

KCSW H2S Active Face Monitoring

Landfill Site: Cedarhills

Date: 10-11-22

Technician: CS

Instrument: ~~Sk~~ Jerome

Surveyor

Weather Conditions: ~~Sun~~ Sunny/hazy

Wind Speed & Direction (out of): SW 4mph

Barometric Pressure	Time
Start 29.95	4:00PM
Stop 29.95	5:30 PM

Northing (UTM #)	Easting (10 T #)	Time	Comments
	NO EXEDENCES		











WO Company: Gas King County Landfill Gas
WO Department: 7572 Waste Water, LF Gas
WO Shop: Gas Landfill Gas

TECHNICIAN COPY

WO#: 0000026550
Date In: 08/24/2022 12:49
Date Promised: 08/25/2022 12:49
Date Out: 00:00
WO Status: A Last WO#:0000026550
WO Priority: Last WO Date: 08/24/2022
Track DownTime: Y Employee:

Equipment: Cedar Hills License: na

Location: 20 Color:
Year: 2006 Serial: na
Make: UD Engine:
Model: UD
Class: ZZZZZZZZGS: Landfill Gas - not classified

Tire Size 1:
Tire Size 2:
Transmission:
Fuel Type1:
Fuel Type2:
Fuel Type3:
Oil Capacity: 0.000
Fuel Cap1: 0.000
Fuel Cap2: 0.000

GVW: 0
EAC: 24
Department: 7572:Waste Water, LF Gas
Company: Gas King County Landfill Gas
Site: 20:20- Cedar Hills
Monitor Group:
Comments:
Cedar Hills

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2023	Annual Inspection
Q	0 - MONTHS	09/30/2022	Quarterly Inspection
S	0 - MONTHS	01/15/2023	Scheduled Inspection
X	0 - MONTHS	08/10/2022	Prohibited Activities

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMQ BS	PM Service | PMQ per list | Billable | Scheduled, Target	0	~~710~~ BL	0.00000	Gas
PMQ BS	PM Service | PMQ per list | Billable | Scheduled, Target	0	765 JM	0.00000	Gas
PMQ BS	PM Service | PMQ per list | Billable | Scheduled, Target	0	764 DNS	0.00000	Gas
PMQ BS	PM Service | PMQ per list | Billable | Scheduled, Target	0		0.00000	Gas

NOTES

Work Order Parts List

Repair Code:
Equipment: Cedar Hills
Work Order: 0000026550

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

Work Order Task List

Repair Code: PMQ BS
Equipment: Cedar Hills
Work Order: 0000026550

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

BL 9-15-22 8 hrs
BL 9-20-22 6 hrs
BL 9-21-22 4 hrs

DWS 21SEP2022 4 HRS

JM 9/22/22 9.5 Hrs
JM 9/23/22 8.5 Hrs

BB 9/26/22 7 hrs
BB 9/28/22 7 hrs
BB 9/29/22 3 hrs