

CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT

Third Quarter 2018



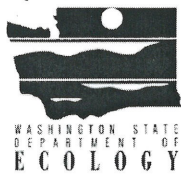
King County

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Natural Resources and Parks
Solid Waste Division

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November 2018

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

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

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

1 st _____ 2 nd _____ 3 rd ✓ _____ 4 th _____ YEAR <u>2018</u>	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)	<input type="checkbox"/>	
Statistical tests	420, (2)	<input checked="" type="checkbox"/>	3
Notification of statistical increase (if applicable)	420, (4)	<input checked="" type="checkbox"/>	3
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	<input checked="" type="checkbox"/>	25
Static water level readings	415, (2)	<input checked="" type="checkbox"/>	App B
Potentiometric surface elevation maps depicting flow direction	415, (2)	<input checked="" type="checkbox"/>	App A
Flow rate – calculated	415, (2)	<input checked="" type="checkbox"/>	App A
Cation-anion balances	430, (5a)	<input checked="" type="checkbox"/>	27, 28, 35
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	<input type="checkbox"/>	
Trilinear diagrams	430, (5b)	<input checked="" type="checkbox"/>	29, 30, 37, 38
Leachate analyses (if sampled and tested)	415, (2)	<input checked="" type="checkbox"/>	App B
Data entered into EIM database (date entered: _____)	415, (3)	<input type="checkbox"/>	
Complete copy of the lab report with chain of custody record.		<input type="checkbox"/>	
Annual Groundwater Reports: 173-351-415 (1) YEAR			
Summary of statistical results and trends	415, (1)	<input type="checkbox"/>	
Summary of groundwater flow rate and direction for the year	415, (1)	<input type="checkbox"/>	
Copy of all potentiometric maps for the year	415, (1)	<input type="checkbox"/>	
Summary geochemical evaluation	415, (1)	<input type="checkbox"/>	
For Quarterly and Annual Reports			
Stamped by a licensed professional	RCW 18.220	<input checked="" type="checkbox"/>	

Louie McArthur
 Signature of Report Author

November 29, 2018
 Date

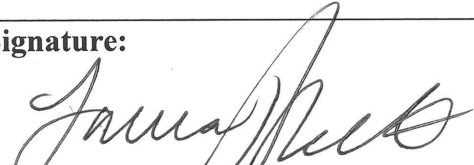
Cedar Hills Regional Landfill
 Landfill

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CERTIFICATION

Quarterly Report Groundwater Evaluation Report Certification

I certify in accordance with the requirements of WAC 173-351-400(c) (3), that the contents of this **Cedar Hills 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 Unit	Date: November 29, 2018
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Signature: 		



EXPIRES 8/10/2019

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

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Cedar Hills Regional Landfill Summary of Quarterly Environmental Monitoring Third Quarter of 2018

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 indicating changing water quality upgradient of CHRLF.

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

Groundwater samples were analyzed for both dissolved and total metal fractions per WAC 173-351-430(2)(b)(ii) as revised; however, only total metals results were compared to the water quality standards listed in WAC 173-351-990 Appendix I.

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

During the second quarter of 2017, a transition to the Lower Limit of Quantitation (LLOQ) methodology for analytical testing occurred and resulted in revised reporting limits and new detections for a number of analytes. Further information on the transition to the LLOQ is available in Section 2.4.1: Laboratory Data Quality - LLOQ.

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-69, MW-72, MW-74, MW-75, MW-80, MW-85, MW-87

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-69, 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-69, MW-72, MW-75, MW-80, MW-87

Exceedances of Secondary Ground Water Quality Criteria were observed for pH (field) as listed below:

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-66, MW-84	MW-87

Primary and secondary exceedances of regulatory standards are tabulated and presented in Table 3. This result set contains an increased number of exceedances (both primary and secondary criteria) due to the switch to LLOQ methodology (as explained in Section 2.4.1) versus previous years' analyses.

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 2017. Calculated prediction limits and analytical results for Appendix I parameters are presented in Table 5 and summarized below.

There were no result values greater than UPLs for Appendix I parameters this quarter.

Nitrate for MW-94 has passed the re-testing protocol it entered into second quarter of 2018, as described in the SAP.

Volatile Detections

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

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

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

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 two EPZ monitoring wells (MW-30A and MW-47). MW-62 was dry and therefore was not sampled. MW-101 near the former SSWA was also sampled. Groundwater quality data from Perched Zones wells collected during the third quarter of 2018 are consistent with previous samples.

EW-25

EW-25 was decommissioned during the second quarter of 2018 (as described in the *Cedar Hills Regional Landfill – EPZ Extraction Well Decommissioning Technical Memorandum*) as a part of ongoing interim actions per the *East Perched Zones Remedial Investigation and Feasibility Study Report (EPZ RI/FS)*, and therefore will no longer be a part of the monitoring network. Six (6) additional replacement monitoring wells have been installed in the EPZ (MW-107 to MW-112) as described in the *EPZ Phase I Interim Actions - Infrastructure Upgrades Technical Memorandum – Agency Draft*. These wells will be incorporated into the monitoring program and the SAP updated accordingly.

MW-105

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

This quarter, MW-105 area was not accessible due to on-going work for the leachate lagoons and was not tested for conductivity.

Analytical Results

Exceedances of regulatory standards for the perched zone wells are tabulated and presented in Table 7. All are consistent with past analyses and known impacts.

Trilinear Diagrams and Ion Balance

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

Prediction Limits

As with the regional data, perched zone prediction limits are derived from cumulative data through the end of 2017. Calculated prediction limits for Appendix I parameters along with analytical results are presented in Table 9.

MW-30A had a nitrate UPL exceedance occur this quarter. A historical review of nitrate concentrations at MW-30A show similar results. Due to on-going interim actions per the EPZ RI/FS, MW-30A will not enter into a retesting protocol at this time for nitrate. Future results will continue to be evaluated per the SAP and EPZ RI/FS.

Volatile Detections

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

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

1.2 Stormwater

1.2.1 CHRLF ISGP

CHRLF is covered 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.

As per the ISGP for CHRLF, turbidity was not measured during the third quarter of 2018 at stations SW-SL3 and SW-N4 as eight (8) quarters of measurements below the benchmark had previously occurred, allowing for measurement of the parameter to be suspended (i.e. Consistent Attainment).

ISGP required monitoring activities for the third quarter of 2018 are listed in Table 11. Samples were obtained from designated compliance station SW-GS1, and attempted at SW-SL3 and SW-N4 but not sampled due to no-flow conditions. ISGP Discharge Monitoring Reports (DMRs) are included in Appendix B.

1.2.2 CHRLF CSWGP

Starting 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 created for this CSWGP permit. This permit is still active and will be in effect through the duration of the construction project.

Four (4) discharge locations are monitored weekly for compliance with the CSWGP in accordance with the SWPPP by the contractor. The construction contractor also inspects 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).

There were no turbidity exceedances during the third quarter of 2018 (see Table 12). Copies of required stormwater reports submitted to Ecology are included in Appendix B.

1.3 Landfill Gas

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

1.3.1 Compliance Probe Network

A network of compliance probes are monitored for landfill gas (LFG) migration around the perimeter of the landfill. Probes are monitored by the LFG crew monthly to monitor system performance and quarterly for compliance. The location map for the compliance probes can be viewed in Figure 4 and in Appendix B. The monitoring results for the compliance probes during the third quarter of 2018 are located in Appendix B.

No compliance probe methane detections occurred during the third quarter of 2018.

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 2018 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 2018 are presented in Appendix B.

1.3.4 Supplemental Migration Monitoring

Detections above the regulatory limit in LFG probe GP-33C in September of 2011 prompted actions including: monitoring frequency increases; operational adjustments to increase LFG recovery rates; off-site structure monitoring; and, preparation of a response plan. Operational review resulted in modifications to enhance extraction from unlined areas and under liner spaces that could potentially act as gas conveyance pathways. The plan resulted in installation of thirteen (13) borings targeting the potential zone of LFG migration in the native sediments. Eight (8) borings serve as LFG extraction wells and five (5) borings as monitoring probes. The extraction wells and migration probes are monitored twice a month. This quarter, methane was detected in one migration probe (MGPW 1700) at levels just above the detection limit. The location map and supplemental monitoring results are included in Appendix B.

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

2.0 Analytical Methods

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

2.1 Regulatory Standards

Groundwater monitoring results are compared to the groundwater quality criteria set forth in WAC 173-200 (Table 14). Stormwater monitoring results are compared to the ISGP Benchmark and Effluent Limits Criteria and CSWGP Benchmarks (Table 15).

2.2 Trilinear Diagrams and Major Ion Balance

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

2.3 Prediction Limits

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

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

The method for calculating the UPLs depends on both the type of distribution and the number of non-detects present in the background data set. UPLs for background data sets with 100 percent non-detects (NDs) are equal to the highest laboratory method

detection limit (MDL). UPLs for background data sets with greater than 50 percent, but less than 100 percent non-detects are calculated based on the highest detected concentration for the respective data set.

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

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

Normal Distribution

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

or

Transformed Distribution:

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

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

\bar{y} = mean of the transformed data

κ = multiplier for intra-well prediction limits

s = standard deviation of baseline data

s_y = standard deviation of transformed data

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

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

A 1-of-3 retesting plan will be used for any exceedances of the intra-well UPLs at the 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 listed in WAC 173-351-990 Appendix I and is used to detect a change in the population distribution of the individual well.

2.4 Laboratory Data Quality

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

2.4.1 Lower Limit of Quantification (LLOQ)

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.

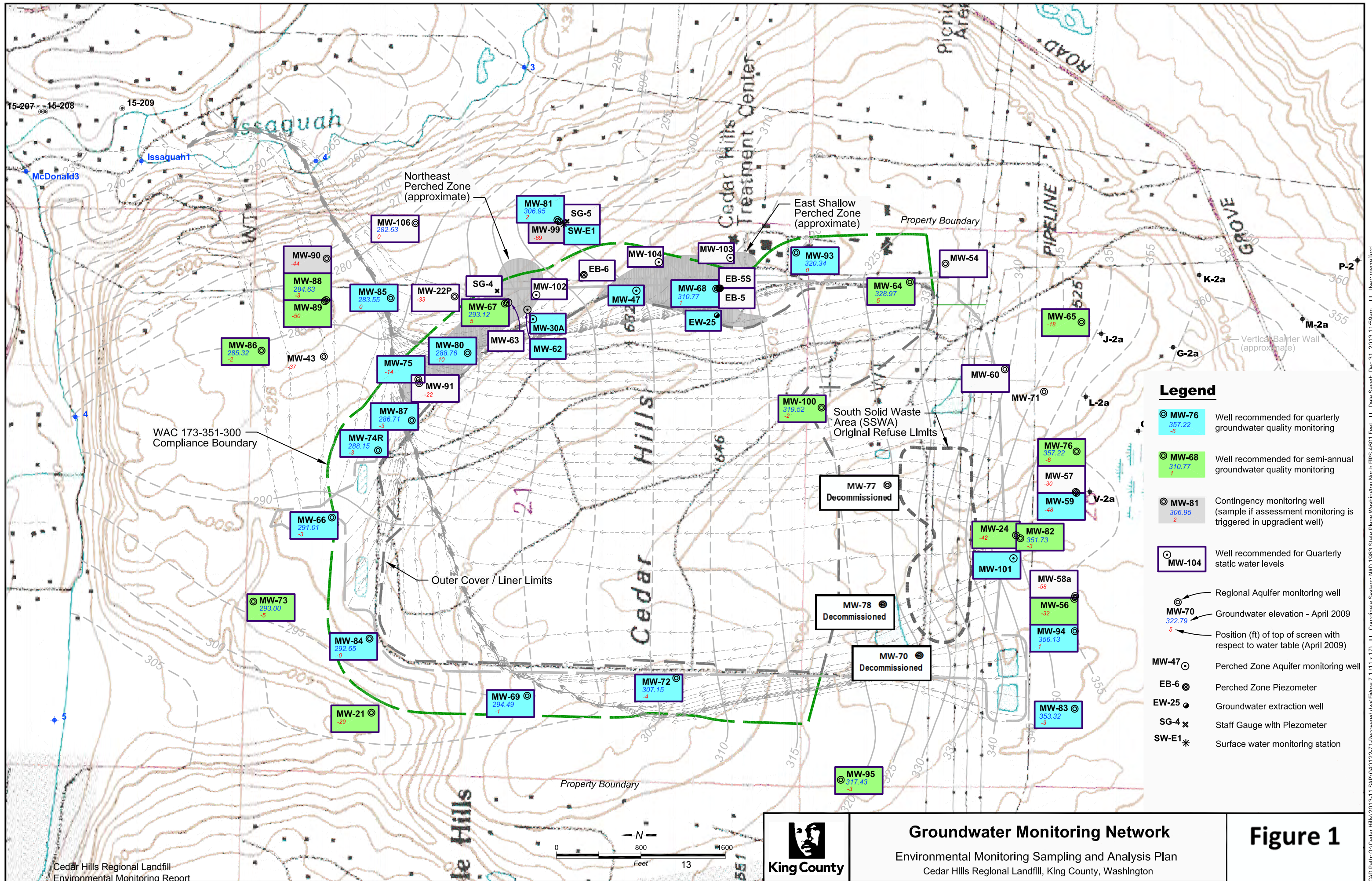
During the second quarter of 2017, the transition to using the LLOQ methodology resulted in revised reporting limits for multiple analytes. Quantitation limits for all trace metals (i.e. non-major cationic species metals), and a subset of the Appendix I VOCs regularly analyzed for were lowered versus past analyses MDLs, while other VOCs had higher limits or remained unchanged. As a result of these changes, trace metals and VOCs in various wells previously reported as non-detects are now reported as detections. This does not invalidate past analytical data reported at the MDL as non-detects, but confirms that some analytes can be present below detection limits due to instrumentation and/or analytical methodology limitations. On-going efforts will focus on continually assessing and evaluating whether newly detected analytes are due to a confirmed presence in the native sample, or result from either field sampling or laboratory contamination.

Due to the change to LLOQ methodology, it may be necessary to re-establish background data sets for any parameters with modified reporting limits in order to maintain statistical integrity and support hypothesis testing conclusions. Transition to new background data sets will occur when sufficient data has been acquired based on minimum statistical requirements.

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

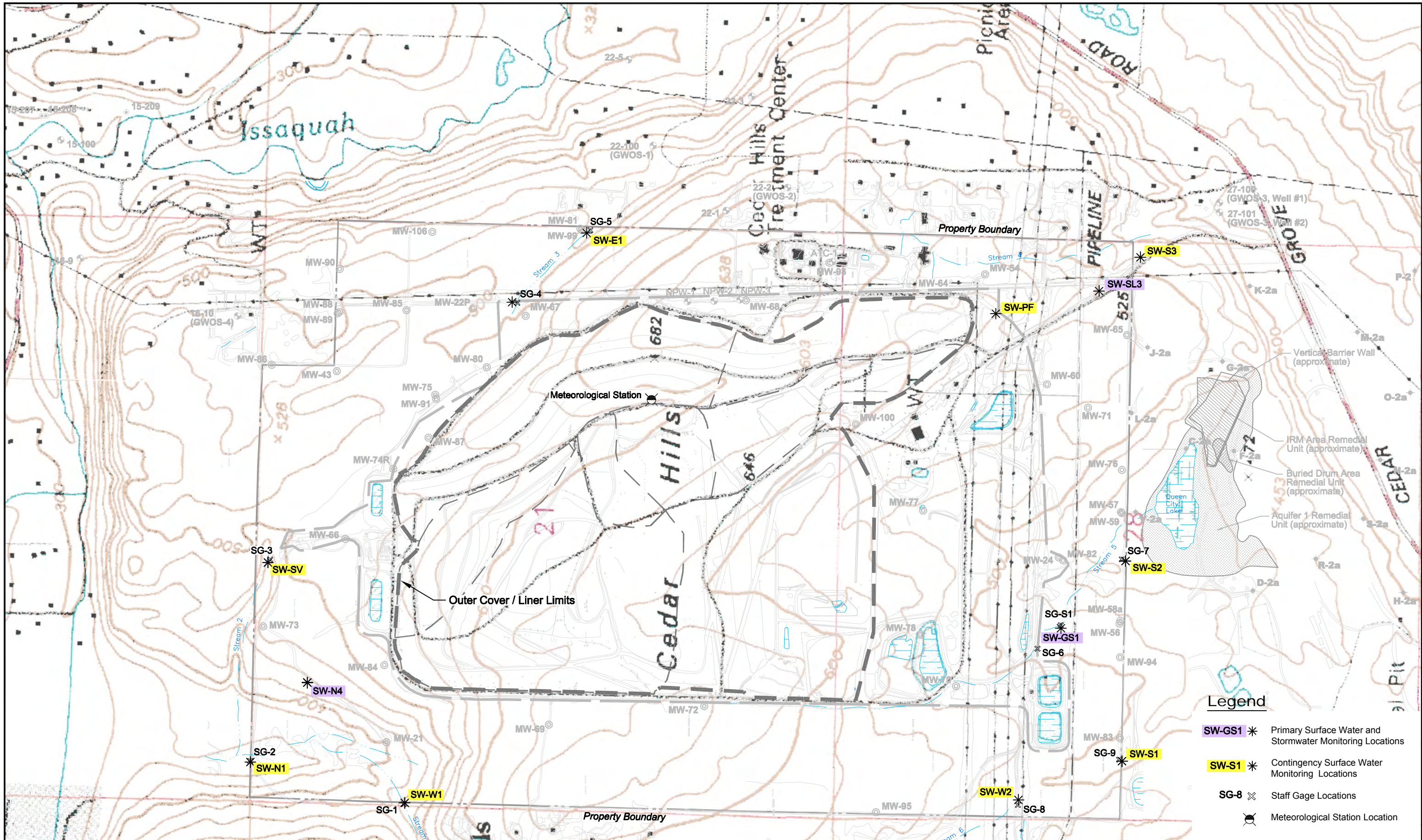
question the actuality of both presence and/or exceedance of the limit or criteria. This uncertainty is partly due to the ‘noise’ that is intrinsic in analytical testing methods and laboratory protocol. Arsenic exceedances in groundwater provide an example of this scenario, as the UPL and detection limits 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.



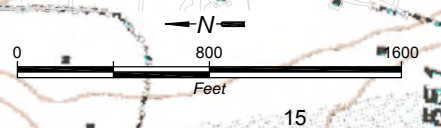
- Legend**
- ⊙ MW-76 357.22
-6 Well recommended for quarterly groundwater quality monitoring
 - ⊙ MW-68 310.77
1 Well recommended for semi-annual groundwater quality monitoring
 - ⊙ MW-81 306.95
2 Contingency monitoring well (sample if assessment monitoring is triggered in upgradient well)
 - ⊙ MW-104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



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



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

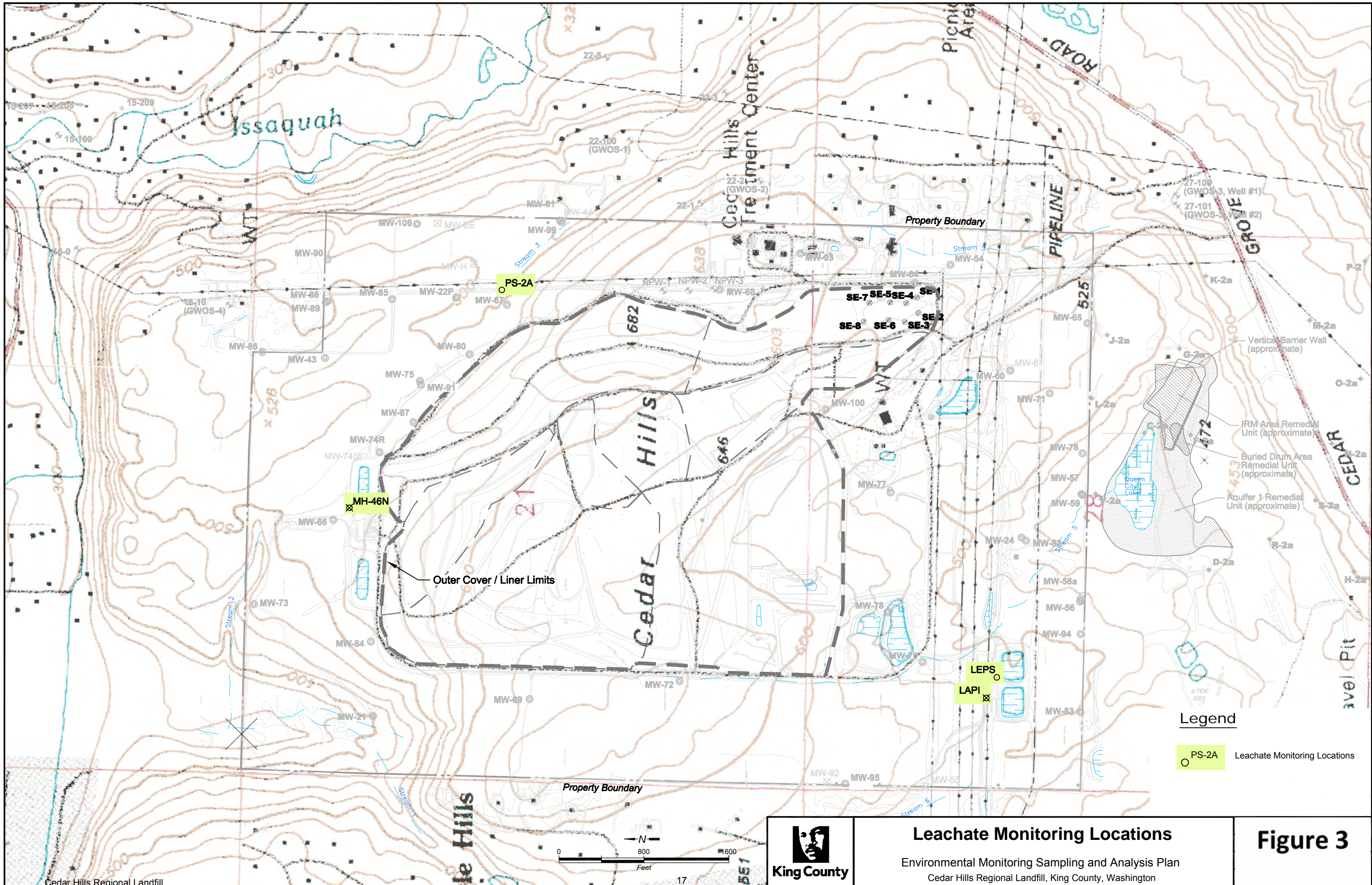


Surface Water and Stormwater Monitoring Network

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

Figure 2

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



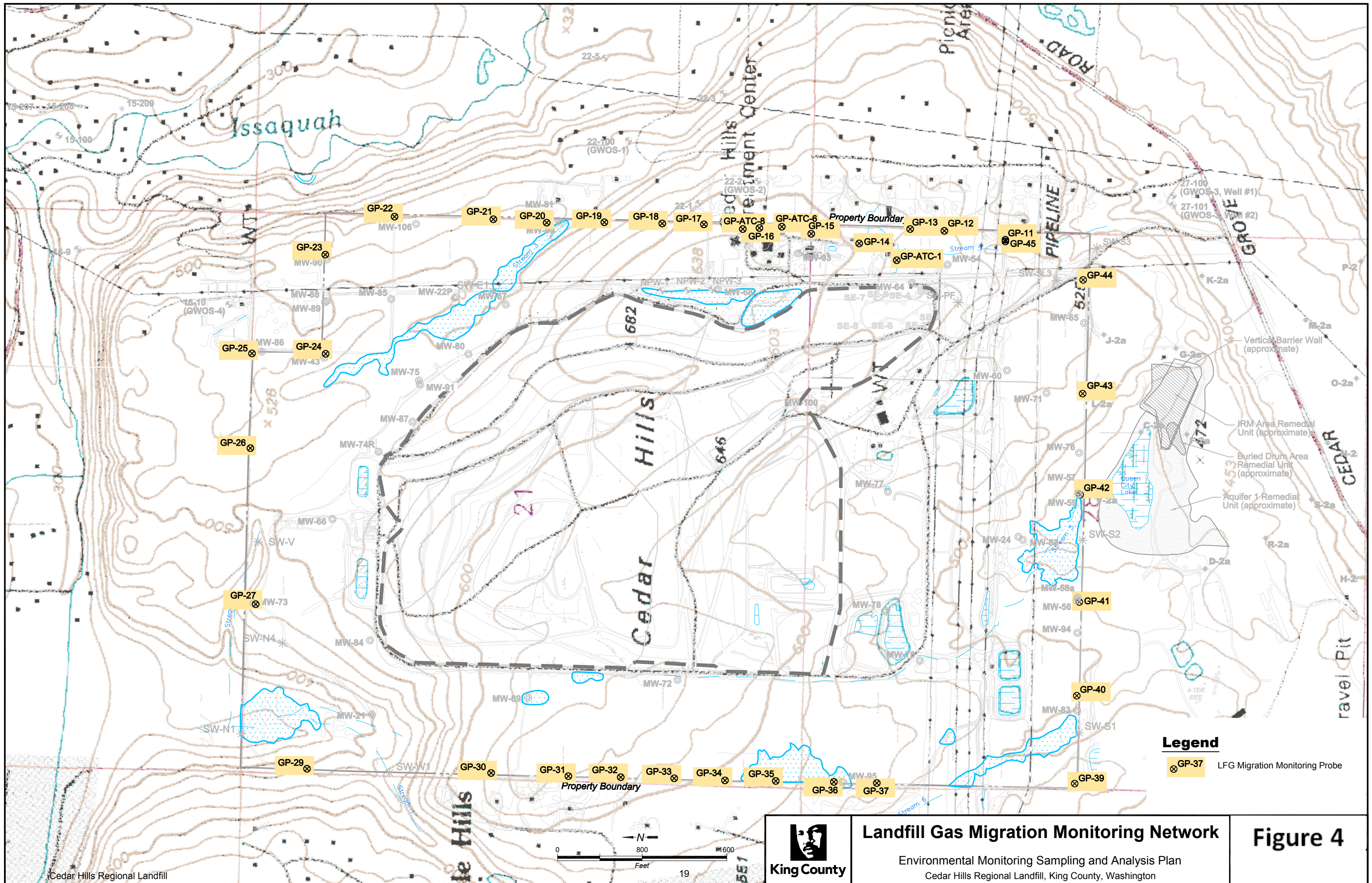


Table 1
CEDAR HILLS REGIONAL LANDFILL GROUNDWATER MONITORING WELLS

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

Table 1
CEDAR HILLS REGIONAL LANDFILL GROUNDWATER MONITORING WELLS

Well Name	General Condition				Recommendations				
	Casing 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-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. Conversion from quarterly to semiannual sampling does not have
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. Additional demonstration for reduction in water quality sampling frequency is presented in Appendix F.
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 south end of facility. Downgradient flow paths poorly defined and may by-pass facility. Additional demonstration for reduction in water quality sampling frequency
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. Additional demonstration for reduction in water
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. Additional demonstration for reduction in water quality sampling
MW-106 (Cross gradient)	4	203	2/19/09	Water Table	Detection	WL only	Quarterly	None	Defines east side flow paths.
East Main Hill Perched Zones									
EB-5	2	60	5/06/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
EB-5S	2	20	6/06/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
EB-6	2	30	11/28/90	EPZ	Assessment	WL only	Quarterly	None	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.
MW-30A	3	35	6/09/89	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs
MW-47	2	44	5/31/85	EPZ	Assessment		Quarterly	Quarterly	Key EPZ compliance well
MW-62	2	54	1/02/90	EPZ	Assessment		Quarterly	Quarterly	Monitor attenuating VOCs
MW-63	2	17	12/02/90	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
MW-102	2	50	1/27/09	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
MW-103	2	35	1/28/09	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
MW-104	2	32	1/29/09	EPZ	Assessment	WL only	Quarterly	None	Monitor water levels to evaluate affect of extraction system shut down.
South Solid Waste Area Perched Zone									
MW-101	2	54	6/2/06	SSWA	Assessment		Quarterly	Quarterly	Key SSWA perched zone compliance well

Notes:

- (1) The following wells were decommissioned: MW-70, MW-77, MW-78, MW-96 and MW-97 as of 2016.
- (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 2018

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
Static Water Levels	NA	7/9/18	Groundwater Elevation Measurement	--	North half of landfill.
Static Water Levels	NA	7/9/18	Groundwater Elevation Measurement	--	South half of landfill.
Static Water Levels	NA	7/9/18	Groundwater Elevation Measurement	--	East perched zone.
EW-25	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-21	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-22	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-24	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-25	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-27A	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-28	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-29	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-30A	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-30A	Perched	7/12/18	Quarterly Groundwater Sampling	W30A180712-	
MW-41D	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-41S	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-43	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-45	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-47	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-47	Perched	7/13/18	Quarterly Groundwater Sampling	W47-180713-	
MW-48	Perched	7/9/18	Groundwater Elevation Measurement	NA	Earwigs
MW-50	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-54	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-55	Perched	7/9/18	Groundwater Elevation Measurement	NA	Water in annulus
MW-56	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-57	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-58A	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-59	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-59	Regional	7/16/18	Quarterly Groundwater Sampling	W59-180716-	
MW-60	Regional	7/9/18	Groundwater Elevation Measurement	NA	Cannot access - down power line
MW-62	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-63	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-64	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-65	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-66	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-66	Regional	7/12/18	Quarterly Groundwater Sampling	W66-180712-	
MW-67	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-68	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-69	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-69	Regional	7/23/18	Quarterly Groundwater Sampling	W69-180723-	
MW-72	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-72	Regional	7/23/18	Quarterly Groundwater Sampling	W72-180723-	
MW-73	Regional	7/9/18	Groundwater Elevation Measurement	NA	Earwigs
MW-74	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-74	Regional	7/20/18	Quarterly Groundwater Sampling	W74R180720-	
MW-75	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-75	Regional	7/19/18	Quarterly Groundwater Sampling	W75-180719-	
MW-76	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-79	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-80	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-80	Regional	7/19/18	Quarterly Groundwater Sampling	W80-180719-	
MW-81	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-81	Regional	7/20/18	Quarterly Groundwater Sampling	W81-180720-	
MW-82	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-83	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-83	Regional	7/20/18	Quarterly Groundwater Sampling	W83-180720-	
MW-84	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-84	Regional	7/20/18	Quarterly Groundwater Sampling	W84-180720-	

TABLE 2
CEDAR HILLS REGIONAL LANDFILL
GROUNDWATER MONITORING ACTIVITIES 3rd QUARTER 2018

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
MW-85	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-85	Regional	7/20/18	Quarterly Groundwater Sampling	W85-180720-	
MW-86	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-87	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-87	Regional	7/20/18	Quarterly Groundwater Sampling	W87-180720-	
MW-88	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-89	Regional	7/9/18	Groundwater Elevation Measurement	NA	Foliage covering well
MW-90	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-91	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-93	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-93	Regional	7/30/18	Quarterly Groundwater Sampling	W93-180730-	
MW-93	Regional	7/30/18	Quarterly Groundwater Sampling	W93-180730D	Field Duplicate
MW-94	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-94	Regional	7/20/18	Quarterly Groundwater Sampling	W94-180720-	
MW-95	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-98	Regional	7/9/18	Groundwater Elevation Measurement	NA	Insects
MW-99	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-100	Regional	7/9/18	Groundwater Elevation Measurement	NA	
MW-101	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-101	Perched	7/16/18	Quarterly Groundwater Sampling	W101180716-	
MW-102	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-103	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-104	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-105	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-106	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-EB5	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-EB5S	Perched	7/9/18	Groundwater Elevation Measurement	NA	
MW-EB6	Perched	7/9/18	Groundwater Elevation Measurement	NA	Ants

NA = No sample ID assigned, no sample collected.

Table 3
CEDAR HILLS REGIONAL LANDFILL
REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from July 1, 2018 - September 30, 2018)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
Upgradient and Crossgradient Wells					
pH (Field)	pH Units	MW-84	7/20/2018	W84-180720-	6.14
		MW-66	7/12/2018	W66-180712-	6.18
Arsenic, Total	mg/L	MW-59	7/16/2018	W59-180716-	0.000404
		MW-66	7/12/2018	W66-180712-	0.000632
		MW-68	7/13/2018	W68-180713-	0.0118
		MW-81	7/20/2018	W81-180720-	0.000521
		MW-83	7/20/2018	W83-180720-	0.000397
		MW-84	7/20/2018	W84-180720-	0.000324
		MW-93	7/30/2018	W93-180730-	0.00132
		MW-94	7/20/2018	W94-180720-	0.000139
Iron, Dissolved	mg/L	MW-59	7/16/2018	W59-180716-	3.78
		MW-68	7/13/2018	W68-180713-	0.62
Manganese, Dissolved	mg/L	MW-59	7/16/2018	W59-180716-	0.114
		MW-68	7/13/2018	W68-180713-	0.3 D
		MW-93	7/30/2018	W93-180730-	0.219
Wells Downgradient to Waste Cells and North end Facilities					
pH (Field)	pH Units	MW-87	7/20/2018	W87-180720-	6.37
Arsenic, Total	mg/L	MW-69	7/23/2018	W69-180723-	0.00253
		MW-72	7/23/2018	W72-180723-	0.000124
		MW-74	7/20/2018	W74R180720-	0.000417
		MW-75	7/19/2018	W75-180719-	0.00049
		MW-80	7/19/2018	W80-180719-	0.00432
		MW-85	7/20/2018	W85-180720-	0.000685
		MW-87	7/20/2018	W87-180720-	0.00228
Iron, Dissolved	mg/L	MW-69	7/23/2018	W69-180723-	1.15
		MW-72	7/23/2018	W72-180723-	2.73
		MW-75	7/19/2018	W75-180719-	2.22
		MW-80	7/19/2018	W80-180719-	2.18
		MW-87	7/20/2018	W87-180720-	4.93
Manganese, Dissolved	mg/L	MW-69	7/23/2018	W69-180723-	0.277
		MW-72	7/23/2018	W72-180723-	0.386
		MW-75	7/19/2018	W75-180719-	0.191
		MW-80	7/19/2018	W80-180719-	0.331
		MW-87	7/20/2018	W87-180720-	0.533

See Data Qualifier List for Qualifier Information.

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

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

Data Collected from July 1, 2018 to September 30, 2018

Site ID		Quarterly Upgradient and Crossgradient Wells																							
		MW-59			MW-66			MW-81			MW-83			MW-84			MW-93			MW-94					
Cations	MW	n	7/16/18			7/12/18			7/20/18			7/20/18			7/20/18			7/30/18			7/20/18				
			mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)		
pH			6.6			6.2			7.1			6.5			6.1			6.7			6.5				
Conductance			184			219			147			488			162			295			292				
TDSobs			124			144			107			349			106			200			192				
Calcium	40.1	2	16.5	0.823353	39.3	18.4	0.918164	37.6	13.8	0.688623	42.3	55.7	2.779441	50.9	13.0	0.648703	36.2	31.9	1.591816	47.4	29.8	1.487026	50.2		
Magnesium	24.3	2	10.1	0.831105	39.7	14.2	1.168484	47.8	7.6	0.627854	38.6	24.4	2.007817	36.8	10.1	0.831105	46.4	15.9	1.308373	39.0	13.1	1.077967	36.4		
Potassium	39.1	1	1.1	0.028902	1.4	1.2	0.029413	1.2	0.8	0.02105	1.3	3.2	0.082868	1.5	1.1	0.027111	1.5	1.6	0.040411	1.2	2.2	0.056268	1.9		
Sodium	23.0	1	6.3	0.27273	13.0	7.5	0.325797	13.3	6.6	0.288389	17.7	13.5	0.587218	10.8	6.5	0.283169	15.8	9.3	0.403658	12.0	7.9	0.342326	11.5		
Iron	55.8	2	3.78	0.13537	6.5	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0	0.01	0.000358	0.0		
Manganese	54.9	2	0.11	0.00415	0.2	0.00	5.93E-06	0.0	0.00	3.64E-06	0.0	0.00	0.00017	0.0	0.00	2.65E-05	0.0	0.22	0.007973	0.2	0.00	3.64E-06	0.0		
Ammonia-N	14.0	1	0.01	0.000393	0.0	0.00	0.000143	0.0	0.00	0.000143	0.0	0.01	0.000514	0.0	0.00	0.000171	0.0	0.06	0.004226	0.1	0.00	0.000286	0.0		
Total Cations (meq/L)				2.096			2.4			1.6			5.5			1.8			3.4			3.0			
Anions																									
Alkalinity, Total			69			95			54			171			65			120			99				
Carbonate	60.0	2	0.01769	0.00059	0.0	0.00867	0.000289	0.0	0.03667	0.001222	0.1	0.03565	0.001188	0.0	0.00537	0.000179	0.0	0.03222	0.001074	0.0	0.02015	0.000672	0.0		
Bicarbonate	61.0	1	84.14	1.379202	72.2	116.25	1.905423	80.2	66.29	1.086614	70.9	208.55	3.418296	65.5	78.92	1.293626	78.3	146.33	2.398564	74.6	120.62	1.97703	68.6		
Chloride	35.5	1	7.7	0.218317	11.4	5.1	0.144417	6.1	5.1	0.144699	9.4	50.8	1.432883	27.4	3.4	0.095055	5.8	2.8	0.078414	2.4	21.3	0.600795	20.8		
Nitrate-N	14.0	1	0.01	0.000928	0.0	0.58	0.041265	1.7	1.45	0.10352	6.8	2.44	0.174199	3.3	0.15	0.010638	0.6	0.01	0.000714	0.0	2.03	0.144928	5.0		
Sulfate	96.1	2	14.9	0.310231	16.2	13.6	0.283163	11.9	9.4	0.196132	12.8	9.3	0.193634	3.7	12.1	0.251932	15.3	35.3	0.734976	22.9	7.7	0.159904	5.5		
Total Anions (meq/L)				1.909			2.4			1.5			5.2			1.7			3.2			2.9			
Total Ions (meq/L)				4.0			4.8			3.2			10.7			3.4			6.6			5.8			
Cation/Anion Ratio				1.098			1.03			1.06			1.05			1.08			1.04			1.03			
Percent Difference				4.7			1.4			3.0			2.2			4.0			2.2			1.4			
Trilinear Diagram Data																									
sum (Ca, Mg, Na+K)				1.96			2.44			1.63			5.46			1.79			3.34			2.96			
Calcium					42.09			37.60			42.35			50.93			36.24			47.60			50.18		
Magnesium					42.49			47.85			38.62			36.79			46.43			39.12			36.37		
Sodium + Potassium					15.42			14.55			19.03			12.28			17.33			13.28			13.45		
					100.0			100.0			100.0			100.0			100.0			100.0			100.0		
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				1.91			2.33			1.43			5.05			1.64			3.21			2.74			
Sulfate					16.257			12.136			13.728			3.837			15.354			22.875			5.839		
Chloride					11.440			6.189			10.128			28.396			5.793			2.440			21.940		
Bicarbonate + Carbonate					72.303			81.675			76.143			67.766			78.852			74.685			72.221		
					100.0			100.0			100.0			100.0			100.0			100.0			100.0		

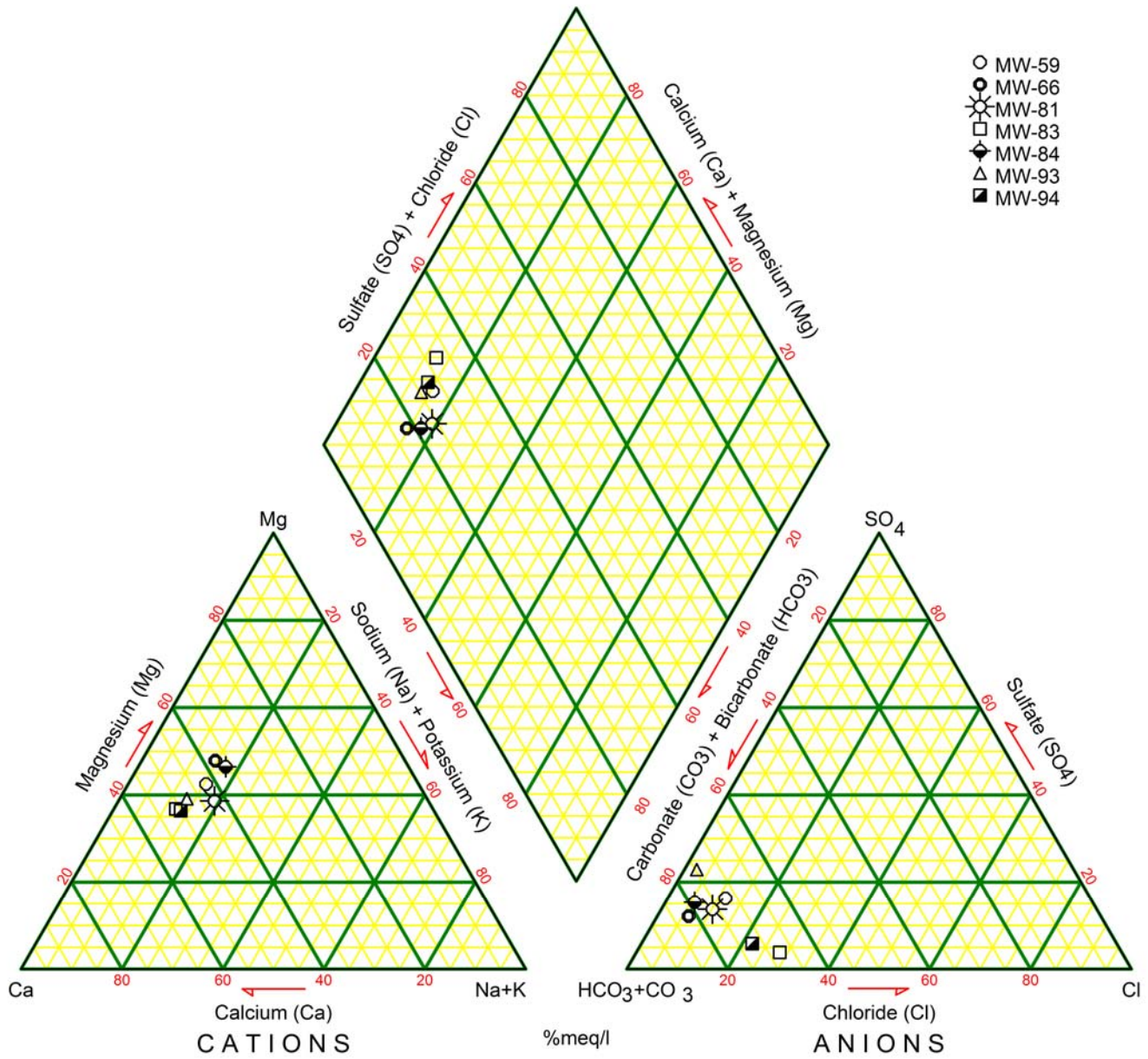
Table 4
Ion Balance Calculations
Cedar Hills Regional Landfill
Quarterly Regional Aquifer Groundwater Monitoring

Data Collected from July 1, 2018 to September 30, 2018

Site ID		Quarterly Downgradient to Waste Cells and North End Facilities																										
		MW-68 7/13/18			MW-69 7/23/18			MW-72 7/23/18			MW-74 7/20/18			MW-75 7/19/18			MW-80 7/19/18			MW-85 7/20/18			MW-87 7/20/18					
Cations	MW	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)		
pH			6.6			7.2			6.5			6.7			6.7			6.5			6.8			6.4				
Conductance			262			303			324			519			335			289			341			489				
TDSobs			171			196			214			339			233			194			213			375				
Calcium	40.1	2	27.7	1.382236	44.6	35.1	1.751497	48.4	33.2	1.656687	43.1	49.4	2.46507	40.2	30.7	1.531936	39.1	30.7	1.531936	46.0	31.8	1.586826	43.0	47.1	2.350299	41.4		
Magnesium	24.3	2	15.3	1.259	40.6	16.7	1.374203	38.0	20.2	1.662209	43.2	36.9	3.036412	49.5	22.4	1.843242	47.1	16.0	1.316602	39.6	20.0	1.645752	44.6	31.5	2.592059	45.7		
Potassium	39.1	1	1.7	0.042969	1.4	1.8	0.046549	1.3	2.0	0.050642	1.3	2.2	0.056524	0.9	2.0	0.049874	1.3	1.7	0.042969	1.3	1.6	0.041946	1.1	2.4	0.062151	1.1		
Sodium	23.0	1	8.8	0.381474	12.3	9.1	0.394958	10.9	8.4	0.36364	9.5	13.2	0.574168	9.4	9.3	0.404528	10.3	7.9	0.345371	10.4	9.5	0.411922	11.2	10.9	0.474124	8.4		
Iron	55.8	2	0.62	0.022204	0.7	1.15	0.041184	1.1	2.73	0.097767	2.5	0.01	0.000358	0.0	2.22	0.079503	2.0	2.18	0.07807	2.3	0.01	0.000358	0.0	4.93	0.176554	3.1		
Manganese	54.9	2	0.30	0.010921	0.4	0.28	0.010084	0.3	0.39	0.014052	0.4	0.00	3.64E-06	0.0	0.19	0.006953	0.2	0.33	0.01205	0.4	0.00	3.64E-06	0.0	0.53	0.019404	0.3		
Ammonia-N	14.0	1	0.02	0.001335	0.0	0.02	0.001221	0.0	0.02	0.001228	0.0	0.00	0.000207	0.0	0.01	0.000735	0.0	0.02	0.001114	0.0	0.00	0.00025	0.0	0.02	0.001478	0.0		
Total Cations (meq/L)				3.1			3.6			3.8			6.1			3.9			3.3			3.7	100.0			5.7		
Anions																												
Alkalinity, Total			125			136			129			227			107			112			127			102				
Carbonate	60.0	2	0.02924	0.000975	0.0	0.11537	0.003846	0.1	0.0251	0.000837	0.0	0.06683	0.002228	0.0	0.03299	0.0011	0.0	0.02282	0.000761	0.0	0.046	0.001533	0.0	0.01438	0.000479	0.0		
Bicarbonate	61.0	1	152.44	2.498649	86.2	165.69	2.715745	82.1	157.33	2.578774	73.5	276.80	4.537088	76.4	130.47	2.138578	59.7	136.59	2.238902	72.8	154.85	2.538084	72.2	124.41	2.039213	39.0		
Chloride	35.5	1	2.8	0.07926	2.7	3.7	0.103799	3.1	6.1	0.171213	4.9	25.9	0.730545	12.3	10.1	0.284884	7.9	4.6	0.129185	4.2	10.3	0.290525	8.3	11.4	0.321552	6.1		
Nitrate-N	14.0	1	0.01	0.000714	0.0	0.01	0.000714	0.0	0.01	0.000928	0.0	0.28	0.01999	0.3	0.01	0.000714	0.0	0.01	0.000714	0.0	0.11	0.008067	0.2	0.01	0.000714	0.0		
Sulfate	96.1	2	15.3	0.318559	11.0	23.2	0.483044	14.6	36.3	0.755797	21.5	31.0	0.645446	10.9	55.7	1.159721	32.3	34.0	0.707909	23.0	32.6	0.678759	19.3	138.0	2.873276	54.9		
Total Anions (meq/L)				2.9			3.3			3.5			5.9			3.6			3.1			3.5	100.0			5.2		
Total Ions (meq/L)				6.0			6.9			7.4			12.1			7.5			6.4			7.2	100.0			10.9		
Cation/Anion Ratio				1.07			1.09			1.10			1.03			1.09			1.08			1.05			1.08			
Percent Difference				3.4			4.5			4.6			1.6			4.4			3.9			2.4			4.0			
Trilinear Diagram Data																												
sum (Ca, Mg, Na+K)				3.07			3.57			3.73			6.13			3.83			3.24			3.69			5.48			
Calcium					45.09			49.10			44.38			40.20			40.00			47.33			43.04			42.90		
Magnesium					41.07			38.52			44.53			49.52			48.13			40.68			44.64			47.31		
Sodium + Potassium					13.84			12.38			11.10			10.28			11.87			12.00			12.31			9.79		
sum (SO ₄ , Cl, HCO ₃ +CO ₃)				2.90			3.31			3.51			5.92			3.58			3.08			3.51			5.23			
Sulfate					10.994			14.609			21.553			10.911			32.356			23.008			19.344			54.891		
Chloride					2.736			3.139			4.883			12.350			7.948			4.199			8.280			6.143		
Bicarbonate + Carbonate					86.270			82.251			73.564			76.738			59.696			72.793			72.376			38.966		
																						100.0						

Cedar Hills Regional Landfill

Figure 5. Trilinear Diagram Up & Crossgradient Regional Wells



Cedar Hills Regional Landfill

Figure 6. Trilinear Diagram Downgradient Regional Wells

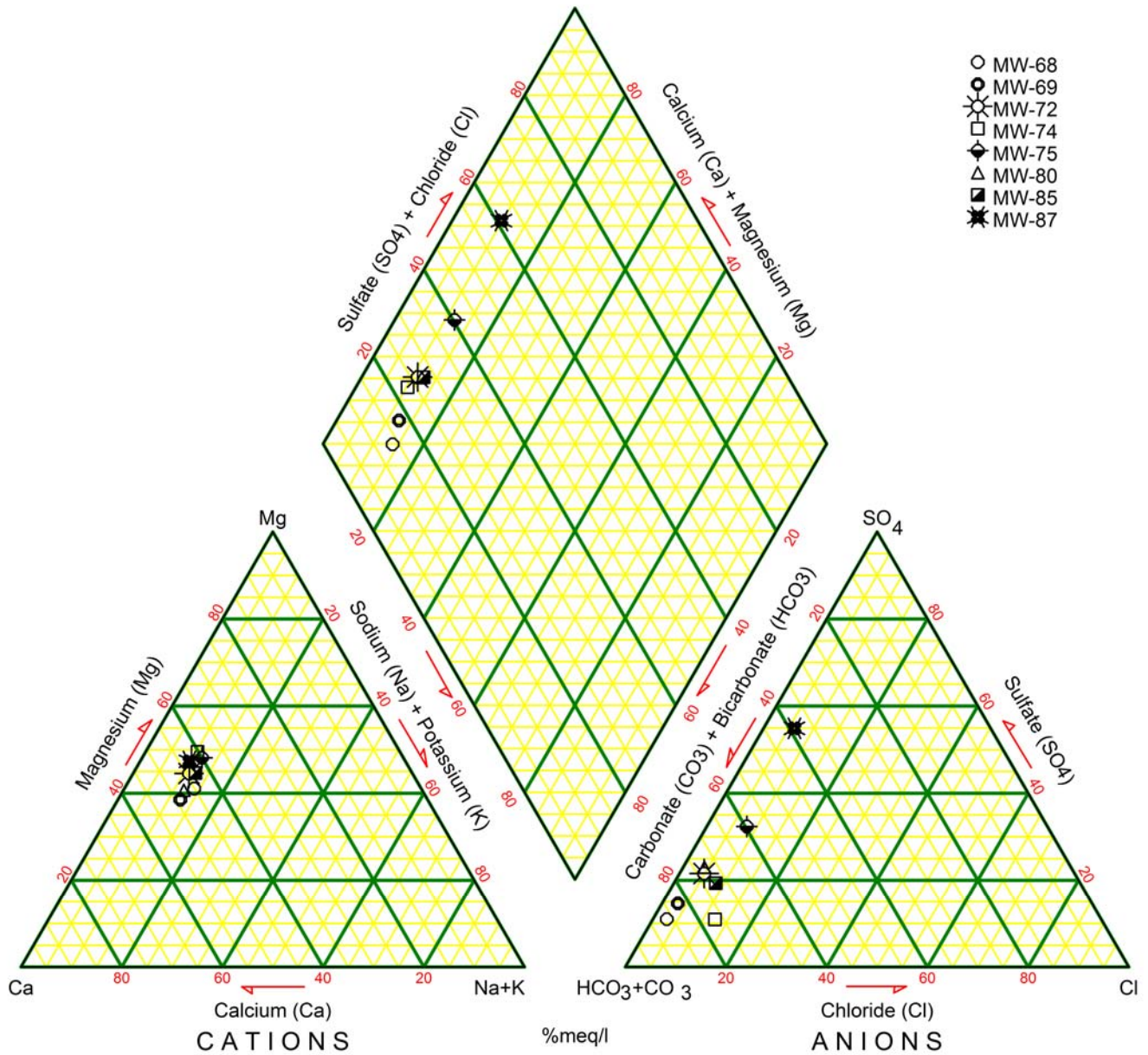


TABLE 5
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY MONITORING WELLS
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES AND RESULTS
(Data Collected from July 1, 2018 to September 30, 2018)

Parameter	Units	Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc	Nitrate as N	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L
Upgradient and Crossgradient Wells																					
MW-59	Limit	0.001	0.001	0.0055	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.00748	0.29	1.37	0.2	0.45	0.02
	Result	< 0.0003	0.000404	0.00409	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000175	< 0.0005	< 0.00004	< 0.0001	< 0.000075	0.0015	0.013	1.15	< 0.1	< 0.1	< 0.01
MW-66	Limit	0.001	0.001	0.0065	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.881	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000632	0.0045	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000172	0.00102	< 0.00004	< 0.0001	0.000643	0.00121	0.578	< 0.1	< 0.1	< 0.1	< 0.01
MW-81	Limit	0.001	0.001	0.0049	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.00253	0.00895	1.77	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000521	0.0033	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000101	0.000892	< 0.00004	< 0.0001	0.00167	< 0.0005	1.45	< 0.1	< 0.1	< 0.1	< 0.01
MW-83	Limit	0.001	0.001	0.0110	0.001	0.002	0.005	0.003	0.00549	0.001	0.01	0.001	0.003	0.001	0.002	0.004	4.11	0.2	0.2	3.03	0.02
	Result	< 0.0003	0.000397	0.0074	< 0.0001	< 0.00005	< 0.0002	0.000287	0.00386	< 0.0001	0.00182	< 0.0005	< 0.00004	< 0.0001	0.00101	0.000568	2.44	< 0.1	< 0.1	2.32	< 0.01
MW-84	Limit	0.001	0.001	0.0041	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.740	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000324	0.00396	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000243	0.000568	< 0.00004	< 0.0001	0.000492	< 0.0005	0.149	< 0.1	< 0.1	< 0.1	< 0.01
MW-93	Limit	0.001	0.001435313	0.0096	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00231	0.0112	0.21	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00132	0.0079	< 0.0001	< 0.00005	< 0.0002	0.0000946	< 0.0002	< 0.0001	0.000201	< 0.0005	< 0.00004	< 0.0001	0.00215	0.0010	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-94	Limit	0.001	0.001	0.0050	0.001	0.002	0.005	0.003	0.0051	0.001	0.01	0.001	0.003	0.001	0.002	0.004	2.30	0.2	0.2	4.71	0.02
	Result	< 0.0003	0.000139	0.0026	< 0.0001	< 0.00005	< 0.0002	0.0000787	0.000928	< 0.0001	0.000423	< 0.0005	< 0.00004	< 0.0001	0.00131	< 0.0005	2.03	< 0.1	< 0.1	1.79	< 0.01
Downgradient Wells																					
MW-68	Limit	0.001	0.495	0.0197	0.001	0.002	0.005	0.003	0.00737	0.001	0.01	0.001	0.003	0.001	0.0037	0.004	0.13	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.012	0.0107	< 0.0001	< 0.00005	< 0.0002	0.000237	< 0.0002	< 0.0001	0.000544	< 0.0005	< 0.00004	< 0.0001	0.000262	0.000688	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-69	Limit	0.001	0.004	0.0144	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0112	0.076	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.003	0.0126	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.00015	< 0.0005	< 0.00004	< 0.0001	0.0001	0.000685	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-72	Limit	0.001	0.001	0.0156	0.001	0.002	0.005	0.003	0.00331	0.00104	0.01	0.001	0.003	0.001	0.002	0.0201	0.15	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000	0.0126	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.0003	0.000116	0.000147	< 0.0005	< 0.00004	< 0.0001	0.0001	0.00301	0.013	< 0.1	< 0.1	< 0.1	< 0.01
MW-74	Limit	0.001	0.001	0.0171	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00104	0.003	0.001	0.002	0.004	0.487	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000	0.014	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.00102	0.000739	< 0.00004	< 0.0001	0.0006	< 0.0005	0.28	< 0.1	< 0.1	< 0.1	< 0.01
MW-75	Limit	0.001	0.001	0.0134	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.11	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000	0.0123	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	< 0.0001	< 0.0005	< 0.00004	< 0.0001	< 0.000075	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-80	Limit	0.001	0.039	0.0230	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0117	0.028	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.004	0.0147	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000146	< 0.0005	< 0.00004	< 0.0001	< 0.000075	0.000516	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-85	Limit	0.001	0.001	0.0071	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.00132	0.003	0.001	0.002	0.004	1.630	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.001	0.00656	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000414	0.000958	< 0.00004	< 0.0001	0.0010	< 0.0005	0.113	< 0.1	< 0.1	< 0.1	< 0.01
MW-87	Limit	0.001	0.027	0.0409	0.001	0.002	0.005	0.003	0.00347	0.001	0.01	0.001	0.003	0.001	0.005	0.004	0.24	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.002	0.0265	< 0.0001	< 0.00005	< 0.0002	0.000119	< 0.0002	< 0.0001	0.000152	< 0.0005	< 0.00004	< 0.0001	0.0005	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01

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

TABLE 6
CEDAR HILLS REGIONAL LANDFILL
REGIONAL AQUIFER VOLATILE ORGANIC COMPOUND DETECTIONS
(Data Collected from July 1, 2018 - September 30, 2018)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Upgradient and Crossgradient Wells				
cis-1,2,-Dichloroethene	MW-59	7/16/2018	W59-180716-	1.15
Trichloroethene	MW-83	7/20/2018	W83-180720-	2.32
	MW-94	7/20/2018	W94-180720-	1.79
Wells Downgradient to Waste Cells and North end Facilities				
No Detections this Quarter				

TABLE 7
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES
(Data Collected from July 1, 2018 - September 30, 2018)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
East Perched Zone Wells					
pH (Field)	pH Units		None.		
1,1-Dichloroethane	µg/L	MW-30A	7/12/2018	W30A180712-	1.57
Arsenic, Total	mg/L	MW-30A	7/12/2018	W30A180712-	0.000489
		MW-47	7/13/2018	W47-180713-	0.00167
Iron, Dissolved	mg/L	MW-47	7/13/2018	W47-180713-	0.807
Manganese, Dissolved	mg/L	MW-47	7/13/2018	W47-180713-	1.94 D
Nitrate	mg/l	MW-30A	7/12/2018	W30A180712-	15.9
Vinyl Chloride	µg/L	MW-47	7/13/2018	W47-180713-	3.69
South Solid Waste Area Perched Wells					
pH (Field)	pH Units		None.		
Arsenic, Total	mg/L	MW-101	7/16/2018	W101180716-	0.0126
Iron, Dissolved	mg/L	MW-101	7/16/2018	W101180716-	1.03
Manganese, Dissolved	µg/L	MW-101	7/16/2018	W101180716-	1.13

See Data Qualifier List for Qualifier Information.

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

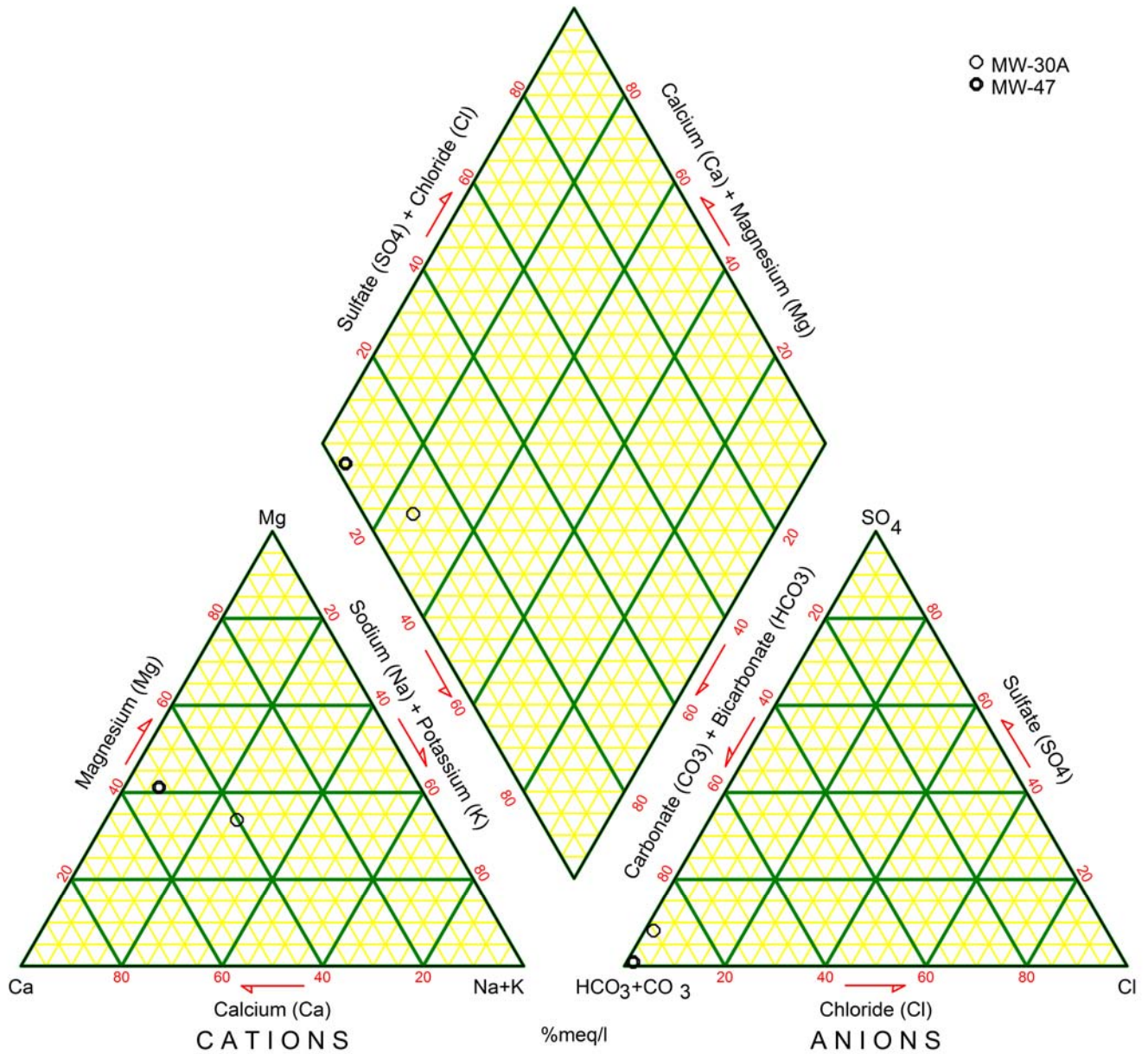
Table 8
Ion Balance Calculations
Cedar Hills Landfill Perched Zones Groundwater Monitoring Wells

Data Collected from July 1, 2018 to September 30, 2018

Cations	Molecular Weight	East Perched Zone						SSWA		
		MW-30A			MW-47			MW-101		
		7/12/18			7/13/18			7/16/18		
		mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH		6.7			6.9			7.0		
Conductance		270			920			460		
TDSobs		214			724			329		
Calcium	40.1	22.8	1.13772	40.2	148.0	7.38523	51.6	53.0	2.64471	43.4
Magnesium	24.3	11.6	0.95454	33.7	71.1	5.85065	40.9	31.0	2.55092	41.9
Potassium	39.1	1.5	0.03811	1.3	6.2	0.15755	1.1	2.6	0.06752	1.1
Sodium	23.0	16.1	0.70031	24.7	18.8	0.81776	5.7	17.2	0.74816	12.3
Iron	55.8	0.0	0.00036	0.0	0.8	0.0289	0.2	1.0	0.03689	0.6
Manganese	54.9	0.0	3.6E-06	0.0	1.9	0.07063	0.5	1.1	0.04114	0.7
Ammonia-N	14.0	0.0	0.00014	0.0	0.1	0.00663	0.0	0.0	0.00115	0.0
Total Cations (meq/L)			2.8			14.3			6.1	
Anions										
Alkalinity, Total		69.3			658			296		
Carbonate	60.0	0.01994	0.00066	0.0	0.32141	0.01071	0.1	0.19055	0.00635	0.1
Bicarbonate	61.0	84.51	1.38513	51.8	802.11	13.1473	97.7	360.73	5.91276	97.2
Chloride	35.5	1.0	0.02697	1.0	6.2	0.17347	1.3	2.9	0.08039	1.3
Nitrate-N	14.0	15.9	1.13515	42.5	0.0	0.00071	0.0	0.0	0.00071	0.0
Sulfate	96.1	6.0	0.12534	4.7	6.1	0.1268	0.9	4.1	0.08453	1.4
Total Anions (meq/L)			2.7			13.5			6.1	
Total Ions (meq/L)			5.5			27.8			12.2	
Cation/Anion Ratio			1.06			1.06			1.00	
Percent Difference			2.9			3.1			0	
TRILINEAR DIAGRAM DATA										
sum (Ca, Mg, Na+K)			2.83			14.21			6.01	
Calcium				40.2			52.0			44.00
Magnesium				33.7			41.2			42.44
Sodium + Potassium				26.1			6.9			13.57
sum (SO ₄ , Cl, HCO ₃ +CO ₃)			1.54			13.46			6.08	
Sulfate				8.1			0.9			1.4
Chloride				1.8			1.3			1.3
Bicarbonate + Carbonate				90.1			97.8			97.3

Cedar Hills Regional Landfill

Figure 7. Trilinear Diagram East Perched Zone Wells



Cedar Hills Regional Landfill

Figure 8. Trilinear Diagram SSW Area Perched Zone Wells

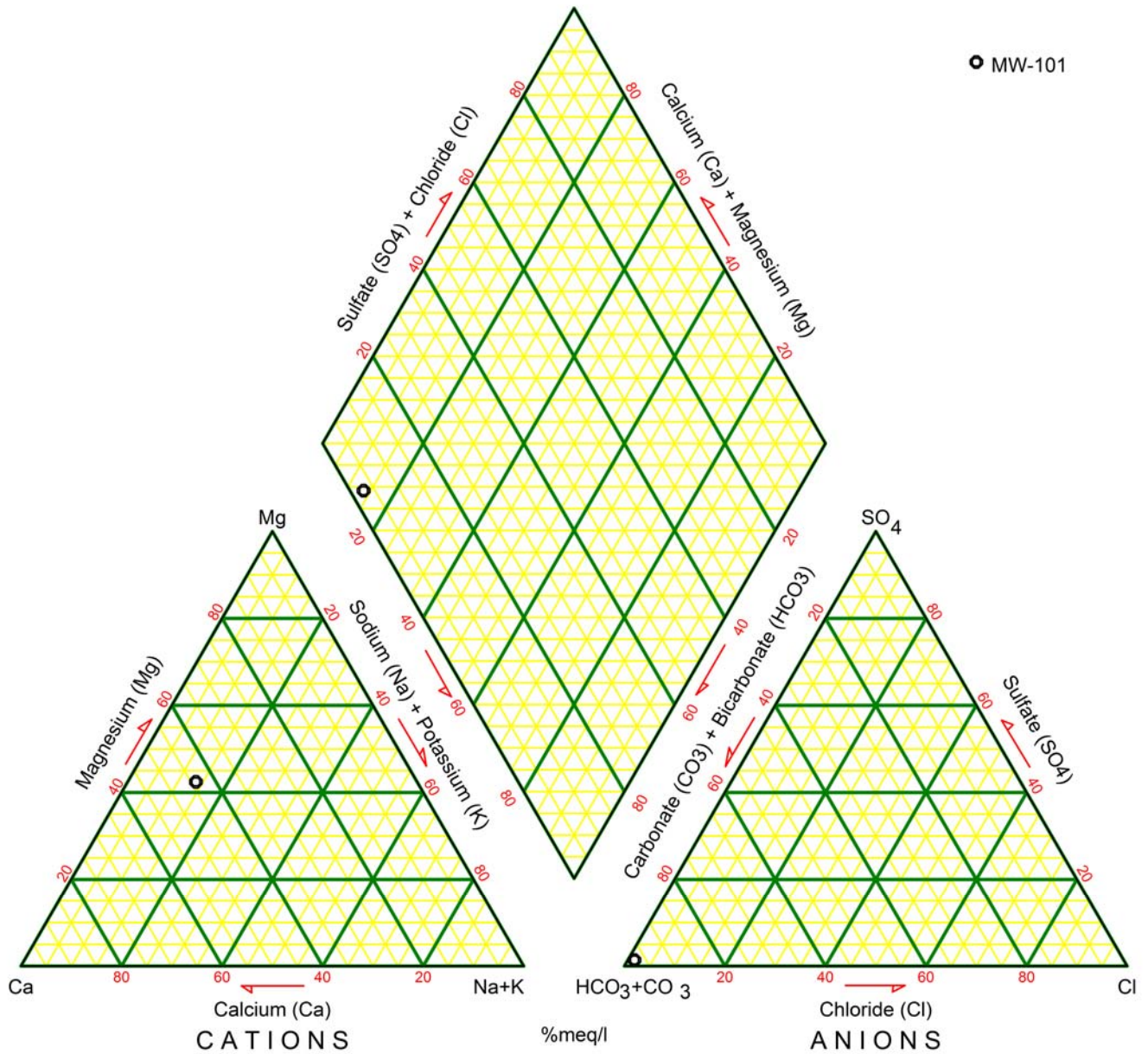


TABLE 9
CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES MONITORING WELLS
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES
(Data Collected from July 1, 2018 - September 30, 2018)

Parameter		Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc	Nitrate as N	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
Well	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
East Perched Zone Wells																								
MW-30A	Limit	0.001	0.001	0.0077	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00307	0.0188	14	6.90	0.20	0.23	13.76	0.20	1.63	0.03
	Result	< 0.0003	0.0005	0.0039	< 0.0001	< 0.00005	0.0007	0.0000578	0.000256	< 0.0001	0.000736	< 0.0005	< 0.00004	< 0.0001	0.00211	0.000807	15.9	1.57	< 0.1	< 0.1	1.96	< 0.1	0.96	< 0.01
MW-47	Limit	0.001	0.0113	0.0458	0.001	0.002	0.005	0.003	0.0105	0.00143	0.01	0.001	0.003	0.001	0.00307	0.168	0.024	0.89	0.20	0.16	5.28	0.20	0.20	8.64
	Result	< 0.0003	0.0017	0.0458	< 0.0001	< 0.00005	0.00153	0.000768	0.00168	0.000205	0.00266	< 0.0005	< 0.00004	< 0.0001	0.00269	0.00315	< 0.01	0.58	< 0.1	0.10	1.51	< 0.1	< 0.1	3.69
MW-62	Limit	0.001	0.001	0.0033	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	7.7	15.16	6.10	0.20	16.26	0.21	0.47	0.23
	Result	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
South Solid Waste Area Wells																								
MW-101	Limit	0.001	0.028	0.0378	0.001	0.002	0.005	0.003	0.00416	0.00109	0.01	0.001	0.003	0.001	0.0039	0.00729	0.059	0.21	0.20	0.22	0.23	0.20	0.20	0.96
	Result	< 0.0003	0.0126	0.0209	< 0.0001	< 0.00005	0.000655	0.000286	< 0.0002	< 0.0001	0.00406	< 0.0005	< 0.00004	< 0.0001	0.000335	0.000677	< 0.01	0.16	< 0.1	0.16	0.22	< 0.1	< 0.1	0.40

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

TABLE 10
CEDAR HILLS REGIONAL LANDFILL
PERCHED ZONES VOLATILE ORGANIC COMPOUND DETECTIONS
(Data Collected from July 1, 2018 - September 30, 2018)

Analyte	Site ID	Date	Sample ID	Sample Value (ug/L)
East Perched Zone Wells				
1,1-Dichloroethane	MW-30A	7/12/2018	W30A180712-	1.57
	MW-47	7/13/2018	W47-180713-	0.579
1,2-Dichloroethane	MW-47	7/13/2018	W47-180713-	0.103 JT
Chloroethane	MW-47	7/13/2018	W47-180713-	0.214
cis-1,2,-Dichloroethene	MW-30A	7/12/2018	W30A180712-	1.96
	MW-47	7/13/2018	W47-180713-	1.51
Dichlorodifluoromethane	MW-47	7/13/2018	W47-180713-	2.7
Tetrachloroethene	MW-30A	7/12/2018	W30A180712-	0.121 JT
Trichloroethene	MW-30A	7/12/2018	W30A180712-	0.959
Vinyl Chloride	MW-47	7/13/2018	W47-180713-	3.69
South Solid Waste Area Perched Wells				
1,1-Dichloroethane	MW-101	7/16/2018	W101180716-	0.163 JT
1,2-Dichloroethane	MW-101	7/16/2018	W101180716-	0.161 JT
Chloroethane	MW-101	7/16/2018	W101180716-	0.115 JT
cis-1,2,-Dichloroethene	MW-101	7/16/2018	W101180716-	0.223
Vinyl Chloride	MW-101	7/16/2018	W101180716-	0.403

See Data Qualifier List for Qualifier Information.

Table 11
CEDAR HILLS REGIONAL LANDFILL
STORM AND SURFACE WATER MONITORING ACTIVITIES 3rd QUARTER 2018

Station ID	Date	Planned Activity	Sample ID	Comment
SW-GS1	9/26/2018	NPDES Permit Sample	SGS1180926P	
SW-SL3	9/26/2018	NPDES Permit Sample	SSL3180926P	No flow, no sample taken.
SW-N4	9/26/2018	NPDES Permit Sample	SN4-180926P	No flow, no sample taken.
SW-TD1	--	Area 5 Top Deck Monitoring	--	Sample location not accessible.
SW-TD2	--	Area 5 Top Deck Monitoring	--	Sample location not accessible.
SW-TD4	--	Area 5 Top Deck Monitoring	--	Sample location not accessible.
SW-TD6	--	Area 5 Top Deck Monitoring	--	Sample location not accessible.
SW-E1	7/16/2018	East Perched Zone SW Monitoring	--	No flow, no sample taken.
Stream Gauges	8/24/2018	Monthly Stream Gauge Level Measurement	--	

TABLE 12
CEDAR HILLS REGIONAL LANDFILL
STORMWATER PERMIT CRITERIA EXCEEDANCES
(Data Collected from July 1, 2018 - September 30, 2018)

SUMMARY OF ISGP EXCEEDANCES

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

⁸ISGP - Industrial General Stormwater Permit

SUMMARY OF CSWGP EXCEEDANCES

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

⁶CSWGP - Construction Stormwater General Permit

TABLE 13
CEDAR HILLS REGIONAL LANDFILL
VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS
(Data Collected from July 1, 2018 - September 30, 2018)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
2-Butanone	FIELD BLANK	7/12/2018	W66-180712F	38.7
Carbon Disulfide	FIELD BLANK	7/12/2018	W66-180712F	8.07
Methylene Chloride	VOA TRIP BLANK	7/27/2018	VTRP180730X	3.62 JT
Styrene	FIELD BLANK	7/12/2018	W66-180712F	0.101 JT
Toluene	FIELD BLANK	7/12/2018	W66-180712F	0.257

See Data Qualifier List for Qualifier Information.

**Table 14
Groundwater Quality Criteria**

Analyte	CAS No.	Ground Water Quality Criteria Criterion*	
I. PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES			
A. Primary Contaminants			
Barium	7440-39-3	1.0	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	4.0	mg/L
Nitrate	14797-55-8	10.0	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	1.0	mg/L
Iron	7439-89-6	0.3	mg/L
Manganese	7439-96-5	0.05	mg/L
Zinc	7440-66-6	5.0	mg/L
Chloride	16887-00-6	250	mg/L
Sulfate	14808-79-8	250	mg/L
Total Dissolved Solids		500	mg/L
Foaming Agents		0.5	mg/L
pH	12408-02-5	6.5-8.5	units
Corrosivity		non-corrosive	
Color		15	units
Odor-Threshold		3	units
C. Radionuclides and Radioactivity			
Gross Alpha particle activity		15	pCi/L
Gross Beta particle activity		50	pCi/L
Tritium	10028-17-8	20,000	pCi/L
Strontium	7440-24-6	8	pCi/L
Radium 226 & Radium 228		5	pCi/L
Radium 226	13982-63-3	3	pCi/L
II. CARCINOGENS			
1,1-Dichloroethane	75-34-3	1	ug/L
1,2-Dichloroethane	107-06-2	0.5	ug/L
1,2-Dichloropropane	78-87-5	0.6	ug/L
1,2-Dimethylhydrazine	540-73-8	60	ug/L
1,2-Diphenylhydrazine	122-66-7	0.09	ug/L
1,3-Dichloropropene tot.	542-75-6	0.2	ug/L
1,4-Dichlorobenzene	106-46-7	4	ug/L
1,4-Dioxane	123-91-1	7	ug/L
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.000006	ug/L
2,4,6-Trichlorophenol	88-06-2	4.0	ug/L
2,4-Dinitrotoluene	121-14-2	0.1	ug/L
2,4-Toluenediamine	95-80-7	0.002	ug/L
2,6-Dinitrotoluene	606-20-2	0.1	ug/L
2-Methoxy-5-nitroaniline	99-59-2	2.0	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	6.0	ug/L
3,3'-Dimethylbenzidine	119-93-7	0.007	ug/L
4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2.0	ug/L
4-Chloro-2-methyl aniline	95-69-2	0.1	ug/L
4-Chloro-2-methyl aniline hydrochloride	3165-93-3	0.2	ug/L
Acrylamide	79-06-1	0.02	ug/L
Acrylonitrile	107-13-1	0.07	ug/L
Aldrin	309-00-2	0.005	ug/L
Aniline	62-53-3	14	ug/L
Aramite	140-57-8	3	ug/L
Arsenic	7440-38-2	0.00005	mg/L
Azobenzene	103-33-3	0.7	ug/L
Benzene	71-43-2	1	ug/L

**Table 14
Groundwater Quality Criteria**

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
Chlorthalamil	1897-45-6	30	ug/L
DDT (includes DDE and DDD)	50-29-3, 72-55-9, 72-54-8	0.3	ug/L
Diallate	2303-16-4	1	ug/L
Dichlorovos	62-73-7	0.3	ug/L
Dieldrin	60-57-1	0.005	ug/L
Direct Black 38	1937-37-7	0.009	ug/L
Direct Blue 6	2602-46-2	0.009	ug/L
Direct Brown 95	16071-86-6	0.009	ug/L
Epichlorohydrin	106-89-8	8	ug/L
Ethyl acrylate	140-88-5	2	ug/L
Ethylene dibromide	106-93-4	0.001	ug/L
Ethylene thiourea	96-45-7	2	ug/L
Folpet	133-07-3	20	ug/L
Furazolidone	67-45-8	0.02	ug/L
Furium	531-82-8	0.002	ug/L
Furmecyclox	60568-05-0	3	ug/L
Heptachlor	76-44-8	0.02	ug/L
Heptachlor epoxide	1024-57-3	0.009	ug/L
Hexachlorobenzene	118-74-1	0.05	ug/L
Hexachlorocyclohexane (alpha)	319-84-6	0.001	ug/L
Hexachlorocyclohexane (technical)	608-73-1	0.05	ug/L
Hexachlorodibenzo-p-dioxin, mix	34465-46-8	0.00001	ug/L
Hydrazine/hydrazine sulfate	302-01-2/10034-93-2	0.03	ug/L
Lindane	58-89-9	0.06	ug/L
Methylene Chloride	75-09-2	5	ug/L
Mirex	2385-85-5	0.05	ug/L
Nitrofurazone	59-87-0	0.06	ug/L
N-Nitrosodiethanolamine	1116-54-7	0.03	ug/L
N-Nitrosodiethylamine	55-18-5	0.0005	ug/L
N-Nitrosodimethylamine	62-75-9	0.002	ug/L
N-Nitroso-di-n-butylamine	924-16-3	0.02	ug/L
N-Nitroso-di-n-propylamine	621-64-7	0.01	ug/L
N-Nitrosodiphenylamine	86-30-6	17.0	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	2.0	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 14
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	1.0	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	4.0	mg/L
Nitrate	14797-55-8	10.0	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	1.0	mg/L
Iron	7439-89-6	0.3	mg/L
Manganese	7439-96-5	0.05	mg/L
Zinc	7440-66-6	5.0	mg/L
Chloride	16887-00-6	250	mg/L
Sulfate	14808-79-8	250	mg/L
Total Dissolved Solids		500	mg/L
Foaming Agents		0.5	mg/L
pH	12408-02-5	6.5-8.5	units
Corrosivity		non-corrosive	
Color		15	units
Odor-Threshold		3	units
C. Radionuclides and Radioactivity			
Gross Alpha particle activity		15	pCi/L
Gross Beta particle activity		50	pCi/L
Tritium	10028-17-8	20,000	pCi/L
Strontium	7440-24-6	8	pCi/L
Radium 226 & Radium 228		5	pCi/L
Radium 226	13982-63-3	3	pCi/L
II. CARCINOGENS			
1,1-Dichloroethane	75-34-3	1	ug/L
1,2-Dichloroethane	107-06-2	0.5	ug/L
1,2-Dichloropropane	78-87-5	0.6	ug/L
1,2-Dimethylhydrazine	540-73-8	60	ug/L
1,2-Diphenylhydrazine	122-66-7	0.09	ug/L
1,3-Dichloropropene tot.	542-75-6	0.2	ug/L
1,4-Dichlorobenzene	106-46-7	4	ug/L
1,4-Dioxane	123-91-1	7	ug/L
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.000006	ug/L
2,4,6-Trichlorophenol	88-06-2	4.0	ug/L
2,4-Dinitrotoluene	121-14-2	0.1	ug/L
2,4-Toluenediamine	95-80-7	0.002	ug/L
2,6-Dinitrotoluene	606-20-2	0.1	ug/L
2-Methoxy-5-nitroaniline	99-59-2	2.0	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	6.0	ug/L
3,3'-Dimethylbenzidine	119-93-7	0.007	ug/L
4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2.0	ug/L
4-Chloro-2-methyl aniline	95-69-2	0.1	ug/L
4-Chloro-2-methyl aniline hydrochloride	3165-93-3	0.2	ug/L
Acrylamide	79-06-1	0.02	ug/L
Acrylonitrile	107-13-1	0.07	ug/L
Aldrin	309-00-2	0.005	ug/L
Aniline	62-53-3	14	ug/L
Aramite	140-57-8	3	ug/L
Arsenic	7440-38-2	0.00005	mg/L
Azobenzene	103-33-3	0.7	ug/L
Benzene	71-43-2	1	ug/L

Table 14
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 sulfate	302-01-2/10034-93-2	0.03	ug/L
Lindane	58-89-9	0.06	ug/L
Methylene Chloride	75-09-2	5	ug/L
Mirex	2385-85-5	0.05	ug/L
Nitrofurazone	59-87-0	0.06	ug/L
N-Nitrosodiethanolamine	1116-54-7	0.03	ug/L
N-Nitrosodiethylamine	55-18-5	0.0005	ug/L
N-Nitrosodimethylamine	62-75-9	0.002	ug/L
N-Nitroso-di-n-butylamine	924-16-3	0.02	ug/L
N-Nitroso-di-n-propylamine	621-64-7	0.01	ug/L
N-Nitrosodiphenylamine	86-30-6	17.0	ug/L
N-Nitroso-N-methylethylamine	10595-95-6	0.004	ug/L
N-Nitrosopyrrolidine	930-55-2	0.04	ug/L
o-Chloronitrobenzene	88-73-3	3	ug/L
o-Phenylenediamine	95-54-5	0.005	ug/L
o-Toluidine	95-53-4	0.2	ug/L
p,a,a,a-Tetrachlorotoluene	5216-25-1	0.004	ug/L
PAHs [Benzo(a)pyrene]		0.01	ug/L
PBBs	59536-65-1	0.01	ug/L
PCBs c	27323-18-8	0.01	ug/L
p-Chloronitrobenzene	100-00-5	5	ug/L
Propylene oxide	75-56-9]	0.01	ug/L
Tetrachloroethylene	127-18-4	0.8	ug/L
Toxaphene c	8001-35-2	0.08	ug/L
Trichloroethylene (TCE)	79-01-6	3	ug/L
Trimethyl phosphate	512-56-1	2.0	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 15
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 16
CEDAR HILLS REGIONAL LANDFILL
LAB DATA REVIEW - SUSPECT DATA
(Data Collected from July 1, 2018 - September 30, 2018)

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

See Data Qualifier List for Qualifier Information.

APPENDIX A

Potentiometric Surface Maps and Aquifer Flow Calculations



King County

Water and Land Resources Division

Department of Natural Resources and Parks
King Street Center
201 South Jackson Street, Suite 600
Seattle, WA 98104-3855

206-477-4800 Fax 206-296-0192

TTY Relay: 711

Memorandum

October 26, 2018

TO: Kris McArthur, Engineer II, Facility Engineering and Science Unit, Solid Waste Division, Department of Natural Resources and Parks (DNRP)

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

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations Third Quarter 2018 Results – Regional Aquifer Cedar Hills Landfill, King County, Washington
Project No. 1033379 – Task 02.14.137.20

The King County Water and Land Resources Division (WLR Division) submits this memorandum report on groundwater conditions during the third quarter of 2018 for the Cedar Hills Landfill (landfill), in accordance with the *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations* (WLR Division, 2018). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater elevations at the landfill on July 9, 2018. These measurements were received by the WLR Division on August 23, 2018 and were used to:

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

There have been no significant changes in the interpreted regional aquifer groundwater conditions since the report submitted for the second quarter of the 2018 monitoring event.

Groundwater Elevation Data

SWD collected regional aquifer groundwater level measurements at 38 monitoring wells during the third quarter of 2018. These wells were completed in the regional aquifer as referred to in

Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010).

Table 1 lists the well identifications, locations, well details, measured groundwater levels, and calculated groundwater elevations for the regional aquifer. Wells with screened intervals within ten feet of the water table were used for potentiometric surface mapping purposes and are identified in blue. A total of 22 wells with water levels within ten feet of the top of screen were selected.

Figure 1 shows well locations, groundwater elevations at the 22 selected wells, groundwater potentiometric surface contours, and interpreted groundwater flow direction in the regional aquifer for the July 9, 2018 measurement event.

Direction of Groundwater Flow

Figure 1 shows interpreted groundwater potentiometric surface contours and groundwater flow directions in the regional aquifer, based on the July 9, 2018 measurements. Groundwater elevations indicate that groundwater in the regional aquifer generally flowed north beneath the southern portion of the landfill with minor components of flow to the north-northwest and north-northeast. In the central portion of the landfill, groundwater generally flowed to the north and north-northwest. At the northern end of the landfill, groundwater generally flowed to the northeast and north-northeast.

Groundwater Parameters

Horizontal groundwater velocity was calculated using the following formula:

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

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

Horizontal groundwater velocity was calculated for the regional aquifer below the landfill. Horizontal groundwater velocity was calculated for the southern, central, and northern portions of the regional aquifer, based on spatial differences in aquifer parameters and hydraulic gradients. The hydraulic conductivity and effective porosity values were based on the range referred to in the *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill* (Aspect, 2010).

Table 2 presents a summary of the groundwater parameters used to calculate a groundwater velocity from the third quarter 2018 data. The hydraulic gradient was greatest under the southern portion of the landfill and smallest under the northern portion. On July 9, 2018, average

horizontal groundwater velocity within the regional aquifer ranged from 0.010 feet per day (ft/d) under the southern portion of the landfill to 2.3 ft/d under the central portion of the landfill.

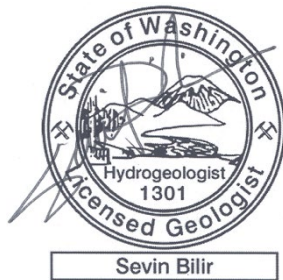
References

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

King County Water and Land Resources Division (WLR Division). 2018. *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations*. King County Landfills (Cedar Falls, Cedar Hills, Enumclaw, Hobart, and Vashon Island). Unpublished. May 14.

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

This document was prepared under the supervision of a licensed hydrogeologist, whose seal appears below.



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

Enclosures:

- Table 1: Groundwater Elevations – Third Quarter 2018
- Table 2: Groundwater Parameters – Third Quarter 2018
- Figure 1: Groundwater Potentiometric Surface Map – Third Quarter 2018 – Regional Aquifer

Table 1: Groundwater Elevations – Third Quarter 2018

**Cedar Hills Regional Landfill
King County, Washington**

							July 9, 2018	
	Well Identification	X (ft)	Y (ft)	Top of Casing Elevation (ft MSL)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Measured Depth to Water (ft)	Groundwater Elevations (ft MSL)
Wells with water levels within 10 feet of the top of screen	MW-64	1701980.27	168772.19	596.55	334.03	320.23	264.73	331.82
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	237.97	293.31
	MW-67	1701776.69	172610.65	516.43	297.8	284	219.53	296.9
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	331.12	315.95
	MW-69	1698061.86	172400.20	653.69	293.57	279.97	355.5	298.19
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	360.47	311.4
	MW-73	1698954.95	174995.59	485.7	288.11	278.81	190.45	295.25
	MW-74R	1700386.85	173813.79	531.26	289.9	280.4	239.23	292.03
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	136.71	355
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	183.26	310.4
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	121.28	353.57
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	142.99	353.82
	MW-84	1698602.89	173894.54	530.8	292.46	282.96	235.32	295.48
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	245.17	286.59
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	248.81	287.23
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	247.19	290.12
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	226.21	287.47
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	307.2	324.95
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	140.44	355.07
	MW-95	1697265.32	169426.92	571.54	314.6	305.9	250.61	320.93
MW-100	1700791.72	169610.46	620.32	319.06	309.06	296.5	323.82	
MW-106	1702536.99	173461.69	475.47	280.04	270.04	189.56	285.91	
Wells with water levels greater than 10 feet above the top of screen	MW-21	1697901.86	173876.38	420.66	263.22	255.22	124.33	296.33
	MW-22P	1701844.34	173088.17	517.09	236.02	231.22	231.72	285.37
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	144.11	331.88
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	262.78	284.28
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	277.77	302.66
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	125.27	355.06
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	102.62	354.02
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	148.12	331.15
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	122.87	334.26
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	208.3	337.53
	MW-75	1701059.70	173432.42	532.4	271.1	261	244.82	287.58
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.14	292.27
	MW-89	1701799.57	174319.44	512.82	229.2	219.9	231.41	281.41
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	220.96	281.26
MW-91	1701023.09	173423.94	532.02	260.81	240.71	246.08	285.94	
MW-99	1702556.06	172098.73	493.64	221.77	212.77	199.72	293.92	
Unknown water levels	MW-60	1701154.47	167873.20	567.15	334.81	325.81	NM	NM
	NPW-1	1701906.96	171138.99	646.33	299.87	284.87	NM	NM
	NPW-3	1701922.88	170663.28	645.81	284.87	276.87	NM	NM

Notes

1. Water level measurements made by KCSWD personnel.
 2. Reference datum for XY coordinates is the North American Datum of 1927 (NAD27)
 3. Elevations reported in feet above Mean Sea Level based on the National Geodetic Vertical Datum, 1929.
- NM Not measured

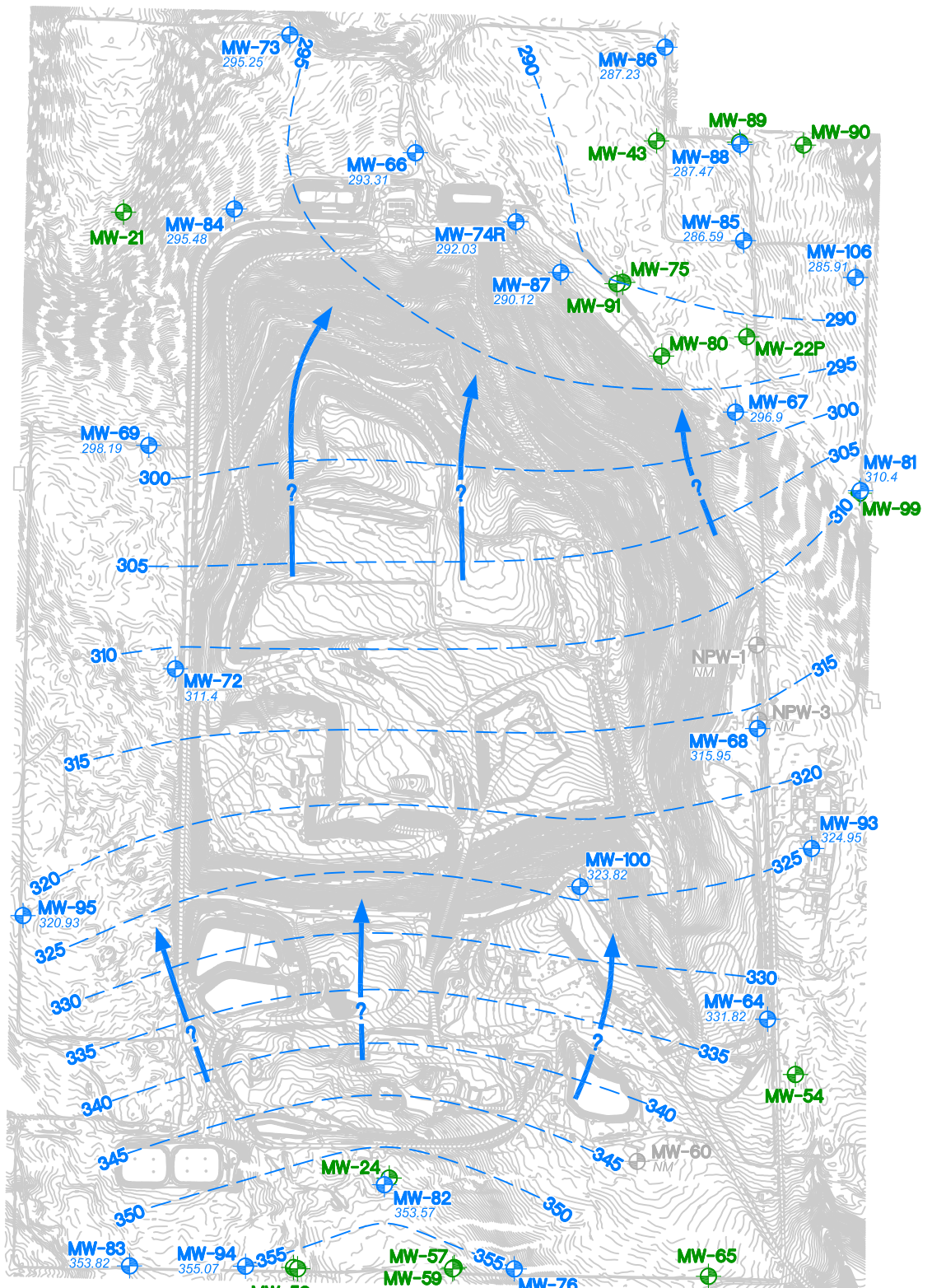
Table 2: Groundwater Parameters – Third Quarter 2018

Cedar Hills Regional Landfill
King County, Washington

Regional Aquifer Zone Beneath the Landfill	Horizontal Hydraulic Conductivity (K)			Horizontal Hydraulic Gradient (DH/DL)	Effective Porosity (n_{eff})	Horizontal Groundwater Velocity (v)	General Groundwater Flow Direction
	Range	(cm/s)	(ft/d)	(ft/ft)		(ft/d)	
Northern	Minimum	2.10E-03	6	0.006	24%	0.154	NNE, NE
	Maximum	4.20E-02	120	0.006	24%	3.09	
	Mean	2.10E-02	60	0.006	24%	1.54	
Central	Minimum	2.10E-03	6	0.009	24%	0.23	N, NNW
	Maximum	4.20E-02	120	0.009	24%	4.7	
	Mean	2.10E-02	60	0.009	24%	2.3	
Southern	Minimum	6.40E-06	0.018	0.0143	26%	0.0010	N, NNE, NNW
	Maximum	6.40E-04	1.8	0.0143	26%	0.10	
	Mean	6.40E-05	0.18	0.0143	26%	0.010	

Notes

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

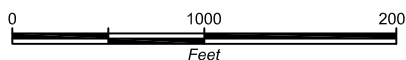


Legend

- MW-X XXX.XX Well completed in Regional Aquifer within 10 feet of the water table
- MW-X Wells completed in Regional Aquifer more than 10 ft below water table
- MW-X Wells completed in Regional Aquifer having unknown water levels.
- 300 Regional Aquifer Groundwater Elevation Contour (feet MSL).
- Inferred Horizontal Groundwater Flow Path

Notes:

1. Groundwater measurements made on July 9, 2018.
2. Only wells completed in the Regional Aquifer within 10 feet of the water table were used for contouring.



Groundwater Potentiometric Surface Map
Third Quarter 2018 - Regional Aquifer
 Cedar Hills Landfill
 King County, Washington

DATE: September 2018	PROJECT NO. 1033379
DESIGNED BY: SB	FIGURE NO. 1
DRAWN BY: KK	
REVISED BY: SB	

APPENDIX B

Field and Analytical Test Results

Groundwater Field and Analytical Data

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
EW-25	7/9/2018	643.61			Decommissioned.
MW-100	7/9/2018	620.32	296.5	323.82	
MW-101	7/9/2018	474.72	34.24	440.48	
MW-102	7/9/2018	552.48	47.69	504.79	
MW-103	7/9/2018	639.08	17.28	621.8	
MW-104	7/9/2018	629.68	26.72	602.96	
MW-105	7/9/2018	521.23	21.4	499.83	
MW-106	7/9/2018	475.47	189.56	285.91	
MW-21	7/9/2018	420.66	124.33	296.33	
MW-22	7/9/2018	517.09	231.72	285.37	
MW-24	7/9/2018	475.99	144.11	331.88	
MW-25	7/9/2018	474.41	12.4	462.01	
MW-27A	7/9/2018	584.23	54.77	529.46	
MW-28	7/9/2018	527.75	36.1	491.65	
MW-29	7/9/2018	532.92	14.89	518.03	
MW-30A	7/9/2018	568.43	29.75	538.68	Water and insects in annulus
MW-41D	7/9/2018	462.32	28.9	433.42	
MW-41S	7/9/2018	462.44	10.15	452.29	
MW-43	7/9/2018	547.06	262.78	284.28	
MW-45	7/9/2018	488.4	17.92	470.48	
MW-47	7/9/2018	634.6	20.63	613.97	
MW-48	7/9/2018	632.15	46.3	585.85	Earwigs
MW-50	7/9/2018	637.02	31.41	605.61	
MW-54	7/9/2018	580.43	277.77	302.66	
MW-55	7/9/2018	652.29	30.8	621.49	Water in annulus
MW-56	7/9/2018	480.33	125.27	355.06	
MW-57	7/9/2018	456.64	102.62	354.02	
MW-58A	7/9/2018	479.27	148.12	331.15	
MW-59	7/9/2018	457.13	122.87	334.26	
MW-60	7/9/2018	567.15			Cannot access - down power line
MW-62	7/9/2018	556.21			Dry.
MW-63	7/9/2018	515.88	18.6	497.28	
MW-64	7/9/2018	594.49	264.73	329.76	
MW-65	7/9/2018	545.83	208.3	337.53	
MW-66	7/9/2018	531.28	237.97	293.31	
MW-67	7/9/2018	516.43	219.53	296.9	
MW-68	7/9/2018	647.07	331.12	315.95	

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Groundwater Elevation Data
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Reference Elevation (msl)	Depth to Water (feet)	Ground- Water Elevation (msl)	Comment
MW-69	7/9/2018	653.69	355.5	298.19	
MW-72	7/9/2018	671.87	360.47	311.4	
MW-73	7/9/2018	485.7	190.45	295.25	Earwigs
MW-74	7/9/2018	531.26	239.23	292.03	
MW-75	7/9/2018	532.4	244.82	287.58	
MW-76	7/9/2018	491.71	136.71	355	
MW-79	7/9/2018	459.17			
MW-80	7/9/2018	530.41	238.14	292.27	Wasps
MW-81	7/9/2018	493.66	183.26	310.4	
MW-82	7/9/2018	474.85	121.28	353.57	
MW-83	7/9/2018	496.81	142.99	353.82	
MW-84	7/9/2018	530.8	235.32	295.48	Tree debris blocking vehicle access
MW-85	7/9/2018	531.76	245.17	286.59	
MW-86	7/9/2018	536.04	248.81	287.23	
MW-87	7/9/2018	537.31	247.19	290.12	Wasps and insects
MW-88	7/9/2018	513.68	226.21	287.47	
MW-89	7/9/2018	512.82	231.41	281.41	Foliage covering well
MW-90	7/9/2018	502.22	220.96	281.26	
MW-91	7/9/2018	532.02	246.08	285.94	
MW-93	7/9/2018	632.15	307.2	324.95	
MW-94	7/9/2018	495.51	140.44	355.07	
MW-95	7/9/2018	571.54	250.61	320.93	
MW-98	7/9/2018	503.73	20.54	483.19	Insects
MW-99	7/9/2018	493.64	199.72	293.92	
MW-EB5	7/9/2018	645.36	40.16	605.2	
MW-EB5S	7/9/2018	645.77	13.84	631.93	
MW-EB6	7/9/2018	589.61	29.23	560.38	Ants

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Groundwater Field Parameters
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umhos/cm)	Temperature (°C)	Purge Volume (gal)	Dissolved Oxygen (mg/L)	ORP mV	Turbidity NTU
MW-101	7/16/2018	W101180716-	7.03	460	13.1	2.5			3.13
MW-30A	7/12/2018	W30A180712-	6.68	270	6.4	3.5			1.64
MW-47	7/13/2018	W47-180713-	6.91	920	12.1	18.45			5.42
MW-59	7/16/2018	W59-180716-	6.63	184.3	10.57	4.5	0.73	-42.4	1.65
MW-66	7/12/2018	W66-180712-	6.18	219.3	10.22	2.5	5.93	312.2	0.5
MW-68	7/13/2018	W68-180713-	6.59	261.8	11.25	3.5	0.9	17.4	3.24
MW-69	7/23/2018	W69-180723-	7.15	303	10.49	3.8	1.21	-65	1.73
MW-72	7/23/2018	W72-180723-	6.51	323.7	10.69	4.5	1.21	2.3	9.94
MW-74	7/20/2018	W74R180720-	6.69	518.8	10.39	4	4.5	313.8	0.59
MW-75	7/19/2018	W75-180719-	6.71	335.3	9.96	3.8	0.79	-18.2	1.12
MW-80	7/19/2018	W80-180719-	6.53	288.5	10.18	3.5	1.05	-20	0.78
MW-81	7/20/2018	W81-180720-	7.05	147.2	10.03	2.5	5.75	358	0.23
MW-83	7/20/2018	W83-180720-	6.54	487.8	10.82	3	1.22	329.7	0.4
MW-84	7/20/2018	W84-180720-	6.14	162.3	9.99	3.2	1.5	192.7	0.33
MW-85	7/20/2018	W85-180720-	6.78	340.9	9.97	2.5	3.39	160.2	0.16
MW-87	7/20/2018	W87-180720-	6.37	489.1	10.97	3.5	0.68	1.2	12.8
MW-93	7/30/2018	W93-180730-	6.65	295.2	11.38	5	0.84	350	0.79
MW-93	7/30/2018	W93-180730D	6.65	295.2	11.38	5	0.84	350	0.79
MW-94	7/20/2018	W94-180720-	6.53	292.2	9.9	3	7.21	199.4	0.42
FIELD BLANK	7/12/2018	W66-180712F	6.31	3.3	17.5				

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Conventional Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO ₃) (mg/L)	Ammonia, (NH ₃) (mg/L)	Chloride (mg/L)	Nitrate- Nitrogen, (NO ₃ as N) (mg/L)	Specific Conductance (umhos/cm)	Sulfate (SO ₄) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-30A	7/12/2018	W30A180712-	69.3	0.002 U	0.956	15.9	288	6.02	214	0.87 T	219	0.9 T
MW-47	7/13/2018	W47-180713-	658	0.0928	6.15	0.01 U	1180	6.09	724	3.9	768	10.7
MW-59	7/16/2018	W59-180716-	69	0.0055 T	7.74	0.013 T	198	14.9	124	0.52 T	129	1.3
MW-66	7/12/2018	W66-180712-	95.3	0.002 U	5.12	0.578	238	13.6	144	0.5 U	153	0.74 T
MW-68	7/13/2018	W68-180713-	125	0.0187	2.81	0.01 U	284	15.3	171	0.57 T	177	1.39
MW-69	7/23/2018	W69-180723-	136	0.0171	3.68	0.01 U	322	23.2	196	0.59 T	201	2.3
MW-72	7/23/2018	W72-180723-	129	0.0172	6.07	0.013 T	346	36.3	214	0.57 T	223	8.34
MW-74	7/20/2018	W74R180720-	227	0.0029 T	25.9	0.28	562	31	339	0.5 U	343	0.5 U
MW-75	7/19/2018	W75-180719-	107	0.0103	10.1	0.01 U	359	55.7	233	0.5 U	244	2.93
MW-80	7/19/2018	W80-180719-	112	0.0156	4.58	0.01 U	306	34	194	0.5 U	205	1.72
MW-81	7/20/2018	W81-180720-	54.4	0.002 U	5.13	1.45	159	9.42	107	0.5 U	111	0.5 U
MW-83	7/20/2018	W83-180720-	171	0.0072 T	50.8	2.44	530	9.3	349	6.41	367	0.5 U
MW-84	7/20/2018	W84-180720-	64.7	0.0024 T	3.37	0.149	167	12.1	106	0.5 U	110	0.5 U
MW-85	7/20/2018	W85-180720-	127	0.0035 T	10.3	0.113	348	32.6	213	0.5 U	216	0.5 U
MW-87	7/20/2018	W87-180720-	102	0.0207	11.4	0.01 U	520	138	375	0.5 U	391	9.17
MW-93	7/30/2018	W93-180730-	120	0.0592	2.78	0.01 U	320	35.3	200	0.69 T	209	0.5 U
MW-94	7/20/2018	W94-180720-	98.9	0.004 T	21.3	2.03	298	7.68	192	2.48	200	0.5 U
MW-101	7/16/2018	W101180716-	296	0.0161	2.85	0.01 U	553	4.06	329	4.36	350	13.2
FIELD BLANK	7/12/2018	W66-180712F	1 U	0.002 U	0.05 U	0.01 U	2.8 T	0.1 U	10 U	0.5 U	10 U	0.5 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018

Cedar Hills Landfill --- Metals Analytical Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Antimony, dissolved (mg/L)	Antimony, total (mg/L)	Arsenic, dissolved (mg/L)	Arsenic, total (mg/L)	Barium, dissolved (mg/L)	Barium, total (mg/L)	Beryllium, dissolved (mg/L)	Beryllium, total (mg/L)	Cadmium, dissolved (mg/L)	Cadmium, total (mg/L)
MW-30A	7/12/2018	W30A180712-	0.0003 U	0.0003 U	0.000455	0.000489	0.00366	0.00389	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-47	7/13/2018	W47-180713-	0.0003 U	0.0003 U	0.00164	0.00167	0.0393	0.0458	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-59	7/16/2018	W59-180716-	0.0003 U	0.0003 U	0.000371	0.000404	0.00402	0.00409	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-66	7/12/2018	W66-180712-	0.0003 U	0.0003 U	0.0006	0.000632	0.0045	0.00452	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-68	7/13/2018	W68-180713-	0.0003 U	0.0003 U	0.00974	0.0118	0.0108	0.0107	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-69	7/23/2018	W69-180723-	0.0003 U	0.0003 U	0.00231	0.00253	0.0126	0.0126	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-72	7/23/2018	W72-180723-	0.0003 U	0.0003 U	7.49E-05	0.000124	0.0113	0.0126	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-74	7/20/2018	W74R180720-	0.0003 U	0.0003 U	0.000375	0.000417	0.0139	0.014	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-75	7/19/2018	W75-180719-	0.0003 U	0.0003 U	0.000495	0.00049	0.0124	0.0123	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-80	7/19/2018	W80-180719-	0.0003 U	0.0003 U	0.00395	0.00432	0.0146	0.0147	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-81	7/20/2018	W81-180720-	0.0003 U	0.0003 U	0.000521	0.000521	0.00317	0.00326	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-83	7/20/2018	W83-180720-	0.0003 U	0.0003 U	0.000386	0.000397	0.00748	0.00738	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-84	7/20/2018	W84-180720-	0.0003 U	0.0003 U	0.000335	0.000324	0.00412	0.00396	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-85	7/20/2018	W85-180720-	0.0003 U	0.0003 U	0.000692	0.000685	0.00665	0.00656	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-87	7/20/2018	W87-180720-	0.0003 U	0.0003 U	0.000462	0.00228	0.0264	0.0265	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-93	7/30/2018	W93-180730-	0.0003 U	0.0003 U	0.00131	0.00132	0.0074	0.00787	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-94	7/20/2018	W94-180720-	0.0003 U	0.0003 U	0.000141	0.000139	0.00258	0.00262	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-101	7/16/2018	W101180716-	0.0003 U	0.0003 U	0.00906	0.0126	0.0207	0.0209	0.0001 U	0.0001 U	5E-05 U	5E-05 U
FIELD BLANK	7/12/2018	W66-180712F	0.0003 U	0.0003 U	5E-05 U	5E-05 U	0.0005 U	0.0005 U	0.0001 U	0.0001 U	5E-05 U	5E-05 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Calcium, dissolved (mg/L)	Calcium, total (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)	Iron, dissolved (mg/L)	Iron, total (mg/L)
MW-30A	7/12/2018	W30A180712-	22.8	22.2	0.000519	0.00068	5E-05 U	5.78E-05	0.0002 U	0.000256	0.01 U	0.113
MW-47	7/13/2018	W47-180713-	148	148	0.0002 U	0.00153	0.000296	0.000768	0.0002 U	0.00168	0.807	2.64
MW-59	7/16/2018	W59-180716-	16.5	16.3	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	3.78	3.86
MW-66	7/12/2018	W66-180712-	18.4	18.7	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0308
MW-68	7/13/2018	W68-180713-	27.7	28.3	0.0002 U	0.0002 U	0.000225	0.000237	0.0002 U	0.0002 U	0.62	0.697
MW-69	7/23/2018	W69-180723-	35.1	34.7	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	1.15	1.27
MW-72	7/23/2018	W72-180723-	33.2	33.4	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000347	2.73	4.06
MW-74	7/20/2018	W74R180720-	49.4	49.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0413
MW-75	7/19/2018	W75-180719-	30.7	30.3	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.22	2.24
MW-80	7/19/2018	W80-180719-	30.7	30.7	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.18	2.26
MW-81	7/20/2018	W81-180720-	13.8	14.1	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.01 U
MW-83	7/20/2018	W83-180720-	55.7	55.5	0.0002 U	0.0002 U	0.000266	0.000287	0.00382	0.00386	0.01 U	0.01 U
MW-84	7/20/2018	W84-180720-	13	12.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.01 U
MW-85	7/20/2018	W85-180720-	31.8	33.2	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.01 U
MW-87	7/20/2018	W87-180720-	47.1	47.1	0.0002 U	0.0002 U	0.000113	0.000119	0.0002 U	0.0002 U	4.93	6.62
MW-93	7/30/2018	W93-180730-	31.9	32.1	0.0002 U	0.0002 U	8.89E-05	9.46E-05	0.0002 U	0.0002 U	0.01 U	0.01 U
MW-94	7/20/2018	W94-180720-	29.8	31.1	0.0002 U	0.0002 U	7.54E-05	7.87E-05	0.000957	0.000928	0.01 U	0.01 U
MW-101	7/16/2018	W101180716-	53	56.3	0.0002 U	0.000655	0.000332	0.000286	0.0002 U	0.0002 U	1.03	0.829
FIELD BLANK	7/12/2018	W66-180712F	0.05 U	0.05 U	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.01 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Lead,	Lead,	Magnesium,	Magnesium,	Manganese,	Manganese,	Mercury,	Mercury,	Nickel,	Nickel,
			dissolved	total	dissolved	total	dissolved	total	dissolved	total	dissolved	total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-30A	7/12/2018	W30A180712-	0.0001 U	0.0001 U	11.6	11.5	0.0001 U	0.00146	5E-05 U	5E-05 U	0.000624	0.000736
MW-47	7/13/2018	W47-180713-	0.0001 U	0.000205	71.1	74.8	1.94 D	1.68 D	5E-05 U	5E-05 U	0.00108	0.00266
MW-59	7/16/2018	W59-180716-	0.0001 U	0.0001 U	10.1	10.2	0.114	0.12	5E-05 U	5E-05 U	0.000142	0.000175
MW-66	7/12/2018	W66-180712-	0.0001 U	0.0001 U	14.2	14.8	0.000163	0.000529	5E-05 U	5E-05 U	0.000148	0.000172
MW-68	7/13/2018	W68-180713-	0.0001 U	0.0001 U	15.3	15.5	0.3 D	0.309 D	5E-05 U	5E-05 U	0.0005	0.000544
MW-69	7/23/2018	W69-180723-	0.0001 U	0.0001 U	16.7	17.2	0.277	0.273	5E-05 U	5E-05 U	0.000124	0.00015
MW-72	7/23/2018	W72-180723-	0.0001 U	0.000116	20.2	20.4	0.386	0.396	5E-05 U	5E-05 U	0.0001 U	0.000147
MW-74	7/20/2018	W74R180720-	0.0001 U	0.0001 U	36.9	38.4	0.0001 U	0.000795	5E-05 U	5E-05 U	0.000969	0.00102
MW-75	7/19/2018	W75-180719-	0.0001 U	0.0001 U	22.4	22.8	0.191	0.183	5E-05 U	5E-05 U	0.0001 U	0.0001 U
MW-80	7/19/2018	W80-180719-	0.0001 U	0.0001 U	16	16.3	0.331	0.329	5E-05 U	5E-05 U	0.000109	0.000146
MW-81	7/20/2018	W81-180720-	0.0001 U	0.0001 U	7.63	7.91	0.0001 U	0.0001 U	5E-05 U	5E-05 U	0.0001 U	0.000101
MW-83	7/20/2018	W83-180720-	0.0001 U	0.0001 U	24.4	24.5	0.00468	0.0189	5E-05 U	5E-05 U	0.00177	0.00182
MW-84	7/20/2018	W84-180720-	0.0001 U	0.0001 U	10.1	10.2	0.000729	0.00105	5E-05 U	5E-05 U	0.000262	0.000243
MW-85	7/20/2018	W85-180720-	0.0001 U	0.0001 U	20	20.9	0.0001 U	0.000227	5E-05 U	5E-05 U	0.000178	0.000414
MW-87	7/20/2018	W87-180720-	0.0001 U	0.0001 U	31.5	31.9	0.533	0.544	5E-05 U	5E-05 U	0.000107	0.000152
MW-93	7/30/2018	W93-180730-	0.0001 U	0.0001 U	15.9	15	0.219	0.228	5E-05 U	5E-05 U	0.000209	0.000201
MW-94	7/20/2018	W94-180720-	0.0001 U	0.0001 U	13.1	14	0.0001 U	0.000101	5E-05 U	5E-05 U	0.00043	0.000423
MW-101	7/16/2018	W101180716-	0.0001 U	0.0001 U	31	34.5	1.13	1.31	5E-05 U	5E-05 U	0.00369	0.00406
FIELD BLANK	7/12/2018	W66-180712F	0.0001 U	0.0001 U	0.05 U	0.05 U	0.0001 U	0.0001 U	5E-05 U	5E-05 U	0.0001 U	0.0001 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Metals Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	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)	Thallium, dissolved (mg/L)	Thallium, total (mg/L)
MW-30A	7/12/2018	W30A180712-	1.49	1.46	0.0005 U	0.0005 U	4E-05 U	4E-05 U	16.1	16.2	0.0001 U	0.0001 U
MW-47	7/13/2018	W47-180713-	6.16	5.76	0.0005 U	0.0005 U	4E-05 U	4E-05 U	18.8	19.9	0.0001 U	0.0001 U
MW-59	7/16/2018	W59-180716-	1.13	1.12	0.0005 U	0.0005 U	4E-05 U	4E-05 U	6.27	6.43	0.0001 U	0.0001 U
MW-66	7/12/2018	W66-180712-	1.15	1.19	0.000898	0.00102	4E-05 U	4E-05 U	7.49	7.83	0.0001 U	0.0001 U
MW-68	7/13/2018	W68-180713-	1.68	1.71	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.77	9.1	0.0001 U	0.0001 U
MW-69	7/23/2018	W69-180723-	1.82	1.87	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.08	9.15	0.0001 U	0.0001 U
MW-72	7/23/2018	W72-180723-	1.98	1.99	0.0005 U	0.0005 U	4E-05 U	4E-05 U	8.36	8.55	0.0001 U	0.0001 U
MW-74	7/20/2018	W74R180720-	2.21	2.23	0.000741	0.000739	4E-05 U	4E-05 U	13.2	13.7	0.0001 U	0.0001 U
MW-75	7/19/2018	W75-180719-	1.95	1.94	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.3	9.48	0.0001 U	0.0001 U
MW-80	7/19/2018	W80-180719-	1.68	1.68	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.94	8.09	0.0001 U	0.0001 U
MW-81	7/20/2018	W81-180720-	0.823	0.857	0.000852	0.000892	4E-05 U	4E-05 U	6.63	6.75	0.0001 U	0.0001 U
MW-83	7/20/2018	W83-180720-	3.24	3.25	0.0005 U	0.0005 U	4E-05 U	4E-05 U	13.5	13.7	0.0001 U	0.0001 U
MW-84	7/20/2018	W84-180720-	1.06	1.05	0.000509	0.000568	4E-05 U	4E-05 U	6.51	6.69	0.0001 U	0.0001 U
MW-85	7/20/2018	W85-180720-	1.64	1.68	0.000983	0.000958	4E-05 U	4E-05 U	9.47	10	0.0001 U	0.0001 U
MW-87	7/20/2018	W87-180720-	2.43	2.44	0.0005 U	0.0005 U	4E-05 U	4E-05 U	10.9	11.2	0.0001 U	0.0001 U
MW-93	7/30/2018	W93-180730-	1.58	1.59	0.0005 U	0.0005 U	4E-05 U	4E-05 U	9.28	9.45	0.0001 U	0.0001 U
MW-94	7/20/2018	W94-180720-	2.2	2.29	0.0005 U	0.0005 U	4E-05 U	4E-05 U	7.87	8.47	0.0001 U	0.0001 U
MW-101	7/16/2018	W101180716-	2.64	2.76	0.0005 U	0.0005 U	4E-05 U	4E-05 U	17.2	17.6	0.0001 U	0.0001 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.1 U	0.0005 U	0.0005 U	4E-05 U	4E-05 U	0.1 U	0.1 U	0.0001 U	0.0001 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Vanadium, dissolved (mg/L)	Vanadium, total (mg/L)	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
MW-30A	7/12/2018	W30A180712-	0.00195	0.00211	0.000954	0.000807
MW-47	7/13/2018	W47-180713-	0.000386	0.00269	0.000507	0.00315
MW-59	7/16/2018	W59-180716-	7.5E-05 U	7.5E-05 U	0.00112	0.0015
MW-66	7/12/2018	W66-180712-	0.0006	0.000643	0.000695	0.00121
MW-68	7/13/2018	W68-180713-	0.000184	0.000262	0.000528	0.000688
MW-69	7/23/2018	W69-180723-	7.89E-05	0.000109	0.0005 U	0.000685
MW-72	7/23/2018	W72-180723-	7.5E-05 U	7.65E-05	0.00106	0.00301
MW-74	7/20/2018	W74R180720-	0.00057	0.000617	0.0005 U	0.0005 U
MW-75	7/19/2018	W75-180719-	7.5E-05 U	7.5E-05 U	0.0005 U	0.0005 U
MW-80	7/19/2018	W80-180719-	7.5E-05 U	7.5E-05 U	0.0005 U	0.000516
MW-81	7/20/2018	W81-180720-	0.00164	0.00167	0.0005 U	0.0005 U
MW-83	7/20/2018	W83-180720-	0.000941	0.00101	0.0005 JU	0.000568
MW-84	7/20/2018	W84-180720-	0.000482	0.000492	0.0005 U	0.0005 U
MW-85	7/20/2018	W85-180720-	0.000902	0.000959	0.0005 U	0.0005 U
MW-87	7/20/2018	W87-180720-	7.5E-05 U	0.000514	0.0005 U	0.0005 U
MW-93	7/30/2018	W93-180730-	0.00209	0.00215	0.000848	0.00103
MW-94	7/20/2018	W94-180720-	0.00121	0.00131	0.0005 U	0.0005 U
MW-101	7/16/2018	W101180716-	0.000181	0.000335	0.000759	0.000677
FIELD BLANK	7/12/2018	W66-180712F	7.5E-05 U	7.5E-05 U	0.0005 U	0.0005 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-	1,1,1-	1,1,2,2-	1,1,2-	1,1-	1,1-	1,2,3-	1,2-Dibromo-	1,2-	1,2-	1,2-
			Tetrachloroethane	Trichloroethane	Tetrachloroethane	Trichloroethane	Dichloroethane	Dichloroethane	Trichloropropane	3-Chloropropane	Dibromoethane	Dichlorobenzene	Dichloroethane
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
			630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	96-18-4	96-12-8	106-93-4	95-50-1	107-06-2
MW-30A	7/12/2018	W30A180712-	0.25 U	0.1 U	0.1 U	0.1 U	1.57	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-47	7/13/2018	W47-180713-	0.25 U	0.1 U	0.1 U	0.1 U	0.579	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.103 JT
MW-59	7/16/2018	W59-180716-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-66	7/12/2018	W66-180712-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-68	7/13/2018	W68-180713-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-69	7/23/2018	W69-180723-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-72	7/23/2018	W72-180723-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-74	7/20/2018	W74R180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-75	7/19/2018	W75-180719-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-80	7/19/2018	W80-180719-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-81	7/20/2018	W81-180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-83	7/20/2018	W83-180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-84	7/20/2018	W84-180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-85	7/20/2018	W85-180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-87	7/20/2018	W87-180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-93	7/30/2018	W93-180730-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-94	7/20/2018	W94-180720-	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-101	7/16/2018	W101180716-	0.25 U	0.1 U	0.1 U	0.1 U	0.163 JT	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.161 JT
FIELD BLANK	7/12/2018	W66-180712F	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180712X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/11/2018	VTRP180713X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/13/2018	VTRP180716X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/12/2018	VTRP180719X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/16/2018	VTRP180720X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/16/2018	VTRP180720Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/19/2018	VTRP180723X	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-	1,4-	2-Butanone	2-	4-Methyl-2-	Acetone	Acrylonitrile	Benzene	Bromochlor	Bromochloro	Bromoform	Bromomethan	
			Dichloroprop	Dichlorobenze		Hexanone	Pentanone					omethane	methane		e
			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
			78-87-5	106-46-7	78-93-3	591-78-6	108-10-1	67-64-1	107-13-1	71-43-2	74-97-5	75-27-4	75-25-2	74-83-9	
MW-30A	7/12/2018	W30A180712-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-47	7/13/2018	W47-180713-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-59	7/16/2018	W59-180716-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-66	7/12/2018	W66-180712-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-68	7/13/2018	W68-180713-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-69	7/23/2018	W69-180723-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-72	7/23/2018	W72-180723-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-74	7/20/2018	W74R180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-75	7/19/2018	W75-180719-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-80	7/19/2018	W80-180719-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-81	7/20/2018	W81-180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-83	7/20/2018	W83-180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-84	7/20/2018	W84-180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-85	7/20/2018	W85-180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-87	7/20/2018	W87-180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-93	7/30/2018	W93-180730-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-94	7/20/2018	W94-180720-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
MW-101	7/16/2018	W101180716-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.1 U	38.7	0.5 U	2.5 U	8.07	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/9/2018	VTRP180712X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/11/2018	VTRP180713X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/13/2018	VTRP180716X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/12/2018	VTRP180719X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/16/2018	VTRP180720X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/16/2018	VTRP180720Y	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	
VOA TRIP BLANK	7/19/2018	VTRP180723X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	

Environmental Monitoring Data

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Site	Date	Sample ID	Carbon	Carbon	Chlorbenzene	Chlorodibr	Chloroethan	Chlorofo	Chloromethan	cis-1,2-	cis-1,3-	Dibromo	Dichlorodifl	Ethylbenzene
			Disulfide	Tetrachloride		omometha	e	m	e	Dichloroet	Dichloroprop	methane	uoromethan	
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
			75-15-0	56-23-5	108-90-7	124-48-1	75-00-3	67-66-3	74-87-3	156-59-2	10061-01-5	74-95-3	75-71-8	100-41-4
MW-30A	7/12/2018	W30A180712-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	1.96	0.25 U	0.1 U	0.1 U	0.1 U
MW-47	7/13/2018	W47-180713-	0.1 U	0.25 U	0.1 U	0.5 U	0.214	0.1 U	0.25 U	1.51	0.25 U	0.1 U	2.7	0.1 U
MW-59	7/16/2018	W59-180716-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	1.15	0.25 U	0.1 U	0.1 U	0.1 U
MW-66	7/12/2018	W66-180712-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-68	7/13/2018	W68-180713-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-69	7/23/2018	W69-180723-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-72	7/23/2018	W72-180723-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-74	7/20/2018	W74R180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-75	7/19/2018	W75-180719-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-80	7/19/2018	W80-180719-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-81	7/20/2018	W81-180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-83	7/20/2018	W83-180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-84	7/20/2018	W84-180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-85	7/20/2018	W85-180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-87	7/20/2018	W87-180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-93	7/30/2018	W93-180730-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-94	7/20/2018	W94-180720-	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
MW-101	7/16/2018	W101180716-	0.1 U	0.25 U	0.1 U	0.5 U	0.115 JT	0.1 U	0.25 U	0.223	0.25 U	0.1 U	0.1 U	0.1 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180712X	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/11/2018	VTRP180713X	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/13/2018	VTRP180716X	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/12/2018	VTRP180719X	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/16/2018	VTRP180720X	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/16/2018	VTRP180720Y	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/19/2018	VTRP180723X	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

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Site	Date	Sample ID	M & P Xylene	Methyl Iodide	Methylene Chloride	O-Xylene	Styrene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trans-1,4-Dichloro-2-Butene
			ug/l MPX	ug/l 74-88-4	ug/l 75-09-2	ug/l 95-47-6	ug/l 100-42-5	ug/l 127-18-4	ug/l 108-88-3	ug/l 156-60-5	ug/l 10061-02-6	ug/l 110-57-6
MW-30A	7/12/2018	W30A180712-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.121 JT	0.1 U	0.1 U	0.5 U	5 U
MW-47	7/13/2018	W47-180713-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-59	7/16/2018	W59-180716-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-66	7/12/2018	W66-180712-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-68	7/13/2018	W68-180713-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-69	7/23/2018	W69-180723-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-72	7/23/2018	W72-180723-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-74	7/20/2018	W74R180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-75	7/19/2018	W75-180719-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-80	7/19/2018	W80-180719-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-81	7/20/2018	W81-180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-83	7/20/2018	W83-180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-84	7/20/2018	W84-180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-85	7/20/2018	W85-180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-87	7/20/2018	W87-180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-93	7/30/2018	W93-180730-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-94	7/20/2018	W94-180720-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
MW-101	7/16/2018	W101180716-	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.1 U	2.5 U	0.1 U	0.101 JT	0.1 U	0.257	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/9/2018	VTRP180712X	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/11/2018	VTRP180713X	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/13/2018	VTRP180716X	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/12/2018	VTRP180719X	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/16/2018	VTRP180720X	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/16/2018	VTRP180720Y	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U
VOA TRIP BLANK	7/19/2018	VTRP180723X	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U	5 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Trichloroethene	Trichlorofluoro methane	Vinyl Acetate	Vinyl Chloride
			ug/l 79-01-6	ug/l 75-69-4	ug/l 108-05-4	ug/l 75-01-4
MW-30A	7/12/2018	W30A180712-	0.959	0.1 U	0.1 U	0.01 U
MW-47	7/13/2018	W47-180713-	0.1 U	0.1 U	0.1 U	3.69
MW-59	7/16/2018	W59-180716-	0.1 U	0.1 U	0.1 U	0.01 U
MW-66	7/12/2018	W66-180712-	0.1 U	0.1 U	0.1 U	0.01 U
MW-68	7/13/2018	W68-180713-	0.1 U	0.1 U	0.1 U	0.01 U
MW-69	7/23/2018	W69-180723-	0.1 U	0.1 U	0.1 U	0.01 U
MW-72	7/23/2018	W72-180723-	0.1 U	0.1 U	0.1 U	0.01 U
MW-74	7/20/2018	W74R180720-	0.1 U	0.1 U	0.1 U	0.01 U
MW-75	7/19/2018	W75-180719-	0.1 U	0.1 U	0.1 U	0.01 U
MW-80	7/19/2018	W80-180719-	0.1 U	0.1 U	0.1 U	0.01 U
MW-81	7/20/2018	W81-180720-	0.1 U	0.1 U	0.1 U	0.01 U
MW-83	7/20/2018	W83-180720-	2.32	0.1 U	0.1 U	0.01 U
MW-84	7/20/2018	W84-180720-	0.1 U	0.1 U	0.1 U	0.01 U
MW-85	7/20/2018	W85-180720-	0.1 U	0.1 U	0.1 U	0.01 U
MW-87	7/20/2018	W87-180720-	0.1 U	0.1 U	0.1 U	0.01 U
MW-93	7/30/2018	W93-180730-	0.1 U	0.1 U	0.1 U	0.01 U
MW-94	7/20/2018	W94-180720-	1.79	0.1 U	0.1 U	0.01 U
MW-101	7/16/2018	W101180716-	0.1 U	0.1 U	0.1 U	0.403
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/9/2018	VTRP180712X	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/11/2018	VTRP180713X	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/13/2018	VTRP180716X	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/12/2018	VTRP180719X	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/16/2018	VTRP180720X	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/16/2018	VTRP180720Y	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/19/2018	VTRP180723X	0.1 U	0.1 U	0.1 U	0.01 U

Storm and Surface Water Field and Analytical Data

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018

Cedar Hills Landfill ---Surface Water Elevation-Staff Gage Measurements

Contact Person: Sandy Jimenez (206) 477-5224

Staff Gage	Location	Date	Reference Elevation Staff Gage 0' (msl)	Staff Gage Reading (feet)	Reference Elevation Top of Peizo (msl)	Depth to Water (Peizometer) (feet)	Surface Water Elevation (msl)
SW-G1	SW-W1	9/27/2018	415.38	0.68	418.84	--	416.06
SW-G2	SW-N1	9/27/2018	355.68	--	358.21	3.59	354.62
SW-G3	SW -V	9/27/2018	466.46	--	469.88	5.38	464.50
SW-G4	Upstream of SW-E1	9/27/2018	502.41	--	505.85	6.25	499.60
SW-G5	SW-E1	9/27/2018	486.92	--	490.34	5.34	485.00
SW-G6	Upstream of SW-GS1	9/27/2018	490.72	--	494.12	7.24	486.88
SW-G7	SW-S2	9/27/2018	453.03	--	456.41	8.87	447.54
SW-G8	Upstream of SW-S1	9/27/2018	510.61	--	515.56	4.75	510.81
SW-G9	SW-S1	9/27/2018	490.93	--	494.35	6.39	487.96

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
Cedar Hills Landfill ---Surface Water Field Parameters
Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (°C)	Turbidity (NTU)	Oxygen, Dissolved (mg/L)
SW-GS1	9/26/2018	SGS1180926P	7.32	230.9	13.36	4.53	5.99

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Surface Water ISGP Analytes
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Ammonia, (NH3) (mg/L)	Biological Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Copper, total (mg/L)	Zinc, total (mg/L)
SW-GS1	9/26/2018	SGS1180926P	0.0723	2 U	0.5 U	0.00579	0.00109

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
Cedar Hills Landfill ---Surface Water VOAs Analytes
Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	4-Methyl-phenol 106-44-5 (ug/L)	Alpha Terpineol 98-55-5 (ug/L)	Benzoic Acid 65-85-0 (ug/L)	Phenol 108-95-2 (ug/L)
SW-GS1	9/26/2018	SGS1180926P	0.476 U	0.476 U	9.52 U	0.476 U

Washington Department of Ecology
Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1648783 - 11/2/2018
3:48:46 PM**

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 Friday November 2 2018

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



1ABzS3QGcIVyykzeHzh1GpV95IpWPg9/ktAxA8c+qaBs4kPXLQDwCzDe3PO9DZVVwUIPDxWcp5Hj2ekNGjAMq
+qWTG1eSgFV0MvrGHRotyA=



DMR Validation Messages

Your DMR has been validated.

There were no error, violation, or warning messages generated during the validation process. You may now submit your DMR.

Close



Washington State Department of Ecology Discharge Monitoring Report (DMR)

Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 07/01/2018 - 09/30/2018

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total 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
Week	Monitoring Point	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1	GS1
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
13-W	9/26/18	4.53	A	N	5.79	A	<2	<0.5	0.0723	<0.476	<9.52	<0.476
Minimum			A BM: >= 5.0 (RO)									
Average		4.53 BM: <= 25			5.79 BM: <= 14	A BM: <= 117						
Maximum			A BM: <= 9.0 (RO)									
Month 1 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							<2 <= 37	<0.5 <= 27	0.0723 <= 4.9	<0.476 <= 16	<9.52 <= 71	<0.476 <= 14

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



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
Week	Monitoring Point	GS1	GS1	GS1
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
13-W	9/26/18	<0.476	1.09	7.32
Minimum				7.32 >= 6.0 (RO)
Average				
Maximum				7.32 <= 9.0 (RO)
Month 1 Average	M	M		
	<= 15	<= 110		
Month 2 Average	M	M		
	<= 15	<= 110		
Month 3 Average	<0.476	1.09		
	<= 15	<= 110		



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 07/01/2018 - 09/30/2018

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc 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	Benzic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4	N4
Limit Set	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
Minimum		BM: >= 5.0 (RO)										
Average	BM: <= 25				BM: <= 14	BM: <= 117						
Maximum		BM: <= 9.0 (RO)										
Month 1 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 2 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 3 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14

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

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

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
N4	All Parameters		C	No discharge during 3Q18.



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		N4	N4	N4
Limit Set		ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
Minimum				>= 6.0 (RO)
Average				
Maximum				<= 9.0 (RO)
Month 1 Average		<= 15	<= 110	
Month 2 Average		<= 15	<= 110	
Month 3 Average		<= 15	<= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 07/01/2018 - 09/30/2018

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Quarterly Grab	pH Standard Units Quarterly Grab	Oil & Grease Yes/No Quarterly Visual Observation	Copper Total Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	Total BOD5 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
Week	Monitoring Point	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3	SL3
Limit Set		ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Western WA - 2015 Permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
Minimum			BM: >= 5.0 (RO)									
Average		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum			BM: <= 9.0 (RO)									
Month 1 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 2 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 3 Average							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14

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

Outfall: SL3 - Discharge to unnamed stream (ditch)

Monitoring Point	Parameter	Sample Date/ Statistical Base	Value	Notes/Comment
SL3	All Parameters		C	No discharge during 3Q18.

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

11/2/2018 3:48:45 PM

Signature

Date



Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
	SL3	SL3	SL3	SL3
Limit Set	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit	ISGP Non-Haz Waste Landfill (40CFR part 445 subpart B)- 2015 permit
Minimum				>= 6.0 (RO)
Average				
Maximum				<= 9.0 (RO)
Month 1 Average	<= 15	<= 110		
Month 2 Average	<= 15	<= 110		
Month 3 Average	<= 15	<= 110		

Washington Department of Ecology
Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1637545 - 8/7/2018
11:17:26 AM**

Company Name	Signer Name	System Name
Herrera Environmental Consultants	George Iftner	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for Herrera Environmental Consultants	Copy of Record HerreraEnvironmentalConsultants Tuesday August 7 2018

Attestation Agreed to at Signing:

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

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

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gK4hCqqgsCKoc6NbOYtnHOHCW7W/bzdDCcm8hMSibi3GseyxrAJuokWrb6boEtcRMZwp8y7KB2oC2ojOzWKITw5gTN0+HpYwjK5JCZBvJI=



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: 07/01/2018 - 07/31/2018

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		CHL	CHL
1-Su	7/1/18	C	C
2-Su	7/8/18	C	C
3-Su	7/15/18	C	C
4-Su	7/22/18	C	C
5-Su	7/29/18	C	C
Minimum			M
			BM: >= 6.5 (RO)
Maximum		C	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	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Check Dams
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond



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: 07/01/2018 - 07/31/2018

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-Su	7/1/18	C	C
2-Su	7/8/18	C	C
3-Su	7/15/18	C	C
4-Su	7/22/18	C	C
5-Su	7/29/18	C	C
Minimum			M
			BM: >= 6.5 (RO)
Maximum		C	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	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Check Dams
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 07/01/2018 - 07/31/2018

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	
		C1	C1	C2	C2
1-Su	7/1/18	C	C	C	C
2-Su	7/8/18	C	C	C	C
3-Su	7/15/18	C	C	C	C
4-Su	7/22/18	C	C	C	C
5-Su	7/29/18	C	C	C	C
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		C	M	C	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Check Dams
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	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.

George Iftner

8/7/2018 11:17:25 AM

Signature

Date

Washington Department of Ecology

Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1641646 - 9/11/2018
11:54:28 AM**

Company Name	Signer Name	System Name
Herrera Environmental Consultants	George Iftner	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for Herrera Environmental Consultants	Copy of Record HerreraEnvironmentalConsultants Tuesday September 11 2018

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



J6uwqtBkzIEJN7R5sv7KUS9voT2FJVRqyzFZxduAaIeUKi2pe6W/CIXr0mLqm1Y/8wtIL34C7RrJdGv4E0N4Tin4cbNIH9U/G7jl/lw/cyk=



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: 08/01/2018 - 08/31/2018

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		CHL	CHL
1-W	8/1/18		
2-M	8/6/18	C	M
3-M	8/13/18	C	M
4-M	8/20/18	C	M
5-M	8/27/18	C	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum		C	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

Overall DMR Notes/Comment

Monitoring for the first week of August was completed on Monday July 30th at the start of the week and resulted in no discharge

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond



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: 08/01/2018 - 08/31/2018

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

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		C3	C3
1-W	8/1/18		
2-Su	8/5/18		
2-M	8/6/18	C	M
3-M	8/13/18	C	M
4-M	8/20/18	C	M
5-M	8/27/18	C	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum		C	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

Overall DMR Notes/Comment

Monitoring for the first week of August was completed on Monday July 30th at the start of the week and resulted in no discharge

BMPs

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



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 08/01/2018 - 08/31/2018

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C1	C1	C2	C2
1-W	8/1/18				
2-M	8/6/18	C	M	C	M
3-M	8/13/18	C	M	C	M
4-M	8/20/18	C	M	C	M
5-Su	8/26/18				
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		C	M	C	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

Overall DMR Notes/Comment

Monitoring for the first week of August was completed on Monday July 30th at the start of the week and resulted in no discharge

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Check Dams
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond



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.

George Iftner

9/11/2018 11:54:27 AM

Signature

Date

Washington Department of Ecology
Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1646098 - 10/12/2018
1:17:48 PM**

Company Name	Signer Name	System Name
Herrera Environmental Consultants	George Iftner	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for Herrera Environmental Consultants	Copy of Record HerreraEnvironmentalConsultants Friday October 12 2018

Attestation Agreed to at Signing:

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

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

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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: 09/01/2018 - 09/30/2018

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU)	pH
		Measured NTU Weekly Grab	Standard Units Weekly Grab
		CHL	CHL
1-Sa	9/1/18		
2-T	9/4/18	C	M
3-M	9/10/18	C	M
4-M	9/17/18	12.4	M
5-M	9/24/18	9.7	M
6-Su	9/30/18		
Minimum			M BM: >= 6.5 (RO)
Maximum		12.4 BM: <= 25 (RO)	M BM: <= 8.5 (RO)

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

BMPs

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



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: 09/01/2018 - 09/30/2018

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-Sa	9/1/18		
2-Su	9/2/18	C	C
3-Su	9/9/18	C	C
4-Su	9/16/18	C	C
5-Su	9/23/18	C	C
6-Su	9/30/18		
Minimum			M
			BM: >= 6.5 (RO)
Maximum		C	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	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Check Dams
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	6	Check Dams
	6	Sediment Trap
	6	Silt Fence
	6	Straw Wattles
	6	Temporary Sediment Pond



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: McDonald Creek

Monitoring Period: 09/01/2018 - 09/30/2018

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C1	C1	C2	C2
1-Sa	9/1/18				
2-Su	9/2/18	C	C	C	C
3-Su	9/9/18	C	C	C	C
4-Su	9/16/18	C	C	C	C
5-Su	9/23/18	C	C	C	C
6-Su	9/30/18				
Minimum			M BM: >= 6.5 (RO)		M BM: >= 6.5 (RO)
Maximum		C BM: <= 25 (RO)	M BM: <= 8.5 (RO)	C BM: <= 25 (RO)	M BM: <= 8.5 (RO)

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

BMPs

Monitoring Point	Week	BMP
	1	Check Dams
	1	Sediment Trap
	1	Silt Fence
	1	Straw Wattles
	1	Temporary Sediment Pond
	2	Check Dams
	2	Sediment Trap
	2	Silt Fence
	2	Straw Wattles
	2	Temporary Sediment Pond
	3	Check Dams
	3	Sediment Trap
	3	Silt Fence
	3	Straw Wattles
	3	Temporary Sediment Pond
	4	Check Dams
	4	Sediment Trap
	4	Silt Fence
	4	Straw Wattles
	4	Temporary Sediment Pond
	5	Check Dams
	5	Sediment Trap
	5	Silt Fence
	5	Straw Wattles
	5	Temporary Sediment Pond
	6	Check Dams
	6	Sediment Trap
	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.

George Iftner

10/12/2018 1:17:47 PM

Signature

Date

Leachate Field and Analytical Data

Leachate Monitoring Activities 3rd Quarter 2018

Station ID	Date	Activity	Sample ID	Comment
LS-API	7/10/2018	Monthly Characterization Sample	LAPI180710M	
LS-API	8/22/2018	Monthly Characterization Sample	LAPI180822M	
LS-API	9/12/2018	Monthly Characterization Sample	LAPI180912M	
LS-CSW	7/11/2018	Special Investigation - Arsenic Speciation	LCSW180711I	
LS-CSW	9/12/2018	Special Investigation - Arsenic Speciation	LCSW180912I	
LS-LEPS	7/10/2018	Monthly Characterization Sample	LEPS180710M	
LS-LEPS	8/20/2018	Monthly Characterization Sample	LEPS180820M	
LS-LEPS	9/11/2018	Monthly Characterization Sample	LEPS180911M	
LS-LEPS	7/10/2018	Permit Sample	LEPS180710P	
LS-LEPS	7/10/2018	QA/QC Sample	LEPS180710D	Field Duplicate
LS-LEPS	8/21/2018	Permit Sample	LEPS180820P	
LS-LEPS	9/11/2018	Permit Sample	LEPS180911P	
LS-MH46N	7/11/2018	Monthly Characterization Sample	L46N180711M	
LS-MH46N	8/20/2018	Monthly Characterization Sample	L46N180820M	
LS-MH46N	9/12/2018	Monthly Characterization Sample	L46N180912M	
LS-MH5	8/23/2018	Special Investigation - Arsenic Speciation	LMH5180823I	
LS-PS1A	7/11/2018	Special Investigation	LP1A180711I	
LS-PS1A	8/20/2018	Special Investigation	LP1A180820I	
LS-PS1A	9/12/2018	Special Investigation	LP1A180912I	
LS-PS2A	7/11/2018	Monthly Characterization Sample	LP2A180711M	
LS-PS2A	8/20/2018	Monthly Characterization Sample	LP2A180820M	
LS-PS2A	9/12/2018	Monthly Characterization Sample	LP2A180912M	
LS-PS2A	9/12/2018	QA/QC Sample	LP2A180912D	Field Duplicate
LS-PS4	7/11/2018	Special Investigation	LP4-180711I	
LS-PS4	8/20/2018	Special Investigation	LP4-180820I	
LS-PS4	9/12/2018	Special Investigation	LP4-180912I	

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018

Cedar Hills Landfill ---Leachate Field Parameters

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field) (std. Units)	Conductance (Field) (umho/cm)	Temperature (o C)
LS-API	7/10/2018	LAPI180710M	8.29	19000	28.3
LS-API	8/22/2018	LAPI180822M	8.23	11500	25.9
LS-API	9/11/2018	LAPI180912M	8.45	21000	24
LS-CSW	7/11/2018	LCSW180711I	7.54	5300	14
LS-CSW	9/12/2018	LCSW180912I	8.42	5700	15.7
LS-LEPS	7/10/2018	LEPS180710D	8.83	2400	18.6
LS-LEPS	7/10/2018	LEPS180710P	8.83	2400	18.6
LS-LEPS	7/10/2018	LEPS180710M	8.83	2400	18.6
LS-LEPS	7/11/2018	LEPS180710M	8.83	2400	18.6
LS-LEPS	8/20/2018	LEPS180820M	8.73	10800	19.2
LS-LEPS	8/20/2018	LEPS180820P	8.73	10800	19.2
LS-LEPS	9/11/2018	LEPS180911M	8.84	11000	16.9
LS-LEPS	9/11/2018	LEPS180911P	8.84	11000	16.9
LS-MH46N	7/11/2018	L46N180711M	7.39	8900	27.6
LS-MH46N	8/20/2018	L46N180820M	7.57	8100	17.5
LS-MH46N	9/12/2018	L46N180912M	7.43	9850	25.8
LS-MH5	8/23/2018	LMH5180823I	8.03	11600	29.1
LS-PS1A	7/11/2018	LP1A180711I	8.11	8100	21.2
LS-PS1A	7/11/2018	LPS4180711I	8.08	3250	18.3
LS-PS1A	8/20/2018	LP1A180820I	8.25	8700	20.1
LS-PS1A	9/12/2018	LP1A180912I	8.17	10400	20.6
LS-PS2	9/12/2018	LP2A180912D	7.44	1050	15
LS-PS2	9/12/2018	LP2A180912M	7.44	1050	15
LS-PS2A	7/11/2018	LP2A180711M	7.62	1450	14.9
LS-PS2A	8/20/2018	LP2A180820M	8.04	4500	18.1
LS-PS4	8/20/2018	LP4-180820I	8.21	2900	21.1
LS-PS4	9/12/2018	LP4-180912I	7.99	3500	20.5
FIELD BLANK	7/12/2018	W66-180712F	6.31	3.3	17.5

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate Conventonals Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO3) (mg/L)	Ammonia, (NH3 as N) (mg/L)	Biological Oxygen Demand (mg/L)	Chemical Oxygen Demand (mg/L)	Chloride (mg/L)	Coliforms, Fecal (CFU/100mL)	Coliforms, Total (CFU/100mL)	Cyanide (mg/L)	Fluoride (mg/L)	Nitrate+Nitrite (NO3+NO2 as N) (mg/L)
LS-API	7/10/2018	LAPI180710M	10800	2260	9450	15600 S	2500	12000 H	170000 H	0.02 ST	10 U	0.2 U
LS-API	8/22/2018	LAPI180822M	12000	2200	3550	8320 S	2550	2300 H	50000 H	0.018 ST	20 U	0.2 U
LS-API	9/11/2018	LAPI180912M	9670	2000 H	2740	7520 S	2380	48000 H	1000000 H	0.026 ST	2 U	0.5 HU
LS-LEPS	7/10/2018	LEPS180710M	6520	1290	134	2880 S	1990	27000 H	90000 H	0.018 ST	1 U	0.25 U
LS-LEPS	8/20/2018	LEPS180820M	6750	1050	92.2	2720 S	2060	2300 H	38000 H	0.016 ST	1 U	0.2 U
LS-LEPS	9/11/2018	LEPS180911M	6750	1210 H	158	2830 S	2200	3000 H	69000 H	0.016 ST	1 U	0.5 HU
LS-MH46N	7/11/2018	L46N180711M	3570	773	97.9	2130 S	2130	1 U	1 U	0.016 ST	10 U	0.1 U
LS-MH46N	8/20/2018	L46N180820M	3880	685	94.8	2260	2230	1 U	80	0.017 ST	4 U	0.2 U
LS-MH46N	9/11/2018	L46N180912M	3850	738	90.8	2280 S	2270	29	4000	0.015 ST	4 U	0.2 U
LS-PS2	9/12/2018	LP2A180912M	141	33.7	27.7	124	101	10	22000	0.008 U	0.1	19.3
LS-PS2A	7/11/2018	LP2A180711M	1	69.5	17.1	121	106	1 U	300	0.008 U	0.082 T	5.1
LS-PS2A	8/20/2018	LP2A180820M	1130	391	20.7	588	478	6	300000	0.011 ST	0.26 T	75.6

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate Conventonals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Phosphorus, Sol. Reactive (mg/L)	Specific Conductance (umho/cm)	Sulfate (SO4) (mg/L)	Sulfide Total (mg/L)	Total Fats, Oils and Grease (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Total Organic Carbon (mg/L)	Total Suspended Solids (mg/L)	Total Volatile Solids (mg/L)	Total Volatile Suspended Solids (mg/L)
LS-API	7/10/2018	LAPI180710M	3.15	25000	103	1.6	8.5 B	2490 S	5500 S	620	8520	266
LS-API	8/22/2018	LAPI180822M	6.04	25200	34.1	15.1	9.8 B	2230 S	2960 S	160	6300	101
LS-API	9/11/2018	LAPI180912M	6.91 H	21900	28.2	0.37 T	3 BT	2020 S	2390 S	39.9	5010	31
LS-LEPS	7/10/2018	LEPS180710M	2.07	15700	77.9	0.19 T	3.9 BT	1410 S	611 S	588	2560	520
LS-LEPS	8/20/2018	LEPS180820M	2.41	16000	67	0.26 T	7.5 B	1300 S	678 S	798	2860	507
LS-LEPS	9/11/2018	LEPS180911M	2.32 H	16200	71.5	0.19 T	5.9 B	1230 S	620 S	977	2770	822
LS-MH46N	7/11/2018	L46N180711M	2.69	12600	103	0.646	8 B	758 S	728 S	0.53 U	2020	0.53 U
LS-MH46N	8/20/2018	L46N180820M	2.53	13100	2.1 T	1.36	8.8 B	817	643	0.51 U	2000	0.51 U
LS-MH46N	9/11/2018	L46N180912M	2.94	13100	1 U	0.943	7.1 B	830 S	1130 S	0.89 T	1890	0.66 T
LS-PS2	9/12/2018	LP2A180912M	0.12	941	43.4	0.1 U	2.6 BT	31.8	49 T	4.25	204	3.45
LS-PS2A	7/11/2018	LP2A180711M	0.0209	1370	368	0.03 T	3.2 BT	73.1	33	24.4	226	17.1
LS-PS2A	8/20/2018	LP2A180820M	0.49	5570	515	0.099 T	5.6 BG	419	164	3.88	727	3.38

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Aluminum, total (mg/L)	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Calcium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Copper, total (mg/L)
LS-API	7/10/2018	LAPI180710M	0.834	0.026	0.216	0.232	0.001 U	0.00115	552	0.193	0.0654	0.0186
LS-API	8/22/2018	LAPI180822M	0.0735	0.00224	0.103	0.647	0.0005 U	0.00025 U	99.7	0.134	0.0398	0.001 U
LS-API	9/11/2018	LAPI180912M	1.35	0.0262	0.402	0.337	0.001 U	0.0005 U	64.5	0.297	0.0627	0.00829 D
LS-CSW	7/11/2018	LCSW180711I	10.8	0.0061	0.0483	0.232	0.001 U	0.0005 U	118 D	0.0833	0.0397	0.0484
LS-CSW	9/12/2018	LCSW180912I	3.34	0.0117	0.136	0.171	0.001 U	0.000628	98.1	0.108	0.0442	0.0237 D
LS-LEPS	7/10/2018	LEPS180710P	1.3	0.0246	0.303	0.156	0.001 U	0.0005 U	75.6 D	0.231	0.051	0.00986
LS-LEPS	8/20/2018	LEPS180820P	1.98	0.0248	0.344	0.269 J	0.0005 U	0.000367	77	0.252	0.0543	0.0134
LS-LEPS	9/11/2018	LEPS180911P	1.81	0.0323	0.36	0.276	0.001 U	0.0005 U	78.6	0.263	0.0574	0.0157
LS-MH46N	7/11/2018	L46N180711M	0.0478	0.003 U	0.0998	0.548	0.001 U	0.0005 U	96	0.123	0.0383	0.002 U
LS-MH46N	8/20/2018	L46N180820M	0.172	0.0573	0.322	0.266	0.0005 U	0.00025 U	47.7	0.0756	0.0345	0.0116
LS-MH46N	9/11/2018	L46N180912M	0.05 U	0.003 U	0.106	0.48	0.001 U	0.0005 U	100	0.14	0.0426	0.002 DU
LS-MH5	8/23/2018	LMH5180823I	7.83	0.0215	0.395	0.756	0.001 U	0.0005 U	140	0.357	0.0932	0.0208
LS-PS1A	7/11/2018	LP1A180711I	0.103	0.0421	0.242	0.305	0.001 U	0.0005 U	74.7 D	0.0632	0.0284	0.002 U
LS-PS1A	8/20/2018	LP1A180820I	1.22	0.0172	0.0787	0.107	0.0005 U	0.000338	45.7	0.0357	0.00908	0.0199
LS-PS1A	9/12/2018	LP1A180912I	0.172	0.0693	0.349	0.349	0.001 U	0.0005 U	67.4	0.0774	0.0396	0.00951 D
LS-PS2	9/12/2018	LP2A180912M	0.0716	0.00403	0.00716	0.0124	0.001 U	0.0005 U	15	0.00474	0.00609	0.0306 D
LS-PS2A	7/11/2018	LP2A180711M	0.261	0.00691	0.0199	0.0288	0.001 U	0.0005 U	19.1	0.00383	0.00356	0.0211
LS-PS2A	8/20/2018	LP2A180820M	0.109	0.0645	0.0813	0.0546	0.0005 U	0.000435	27.1	0.0138	0.0226	0.0424
LS-PS4	7/11/2018	LP4-180711I	2.22	0.0203	0.201	0.117	0.001 U	0.000556	57.5 D	0.133	0.0179	0.0173
LS-PS4	8/20/2018	LP4-180820I	1.3	0.018	0.0919	0.108	0.001 U	0.0005 U	51.2	0.0395	0.0108	0.0232
LS-PS4	9/12/2018	LP4-180912I	4.79	0.0408	0.191	0.118	0.001 U	0.0005 U	53.8	0.0416	0.0125	0.0246 D
FIELD BLANK	7/12/2018	W66-180712F		0.0003 U	5E-05 U	0.0005 U	0.0001 U	5E-05 U	0.05 U	0.0002 U	5E-05 U	0.0002 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Iron, total (mg/L)	Lead, total (mg/L)	Magnesium, total (mg/L)	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, total (mg/L)	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)
LS-API	7/10/2018	LAPI180710M	41.3	0.0118	251	2.87 D	0.000121	0.389	1040 D	0.00852	0.0004 U	2390
LS-API	8/22/2018	LAPI180822M	2.75	0.0005 U	60.5	0.496	0.000138	0.163	444	0.0025 U	0.0002 U	1540
LS-API	9/11/2018	LAPI180912M	5.76	0.00382	103	0.651	0.0001 U	0.264	831	0.005 U	0.0004 U	2320 D
LS-CSW	7/11/2018	LCSW180711I	24.5	0.0146	71.3	0.879	0.000127	0.224	276	0.005 DGU	0.0004 U	972
LS-CSW	9/12/2018	LCSW180912I	19.8	0.00471	50.3	1.36	0.000101	0.14	253	0.005 U	0.0004 U	714
LS-LEPS	7/10/2018	LEPS180710P	8.1	0.00441	91.3	1.08	0.0001 U	0.226	645	0.005 DU	0.0004 U	1780
LS-LEPS	8/20/2018	LEPS180820P	8.39	0.00578	101	2.16	0.000176	0.223	711	0.00327	0.0002 U	1980
LS-LEPS	9/11/2018	LEPS180911P	8.72	0.00518	98.5	1.5	0.0001 U	0.229	698	0.005 U	0.0004 U	1970
LS-MH46N	7/11/2018	L46N180711M	2.57	0.001 U	58	0.498	0.0001 U	0.16	417	0.005 U	0.0004 U	1470
LS-MH46N	8/20/2018	L46N180820M	3.85	0.000666	61.7	0.274	0.0001 U	0.121	359	0.0025 U	0.0002 U	1270
LS-MH46N	9/11/2018	L46N180912M	2.61	0.001 U	58.3	0.481	0.0001 U	0.185	449	0.005 U	0.0004 U	1580
LS-MH5	8/23/2018	LMH5180823I	33.2	0.00982	166	1.54	0.0001 U	0.373	832 D	0.00697	0.0004 U	2710 D
LS-PS1A	7/11/2018	LP1A180711I	1.17	0.001 U	50.2	0.489	0.0001 U	0.108	291	0.005 DU	0.0004 U	1020
LS-PS1A	8/20/2018	LP1A180820I	3.6	0.00362	24.9	0.987	0.0001 U	0.0333	94.4	0.0025 U	0.0002 U	283
LS-PS1A	9/12/2018	LP1A180912I	1.97	0.001 U	66.2	0.409	0.000145	0.122	411	0.005 U	0.0004 U	1500
LS-PS2	9/12/2018	LP2A180912M	0.687	0.001 U	7.23	0.396	0.0001 U	0.029	36.1	0.005 U	0.0004 U	106
LS-PS2A	7/11/2018	LP2A180711M	7.4	0.001 U	9.65	0.21	0.0001 U	0.0129	30.6	0.005 U	0.0004 U	91.7
LS-PS2A	8/20/2018	LP2A180820M	2.65	0.0005 U	14.6	1.22	0.00013	0.103	152	0.0025 U	0.0002 U	489
LS-PS4	7/11/2018	LP4-180711I	7.74	0.00216	32.4	33.5	0.0001 U	0.0537	108	0.005 DU	0.0004 U	317
LS-PS4	8/20/2018	LP4-180820I	4.33	0.00393	26.1	1.11	0.0001 U	0.04	104	0.005 U	0.0004 U	312
LS-PS4	9/12/2018	LP4-180912I	7.97	0.00432	33.1	1.22	0.0001 U	0.0494	103	0.005 U	0.0004 U	297
FIELD BLANK	7/12/2018	W66-180712F	0.01 U	0.0001 U	0.05 U	0.0001 U	5E-05 U	0.0001 U	0.1 U	0.0005 U	4E-05 U	0.1 U

Environmental Monitoring Data

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 Cedar Hills Landfill ---Leachate Metals Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Thallium, total (mg/L)	Tin, total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
LS-API	7/10/2018	LAP1180710M	0.001 U	0.022	0.0541	3.02
LS-API	8/22/2018	LAP1180822M	0.0005 U	0.00472	0.192	0.00551
LS-API	9/11/2018	LAP1180912M	0.001 U	0.0344	0.0939	0.325
LS-CSW	7/11/2018	LCSW180711I	0.001 U	0.00583	0.0712 D	0.839
LS-CSW	9/12/2018	LCSW180912I	0.001 U	0.00822	0.0592	0.352
LS-LEPS	7/10/2018	LEPS180710P	0.001 U	0.0334	0.0751 D	0.371
LS-LEPS	8/20/2018	LEPS180820P	0.0005 U	0.0219 G	0.08	0.411
LS-LEPS	9/11/2018	LEPS180911P	0.001 U	0.0296 G	0.0868	0.4
LS-MH46N	7/11/2018	L46N180711M	0.001 U	0.005 U	0.186	0.005 U
LS-MH46N	8/20/2018	L46N180820M	0.0005 U	0.00601	0.0985	0.0256
LS-MH46N	9/11/2018	L46N180912M	0.001 U	0.005 U	0.207	0.005 U
LS-MH5	8/23/2018	LMH5180823I	0.001 U	0.0612	0.195	0.433
LS-PS1A	7/11/2018	LP1A180711I	0.001 U	0.00559	0.078 D	0.0121
LS-PS1A	8/20/2018	LP1A180820I	0.0005 U	0.00935	0.0157	0.0703
LS-PS1A	9/12/2018	LP1A180912I	0.001 U	0.0085	0.0886	0.0213
LS-PS2	9/12/2018	LP2A180912M	0.001 U	0.00571	0.0026	0.0553
LS-PS2A	7/11/2018	LP2A180711M	0.001 U	0.005 U	0.00601	0.137
LS-PS2A	8/20/2018	LP2A180820M	0.0005 U	0.0115	0.00472	0.196
LS-PS4	7/11/2018	LP4-180711I	0.001 U	0.01	0.0257 D	0.0898
LS-PS4	8/20/2018	LP4-180820I	0.001 U	0.00996	0.0179	0.083
LS-PS4	9/12/2018	LP4-180912I	0.001 U	0.0107	0.0228	0.105
FIELD BLANK	7/12/2018	W66-180712F	0.0001 U		7.5E-05 U	0.0005 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloro-ethane 630-20-6 (ug/L)	1,1,1-Trichloro-ethane 71-55-6 (ug/L)	1,1,2,2-Tetrachloro-ethane 79-34-5 (ug/L)	1,1,2-Trichloro-ethane 79-00-5 (ug/L)	1,1-Dichloro-ethane 75-34-3 (ug/L)	1,1-Dichloro-ethene 75-35-4 (ug/L)	1,1-Dichloro-propene 563-58-6 (ug/L)	1,2,3-Trichloro-propane 96-18-4 (ug/L)	1,2-Dibromo-3-Chloropropane 96-12-8 (ug/L)
LS-API	7/10/2018	LAPI180710M	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U
LS-API	8/22/2018	LAPI180822M	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	250 U
LS-API	9/11/2018	LAPI180912M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-LEPS	7/10/2018	LEPS180710M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-LEPS	8/20/2018	LEPS180820M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-LEPS	9/11/2018	LEPS180911M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-MH46N	7/11/2018	L46N180711M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-MH46N	8/20/2018	L46N180820M	2.5 SU	1 SU	1 SU	1 SU	1 SU	1 SU	1 SU	1 SU	25 SU
LS-MH46N	9/11/2018	L46N180912M	2.5 SU	1 SU	1 SU	1 SU	1 SU	1 SU	1 SU	1 SU	25 SU
LS-PS2	9/12/2018	LP2A180912M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-PS2A	7/11/2018	LP2A180711M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
LS-PS2A	8/20/2018	LP2A180820M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	25 U
FIELD BLANK	7/12/2018	W66-180712F	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	7/9/2018	VTRP180711X	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	7/9/2018	VTRP180711Y	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	8/17/2018	VTRP180820X	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	8/17/2018	VTRP180821X2	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	8/23/2018	VTRP180823Y	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

Environmental Monitoring Data

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 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-Dibromo-ethane	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3-Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene	2,2-Dichloro-propane	2-Butanone
			106-93-4 (ug/L)	95-50-1 (ug/L)	107-06-2 (ug/L)	78-87-5 (ug/L)	541-73-1 (ug/L)	142-28-9 (ug/L)	106-46-7 (ug/L)	594-20-7 (ug/L)	78-93-3 (ug/L)
LS-API	7/10/2018	LAPI180710M	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	27200 D
LS-API	8/22/2018	LAPI180822M	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	26300 D
LS-API	9/11/2018	LAPI180912M	1 U	1 U	2.02	1 U	1 U	1 U	1.91 JT	1 U	4530 D
LS-LEPS	7/10/2018	LEPS180710M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LEPS	8/20/2018	LEPS180820M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LEPS	9/11/2018	LEPS180911M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-MH46N	7/11/2018	L46N180711M	1 U	1.97 JT	1 U	1 U	1 U	1 U	7.92	1 U	2.5 U
LS-MH46N	8/20/2018	L46N180820M	1 SU	1.68 JST	1 SU	1 SU	1 SU	1 SU	7.04 S	1 SU	2.5 SU
LS-MH46N	9/11/2018	L46N180912M	1 SU	1.92 JST	1 SU	1 SU	1 SU	1 SU	8.07 S	1 SU	2.5 SU
LS-PS2	9/12/2018	LP2A180912M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-PS2A	7/11/2018	LP2A180711M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-PS2A	8/20/2018	LP2A180820M	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	2.5 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.1 U	0.1 U	0.1 U			0.1 U		38.7
VOA TRIP BLANK	7/9/2018	VTRP180711X	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	7/9/2018	VTRP180711Y	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	8/17/2018	VTRP180820X	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	8/17/2018	VTRP180821X2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	8/23/2018	VTRP180823Y	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	2-Hexanone 591-78-6 (ug/L)	2-Methyl-1- propanol 78-83-1 (ug/L)	3-Chloro-propene 107-05-1 (ug/L)	4-Methyl-2- Pentanone 108-10-1 (ug/L)	Acetone 67-64-1 (ug/L)	Acetonitrile 75-05-8 (ug/L)	Acrolein 107-02-8 (ug/L)	Acrylonitrile 107-13-1 (ug/L)	Benzene 71-43-2 (ug/L)
LS-API	7/10/2018	LAPI180710M	50 U	500 U	10 U	250 U	24300 D	500 U	250 U	3.5 U	10 U
LS-API	8/22/2018	LAPI180822M	50 U	500 U	10 U	250 U	27000 D	500 U	250 U	3.5 U	10 U
LS-API	9/11/2018	LAPI180912M	11.6	50 U	1 U	57.2	6010 D	50 U	25 U	0.35 U	1 U
LS-LEPS	7/10/2018	LEPS180710M	5 U	50 U	1 U	25 U	32.7 JT	50 U	25 U	0.35 U	1 U
LS-LEPS	8/20/2018	LEPS180820M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-LEPS	9/11/2018	LEPS180911M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-MH46N	7/11/2018	L46N180711M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	3.46
LS-MH46N	8/20/2018	L46N180820M	5 SU	50 SU	1 SU	25 SU	25 SU	50 SU	25 SU	0.35 SU	2.88 S
LS-MH46N	9/11/2018	L46N180912M	5 SU	50 SU	1 SU	25 SU	25 SU	50 SU	25 SU	0.35 SU	3.22 S
LS-PS2	9/12/2018	LP2A180912M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-PS2A	7/11/2018	LP2A180711M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
LS-PS2A	8/20/2018	LP2A180820M	5 U	50 U	1 U	25 U	25 U	50 U	25 U	0.35 U	1 U
FIELD BLANK	7/12/2018	W66-180712F	0.5 U			2.5 U	8.07			0.035 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711X	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711Y	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180820X	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180821X2	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U
VOA TRIP BLANK	8/23/2018	VTRP180823Y	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U	2.5 U	0.035 U	0.1 U

Environmental Monitoring Data

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 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Bromochloro- methane 74-97-5 (ug/L)	Bromodichloro- methane 75-27-4 (ug/L)	Bromoform 75-25-2 (ug/L)	Bromo-methane 74-83-9 (ug/L)	Carbon Disulfide 75-15-0 (ug/L)	Carbon Tetrachloride 56-23-5 (ug/L)	Chloro-benzene 108-90-7 (ug/L)	Chloro-dibromo- methane 124-48-1 (ug/L)	Chloroethane 75-00-3 (ug/L)
LS-API	7/10/2018	LAPI180710M	10 U	25 U	50 U	10 U	10 U	25 U	10 U	50 U	10 U
LS-API	8/22/2018	LAPI180822M	10 U	25 U	50 U	10 U	10 U	25 U	10 U	50 U	10 U
LS-API	9/11/2018	LAPI180912M	1 U	2.5 U	5 U	1 U	1.28 JT	2.5 U	1 U	5 U	1 U
LS-LEPS	7/10/2018	LEPS180710M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	8/20/2018	LEPS180820M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-LEPS	9/11/2018	LEPS180911M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-MH46N	7/11/2018	L46N180711M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1.92 JT	5 U	1 U
LS-MH46N	8/20/2018	L46N180820M	1 SU	2.5 SU	5 SU	1 SU	1 SU	2.5 SU	1.6 JST	5 SU	1 SU
LS-MH46N	9/11/2018	L46N180912M	1 SU	2.5 SU	5 SU	1 SU	1 SU	2.5 SU	1.84 JST	5 SU	1 SU
LS-PS2	9/12/2018	LP2A180912M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-PS2A	7/11/2018	LP2A180711M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
LS-PS2A	8/20/2018	LP2A180820M	1 U	2.5 U	5 U	1 U	1 U	2.5 U	1 U	5 U	1 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711X	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711Y	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180820X	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180821X2	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U
VOA TRIP BLANK	8/23/2018	VTRP180823Y	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U

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 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Chloroform 67-66-3 (ug/L)	Chloro-methane 74-87-3 (ug/L)	Chloroprene 126-99-8 (ug/L)	cis-1,2-Dichloro-ethene 156-59-2 (ug/L)	cis-1,3-Dichloro-propene 10061-01-5 (ug/L)	Dibromo-methane 74-95-3 (ug/L)	Dichloro-difluoro-methane 75-71-8 (ug/L)	Ethylbenzene 100-41-4 (ug/L)	m & p Xylenes mpx (ug/L)
LS-API	7/10/2018	LAPI180710M	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U	11.8 JT
LS-API	8/22/2018	LAPI180822M	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U
LS-API	9/11/2018	LAPI180912M	1 U	2.5 U	1 U	1.15 JT	2.5 U	1 U	1 U	1.88 JT	4.44
LS-LEPS	7/10/2018	LEPS180710M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	8/20/2018	LEPS180820M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-LEPS	9/11/2018	LEPS180911M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-MH46N	7/11/2018	L46N180711M	1 U	2.5 U	1 U	1.96 JT	2.5 U	1 U	1 U	34.3	44.8
LS-MH46N	8/20/2018	L46N180820M	1 SU	2.5 SU	1 SU	1.08 JST	2.5 SU	1 SU	1 SU	26.3 S	30.4 S
LS-MH46N	9/11/2018	L46N180912M	1 SU	2.5 SU	1 SU	1.52 JST	2.5 SU	1 SU	1 SU	32.5 S	40.3 S
LS-PS2	9/12/2018	LP2A180912M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-PS2A	7/11/2018	LP2A180711M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
LS-PS2A	8/20/2018	LP2A180820M	1 U	2.5 U	1 U	1 U	2.5 U	1 U	1 U	1 U	1 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.25 U		0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711X	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711Y	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180820X	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180821X2	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	8/23/2018	VTRP180823Y	0.1 U	0.25 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

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 Cedar Hills Landfill ---Leachate VOAs Analytical Data
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Methyl Iodide 74-88-4 (ug/L)	Methyl Methacrylate 80-62-6 (ug/L)	Methylacrylonitrile 126-98-7 (ug/L)	Methylene Chloride 75-09-2 (ug/L)	o-Xylene 95-47-6 (ug/L)	Propionitrile 107-12-0 (ug/L)	Styrene 100-42-5 (ug/L)	Tetrachloroethene 127-18-4 (ug/L)	Toluene 108-88-3 (ug/L)
LS-API	7/10/2018	LAPI180710M	10 U	25 U	10 U	250 U	10 U	50 U	10 U	10 U	33.9
LS-API	8/22/2018	LAPI180822M	10 U	25 U	10 U	250 U	10 U	50 U	10 U	10 U	30.7
LS-API	9/11/2018	LAPI180912M	1 U	2.5 U	1 U	25 U	2.77	5 U	1 U	1 U	6.98
LS-LEPS	7/10/2018	LEPS180710M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-LEPS	8/20/2018	LEPS180820M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-LEPS	9/11/2018	LEPS180911M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-MH46N	7/11/2018	L46N180711M	1 U	2.5 U	1 U	25 U	3.47	5 U	1 U	1 U	4.73
LS-MH46N	8/20/2018	L46N180820M	1 SU	2.5 SU	1 SU	25 SU	3.2 S	5 SU	1 SU	1 SU	3.8 S
LS-MH46N	9/11/2018	L46N180912M	1 SU	2.5 SU	1 SU	25 SU	4.12 S	5 SU	1 SU	1 SU	4.65 S
LS-PS2	9/12/2018	LP2A180912M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-PS2A	7/11/2018	LP2A180711M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
LS-PS2A	8/20/2018	LP2A180820M	1 U	2.5 U	1 U	25 U	1 U	5 U	1 U	1 U	1 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U			2.5 U	0.1 U		0.101 JT	0.1 U	0.257
VOA TRIP BLANK	7/9/2018	VTRP180711X	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	7/9/2018	VTRP180711Y	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180820X	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	8/17/2018	VTRP180821X2	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	8/23/2018	VTRP180823Y	0.1 U	0.25 U	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U

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Site	Date	Sample ID	trans-1,2-	trans-1,3-	trans-1,4-	Trichloro-ethene	Trichloro-fluoro-	Vinyl Acetate	Vinyl Chloride
			Dichloro-ethene	Dichloro-propene	Dichloro-2-butene		methane		
			156-60-5 (ug/L)	10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
LS-API	7/10/2018	LAPI180710M	10 U	50 U	50 U	10 U	10 U	10 U	1 U
LS-API	8/22/2018	LAPI180822M	10 U	50 U	50 U	10 U	10 U	10 U	1 U
LS-API	9/11/2018	LAPI180912M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	7/10/2018	LEPS180710M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	8/20/2018	LEPS180820M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	9/11/2018	LEPS180911M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-MH46N	7/11/2018	L46N180711M	1 U	5 U	5 U	1 U	1 U	1 U	3.91
LS-MH46N	8/20/2018	L46N180820M	1 SU	5 SU	5 SU	1 SU	1 SU	1 SU	1.96 S
LS-MH46N	9/11/2018	L46N180912M	1 SU	5 SU	5 SU	1 SU	1 SU	1 SU	3 S
LS-PS2	9/12/2018	LP2A180912M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	7/11/2018	LP2A180711M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	8/20/2018	LP2A180820M	1 U	5 U	5 U	1 U	1 U	1 U	0.1 U
FIELD BLANK	7/12/2018	W66-180712F	0.1 U	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/9/2018	VTRP180711X	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	7/9/2018	VTRP180711Y	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	8/17/2018	VTRP180820X	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	8/17/2018	VTRP180821X2	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	8/23/2018	VTRP180823Y	0.1 U	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U

Environmental Monitoring Data

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 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	2,4,5-T	2,4,5-TP SILVEX	2,4-D	4,4'DDD	4,4'DDE	4,4'DDT	ALDRIN	ALPHA BHC	ALPHA CHLORDANE	AROCLOR 1016
			93-76-5	93-72-1	94-75-7	72-54-8	72-55-9	50-29-3	309-00-2	BHC 319-84-6	Chlordane 5103-71-9	1016 12674-11-2
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-API	7/10/2018	LAPI180710M	0.5 U	0.957	1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LS-API	8/22/2018	LAPI180822M	0.5 U	0.753	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.05 U
LS-API	9/11/2018	LAPI180912M	0.5 U	2 U	1 U	0.1 U	0.1 GU	0.1 GU	0.1 U	0.1 U	0.1 GU	0.025 U
LS-LEPS	7/10/2018	LEPS180710M	0.5 U	2.13	1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LS-LEPS	8/20/2018	LEPS180820M	0.5 U	0.817	1 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
LS-LEPS	9/11/2018	LEPS180911M	0.5 U	1.44	1 U	0.1 U	0.1 GU	0.1 GU	0.1 U	0.1 U	0.1 GU	0.025 U
LS-MH46N	7/11/2018	L46N180711M	0.5 U	1.31	4.36	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0237 J	0.05 U
LS-MH46N	8/20/2018	L46N180820M	0.5 U	1.36	2.68	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0244 J	0.05 U
LS-MH46N	9/11/2018	L46N180912M	0.5 U	1.03	3.62	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.025 U
LS-PS2	9/12/2018	LP2A180912M	0.5 U	0.5 U	1 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.025 U
LS-PS2A	7/11/2018	LP2A180711M	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
LS-PS2A	8/20/2018	LP2A180820M	0.5 U	0.975	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U

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Site	Date	Sample ID	AROCLOR	AROCLOR	AROCLOR	AROCLOR	AROCLOR	AROCLOR	BETA BHC	DELTA BHC	DIELDRIN	DINOSEB
			1221	1232	1242	1248	1254	1260				
			1221	1232	1242	1248	1254	1260	BHC	BHC		
			11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	319-85-7	319-86-8	60-57-1	88-85-7
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-API	7/10/2018	LAPI180710M	0.15 U	0.05 U	0.214	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	4 U
LS-API	8/22/2018	LAPI180822M	0.3 U	0.05 U	0.303	0.05 U	0.1 U	0.05 U	0.2 U	0.2 U	0.2 U	4 U
LS-API	9/11/2018	LAPI180912M	0.025 U	0.025 U	0.428	0.025 U	0.104	0.025 U	0.1 U	0.1 U	0.1 U	1.2 U
LS-LEPS	7/10/2018	LEPS180710M	0.05 U	0.05 U	0.112	0.05 U	0.0686	0.05 U	0.075 U	0.05 U	0.05 U	4 U
LS-LEPS	8/20/2018	LEPS180820M	0.05 U	0.05 U	0.141	0.05 U	0.0608	0.05 U	0.05 U	0.05 U	0.05 U	2 U
LS-LEPS	9/11/2018	LEPS180911M	0.025 U	0.025 U	0.153	0.025 U	0.0605	0.025 U	0.1 U	0.1 U	0.1 U	3 U
LS-MH46N	7/11/2018	L46N180711M	0.0784	0.05 U	0.235	0.05 U	0.05 U	0.05 U	0.0562 J	0.02 U	0.0226 J	0.5 U
LS-MH46N	8/20/2018	L46N180820M	0.05 U	0.05 U	0.25	0.05 U	0.05 U	0.05 U	0.0562 J	0.02 U	0.02 U	0.5 U
LS-MH46N	9/11/2018	L46N180912M	0.025 U	0.025 U	0.202	0.025 U	0.025 U	0.025 U	0.04 U	0.04 U	0.04 U	0.5 U
LS-PS2	9/12/2018	LP2A180912M	0.025 U	0.025 U	0.279	0.025 U	0.114	0.0523	0.04 U	0.04 U	0.04 U	0.5 U
LS-PS2A	7/11/2018	LP2A180711M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U
LS-PS2A	8/20/2018	LP2A180820M	0.025 U	0.025 U	0.175	0.025 U	0.092	0.0486	0.03 U	0.01 U	0.01 U	0.5 U

Environmental Monitoring Data

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 Contact Person: Sindy Jimenez (206) 477-5224

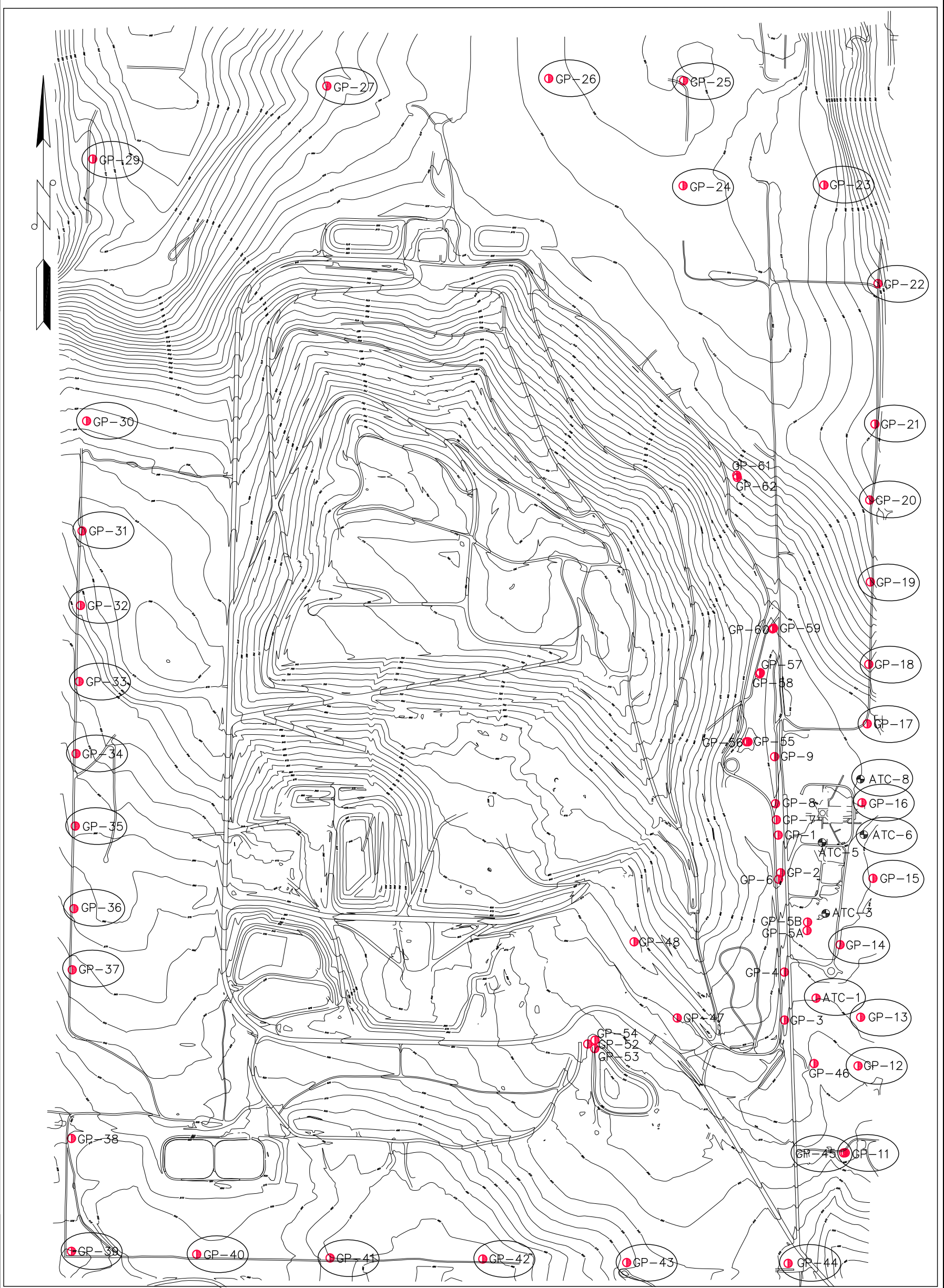
Site	Date	Sample ID	ENDOSULFAN I	ENDOSULFAN II	ENDOSULFAN SULFATE	ENDRIN	ENDRIN ALDEHYDE	HEPTACHLOR	HEPTACHLOR EPOXIDE	ISODRIN	LINDANE(GA MMA BHC)	METHOXYCH LOR
			sulfan I	sulfan II	Sulfate		Aldehyde		Epoxide			chlor
			959-98-8	33213-65-9	1031-07-8	72-20-8	7421-93-4	76-44-8	1024-57-3	465-73-6	58-89-9	72-43-5
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-API	7/10/2018	LAPI180710M	0.05 U	0.05 GU	0.05 GU	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U
LS-API	8/22/2018	LAPI180822M	0.2 U	0.2 U	0.2 U	0.2 U	0.2 GU	0.2 U	0.2 U	0.2 U	0.2 U	1 U
LS-API	9/11/2018	LAPI180912M	0.1 U	0.1 U	0.1 U	0.1 U	0.1 GU	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
LS-LEPS	7/10/2018	LEPS180710M	0.05 U	0.05 U	0.05 U	0.05 U	0.05 GU	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U
LS-LEPS	8/20/2018	LEPS180820M	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.25 U
LS-LEPS	9/11/2018	LEPS180911M	0.1 U	0.1 U	0.1 U	0.1 U	0.1 GU	0.1 U	0.1 U	0.1 U	0.1 U	0.5 U
LS-MH46N	7/11/2018	L46N180711M	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.08 U	0.1 U
LS-MH46N	8/20/2018	L46N180820M	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.0343 J	0.1 U
LS-MH46N	9/11/2018	L46N180912M	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.078 J	0.2 U
LS-PS2	9/12/2018	LP2A180912M	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.04 U	0.2 U
LS-PS2A	7/11/2018	LP2A180711M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U
LS-PS2A	8/20/2018	LP2A180820M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U

Environmental Monitoring Data

Data Collected from July 1, 2018 to September 30, 2018
 Cedar Hills Landfill ---Leachate PCB Analytical Data
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Total Aroclors	TOXAPHENE	trans-Chlordane
			T_AROCLOR	8001-35-2	5103-74-2
			ug/l	ug/l	ug/l
LS-API	7/10/2018	LAPI180710M	0.214	5 U	0.05 U
LS-API	8/22/2018	LAPI180822M	0.303	20 U	0.2 U
LS-API	9/11/2018	LAPI180912M	0.532	10 U	0.1 GU
LS-LEPS	7/10/2018	LEPS180710M	0.1806	5 U	0.05 U
LS-LEPS	8/20/2018	LEPS180820M	0.2018	5 U	0.05 U
LS-LEPS	9/11/2018	LEPS180911M	0.2135	10 U	0.1 GU
LS-MH46N	7/11/2018	L46N180711M	0.3134	2 U	0.02 U
LS-MH46N	8/20/2018	L46N180820M	0.25	2 U	0.02 U
LS-MH46N	9/11/2018	L46N180912M	0.202	4 U	0.04 U
LS-PS2	9/12/2018	LP2A180912M	0.4453	4 U	0.04 U
LS-PS2A	7/11/2018	LP2A180711M	0.025 U	1 U	0.01 U
LS-PS2A	8/20/2018	LP2A180820M	0.3156	1 U	0.01 U

Landfill Gas Monitoring Data



LEGEND

- INTERIOR LFG MONITORING PROBES
- LFG MIGRATION MONITORING PROBES

GP-61	172389.358	1701689.133	561.42	563.673	563.18	GP61 TOP LID
GP-62	172375.658	1701672.384	563.35	565.703	565.28	GP62 TOP LID
GP-59	171373.875	1701913.385	633.45	635.991	635.45	GP59 TOP LID
GP-60	171369.626	1701906.243	633.68	636.366	635.84	GP60 TOP LID
GP-57	171077.878	1701825.385	637.02	639.432	639.00	GP57 TOP LID
GP-58	171070.076	1701820.583	637.56	640.345	639.81	GP58 TOP LID
GP-56	170619.58	1701733.686	641.07	644.03	643.57	GP56 TOP LID
GP-55	170619.474	1701744.081	640.99	643.621	643.09	GP55 TOP LID

DATE	REVISION	BY

Northing	Easting	Elev	Description	Inst Date
170,000.33	1,701,942.93	640.02	GP-1 CASE EL.	1985/86
169,740.00	1,701,960.00	622.00	GP-2 CASE EL.	1985/86
168,758.11	1,701,986.28	594.21	GP-3 CASE EL.	1985/86
169,058.18	1,701,972.94	606.19	GP-4 CASE EL.	1985/86
169,370.19	1,702,134.95	616.23	GP-5A GRND EL.	1988
169,422.02	1,702,138.87	619.63	GP-5B CASE EL.	1988
169,731.73	1,701,946.48	635.59	GP-6 CASE EL.	1988
170,101.22	1,701,930.58	640.65	GP-7 CASE EL.	1988
170,208.37	1,701,925.10	642.67	GP-8 CASE EL.	1988
170,519.85	1,701,919.34	645.27	GP-9 CASE EL.	1988
167,890.09	1,702,398.27	567.15	GP-10 NOT INSTALLED	1988
168,466.64	1,702,473.27	588.08	GP-11 CASE EL.	1988
168,790.03	1,702,490.84	588.15	GP-12 CASE EL.	1988
169,271.56	1,702,354.75	613.32	GP-13 CASE EL.	1988
169,724.93	1,702,446.19	618.75	GP-14 CASE EL.	1988
170,214.28	1,702,500.56	630.19	GP-15 CASE EL.	1988
170,738.83	1,702,535.09	625.18	GP-17 CASE EL.	1988
171,132.85	1,702,543.29	600.83	GP-18 CASE EL.	1988
171,634.82	1,702,554.91	544.15	GP-19 CASE EL.	1988
172,224.83	1,702,550.70	496.61	GP-20 CASE EL.	1988
172,729.15	1,702,594.95	489.79	GP-21 CASE EL.	1988
173,662.40	1,702,607.81	374.84	GP-22 CASE EL.	1988
174,317.16	1,702,248.74	501.77	GP-23 CASE EL.	1988
174,313.44	1,701,314.74	544.72	GP-24 CASE EL.	1988
175,011.63	1,701,324.89	533.86	GP-25 CASE EL.	1988
175,043.82	1,700,394.55	541.69	GP-26 CASE EL.	1988
174,983.78	1,698,936.88	494.75	GP-27 CASE EL.	1988
174,455.39	1,697,386.67	431.05	GP-28 NOT INSTALLED	1988
172,787.40	1,697,339.61	644.62	GP-29 CASE EL.	1988
172,013.96	1,697,324.12	673.37	GP-31 CASE EL.	1988
171,524.28	1,697,308.08	647.57	GP-32 CASE EL.	1988
171,017.18	1,697,293.36	625.03	GP-33 CASE EL.	1988
170,537.12	1,697,287.04	604.93	GP-34 CASE EL.	1988
170,083.32	1,697,286.32	596.28	GP-35 CASE EL.	1988
169,510.89	1,697,282.08	557.38	GP-36 CASE EL.	1988
169,049.03	1,697,282.08	523.57	GP-37 CASE EL.	1988
167,909.72	1,697,243.54	523.57	GP-38 CASE EL.	1988
167,239.45	1,697,232.41	541.03	GP-39 CASE EL.	1988
167,205.68	1,698,100.32	502.77	GP-40 CASE EL.	1988
167,191.96	1,698,965.50	482.97	GP-41 CASE EL.	1988
167,183.37	1,699,979.80	457.95	GP-42 CASE EL.	1988
167,160.00	1,700,961.11	536.85	GP-43 CASE EL.	1988
167,135.28	1,702,007.20	529.11	GP-44 CASE EL.	1984
167,888.74	1,702,378.77	567.47	GP-45 CASE EL.	1994
168,482.15	1,702,182.52	589.79	GP-46 CASE EL.	1994
168,783.75	1,701,272.71	600.07	GP-47 CASE EL.	1994
169,289.65	1,700,985.88	616.56	GP-48 CASE EL.	1994
168,612.91	1,700,710.62	561.13	GP-52 GRND EL.	2001
168,601.99	1,700,711.34	561.02	GP-53 GRND EL.	2001
168,617.89	1,700,717.53	561.20	GP-54 GRND EL.	2001
168,616.92	1,702,196.87	591.29	GP-ATC-1 GRND EL.	1985/86
168,479.79	1,702,259.87	616.25	GP-ATC-3 GRND EL.	1985/86
169,950.42	1,702,236.30	625.65	GP-ATC-4 ABANDONED/REMOVED	1985/86
170,002.70	1,702,572.89	620.16	GP-ATC-5 GRND EL.	1985/86
170,371.26	1,702,480.56	629.94	GP-ATC-6 GRND EL.	1985/86
			GP-ATC-7 GRND EL.	1985/86
			GP-ATC-8 GRND EL.	1985/86

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

CEDAR HILLS REGIONAL LANDFILL
 LANDFILL GAS MIGRATION MONITORING PLAN

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

Compliance Probes

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
July 2018 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-1D	7/24/2018 13:31	0	0.1	18.5	0	0	
ATC-1S	7/24/2018 13:29	0	1.9	18.4	0	0	
ATC-6D	7/24/2018 14:29	0	0.2	18.7	0	0	
ATC-6S	7/24/2018 14:28	0	1	18.3	0	0	
ATC-8D	7/24/2018 14:38	0	1.3	18.1	0	0	
ATC-8S	7/24/2018 14:37	0	0	19	0	0.04	
GP-11A	7/24/2018 14:45	0	0.9	18.1	0	0.04	
GP-11B	7/24/2018 14:46	0	0	19.1	0	0.16	
GP-11C	7/24/2018 14:48	0	0	19.2	0	0.14	
GP-11D	7/24/2018 14:49	0	0	19.1	0	0.16	
GP-12A	7/24/2018 13:43	0	0.4	18.9	0	0.05	
GP-12B	7/24/2018 13:45	0	0	19.3	0	0	
GP-12C	7/24/2018 13:46	0	0.1	18.3	0	0	
GP-12D	7/24/2018 13:47	0	0	19.1	0	0	
GP-13A	7/24/2018 13:35	0	1.1	18.3	0	0	
GP-13B	7/24/2018 13:37	0	0	19.2	0	-0.02	
GP-13C	7/24/2018 13:38	0	0	19.4	0	0.02	
GP-13D	7/24/2018 13:39	0	0	19.4	0	-0.3	
GP-14A	7/24/2018 13:53	0	0	19.2	0	-0.06	
GP-14B	7/24/2018 13:54	0	0	19.4	0	-0.1	
GP-15A	7/24/2018 14:16	0	4.8	7	0	0.09	
GP-15C	7/24/2018 14:18	0	0.7	14.3	0	0.07	
GP-15D	7/24/2018 14:19	0	0	18.9	0	-1.7	
GP-16A	7/24/2018 14:32	0	2	17.8	0	0.05	
GP-16B	7/24/2018 14:33	0	0	19	0	-1.42	
GP-16C	7/24/2018 14:34	0	0	19.1	0	-0.18	
GP-17A	7/25/2018 12:24	0	3.4	13.8	0	-0.09	
GP-17B	7/25/2018 12:25	0	0.7	16.2	0	0.02	
GP-17C	7/25/2018 12:27	0	0.1	19.1	0	-0.7	
GP-18A	7/25/2018 12:30	0	2.3	16.1	0	0	
GP-18B	7/25/2018 12:31	0	0.3	12.7	0	0.03	
GP-18C	7/25/2018 12:33	0	0.1	18.4	0	-0.75	
GP-19A	7/25/2018 12:36	0	1.1	16.9	0	-0.06	
GP-19B	7/25/2018 12:37	0	0.5	14.9	0	-0.02	
GP-19C	7/25/2018 12:38	0	0	18.8	0	-0.06	
GP-20A	7/25/2018 12:41	0	0.8	18.2	0	0	
GP-20B	7/25/2018 12:42	0	0.2	16.8	0	-0.03	
GP-20C	7/25/2018 12:44	0	0.1	7.8	0	0.44	
GP-21A	7/25/2018 12:46	0	0.4	18.1	0	0	
GP-21B	7/25/2018 12:48	0	0.1	9.1	0	0	
GP-21C	7/25/2018 12:48	0	0.1	9.3	0	1.15	
GP-22A	7/25/2018 12:52	0	2.3	13.9	0	0	
GP-22C	7/25/2018 12:53	0	1.5	1	0	-0.4	
GP-23A	7/25/2018 12:58	0	0	18.7	0	-0.02	
GP-23B	7/25/2018 12:59	0	0	18.9	0	0	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
July 2018 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-23C	7/25/2018 13:00	0	0	19	0	0	
GP-24A	7/25/2018 13:04	0	5.4	12.9	0	0	
GP-24B	7/25/2018 13:05	0	0.1	18.9	0	-0.23	
GP-25	7/25/2018 13:08	0	2.6	16.8	0	0.25	
GP-26	7/25/2018 13:11	0	0.4	18.4	0	0.03	
GP-27	7/25/2018 13:14	0	7.7	11	0	0.06	
GP-29A	7/25/2018 13:19	0	1.2	17.7	0	0.03	
GP-29B	7/25/2018 13:20	0	0.3	18.8	0	0.11	
GP-30A	7/24/2018 8:07	0	1.6	18.9	0	-0.07	
GP-30B	7/24/2018 8:08	0	0.2	19.8	0	-0.76	
GP-31A	7/24/2018 8:12	0	7.8	9.8	0	-0.03	
GP-31B	7/24/2018 8:13	0	0.2	17.6	0	-0.78	
GP-31C	7/24/2018 8:14	0	1.4	17.3	0	-0.03	
GP-32A	7/24/2018 8:17	0	0.1	19.8	0	-0.03	
GP-32B	7/24/2018 8:18	0	0.2	19.7	0	0.08	
GP-32C	7/24/2018 8:20	0	0.2	19.7	0	0	
GP-33A	7/24/2018 8:27	0	2.3	17.7	0	0	
GP-33B	7/24/2018 8:28	0	0.5	18.7	0	-0.03	
GP-33C	7/24/2018 8:29	0	0.1	19.9	0	-1.01	
GP-34A	7/24/2018 8:34	0	11.4	1.3	0	-0.15	
GP-34B	7/24/2018 8:35	0	0.1	19.7	0	0	
GP-34C	7/24/2018 8:36	0	0.1	19.7	0	-0.52	
GP-35A	7/24/2018 8:39	0	5.2	13.1	0	0.01	
GP-35B	7/24/2018 8:41	0	0.1	19.9	0	-0.01	
GP-35C	7/24/2018 8:42	0	0.1	19.9	0	0.01	
GP-36A	7/24/2018 8:46	0	0.7	19.6	0	-1.17	
GP-36B	7/24/2018 8:47	0	3.7	16.3	0	0.1	
GP-36C	7/24/2018 8:48	0	0.4	12.8	0	-0.28	
GP-37A	7/24/2018 8:51	0	1.6	16.6	0	0	
GP-37B	7/24/2018 8:52	0	0.4	17.8	0	0.91	
GP-37C	7/24/2018 8:53	0	0.5	1.5	0	-0.36	
GP-39	7/24/2018 10:47	0	1.1	17.9	0	0.03	
GP-40	7/24/2018 10:50	0	0	14.1	0	0.13	
GP-41A	7/24/2018 10:54	0	3.3	16.2	0	0.06	
GP-41B	7/24/2018 10:55	0	0.7	6.3	0	0.13	
GP-41C	7/24/2018 10:56	0	0.1	18.7	0	0.11	
GP-42A	7/24/2018 11:00	0	3.7	13.4	0	0	
GP-42B	7/24/2018 11:02	0	0.7	17.1	0	-0.16	
GP-43A	7/24/2018 11:04	0	0.4	17.5	0	0.07	
GP-43B	7/24/2018 11:06	0	0	18.4	0	0.12	
GP-43C	7/24/2018 11:07	0	0	18.5	0	0	
GP-44A	7/24/2018 11:10	0	5.7	10.4	0	0.04	
GP-44B	7/24/2018 11:12	0	0.3	16.3	0	0.11	
GP-44C	7/24/2018 11:13	0	0	18.6	0	0.06	
GP-45D	7/24/2018 14:53	0	0	19.3	0	0	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
July 2018 Monitoring

Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-45I	7/24/2018 14:52	0	0	19.2	0	0.05	
GP-45S	7/24/2018 14:51	0	0	19.2	0	0.07	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
August 2018 Monitoring

Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-1D	8/14/2018 12:40	0.0	0.0	20.5	0	-0.04	
ATC-1S	8/14/2018 12:38	0.0	1.3	20.1	0	0.08	
ATC-6D	8/14/2018 13:42	0.0	0.2	20.8	0	0.22	
ATC-6S	8/14/2018 13:40	0.0	0.7	20.9	0	0.21	
ATC-8D	8/14/2018 13:32	0.0	1.2	20.4	0	0.15	
ATC-8S	8/14/2018 13:30	0.0	0.1	20.9	0	0.1	
GP-11A	8/14/2018 12:26	0.0	1.0	20.1	0	0.04	
GP-11B	8/14/2018 12:28	0.0	0.1	20.8	0	0.39	
GP-11C	8/14/2018 12:29	0.0	0.1	20.3	0	0.55	
GP-11D	8/14/2018 12:30	0.0	0.1	20.7	0	0.19	
GP-12A	8/14/2018 12:46	0.0	0.8	20.2	0	0.09	
GP-12B	8/14/2018 12:48	0.0	0.0	20.9	0	0.08	
GP-12C	8/14/2018 12:49	0.0	0.1	20.0	0	0.09	
GP-12D	8/14/2018 12:50	0.0	0.1	20.5	0	0.28	
GP-13A	8/14/2018 12:54	0.0	1.1	20.0	0	0.07	
GP-13B	8/14/2018 12:55	0.0	0.0	21.0	0	0.1	
GP-13C	8/14/2018 12:57	0.0	0.0	20.9	0	0.14	
GP-13D	8/14/2018 12:58	0.0	0.0	21.0	0	1.08	
GP-14A	8/14/2018 13:03	0.0	0.0	20.9	0	0.39	
GP-14B	8/14/2018 13:04	0.0	0.0	21.0	0	0.32	
GP-15A	8/14/2018 13:21	0.0	5.3	7.4	0	0.09	
GP-15C	8/14/2018 13:22	0.0	0.5	17.2	0	0.23	
GP-15D	8/14/2018 13:23	0.0	0.1	21.0	0	-1.66	
GP-16A	8/14/2018 13:34	0.0	1.8	20.0	0	0.17	
GP-16B	8/14/2018 13:35	0.0	0.0	21.0	0	0.4	
GP-16C	8/14/2018 13:37	0.0	0.4	17.4	0	1.34	
GP-17A	8/14/2018 9:48	0.0	3.3	16.9	0	0.03	
GP-17B	8/14/2018 9:50	0.0	0.7	18.0	0	0.06	
GP-17C	8/14/2018 9:51	0.0	0.1	21.0	0	0.66	
GP-18A	8/14/2018 9:54	0.0	2.3	18.6	0	-0.03	
GP-18B	8/14/2018 9:56	0.0	0.3	15.0	0	0.07	
GP-18C	8/14/2018 9:58	0.0	0.2	18.3	0	0.95	
GP-19A	8/14/2018 10:01	0.0	1.2	19.0	0	-0.01	
GP-19B	8/14/2018 10:03	0.0	0.6	16.9	0	-0.01	
GP-19C	8/14/2018 10:05	0.0	0.0	21.0	0	0.02	
GP-20A	8/14/2018 10:08	0.0	1.2	20.4	0	0.01	
GP-20B	8/14/2018 10:10	0.0	0.2	19.7	0	0.01	
GP-20C	8/14/2018 10:11	0.0	0.2	8.0	0	0.19	
GP-21A	8/14/2018 10:15	0.0	1.2	19.5	0	0.02	
GP-21B	8/14/2018 10:17	0.0	0.1	10.6	0	-0.02	
GP-21C	8/14/2018 10:18	0.0	0.0	0.0	0	-0.76	NR-H2O
GP-22A	8/14/2018 10:22	0.0	2.3	18.7	0	-0.03	
GP-22C	8/14/2018 10:24	0.0	1.4	1.3	0	1.01	
GP-23A	8/14/2018 10:29	0.0	0.1	20.9	0	0.04	
GP-23B	8/14/2018 10:31	0.0	0.0	21.0	0	0.01	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
August 2018 Monitoring

Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-23C	8/14/2018 10:33	0.0	0.0	21.0	0	0.01	
GP-24A	8/14/2018 10:42	0.0	5.3	15.3	0	-0.03	
GP-24B	8/14/2018 10:45	0.0	0.3	19.9	0	0.23	
GP-25	8/14/2018 10:48	0.0	2.7	18.9	0	0.03	
GP-26	8/14/2018 10:51	0.0	0.5	20.8	0	0.52	
GP-27	8/14/2018 10:54	0.0	7.4	14.2	0	0.01	
GP-29A	8/14/2018 10:58	0.0	1.8	19.7	0	0.01	
GP-29B	8/14/2018 10:59	0.0	0.3	21.0	0	-0.06	
GP-30A	8/14/2018 8:19	0.0	0.8	19.6	0	-0.01	
GP-30B	8/14/2018 8:21	0.0	0.4	19.8	0	-0.4	
GP-31A	8/14/2018 8:23	0.0	6.9	12.3	0	0.06	
GP-31B	8/14/2018 8:25	0.0	0.3	16.4	0	0.15	
GP-31C	8/14/2018 8:26	0.0	1.4	17.9	0	0.03	
GP-32A	8/14/2018 8:29	0.0	0.1	20.2	0	0.04	
GP-32B	8/14/2018 8:30	0.0	0.2	20.1	0	0.06	
GP-32C	8/14/2018 8:32	0.0	0.3	20.1	0	-0.03	
GP-33A	8/14/2018 8:34	0.0	2.1	18.6	0	0.05	
GP-33B	8/14/2018 8:36	0.0	0.5	19.8	0	0.03	
GP-33C	8/14/2018 8:38	0.0	0.1	20.5	0	-0.64	
GP-34A	8/14/2018 8:41	0.0	9.3	7.0	0	0.13	
GP-34B	8/14/2018 8:43	0.0	0.2	20.4	0	0.08	
GP-34C	8/14/2018 8:44	0.0	0.1	20.2	0	0.39	
GP-35A	8/14/2018 8:47	0.0	5.2	16.0	0	0.07	
GP-35B	8/14/2018 8:49	0.0	0.1	20.7	0	0.05	
GP-35C	8/14/2018 8:50	0.0	0.1	20.8	0	0.09	
GP-36A	8/14/2018 8:54	0.0	1.3	20.0	0	-0.37	
GP-36B	8/14/2018 8:55	0.0	3.6	18.2	0	0.06	
GP-36C	8/14/2018 8:57	0.0	0.3	13.0	0	0.47	
GP-37A	8/14/2018 9:00	0.0	1.8	18.3	0	0.13	
GP-37B	8/14/2018 9:02	0.0	0.5	19.6	0	0.14	
GP-37C	8/14/2018 9:04	0.0	0.6	1.3	0	1.12	
GP-39	8/14/2018 9:09	0.0	0.6	18.1	0	0.28	
GP-40	8/14/2018 9:12	0.0	0.1	15.8	0	0.01	
GP-41A	8/14/2018 9:15	0.0	3.0	18.7	0	0	
GP-41B	8/14/2018 9:17	0.0	0.7	8.0	0	0.05	
GP-41C	8/14/2018 9:18	0.0	0.1	20.9	0	0	
GP-42A	8/14/2018 9:22	0.0	4.1	15.5	0	0.03	
GP-42B	8/14/2018 9:24	0.0	0.6	20.0	0	0.41	
GP-43A	8/14/2018 9:26	0.0	0.3	20.8	0	0.2	
GP-43B	8/14/2018 9:28	0.0	0.1	21.0	0	-0.01	
GP-43C	8/14/2018 9:29	0.0	0.1	21.0	0	0.04	
GP-44A	8/14/2018 9:33	0.0	5.8	14.8	0	0.03	
GP-44B	8/14/2018 9:34	0.0	0.2	21.0	0	0.3	
GP-44C	8/14/2018 9:35	0.0	0.1	21.0	0	0.01	
GP-45D	8/14/2018 12:25	0.0	0.1	20.6	0	0.49	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
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Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-45I	8/14/2018 12:24	0.0	0.1	20.6	0	0.03	
GP-45S	8/14/2018 12:23	0.0	0.0	20.7	0	0.02	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
September 2018 Monitoring

Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-1D	9/18/2018 13:15	0.0	0.2	18.6	0	0	
ATC-1S	9/18/2018 13:13	0.0	0.9	21.0	0	0.05	
ATC-6D	9/18/2018 14:20	0.0	0.2	21.0	0	-0.03	
ATC-6S	9/18/2018 14:18	0.0	0.6	21.0	0	0.23	
ATC-8D	9/18/2018 14:11	0.0	1.2	21.0	0	0.07	
ATC-8S	9/18/2018 14:09	0.0	0.1	21.0	0	-0.06	
GP-11A	9/18/2018 13:01	0.0	0.9	20.8	0	0.1	
GP-11B	9/18/2018 13:03	0.0	0.0	21.0	0	-0.04	
GP-11C	9/18/2018 13:04	0.0	0.0	21.0	0	-0.12	
GP-11D	9/18/2018 13:06	0.0	0.1	21.0	0	-0.39	
GP-12A	9/18/2018 13:22	0.0	1.2	21.0	0	0.08	
GP-12B	9/18/2018 13:24	0.0	0.0	21.0	0	0.07	
GP-12C	9/18/2018 13:25	0.0	0.1	21.0	0	0.08	
GP-12D	9/18/2018 13:27	0.0	0.1	21.0	0	-1.84	
GP-13A	9/18/2018 13:31	0.0	1.3	21.0	0	0.06	
GP-13B	9/18/2018 13:33	0.0	0.1	21.0	0	0.11	
GP-13C	9/18/2018 13:34	0.0	0.0	21.0	0	0.07	
GP-13D	9/18/2018 13:36	0.0	0.0	21.0	0	-0.85	
GP-14A	9/18/2018 13:40	0.0	0.0	21.0	0	-0.2	
GP-14B	9/18/2018 13:42	0.0	0.0	21.0	0	-0.26	
GP-15A	9/18/2018 14:01	0.0	6.1	10.2	0	0.03	
GP-15C	9/18/2018 13:57	0.0	0.3	20.8	0	0.11	
GP-15D	9/18/2018 13:59	0.0	0.1	21.0	0	-1.05	
GP-16A	9/18/2018 14:13	0.0	1.7	21.0	0	0.02	
GP-16B	9/18/2018 14:14	0.0	0.1	21.0	0	-2.73	
GP-16C	9/18/2018 14:15	0.0	0.1	21.0	0	-1.03	
GP-17A	9/18/2018 7:44	0.0	3.4	18.6	0	0.04	
GP-17B	9/18/2018 7:45	0.0	0.7	18.7	0	0.04	
GP-17C	9/18/2018 7:47	0.0	0.1	21.0	0	-1.48	
GP-18A	9/18/2018 7:50	0.0	2.5	19.0	0	0.03	
GP-18B	9/18/2018 7:51	0.0	0.4	15.3	0	0.13	
GP-18C	9/18/2018 7:53	0.0	0.2	21.0	0	-1.63	
GP-19A	9/18/2018 7:58	0.0	1.3	19.4	0	0.06	
GP-19B	9/18/2018 7:59	0.0	0.7	16.9	0	0.08	
GP-19C	9/18/2018 8:01	0.0	0.1	21.0	0	-0.06	
GP-20A	9/18/2018 8:05	0.0	1.0	21.0	0	0.06	
GP-20B	9/18/2018 8:06	0.0	0.2	21.0	0	0.05	
GP-20C	9/18/2018 8:08	0.0	1.9	20.4	0	-0.02	
GP-21A	9/18/2018 8:12	0.0	0.6	21.0	0	-0.03	
GP-21B	9/18/2018 8:13	0.0	0.2	11.2	0	0.08	
GP-21C	9/18/2018 8:14	0.0	0.0	0.0	0	-1.23	NR-H2O
GP-22A	9/18/2018 8:19	0.0	2.3	20.0	0	0.06	
GP-22C	9/18/2018 8:20	0.0	0.6	5.0	0	-1.58	
GP-23A	9/18/2018 8:26	0.0	0.1	21.0	0	0.09	
GP-23B	9/18/2018 8:27	0.0	0.1	21.0	0	0	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Compliance Probes
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Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-23C	9/18/2018 8:29	0.0	0.1	21.0	0	-0.07	
GP-24A	9/18/2018 8:39	0.0	5.1	16.7	0	0.03	
GP-24B	9/18/2018 8:40	0.0	0.2	21.0	0	-0.43	
GP-25	9/18/2018 8:46	0.0	2.5	20.1	0	0.06	
GP-26	9/18/2018 8:49	0.0	0.3	21.0	0	-0.51	
GP-27	9/18/2018 8:53	0.0	7.0	13.9	0	0.07	
GP-29A	9/18/2018 9:00	0.0	2.1	20.0	0	0.07	
GP-29B	9/18/2018 9:01	0.0	0.3	21.0	0	-0.02	
GP-30A	9/18/2018 9:22	0.0	0.6	21.0	0	0.01	
GP-30B	9/18/2018 9:24	0.0	0.1	21.0	0	-0.12	
GP-31A	9/18/2018 9:32	0.0	6.3	15.5	0	0.13	
GP-31B	9/18/2018 9:33	0.0	0.2	19.5	0	-0.03	
GP-31C	9/18/2018 9:34	0.0	1.3	19.3	0	-0.02	
GP-32A	9/18/2018 9:41	0.0	0.2	21.0	0	0.01	
GP-32B	9/18/2018 9:42	0.0	0.2	21.0	0	-0.02	
GP-32C	9/18/2018 9:44	0.0	0.3	21.0	0	0	
GP-33A	9/18/2018 9:49	0.0	2.0	20.0	0	0.05	
GP-33B	9/18/2018 9:48	0.0	0.3	21.0	0	-0.03	
GP-33C	9/18/2018 9:50	0.0	0.1	21.0	0	-0.74	
GP-34A	9/18/2018 9:54	0.0	8.6	12.4	0	-0.14	
GP-34B	9/18/2018 9:56	0.0	0.1	21.0	0	-0.1	
GP-34C	9/18/2018 9:57	0.0	0.1	21.0	0	-1.63	
GP-35A	9/18/2018 10:00	0.0	5.2	17.2	0	0.03	
GP-35B	9/18/2018 10:01	0.0	0.1	21.0	0	0.03	
GP-35C	9/18/2018 10:03	0.0	0.1	21.0	0	0	
GP-36A	9/18/2018 10:07	0.0	0.8	21.0	0	-2.9	
GP-36B	9/18/2018 10:09	0.0	2.7	19.8	0	0.03	
GP-36C	9/18/2018 10:10	0.0	0.2	21.0	0	-0.87	
GP-37A	9/18/2018 10:18	0.0	1.8	19.7	0	-0.02	
GP-37B	9/18/2018 10:19	0.0	0.3	21.0	0	0.06	
GP-37C	9/18/2018 10:20	0.0	0.5	4.0	0	-1.65	
GP-39	9/18/2018 10:27	0.0	0.9	20.3	0	-0.07	
GP-40	9/18/2018 10:30	0.0	0.1	21.0	0	0.04	
GP-41A	9/18/2018 10:33	0.0	3.0	19.5	0	0.06	
GP-41B	9/18/2018 10:35	0.0	0.7	9.2	0	0.06	
GP-41C	9/18/2018 10:36	0.0	0.1	21.0	0	0.03	
GP-42A	9/18/2018 10:40	0.0	3.8	15.9	0	0.04	
GP-42B	9/18/2018 10:41	0.0	0.4	21.0	0	-0.29	
GP-43A	9/18/2018 10:45	0.0	0.5	20.9	0	0.23	
GP-43B	9/18/2018 10:47	0.0	0.1	21.0	0	0.09	
GP-43C	9/18/2018 10:48	0.0	0.1	21.0	0	0.03	
GP-44A	9/18/2018 10:51	0.0	5.7	16.1	0	0.05	
GP-44B	9/18/2018 10:52	0.0	0.1	21.0	0	-0.43	
GP-44C	9/18/2018 10:53	0.0	0.1	21.0	0	0.12	
GP-45D	9/18/2018 12:59	0.0	0.0	21.0	0	-0.09	

CEDAR HILLS REGIONAL LANDFILL
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Probe ID	Date/Time	CH4 % vol	CO2 % vol2	O2 % vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-45I	9/18/2018 12:58	0.0	0.0	21.0	0	0.06	
GP-45S	9/18/2018 12:56	0.0	0.1	21.0	0	0.04	

Interior Probes

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
July 2018 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-03D	7/24/2018 14:12	0.0	5.4	14.5	0	0.05	
ATC-03S	7/24/2018 14:11	0.0	0.6	18.6	0	-0.06	
GP-1A	7/24/2018 20:43	0	4.7	17.4	0	0.08	
GP-1B	7/24/2018 20:45	0	0.1	21.1	0	0.06	
GP-2A	7/24/2018 21:04	0	6	13.9	0	0.09	
GP-2B	7/24/2018 21:06	0	0.1	21.4	0	0.11	
GP-3	7/24/2018 21:22	0	12.6	12.5	0	0.07	
GP-46D	7/24/2018 21:30	0	0.1	21.9	0	-0.05	
GP-46I	7/24/2018 21:28	0	0.1	21.9	0	-0.14	
GP-46S	7/24/2018 21:27	0	0.1	21	0	0.01	
GP-47D	7/25/2018 13:33	0.0	0.1	17.4	0	0.4	
GP-47I	7/25/2018 13:32	0.0	0.8	17.9	0	-0.44	
GP-47S	7/25/2018 13:31	0.0	0.0	18.9	0	-0.01	
GP-48D	7/24/2018 21:40	0	0.1	21.9	0	0.08	
GP-48I	7/24/2018 21:38	0	0.1	21.8	0	-0.01	
GP-48S	7/24/2018 21:37	0	0.2	20.4	0	0.04	
GP-4A	7/24/2018 21:11	0	12	10.8	0	0.1	
GP-4B	7/24/2018 21:12	0	0.1	21.7	0	0.1	
GP-52	7/25/2018 13:39	0.0	2.2	13.6	0	0.12	
GP-53	7/25/2018 13:40	0.0	0.1	18.3	0	0	
GP-54	7/25/2018 13:41	0.0	0.0	18.9	0	-0.09	
GP-55	7/24/2018 20:34	0	0.3	20.4	0	-0.01	
GP-56	7/24/2018 20:36	0	1.9	17.1	0	0.09	
GP-57	7/24/2018 20:29	45.8	25.4	1.8	>>>>	-9.59	
GP-58	7/24/2018 20:30	0.6	26.8	0	12	0.04	
GP-59	7/24/2018 20:23	0	0.2	20.5	0	0.1	
GP-5A	7/24/2018 14:00	0.0	0.0	19.4	0	-0.87	
GP-5BA	7/24/2018 14:01	0.0	0.1	19.2	0	0.24	
GP-5BB	7/24/2018 14:03	0.0	0.0	19.4	0	-0.83	
GP-5BC	7/24/2018 14:04	0.0	0.0	19.4	0	-0.86	
GP-5BD	7/24/2018 14:05	0.0	0.8	19.2	0	-0.72	
GP-60	7/24/2018 20:25	0	0.1	20.7	0	0.05	
GP-61	7/24/2018 20:06	0	0.1	20.6	0	0.04	
GP-62	7/24/2018 20:08	0	1.7	19.3	0	0.04	
GP-6A	7/24/2018 20:49	0	0.1	21.2	0	-1.32	
GP-6B	7/24/2018 20:50	0	0.1	21.2	0	0.11	
GP-6C	7/24/2018 20:52	0	3.6	18.3	0	0.08	
GP-6D	7/24/2018 20:53	0	0.1	21.3	0	-0.31	
GP-6E	7/24/2018 20:56	0	0.1	21.3	0	0.13	
GP-6F	7/24/2018 20:57	0	0.1	21.4	0	0.12	
GP-6G	7/24/2018 20:59	0	0.1	21.5	0	0.12	
GP-6H	7/24/2018 21:00	0	0.1	21.5	0	-0.35	
GP-7	7/24/2018 20:41	0	0.1	20.8	0	0.01	
GP-8	7/24/2018 20:14	0	0.1	20.7	0	-0.03	
GP-9	7/24/2018 20:17	0	0.1	20.6	0	-0.12	

CEDAR HILLS REGIONAL LANDFILL
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Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-B4-1	7/24/2018 21:15	0	0.1	21.7	0	-0.51	
GP-B4-2	7/24/2018 21:17	0	0.1	21.6	0	0.06	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
August 2018 Monitoring

Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-03D	8/14/2018 13:15	0.0	6.0	15.4	0	0.1	
ATC-03S	8/14/2018 13:14	0.0	0.5	20.7	0	0.24	
GP-1A	8/15/2018 22:35	0	4.3	17.3	0	0.08	
GP-1B	8/15/2018 22:38	0	0.1	20.6	0	0.1	
GP-2A	8/15/2018 23:56	0	5.7	13.9	0	-0.27	
GP-2B	8/15/2018 23:59	0	0.2	21	0	0.03	
GP-3	8/15/2018 23:23	0	12.5	12.3	0	0.07	
GP-46D	8/15/2018 23:32	0	0.1	21	0	-0.33	
GP-46I	8/15/2018 23:30	0.3	0.1	20.9	6	0.04	
GP-46S	8/15/2018 23:28	0	0.1	20.8	0	-0.07	
GP-47D	8/14/2018 14:03	0.0	0.2	20.9	0	0.22	
GP-47I	8/14/2018 14:02	0.5	2.0	18.2	10	1.94	
GP-47S	8/14/2018 14:01	45.8	21.3	0.2	>>>>	2.27	
GP-48D	8/15/2018 23:43	10.4	9.6	0.9	208	0.25	
GP-48I	8/15/2018 23:40	0	0.1	21	0	-0.05	
GP-48S	8/15/2018 23:39	0	0.1	21	0	-0.04	
GP-4A	8/15/2018 23:09	0	8	13.9	0	0.04	
GP-4B	8/15/2018 23:12	0	0.1	21	0	0.06	
GP-52	8/14/2018 14:09	0.0	2.4	15.7	0	0.25	
GP-53	8/14/2018 14:11	0.0	0.2	20.0	0	0.3	
GP-54	8/14/2018 14:12	0.0	4.2	14.5	0	0.94	
GP-55	8/15/2018 21:57	31.5	11.7	0	630	0.05	
GP-56	8/15/2018 21:59	0	2.3	18.1	0	-0.19	
GP-57	8/15/2018 21:48	48.8	26.3	1.2	976	-8.25	
GP-58	8/15/2018 21:50	0	19.7	1.9	0	0.04	
GP-59	8/15/2018 21:32	18.8	6	8.1	376	0.11	
GP-5A	8/14/2018 13:47	0.0	0.0	21.5	0	1.02	
GP-5BA	8/14/2018 13:49	0.0	0.1	21.0	0	0.31	
GP-5BB	8/14/2018 13:50	0.0	0.2	21.0	0	1.06	
GP-5BC	8/14/2018 13:51	0.0	0.3	21.0	0	0.97	
GP-5BD	8/14/2018 13:52	0.0	0.9	13.5	0	1.16	
GP-60	8/15/2018 21:34	0	0.1	20.4	0	-0.15	
GP-61	8/15/2018 21:23	0	1.8	19.3	0	0.29	
GP-62	8/15/2018 21:25	0	1.5	19.5	0	0.04	
GP-6A	8/15/2018 22:44	0	0.1	20.6	0	-0.7	
GP-6B	8/15/2018 22:46	0	3.7	4.9	0	0.19	
GP-6C	8/15/2018 22:48	0	0.8	15.7	0	0.22	
GP-6D	8/15/2018 22:51	0	4.5	0.3	0	-0.13	
GP-6E	8/15/2018 22:53	0	0.2	19.9	0	0.26	
GP-6F	8/15/2018 22:55	0	0.1	20.9	0	0.29	
GP-6G	8/15/2018 22:57	0	1.4	11.5	0	0.28	
GP-6H	8/15/2018 22:58	0	4.5	0.3	0	0.03	
GP-7	8/15/2018 22:26	0	3.3	10.8	0	-0.12	
GP-8	8/15/2018 22:21	0	0	20.6	0	-0.06	
GP-9	8/15/2018 22:12	0	0.1	20.4	0	-0.1	

CEDAR HILLS REGIONAL LANDFILL
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Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-B4-1	8/15/2018 23:17	0	0.1	21	0	-0.56	
GP-B4-2	8/15/2018 23:19	0	2.4	18.9	0	0.03	

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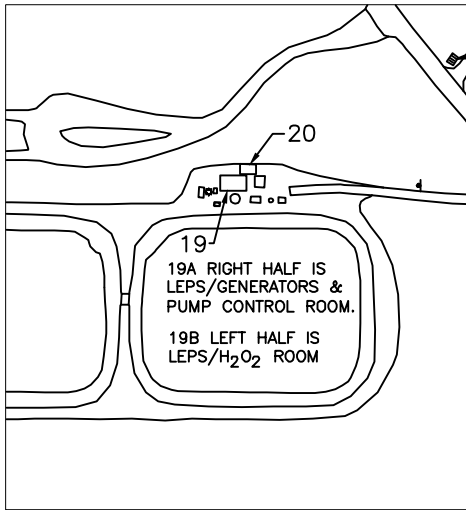
Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
ATC-03D	9/18/2018 13:52	0.0	10.3	11.3	0	0.04	
ATC-03S	9/18/2018 13:50	0.0	0.9	21.0	0	-0.26	
GP-1A	9/12/2018 21:51	0	1.9	20.4	0	0.02	
GP-1B	9/12/2018 21:52	0	0.1	22	0	-0.02	
GP-2A	9/12/2018 22:10	0	6	14	0	0.01	
GP-2B	9/12/2018 22:11	0	0.2	22.1	0	0.05	
GP-3	9/12/2018 22:28	0	16.1	8.6	0	0.01	
GP-46D	9/12/2018 22:36	0	0.1	22.4	0	0.02	
GP-46I	9/12/2018 22:34	0	0.1	22.3	0	-0.31	
GP-46S	9/12/2018 22:33	0	0.1	21.8	0	0.03	
GP-47D	9/18/2018 11:21	0.0	0.3	21.0	0	-0.56	
GP-47I	9/18/2018 11:19	0.0	5.8	13.3	0	-1.19	
GP-47S	9/18/2018 11:18	0.0	0.1	21.0	0	-0.73	
GP-48D	9/12/2018 22:46	6.8	8.8	3.5	>>>>	0.11	
GP-48I	9/12/2018 22:45	0	0.1	22.3	0	0.01	
GP-48S	9/12/2018 22:43	0	0.1	22.2	0	-0.02	
GP-4A	9/12/2018 22:18	0	11.5	11.7	0	0.01	
GP-4B	9/12/2018 22:19	0	0.1	22.3	0	0.08	
GP-52	9/18/2018 11:11	0.0	0.7	20.9	0	0.1	
GP-53	9/18/2018 11:12	0.1	0.5	19.5	2	-0.11	
GP-54	9/18/2018 11:14	0.0	0.1	21.0	0	-0.07	
GP-55	9/12/2018 21:35	47.4	15.8	0	>>>>	0.06	
GP-56	9/12/2018 21:37	0	2.2	20.1	0	0.05	
GP-57	9/12/2018 21:28	49.7	26.9	0.6	>>>>	-2.15	
GP-58	9/12/2018 21:31	0	13.4	9.1	0	0.02	
GP-59	9/12/2018 21:22	21	6.8	7.1	>>>>	0.31	
GP-5A	9/12/2018 21:24	0.0	0.2	21.6	0	0.02	
GP-5BA	9/18/2018 14:27	0.0	0.2	21.0	0	0.19	
GP-5BB	9/18/2018 14:28	0.0	0.1	21.0	0	-2.07	
GP-5BC	9/18/2018 14:29	0.0	0.1	21.0	0	-2.06	
GP-5BD	9/18/2018 14:31	0.0	1.1	21.0	0	-1.61	
GP-60	9/12/2018 21:24	0	0.2	21.6	0	0.02	
GP-61	9/12/2018 21:08	0	1.5	20.1	0	0.1	
GP-62	9/12/2018 21:10	0	1.7	19.9	0	0.03	
GP-6A	9/12/2018 21:56	0	0.1	22	0	-0.58	
GP-6B	9/12/2018 21:58	0	0.9	17.3	0	0.29	
GP-6C	9/12/2018 21:59	0	0.7	16.9	0	0.35	
GP-6D	9/12/2018 22:01	0	0.1	21.9	0	0.25	
GP-6E	9/12/2018 22:02	0	0.2	21.6	0	0.37	
GP-6F	9/12/2018 22:04	0	0.2	22	0	0.34	
GP-6G	9/12/2018 22:05	0	1.3	12	0	0.33	
GP-6H	9/12/2018 22:06	0	0.2	21.6	0	0.11	
GP-7	9/12/2018 21:47	0	0.7	19.4	0	0.01	
GP-8	9/12/2018 21:43	0	0.9	17	0	0.23	
GP-9	9/12/2018 21:15	0	0.1	21.5	0	0.07	

CEDAR HILLS REGIONAL LANDFILL
Landfill Gas Interior Probes
September 2018 Monitoring

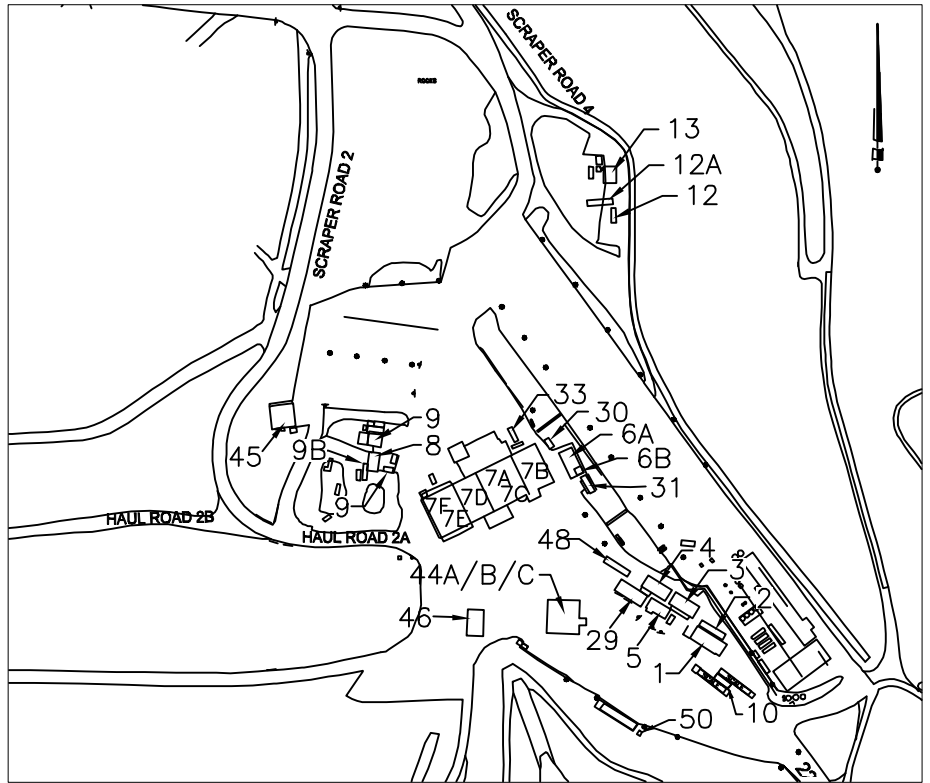
Probe ID	Date/Time	CH4 %vol	CO2 %vol2	O2 %vol3	Lower Explosive Limit %LEL	Static Pressure in INWC	Comments
GP-B4-1	9/12/2018 22:24	0	0.1	22.3	0	0.06	
GP-B4-2	9/12/2018 22:25	0	2.2	19.7	0	0.18	

On-Site Building Monitoring

Aeration Ponds

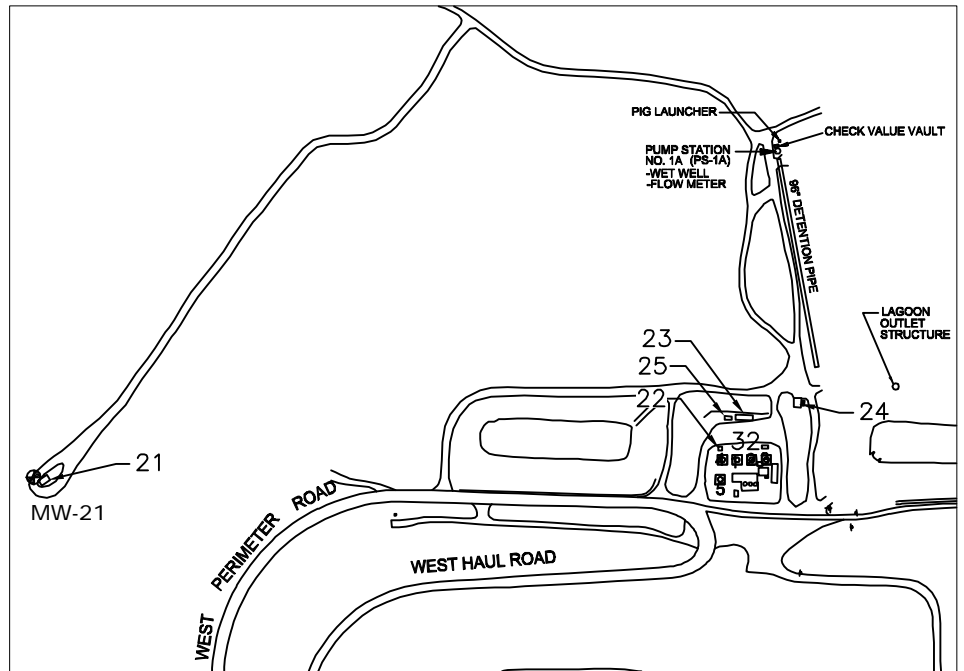


Shop and Office Buildings



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

North Flare Station



CEDAR HILLS REGIONAL LANDFILL BUILDING NUMBERS

Source: KCSWD, February 2012



King County

Regional Landfill
Environmental Monitoring Report
3rd Quarter 2018

Landfill Gas Structure Monitoring Location

Environmental Monitoring Sampling and Analysis Plan

Cedar Hills Regional Landfill, King County, Washington

DATE: February 2012

DESIGNED BY:


DRAWN BY:

REVISED BY:

PROJECT NO.

FIGURE NO.

**THIRD QUARTER
BUILDING MONITORING**

		INSTRUMENT: Place check by instrument used			WEATHER:		DATE: 07/28/18	
		Foxboro TVA 1000 (sn. 301)					TECH: DNS	
		Foxboro TVA 1000 (sn. 732)			Night/ Clear			
					X			
ENVIS ID	BLDG #	DESCRIPTION	CH ₄ (ppm)	REMARKS		BAR PRESS (in. Hg)	TIME	
GOC- 07/28/18	1	FRONT OFFICE				29.95	9:45PM	
GCR- 07/28/18	2	CONF ROOM						
GAO- 07/28/18	3	PAYROLL OFFICE						
GEO- 07/28/18	4	ENGR. OFFICE						
GLRC- 07/28/18	5	LUNCHROOM						
GSPC 07/28/18		SPOC						
GELO- 07/28/18 A	6A	DRY STORAGE		OBSTRUCTIONS IN Various AREA				
GELO- 07/28/18 B	6B	ELECTRICIAN OFFICE		OBSTRUCTION IN Various AREA				
GAP- 07/28/18		ACCOUNT PAYABLE						
GSO- 07/28/18 A	7A	SHOP OFFICE						
GPR- 07/28/18 B	7B	PARTS ROOM						
GMS- 07/28/18 C	7C	SHOP PIT AREA/BAY						
GTB- 07/28/18 D	7D	SHOP TIRE BAY						
GEW- 07/28/18 E	7E	EAST WELD SHOP						
GWW- 07/28/18 F	7F	WEST WELD SHOP						
GCS- 07/28/18	8	CARPENTER'S	N/A	HAZARDOUS AREA				
GSS- 07/28/18	9	WASTEWATER	N/A	HAZARDOUS AREA				
GSS- 07/28/18 B	9B	CARPENTER/STORAGE						
GSH- 07/28/18	10	SCALEHOUSE						
GB13- 07/28/18	13	WW COMPRESSOR		REAR OBSTRUCTION				
GB16- 07/28/18	16	GENERATOR	N/A	HAZARDOUS AREA				
GB19- 07/28/18	19	LEPS (P.S.# 5)						
GB19- 07/28/18 B	19B	LEPS/H ₂ O ₂ ROOM						
GB20- 07/28/18	20	LEPS ELEC PANALS						
GB21- 07/28/18	21	STORAGE(OLD PS 1)	N/A	BUFFERED AREA				
GB22- 07/28/18	22	STORAGE/N FLARE	N/A	REMOVED				
GB23- 07/28/18	23	LFGAS						
GB24- 07/28/18	24	NE GENERATOR BLDG						
GBWW- 07/28/18	30	WOMEN BRK RM						
GPWT- 07/28/18	PW	PRESSURE WASH RM						
GBRR- 07/28/18	RR	TRUCKWASH RR W						
GBSS- 07/28/18	SS	TRUCKWASH RR E						
GBZZ- 07/28/18	29	MANAGERS TRAILER						
GBPT- 07/28/18		CCG FASTER						
GCLS- 07/28/18		CHLORINE SHED						

Migration Probes

CEDAR HILLS REGIONAL LANDFILL
West Perimeter Landfill Gas Migration Control Probes
Third Quarter 2018 Monitoring

Probe ID	Date	Time	Barometric				Static Pressure in INWC
			Pressure in Hg	CH4 %vol	CO2 %vol	O2 %vol	
MGPW 1700	7/2/2018	11:33am	30.13	0.2	0.3	20.0	0.03
MGPW 1700	7/16/2018	11:34am	29.97	0.0	0.2	18.8	0.13
MGPW 1700	8/10/2018	12:38pm	29.92	0.3	0.3	20.0	0.02
MGPW 1700	8/23/188	11:59am	29.99	0.0	0.0	20.4	-0.12
MGPW 1700	9/12/2018	12:33pm	29.9	0.1	0.2	20.6	0.03
MGPW 1700	9/25/2018	1:08pm	30.15	0.1	0.2	20.0	0
MGPW 1708	7/2/2018	11:14am	30.13	0.0	0.2	20.2	-1.27
MGPW 1708	7/16/2018	11:25am	29.97	0.0	0.1	19.1	-1.1
MGPW 1708	8/10/2018	12:48pm	29.92	0.0	0.2	19.8	-1
MGPW 1708	8/23/2018	11:50am	29.99	0.0	0.2	20.5	-1.43
MGPW 1708	9/12/2018	12:48pm	29.9	0.0	0.2	20.5	-0.66
MGPW 1708	9/25/2018	1:29pm	30.15	0.0	0.2	20.1	-0.64
MGPW 1710S	7/2/2018	11:07am	30.13	0.0	0.1	20.4	-1.35
MGPW 1710S	7/16/2018	11:19am	29.97	0.0	0.1	19.3	-0.98
MGPW 1710S	8/10/2018	12:53pm	29.92	0.0	0.3	19.6	-0.86
MGPW 1710S	8/23/2018	11:43am	29.99	0.0	0.0	20.5	-1.32
MGPW 1710S	9/12/2018	12:52pm	29.90	0.0	0.2	20.5	-0.52
MGPW 1710S	9/25/2018	1:35pm	30.15	0.0	0.2	20.1	-0.53
MGPW 1710D	7/2/2018	11:05am	30.13	0.0	0.1	20.4	-1.33
MGPW 1710D	7/16/2018	11:21am	29.97	0.0	0.1	19.4	-1.03
MGPW 1710D	8/10/2018	12:56pm	29.92	0.0	0.1	19.8	-1.07
MGPW 1710D	8/23/2018	11:44am	29.99	0.0	0.0	20.8	-1.34
MGPW 1710D	9/12/2018	12:54pm	29.9	0.0	0.2	20.6	-0.6
MGPW 1710D	9/25/2018	1:37pm	30.15	0.0	0.1	20.3	-0.68
MGPW 1714	7/2/2018	11:02am	30.13	0.0	0.1	20.1	-1.24
MGPW 1714	7/16/2018	11:14am	29.97	0.0	0.1	19.4	-1.23
MGPW 1714	8/10/2018	1:02pm	29.92	0.0	0.1	19.7	-0.93
MGPW 1714	8/23/2018	1:38am	29.99	0.0	0.0	20.6	-1.28
MGPW 1714	9/12/2018	12:58pm	29.90	0.0	0.1	20.7	-0.55
MGPW 1714	9/25/2018	1:42pm	30.15	0.0	0.2	20.2	-0.55

Data Qualifiers

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

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

APPENDIX C

Meteorological Data

Date/Time	Wind Speed (Average)	Wind Direction	Sigma Theta	2 M Temperature (Average)	Barometric Pressure	Precipitation
	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches
7/1/2018 0:00	2.79	190.4	4.699	13.85	29.38	0
7/1/2018 0:15	4.022	182.7	13.76	13.59	29.38	0
7/1/2018 0:30	2.219	128.5	11.52	13.05	29.38	0.01
7/1/2018 0:45	1.01	117	0.078	12.86	29.38	0
7/1/2018 1:00	2.608	115.8	6.746	12.76	29.38	0.01
7/1/2018 1:15	5.339	145.7	13.18	12.69	29.38	0.01
7/1/2018 1:30	7.756	173.7	8.14	12.7	29.38	0.01
7/1/2018 1:45	6.152	161.8	12.62	12.65	29.38	0.01
7/1/2018 2:00	5.975	146.6	6.113	12.59	29.35	0
7/1/2018 2:15	5.347	147.6	11.19	12.61	29.35	0
7/1/2018 2:30	5.731	138.6	8.15	12.59	29.35	0
7/1/2018 2:45	5.724	146.3	10.02	12.6	29.35	0.01
7/1/2018 3:00	4.595	140.1	8.36	12.58	29.37	0
7/1/2018 3:15	5.112	146.2	7.16	12.58	29.37	0
7/1/2018 3:30	4.751	154.1	8.43	12.59	29.37	0
7/1/2018 3:45	3.977	155.8	15.66	12.63	29.37	0
7/1/2018 4:00	4.252	133.3	6.879	12.61	29.37	0
7/1/2018 4:15	4.605	143.5	7.471	12.6	29.37	0.01
7/1/2018 4:30	2.573	84.9	51.24	12.62	29.37	0
7/1/2018 4:45	1.115	77.59	16.76	12.65	29.37	0.01
7/1/2018 5:00	1.583	71.19	25.03	12.66	29.35	0
7/1/2018 5:15	4.358	134.2	40.4	12.74	29.35	0.03
7/1/2018 5:30	4.912	205.9	45.47	12.71	29.35	0.02
7/1/2018 5:45	8.78	197.8	11.04	12.73	29.35	0.01
7/1/2018 6:00	8.72	205.5	7.555	12.74	29.39	0
7/1/2018 6:15	8.7	208.9	13.24	12.83	29.39	0
7/1/2018 6:30	11.29	231.3	18.98	12.63	29.39	0.01
7/1/2018 6:45	10.5	219.6	9.26	12.6	29.39	0.01
7/1/2018 7:00	8.89	210.3	8.9	12.72	29.38	0
7/1/2018 7:15	9.09	219.3	7.963	12.93	29.38	0
7/1/2018 7:30	8.19	217.8	11.72	13.24	29.38	0
7/1/2018 7:45	3.443	303.2	37.81	13.11	29.38	0.02
7/1/2018 8:00	5.759	210.5	18.64	13.39	29.38	0
7/1/2018 8:15	7.888	211.6	15.37	13.77	29.38	0
7/1/2018 8:30	10.61	225.1	8.98	13.18	29.38	0.01
7/1/2018 8:45	9.15	218.4	8.02	13.13	29.38	0
7/1/2018 9:00	6.998	223.1	9.81	13.43	29.38	0
7/1/2018 9:15	8.75	211.4	12.39	13.75	29.38	0
7/1/2018 9:30	8.96	204.9	11.03	13.82	29.38	0
7/1/2018 9:45	6.795	214	13.73	14.73	29.38	0
7/1/2018 10:00	9.55	210.8	14.64	15.13	29.38	0
7/1/2018 10:15	8.63	217.8	13.11	15.18	29.38	0

7/1/2018 10:30	9.59	259.2	22.98	14.39	29.38	0
7/1/2018 10:45	8.03	253.7	9.06	14.02	29.38	0
7/1/2018 11:00	4.03	254.5	15.81	14.61	29.41	0
7/1/2018 11:15	2.636	228.4	47.6	15.14	29.41	0
7/1/2018 11:30	4.363	206.9	31.93	15.7	29.41	0
7/1/2018 11:45	5.359	231.8	29.44	15.96	29.41	0
7/1/2018 12:00	10.09	223.6	37.14	15.73	29.39	0
7/1/2018 12:15	5.567	282.4	15.34	16.15	29.39	0
7/1/2018 12:30	5.169	270.8	20.12	16.3	29.39	0
7/1/2018 12:45	5.806	229.3	17.97	16.51	29.39	0
7/1/2018 13:00	5.793	244.4	29.71	17.16	29.38	0
7/1/2018 13:15	7.597	238.5	16.61	17.46	29.38	0
7/1/2018 13:30	8.18	222	27.72	17.87	29.38	0
7/1/2018 13:45	6.389	227.8	22.56	17.66	29.38	0
7/1/2018 14:00	7.447	245.8	21.81	17.82	29.39	0
7/1/2018 14:15	6.123	234	32.99	18.17	29.39	0
7/1/2018 14:30	6.455	220.6	22.5	18.28	29.39	0
7/1/2018 14:45	5.55	235.8	16.37	18.01	29.39	0
7/1/2018 15:00	5.282	241.7	13.04	18.12	29.38	0
7/1/2018 15:15	7.681	253.8	15.93	18.02	29.38	0
7/1/2018 15:30	6.94	280.4	9.54	17.87	29.38	0
7/1/2018 15:45	6.143	282.6	12.81	17.95	29.38	0
7/1/2018 16:00	5.624	314.1	15.66	17.99	29.38	0
7/1/2018 16:15	4.778	349.7	15.73	17.77	29.38	0
7/1/2018 16:30	6.733	24.38	11.34	17.05	29.38	0
7/1/2018 16:45	7.885	19.37	10.1	16.48	29.38	0
7/1/2018 17:00	7.728	29.63	9.31	16.57	29.36	0
7/1/2018 17:15	10.66	32.3	9.67	16.38	29.36	0
7/1/2018 17:30	12.93	28.38	8.39	15.88	29.36	0
7/1/2018 17:45	12.71	26.06	9.09	15.66	29.36	0
7/1/2018 18:00	13.07	24.17	8.92	14.89	29.36	0
7/1/2018 18:15	13.28	23.65	10.92	14.78	29.36	0
7/1/2018 18:30	12.41	19.83	12.21	14.34	29.36	0
7/1/2018 18:45	12.89	18.91	10.19	13.97	29.36	0
7/1/2018 19:00	13.84	22.8	8.94	13.65	29.35	0
7/1/2018 19:15	14.88	21.09	10.42	13.56	29.35	0
7/1/2018 19:30	14.67	20.08	9.36	13.36	29.35	0
7/1/2018 19:45	14.81	18.5	11.56	13.23	29.35	0
7/1/2018 20:00	12.91	18.23	10.85	13.06	29.38	0
7/1/2018 20:15	12.25	17.53	12.34	12.99	29.38	0
7/1/2018 20:30	12.34	15.88	10.08	12.94	29.38	0
7/1/2018 20:45	10.67	14.45	13.82	12.96	29.38	0
7/1/2018 21:00	9.61	17.82	10.92	13.06	29.38	0
7/1/2018 21:15	8.02	23.74	10.45	13.08	29.38	0
7/1/2018 21:30	5.673	17.16	10.43	13.1	29.38	0
7/1/2018 21:45	5.169	13.93	14.06	13.15	29.38	0
7/1/2018 22:00	5.17	14.47	10.61	13.07	29.37	0

7/1/2018 22:15	5.006	13.76	18.61	13.01	29.37	0
7/1/2018 22:30	2.43	22	8.18	12.88	29.37	0
7/1/2018 22:45	2.335	26.43	4.105	12.57	29.37	0
7/1/2018 23:00	2.329	19.08	6.559	12.5	29.38	0
7/1/2018 23:15	4.573	20.44	9.79	12.32	29.38	0
7/1/2018 23:30	7.397	29.14	8.18	12.01	29.38	0
7/1/2018 23:45	8.13	19.97	10.85	11.89	29.38	0
7/2/2018 0:00	8.45	15.53	10.66	11.76	29.38	0
7/2/2018 0:15	7.26	13.51	15.62	11.7	29.38	0
7/2/2018 0:30	2.401	10.48	16.2	11.61	29.38	0
7/2/2018 0:45	5.882	16.95	14.76	11.48	29.38	0
7/2/2018 1:00	3.761	39.78	14.06	11.39	29.38	0
7/2/2018 1:15	3.656	26.64	10.33	11.29	29.38	0
7/2/2018 1:30	4.352	45.46	11.34	11.09	29.38	0
7/2/2018 1:45	4.54	36.72	11.74	10.79	29.38	0
7/2/2018 2:00	2.355	40.85	28.66	10.75	29.37	0
7/2/2018 2:15	3.599	54.59	23.52	10.64	29.37	0
7/2/2018 2:30	3.8	24.53	6.259	10.27	29.37	0
7/2/2018 2:45	1.55	79.2	43	10.23	29.37	0
7/2/2018 3:00	3.947	175.8	15.49	10.17	29.38	0
7/2/2018 3:15	2.582	87	18.22	9.98	29.38	0.01
7/2/2018 3:30	3.777	86.7	16.16	9.84	29.38	0
7/2/2018 3:45	4.562	95.9	10.9	9.66	29.38	0
7/2/2018 4:00	3.976	95	7.88	9.62	29.38	0
7/2/2018 4:15	3.538	92.8	9.27	9.66	29.38	0
7/2/2018 4:30	2.518	77.61	9.25	9.78	29.38	0
7/2/2018 4:45	2.906	28.03	9.33	9.82	29.38	0
7/2/2018 5:00	4.605	34.47	5.368	9.72	29.38	0
7/2/2018 5:15	5.169	39.16	6.041	9.44	29.38	0
7/2/2018 5:30	4.095	34.24	4.253	9.29	29.38	0.01
7/2/2018 5:45	3.764	93.1	24.74	9.35	29.38	0.01
7/2/2018 6:00	4.339	108.3	9.48	9.38	29.37	0
7/2/2018 6:15	5.137	110.9	9.56	9.42	29.37	0
7/2/2018 6:30	4.687	109.4	9.63	9.51	29.37	0
7/2/2018 6:45	4.653	118.8	12.94	9.68	29.37	0
7/2/2018 7:00	5.452	146	10.65	10.23	29.38	0
7/2/2018 7:15	5.007	145.8	11.96	10.24	29.38	0
7/2/2018 7:30	4.2	117.8	13.63	10.39	29.38	0
7/2/2018 7:45	4.667	111.2	10.27	10.42	29.38	0
7/2/2018 8:00	5.19	106.4	9.13	10.97	29.4	0
7/2/2018 8:15	5.294	126.1	17.26	11.47	29.4	0
7/2/2018 8:30	2.705	123.4	54.31	11.34	29.4	0
7/2/2018 8:45	5.261	128.3	19.77	11.33	29.4	0
7/2/2018 9:00	6.358	122.1	9.91	11.61	29.38	0
7/2/2018 9:15	5.603	133.5	15.55	12.23	29.38	0
7/2/2018 9:30	6.456	153.1	10.37	12.56	29.38	0
7/2/2018 9:45	4.964	106.2	35.01	13.11	29.38	0

7/2/2018 10:00	3.544	106.5	56.38	12.75	29.38	0
7/2/2018 10:15	1.191	19.46	20.33	13.04	29.38	0
7/2/2018 10:30	0.756	33.05	17.98	14.67	29.38	0
7/2/2018 10:45	3.729	81.9	42.61	14.81	29.38	0
7/2/2018 11:00	4.683	104.6	30.97	14.06	29.41	0
7/2/2018 11:15	4.399	87.7	22.88	14.16	29.41	0
7/2/2018 11:30	4.126	116.5	27.04	14.89	29.41	0
7/2/2018 11:45	5.091	72.93	31.12	15.18	29.41	0
7/2/2018 12:00	2.472	35.11	35.75	15.9	29.39	0
7/2/2018 12:15	3.682	81.4	35.83	16.12	29.39	0
7/2/2018 12:30	2.474	34.93	69.34	16.07	29.39	0
7/2/2018 12:45	3.455	46.31	28.34	15.99	29.39	0
7/2/2018 13:00	6.454	41.14	17.84	15.79	29.39	0
7/2/2018 13:15	5.987	57.81	12.01	16.13	29.39	0
7/2/2018 13:30	5.004	35.13	19.6	17.2	29.39	0
7/2/2018 13:45	3.817	12.94	21.3	16.66	29.39	0
7/2/2018 14:00	4.316	31.73	23.77	16.94	29.36	0
7/2/2018 14:15	7.592	21.24	21.53	16.65	29.36	0
7/2/2018 14:30	7.842	38.17	10.26	16.44	29.36	0
7/2/2018 14:45	5.945	38.21	17.4	16.85	29.36	0
7/2/2018 15:00	7.314	40.98	16.17	16.68	29.36	0
7/2/2018 15:15	5.008	32.32	16.25	17.09	29.36	0
7/2/2018 15:30	4.675	20.71	13.99	17.33	29.36	0
7/2/2018 15:45	4.492	1.637	27.96	17.37	29.36	0
7/2/2018 16:00	6.388	16.67	16.35	17.04	29.37	0
7/2/2018 16:15	5.716	16.98	16.37	17.44	29.37	0
7/2/2018 16:30	6.138	18.84	10.36	17.11	29.37	0
7/2/2018 16:45	6.893	28.13	8.88	17.18	29.37	0
7/2/2018 17:00	5.648	19.21	12.35	17.42	29.35	0
7/2/2018 17:15	6.529	28.57	13.22	17.32	29.35	0
7/2/2018 17:30	6.37	20.29	16.62	17.68	29.35	0
7/2/2018 17:45	6.581	353.9	16.28	17.78	29.35	0
7/2/2018 18:00	6.327	5.613	12.56	17.28	29.37	0
7/2/2018 18:15	6.687	15.71	9.63	16.96	29.37	0
7/2/2018 18:30	7.19	13.74	8.44	16.69	29.37	0
7/2/2018 18:45	5.154	3.889	7.831	16.67	29.37	0
7/2/2018 19:00	4.639	355.4	11.75	17	29.37	0
7/2/2018 19:15	3.394	334.5	12.21	16.9	29.37	0
7/2/2018 19:30	4.6	321.4	12.89	16.88	29.37	0
7/2/2018 19:45	3.163	359.2	9.63	15.95	29.37	0
7/2/2018 20:00	5.03	354.5	11.82	15.69	29.38	0
7/2/2018 20:15	5.786	351.8	11.53	15.29	29.38	0
7/2/2018 20:30	6.351	347.2	7.496	14.79	29.38	0
7/2/2018 20:45	5.918	348.7	11.1	14.59	29.38	0
7/2/2018 21:00	2.154	26.06	3.816	14.12	29.39	0
7/2/2018 21:15	2.58	31.73	4.027	14.04	29.39	0
7/2/2018 21:30	2.953	45.79	6.384	13.62	29.39	0

7/2/2018 21:45	1.163	50.42	1.979	13.28	29.39	0
7/2/2018 22:00	0.837	64.18	15.06	13.61	29.37	0
7/2/2018 22:15	2.542	170.1	23.85	13.55	29.37	0
7/2/2018 22:30	3.216	140.1	27.27	12.7	29.37	0
7/2/2018 22:45	3.709	160.5	7.609	12.84	29.37	0
7/2/2018 23:00	2.998	154.7	15.83	12.41	29.38	0
7/2/2018 23:15	2.513	126.6	2.121	11.85	29.38	0
7/2/2018 23:30	2.633	150.6	14.36	11.56	29.38	0
7/2/2018 23:45	3.225	120.2	8.26	11.32	29.38	0
7/3/2018 0:00	4.022	126.2	6.038	11.23	29.38	0
7/3/2018 0:15	5.484	135.5	8.29	11.32	29.38	0
7/3/2018 0:30	5.162	140.7	5.05	11.03	29.38	0
7/3/2018 0:45	5.05	141.6	5.128	10.92	29.38	0
7/3/2018 1:00	3.602	132.7	4.818	10.66	29.39	0
7/3/2018 1:15	2.478	161.9	18.37	10.67	29.39	0
7/3/2018 1:30	2.193	128.8	10.71	10.77	29.39	0
7/3/2018 1:45	3.939	126.2	3.744	10.52	29.39	0
7/3/2018 2:00	5.264	140.9	6.451	10.61	29.38	0
7/3/2018 2:15	4.617	135.8	5.381	10.52	29.38	0
7/3/2018 2:30	4.672	157.3	6.571	10.27	29.38	0
7/3/2018 2:45	4.379	142.1	9.09	10.06	29.38	0
7/3/2018 3:00	2.489	111.8	11.93	9.76	29.38	0
7/3/2018 3:15	3.57	148.7	19.13	9.71	29.38	0
7/3/2018 3:30	4.197	145.6	10.77	9.8	29.38	0
7/3/2018 3:45	3.798	168.6	11.62	9.64	29.38	0
7/3/2018 4:00	2.628	162.7	10.72	9.62	29.37	0
7/3/2018 4:15	2.128	133	14.83	9.32	29.37	0
7/3/2018 4:30	0.734	30.08	8.99	9.43	29.37	0
7/3/2018 4:45	4.813	123.4	31.03	9.46	29.37	0
7/3/2018 5:00	4.414	124.8	5.724	9.29	29.38	0
7/3/2018 5:15	4.574	142.1	5.394	9.5	29.38	0
7/3/2018 5:30	3.922	158.1	14.78	9.76	29.38	0
7/3/2018 5:45	3.801	170.3	14.01	9.82	29.38	0
7/3/2018 6:00	2.738	128.8	13.16	10.62	29.38	0
7/3/2018 6:15	3.445	155.5	37.28	10.99	29.38	0
7/3/2018 6:30	3.679	196	11.88	10.82	29.38	0
7/3/2018 6:45	3.275	214.1	19.61	11.24	29.38	0
7/3/2018 7:00	3.305	229	14.58	11.44	29.37	0
7/3/2018 7:15	2.633	215.5	27.86	11.84	29.37	0
7/3/2018 7:30	2.98	221.1	17.25	12.07	29.37	0
7/3/2018 7:45	2.87	228.5	21.12	12.24	29.37	0
7/3/2018 8:00	3.229	197.2	18.11	12.85	29.36	0
7/3/2018 8:15	2.522	192.2	38.9	13.49	29.36	0
7/3/2018 8:30	2.333	239.6	32.66	13.89	29.36	0
7/3/2018 8:45	2.715	192.4	60.34	14.37	29.36	0
7/3/2018 9:00	3.631	244.7	37.68	14.46	29.34	0
7/3/2018 9:15	3.983	245.7	35.45	14.88	29.34	0

7/3/2018 9:30	5.267	255.2	22.28	15.47	29.34	0
7/3/2018 9:45	3.511	297.4	37.03	16.01	29.34	0
7/3/2018 10:00	4.461	239.2	32.55	16.19	29.33	0
7/3/2018 10:15	4.151	294.8	37.22	16.52	29.33	0
7/3/2018 10:30	6.863	300.2	22.48	17.26	29.33	0
7/3/2018 10:45	6.35	327.6	38.53	17.47	29.33	0
7/3/2018 11:00	5.985	311.1	24.65	17.28	29.31	0
7/3/2018 11:15	6.186	311.6	20.99	18.23	29.31	0
7/3/2018 11:30	7.871	303.8	26.09	18.17	29.31	0
7/3/2018 11:45	8.22	288.6	25.58	18.81	29.31	0
7/3/2018 12:00	7.12	289.7	26.32	18.87	29.29	0
7/3/2018 12:15	7.186	288.6	23.68	18.88	29.29	0
7/3/2018 12:30	7.122	286.5	22.08	19.29	29.29	0
7/3/2018 12:45	6.634	338.7	29.27	19.87	29.29	0
7/3/2018 13:00	6.137	331.7	36.95	19.5	29.3	0
7/3/2018 13:15	4.517	335.8	46.25	19.72	29.3	0
7/3/2018 13:30	5.052	46.91	35.33	19.76	29.3	0
7/3/2018 13:45	4.292	359.1	35.26	20.37	29.3	0
7/3/2018 14:00	7.526	296.6	19.89	20.53	29.27	0
7/3/2018 14:15	4.743	312.5	45.92	20.65	29.27	0
7/3/2018 14:30	6.2	327.8	54.57	20.93	29.27	0
7/3/2018 14:45	3.724	42.51	41.7	20.83	29.27	0
7/3/2018 15:00	8.41	319.7	28.52	21.45	29.26	0
7/3/2018 15:15	6.636	357.4	33.29	21.65	29.26	0
7/3/2018 15:30	7.06	28.69	52.8	21.89	29.26	0
7/3/2018 15:45	5.606	25.74	30.78	21.76	29.26	0
7/3/2018 16:00	8.5	20.69	17.07	21.6	29.23	0
7/3/2018 16:15	5.444	25.59	24.74	21.66	29.23	0
7/3/2018 16:30	7.415	5.947	21.95	21.67	29.23	0
7/3/2018 16:45	7.156	350.9	20.49	21.67	29.23	0
7/3/2018 17:00	6.354	358.8	29.15	21.58	29.2	0
7/3/2018 17:15	7.517	15.33	22.74	21.61	29.2	0
7/3/2018 17:30	7.4	356.5	22.48	21.98	29.2	0
7/3/2018 17:45	8.91	321.1	14.29	22.02	29.2	0
7/3/2018 18:00	8.92	334.2	19.52	21.71	29.19	0
7/3/2018 18:15	8.94	331.1	9.12	21.61	29.19	0
7/3/2018 18:30	7.427	340.1	18.2	21.53	29.19	0
7/3/2018 18:45	7.987	333.7	16.41	21.37	29.19	0
7/3/2018 19:00	8.86	329.8	11.97	21.02	29.19	0
7/3/2018 19:15	8.53	330.4	9.06	20.59	29.19	0
7/3/2018 19:30	6.874	359.3	14.86	20.06	29.19	0
7/3/2018 19:45	8.5	14.75	10.85	19.57	29.19	0
7/3/2018 20:00	7.711	20.86	13.13	19.19	29.19	0
7/3/2018 20:15	7.003	31.52	15.82	18.8	29.19	0
7/3/2018 20:30	4.026	6.659	22.29	18.47	29.19	0
7/3/2018 20:45	5.479	346.9	15.55	18.53	29.19	0
7/3/2018 21:00	6.313	33.25	21.51	18.23	29.18	0

7/3/2018 21:15	6.79	35.6	11.47	17.8	29.18	0
7/3/2018 21:30	7.435	37.18	11.94	17.6	29.18	0
7/3/2018 21:45	8.97	35.81	7.375	17.23	29.18	0
7/3/2018 22:00	8.68	34.82	7.77	16.95	29.19	0
7/3/2018 22:15	9.26	38.31	8.99	16.75	29.19	0
7/3/2018 22:30	9.14	29.28	9.4	16.81	29.19	0
7/3/2018 22:45	8.32	32.27	9.37	16.22	29.19	0
7/3/2018 23:00	9.5	27.9	8.37	15.82	29.17	0
7/3/2018 23:15	9.68	30.17	7.696	15.39	29.17	0
7/3/2018 23:30	10.61	32.73	7.212	15.24	29.17	0
7/3/2018 23:45	11.89	29.25	10.04	15.36	29.17	0
7/4/2018 0:00	10.86	34.25	9.02	15	29.18	0
7/4/2018 0:15	11.01	33.37	8.76	14.46	29.18	0
7/4/2018 0:30	10.97	33.81	8.08	14.1	29.18	0
7/4/2018 0:45	10.84	32.19	9.05	13.72	29.18	0
7/4/2018 1:00	10.43	34.48	8.65	13.42	29.15	0
7/4/2018 1:15	10.54	31.92	8.43	13.18	29.15	0
7/4/2018 1:30	11.27	33.4	8.68	13.02	29.15	0
7/4/2018 1:45	9.85	32.89	7.773	12.84	29.15	0
7/4/2018 2:00	9.26	30.59	7.456	12.59	29.13	0
7/4/2018 2:15	8.77	34.66	6.458	12.38	29.13	0
7/4/2018 2:30	8.6	30.81	8.72	12.13	29.13	0
7/4/2018 2:45	9.57	31.26	7.49	12.12	29.13	0
7/4/2018 3:00	10.51	35.23	8.48	11.95	29.14	0
7/4/2018 3:15	10.45	30.98	9.53	12.12	29.14	0
7/4/2018 3:30	10.12	29.74	9.5	12.07	29.14	0
7/4/2018 3:45	11.05	27.08	9.22	12.01	29.14	0
7/4/2018 4:00	11.45	24.36	9.04	12.27	29.13	0
7/4/2018 4:15	10.73	21.8	8.99	12.37	29.13	0
7/4/2018 4:30	10.62	24.22	11.18	12.11	29.13	0
7/4/2018 4:45	9.84	31.44	15.19	11.97	29.13	0
7/4/2018 5:00	11.21	28.6	8.47	12.03	29.12	0
7/4/2018 5:15	11.37	27.65	6.757	12.38	29.12	0
7/4/2018 5:30	12.04	22.84	9.73	12.86	29.12	0
7/4/2018 5:45	9.96	23.58	8.9	13.73	29.12	0
7/4/2018 6:00	9.27	24.35	10.46	14.36	29.14	0
7/4/2018 6:15	9.67	25.06	13.36	14.92	29.14	0
7/4/2018 6:30	9.67	31.01	12.94	15.31	29.14	0
7/4/2018 6:45	9.46	30.18	25	16.01	29.14	0
7/4/2018 7:00	9.08	28.1	22.64	15.47	29.12	0
7/4/2018 7:15	9.02	30.79	24.88	16.27	29.12	0
7/4/2018 7:30	7.607	31.38	17.29	16.75	29.12	0
7/4/2018 7:45	6.697	43.58	22.67	18.09	29.12	0
7/4/2018 8:00	7.951	36.26	34.37	18.78	29.13	0
7/4/2018 8:15	8	44.96	31.64	20.35	29.13	0
7/4/2018 8:30	10.14	97.4	17.8	23.62	29.13	0
7/4/2018 8:45	12.65	104.2	16.66	23.83	29.13	0

7/4/2018 9:00	9.03	96.2	22.88	24.04	29.12	0
7/4/2018 9:15	10.52	99.3	17.55	24.36	29.12	0
7/4/2018 9:30	9.35	94.7	23.4	24.37	29.12	0
7/4/2018 9:45	9.22	103.1	20.55	24.99	29.12	0
7/4/2018 10:00	10.77	96.9	15.21	24.9	29.1	0
7/4/2018 10:15	13.4	96.7	15.97	25.56	29.1	0
7/4/2018 10:30	13.15	99.7	18.79	25.69	29.1	0
7/4/2018 10:45	12.23	114.5	14.55	26.33	29.1	0
7/4/2018 11:00	11.8	108.3	19.15	26.71	29.11	0
7/4/2018 11:15	10.46	109.6	14.31	26.65	29.11	0
7/4/2018 11:30	10.63	97.2	27.83	27.55	29.11	0
7/4/2018 11:45	10.64	105.8	22.32	27.69	29.11	0
7/4/2018 12:00	12.09	106.9	25.11	27.45	29.09	0
7/4/2018 12:15	12.29	115	17.85	27.32	29.09	0
7/4/2018 12:30	10.01	99.7	18.18	27.24	29.09	0
7/4/2018 12:45	9.54	94.4	17.46	27.76	29.09	0
7/4/2018 13:00	13.62	101.6	16.37	27.64	29.11	0
7/4/2018 13:15	11.97	112	17.68	28.04	29.11	0
7/4/2018 13:30	13.35	129.7	18.07	27.64	29.11	0
7/4/2018 13:45	11.29	109.6	18.86	27.28	29.11	0
7/4/2018 14:00	9.2	105.7	21.07	26.91	29.1	0
7/4/2018 14:15	8.3	101.3	16.05	26.61	29.1	0
7/4/2018 14:30	7.642	108.8	16.63	26.65	29.1	0
7/4/2018 14:45	7.614	124	14.55	26.85	29.1	0
7/4/2018 15:00	6.51	102.8	22.09	26.73	29.1	0
7/4/2018 15:15	6.279	108.1	13.01	26.73	29.1	0
7/4/2018 15:30	6.443	114.1	13.63	26.92	29.1	0
7/4/2018 15:45	6.451	121.7	13.79	26.95	29.1	0
7/4/2018 16:00	6.457	123.1	11.63	26.81	29.12	0
7/4/2018 16:15	7.156	133.9	13.75	26.77	29.12	0
7/4/2018 16:30	6.459	137.9	13.46	26.73	29.12	0
7/4/2018 16:45	11.01	148	10.21	26.64	29.12	0
7/4/2018 17:00	7.451	111.3	19.08	26.49	29.14	0
7/4/2018 17:15	6.112	107.5	10.48	26.15	29.14	0
7/4/2018 17:30	7.28	114.7	12.68	26.29	29.14	0
7/4/2018 17:45	7.248	126.3	10.78	26.3	29.14	0
7/4/2018 18:00	7.404	115.8	10.65	26.1	29.15	0
7/4/2018 18:15	6.566	109.5	11.63	25.99	29.15	0
7/4/2018 18:30	6.48	127.8	12.79	25.93	29.15	0
7/4/2018 18:45	4.741	199.4	43.67	25.62	29.15	0
7/4/2018 19:00	2.254	163.4	48.09	25.52	29.15	0
7/4/2018 19:15	2.974	118	4.997	25.69	29.15	0
7/4/2018 19:30	4.237	148.9	19.57	25.51	29.15	0
7/4/2018 19:45	4.218	145.2	36.22	24.46	29.15	0
7/4/2018 20:00	5.775	116.6	31.63	23.63	29.13	0
7/4/2018 20:15	5.717	222.7	14.71	23.28	29.13	0
7/4/2018 20:30	5.873	273.3	21.44	22.31	29.13	0

7/4/2018 20:45	6.002	310.3	4.601	21.49	29.13	0
7/4/2018 21:00	5.293	283.8	26.73	21.69	29.17	0
7/4/2018 21:15	5.478	241.2	10.04	20.89	29.17	0
7/4/2018 21:30	4.391	242.2	7.242	20.91	29.17	0
7/4/2018 21:45	2.377	272.7	18.84	20.59	29.17	0
7/4/2018 22:00	4.741	250.8	15.56	20.48	29.18	0
7/4/2018 22:15	4.403	217.4	7.859	20.05	29.18	0
7/4/2018 22:30	5.865	214.4	8.46	19.46	29.18	0
7/4/2018 22:45	7.359	216.1	4.886	19.03	29.18	0
7/4/2018 23:00	7.946	221.9	5.054	18.72	29.21	0
7/4/2018 23:15	6.276	225.8	8	18.35	29.21	0
7/4/2018 23:30	2.175	216.6	24.83	17.96	29.21	0
7/4/2018 23:45	4.336	219.6	26.81	17.59	29.21	0
7/5/2018 0:00	4.301	205.9	10.97	17.37	29.19	0
7/5/2018 0:15	4.627	218.8	11.5	17.44	29.19	0
7/5/2018 0:30	3.348	225.6	12.07	17.41	29.19	0
7/5/2018 0:45	2.837	231.4	9.87	17.26	29.19	0
7/5/2018 1:00	5.723	227.2	10.47	17.03	29.2	0
7/5/2018 1:15	4.865	210.6	6.561	16.31	29.2	0
7/5/2018 1:30	4.365	219	4.696	16.33	29.2	0
7/5/2018 1:45	4.895	225.7	6.147	16.16	29.2	0
7/5/2018 2:00	3.842	208.2	9.08	16.02	29.2	0
7/5/2018 2:15	3.848	188.1	9.71	15.89	29.2	0
7/5/2018 2:30	3.158	160.1	12.38	15.54	29.2	0
7/5/2018 2:45	2.778	161.6	7.242	15.38	29.2	0
7/5/2018 3:00	2.44	143.1	6.416	15.23	29.23	0
7/5/2018 3:15	2.958	159.1	9.02	15.12	29.23	0
7/5/2018 3:30	2.498	155.2	0.559	15.09	29.23	0
7/5/2018 3:45	2.576	162.6	14.37	15.04	29.23	0
7/5/2018 4:00	3.052	179.1	8.07	15.14	29.23	0
7/5/2018 4:15	3.287	190.6	7.881	15.25	29.23	0
7/5/2018 4:30	2.62	168.9	12.58	15.1	29.23	0
7/5/2018 4:45	1.871	124.2	30.91	14.59	29.23	0
7/5/2018 5:00	1.38	83.8	3.664	14.55	29.23	0
7/5/2018 5:15	1.554	64.95	16.65	15.27	29.23	0
7/5/2018 5:30	2.346	9.7	10.3	15.47	29.23	0
7/5/2018 5:45	1.473	13.25	7.905	16.22	29.23	0
7/5/2018 6:00	0.726	20.7	2.146	16.39	29.23	0
7/5/2018 6:15	1.067	303.6	46.5	16.68	29.23	0
7/5/2018 6:30	1.424	332.6	24.44	16.91	29.23	0
7/5/2018 6:45	1.201	291.3	47.03	17.29	29.23	0
7/5/2018 7:00	3.74	256.9	15.7	16.97	29.23	0
7/5/2018 7:15	3.516	289.9	13.34	17.21	29.23	0
7/5/2018 7:30	2.47	299.7	20.15	17.94	29.23	0
7/5/2018 7:45	2.79	12.68	24.14	18.69	29.23	0
7/5/2018 8:00	1.941	24.53	39.18	19.64	29.22	0
7/5/2018 8:15	3.617	19.64	17.55	19.68	29.22	0

7/5/2018 8:30	6.5	24.82	19.68	20.23	29.22	0
7/5/2018 8:45	7.786	23.24	14.36	20.55	29.22	0
7/5/2018 9:00	7.056	19.77	13.36	20.88	29.23	0
7/5/2018 9:15	5.47	350.3	27.8	21.17	29.23	0
7/5/2018 9:30	3.443	332.3	23.95	21.47	29.23	0
7/5/2018 9:45	3.969	308.9	28.85	21.66	29.23	0
7/5/2018 10:00	4.352	320.8	62.55	21.86	29.22	0
7/5/2018 10:15	3.364	321.2	36.8	22.38	29.22	0
7/5/2018 10:30	2.789	10.62	33.84	23.22	29.22	0
7/5/2018 10:45	5.628	273	23.29	23.55	29.22	0
7/5/2018 11:00	2.486	298.9	51.38	23.51	29.23	0
7/5/2018 11:15	7.052	240.3	23.41	23.86	29.23	0
7/5/2018 11:30	5.3	254.2	42.78	23.59	29.23	0
7/5/2018 11:45	5.385	257.7	31.21	23.97	29.23	0
7/5/2018 12:00	6.043	287.1	31.41	24.53	29.22	0
7/5/2018 12:15	5.493	287.8	40.29	24.51	29.22	0
7/5/2018 12:30	5.123	255.6	21.26	24.75	29.22	0
7/5/2018 12:45	4.437	243.1	27.27	25.06	29.22	0
7/5/2018 13:00	4.957	280.8	33.51	25.49	29.23	0
7/5/2018 13:15	5.122	221.5	34.33	25.59	29.23	0
7/5/2018 13:30	3.954	277.8	44.34	26.11	29.23	0
7/5/2018 13:45	4.86	274.9	27.36	26.43	29.23	0
7/5/2018 14:00	5.564	188.4	18.39	26.38	29.23	0
7/5/2018 14:15	5.165	199.2	29.91	26.56	29.23	0
7/5/2018 14:30	3.533	239.2	64.45	26.96	29.23	0
7/5/2018 14:45	4.702	167.7	78.47	27.6	29.23	0
7/5/2018 15:00	6.416	260.4	24.44	27.58	29.23	0
7/5/2018 15:15	7.432	254.5	19.29	27.53	29.23	0
7/5/2018 15:30	9.87	237.9	19.25	27.48	29.23	0
7/5/2018 15:45	9.82	247.7	19.67	27.52	29.23	0
7/5/2018 16:00	12.19	241.2	11.51	27.15	29.23	0
7/5/2018 16:15	10.52	251.3	12.48	27.42	29.23	0
7/5/2018 16:30	13.73	246.2	11.93	27.02	29.23	0
7/5/2018 16:45	10.6	247.8	10.45	26.95	29.23	0
7/5/2018 17:00	9.47	238.1	15.04	27.03	29.26	0
7/5/2018 17:15	6.804	215.6	13.15	27.03	29.26	0
7/5/2018 17:30	5.955	245.5	36.11	26.97	29.26	0
7/5/2018 17:45	9.14	242.7	12.6	26.75	29.26	0
7/5/2018 18:00	7.456	239.6	9.96	25.89	29.26	0
7/5/2018 18:15	9.89	265.5	13.17	25.32	29.26	0
7/5/2018 18:30	12.4	259.4	7.757	24.48	29.26	0
7/5/2018 18:45	12.8	252	8.64	23.73	29.26	0
7/5/2018 19:00	8.96	267.8	9.61	23.17	29.29	0
7/5/2018 19:15	9.33	255	10.33	22.77	29.29	0
7/5/2018 19:30	7.074	244.4	11.3	22.35	29.29	0
7/5/2018 19:45	5.851	225.7	12.97	21.91	29.29	0
7/5/2018 20:00	6.656	218.6	10.1	21.76	29.3	0

7/5/2018 20:15	4.674	182.8	21.44	21.22	29.3	0
7/5/2018 20:30	4.882	160.1	9.35	20.56	29.3	0
7/5/2018 20:45	3.325	129.5	10.56	19.86	29.3	0
7/5/2018 21:00	4.165	152.9	13.91	20.14	29.3	0
7/5/2018 21:15	6.843	150.6	3.883	20.03	29.3	0
7/5/2018 21:30	7.247	143.8	9.31	20.1	29.3	0
7/5/2018 21:45	6.375	132.8	7.81	20.1	29.3	0
7/5/2018 22:00	5.908	129.9	10.38	19.99	29.32	0
7/5/2018 22:15	6.653	156.3	16.58	19.91	29.32	0
7/5/2018 22:30	5.626	147.6	25.47	19.64	29.32	0
7/5/2018 22:45	3.226	122.2	9.37	19.92	29.32	0
7/5/2018 23:00	1.065	159.5	58.12	20.22	29.34	0
7/5/2018 23:15	0.775	177.3	8.19	19.58	29.34	0
7/5/2018 23:30	0.781	154.7	45.25	19.72	29.34	0
7/5/2018 23:45	3.586	254.9	14.59	19.7	29.34	0
7/6/2018 0:00	3.829	216.6	39.63	19.11	29.34	0
7/6/2018 0:15	6.015	182.1	22.71	17.89	29.34	0
7/6/2018 0:30	7.593	150.1	17.35	16.85	29.34	0.02
7/6/2018 0:45	5.004	120.5	8.51	16.11	29.34	0.01
7/6/2018 1:00	4.497	119.4	13.71	15.64	29.35	0.01
7/6/2018 1:15	3.198	85.1	17.27	15.22	29.35	0
7/6/2018 1:30	5.858	120.6	6.929	15.44	29.35	0
7/6/2018 1:45	6.665	119.8	11.47	15.78	29.35	0
7/6/2018 2:00	4.658	105.4	12.74	15.42	29.33	0
7/6/2018 2:15	5.208	116.5	13.41	15.78	29.33	0
7/6/2018 2:30	2.863	90.9	17.76	15.34	29.33	0
7/6/2018 2:45	1.466	64.21	4.665	15.51	29.33	0
7/6/2018 3:00	2.682	106.4	10.59	16	29.31	0
7/6/2018 3:15	2.402	94.8	5.577	16.11	29.31	0
7/6/2018 3:30	2.863	103.9	8.41	16.02	29.31	0
7/6/2018 3:45	2.559	110.4	5.391	16.09	29.31	0
7/6/2018 4:00	1.495	81.9	61.61	15.82	29.32	0
7/6/2018 4:15	0.511	12.96	6.668	15.36	29.32	0
7/6/2018 4:30	0.438	19.64	0.673	15.91	29.32	0
7/6/2018 4:45	0.401	19.85	1.229	16.1	29.32	0
7/6/2018 5:00	0.176	19.65	1.328	16	29.33	0
7/6/2018 5:15	3.309	238.5	47.22	15.14	29.33	0
7/6/2018 5:30	5.525	218.2	7.554	14.89	29.33	0
7/6/2018 5:45	5.133	215.1	3.822	15.22	29.33	0
7/6/2018 6:00	5.012	211	5.753	15.46	29.34	0
7/6/2018 6:15	4.221	210.6	7.006	15.63	29.34	0
7/6/2018 6:30	4.038	201.2	8.87	16.08	29.34	0
7/6/2018 6:45	3.052	202.3	10.85	16.48	29.34	0
7/6/2018 7:00	2.4	160.4	14.81	16.56	29.34	0
7/6/2018 7:15	3.378	104.9	11.46	17.14	29.34	0
7/6/2018 7:30	2.863	125.5	19.37	18.13	29.34	0
7/6/2018 7:45	3.937	151.8	11.3	17.82	29.34	0

7/6/2018 8:00	2.628	158.9	22.1	18.05	29.34	0
7/6/2018 8:15	2.692	230.2	26.48	18.41	29.34	0
7/6/2018 8:30	2.723	247.7	71.08	18.88	29.34	0
7/6/2018 8:45	1.095	6.887	8.54	19.42	29.34	0
7/6/2018 9:00	0.68	359.9	9.39	19.88	29.32	0
7/6/2018 9:15	1.89	7.476	9.05	19.83	29.32	0
7/6/2018 9:30	3.515	288.5	57.23	20.48	29.32	0
7/6/2018 9:45	4.275	331.6	39.2	20.78	29.32	0
7/6/2018 10:00	5.13	261.3	31.01	20.97	29.33	0
7/6/2018 10:15	4.853	264.6	44.04	21.23	29.33	0
7/6/2018 10:30	5.822	278.6	42.24	21.51	29.33	0
7/6/2018 10:45	6.727	276.9	24.1	21.66	29.33	0
7/6/2018 11:00	8.83	280.5	17.54	21.74	29.32	0
7/6/2018 11:15	8.38	285.7	16.04	22.13	29.32	0
7/6/2018 11:30	10.04	270.7	17.44	21.73	29.32	0
7/6/2018 11:45	9.74	279.7	11.78	21.65	29.32	0
7/6/2018 12:00	9.18	279.1	10.98	21.06	29.32	0
7/6/2018 12:15	8.89	290	9.92	21.6	29.32	0
7/6/2018 12:30	9.37	285.1	22.5	21.73	29.32	0
7/6/2018 12:45	9.37	264.7	28.38	22.54	29.32	0
7/6/2018 13:00	12.06	282.3	11.29	22.26	29.3	0
7/6/2018 13:15	9.52	266	26.83	22.89	29.3	0
7/6/2018 13:30	11.16	262	17.91	22.01	29.3	0
7/6/2018 13:45	12.28	291.2	11.77	22.21	29.3	0
7/6/2018 14:00	9.81	268.3	18.42	22.45	29.31	0
7/6/2018 14:15	7.943	247.4	25.87	22.52	29.31	0
7/6/2018 14:30	4.696	211.5	51.03	21.95	29.31	0
7/6/2018 14:45	5.655	289	53.6	22.29	29.31	0
7/6/2018 15:00	9.23	253.5	17.53	23.03	29.3	0
7/6/2018 15:15	9.46	250.2	15.17	22.03	29.3	0
7/6/2018 15:30	9.46	243.5	21.9	21.89	29.3	0
7/6/2018 15:45	2.942	322.7	21.32	22.27	29.3	0
7/6/2018 16:00	3.176	319.9	22.88	21.39	29.28	0.01
7/6/2018 16:15	5.311	284.9	33.26	21.95	29.28	0
7/6/2018 16:30	9.4	231.3	15.69	21.79	29.28	0
7/6/2018 16:45	9.14	233.9	12.7	22.2	29.28	0
7/6/2018 17:00	8.09	204.4	27.52	21.59	29.29	0
7/6/2018 17:15	6.798	174.3	21.5	20.56	29.29	0
7/6/2018 17:30	9.33	189	6.774	19.83	29.29	0
7/6/2018 17:45	9.74	222.3	13.58	19.15	29.29	0.02
7/6/2018 18:00	14.65	205.4	11.16	17.43	29.32	0
7/6/2018 18:15	7.936	194	18.82	16.14	29.32	0.02
7/6/2018 18:30	7.304	187.1	21.08	15.84	29.32	0.01
7/6/2018 18:45	2.911	139.4	27.33	16.08	29.32	0
7/6/2018 19:00	3.035	119.2	19.28	16.05	29.3	0
7/6/2018 19:15	3.594	111.2	11.26	16.25	29.3	0
7/6/2018 19:30	5.118	136.2	15.36	16.13	29.3	0

7/6/2018 19:45	4.267	179	14.15	16.35	29.3	0
7/6/2018 20:00	5.407	202.9	9.54	16.65	29.32	0
7/6/2018 20:15	4.946	208.7	13.5	16.6	29.32	0
7/6/2018 20:30	5.972	231.6	16.9	16.64	29.32	0
7/6/2018 20:45	6.954	239.7	9.12	16.49	29.32	0
7/6/2018 21:00	5.954	254.7	8.82	16.31	29.35	0
7/6/2018 21:15	5.585	242.9	10.26	16.35	29.35	0
7/6/2018 21:30	6.068	227.1	10.01	16.12	29.35	0
7/6/2018 21:45	7.197	227.9	10.26	15.98	29.35	0
7/6/2018 22:00	6.74	224.3	8.94	15.75	29.35	0
7/6/2018 22:15	7.616	237.2	12.61	15.65	29.35	0
7/6/2018 22:30	6.067	231.2	10.28	15.48	29.35	0
7/6/2018 22:45	6.599	229.1	8.67	15.36	29.35	0
7/6/2018 23:00	7.448	220.7	11.27	15.12	29.37	0
7/6/2018 23:15	3.989	226.1	15.19	15.05	29.37	0
7/6/2018 23:30	4.432	202	34.61	15.08	29.37	0
7/6/2018 23:45	4.615	203.8	10.83	14.97	29.37	0
7/7/2018 0:00	3.89	188.5	20.39	14.82	29.36	0
7/7/2018 0:15	3.079	142.2	11.15	14.22	29.36	0
7/7/2018 0:30	5.289	140.7	7.131	14.16	29.36	0
7/7/2018 0:45	5.589	142.1	7.617	14.11	29.36	0
7/7/2018 1:00	6.047	141.7	6.25	14.13	29.37	0
7/7/2018 1:15	6.072	157.1	8.96	13.92	29.37	0
7/7/2018 1:30	6.697	167.3	6.845	14.26	29.37	0
7/7/2018 1:45	7.072	162	6.525	14.3	29.37	0
7/7/2018 2:00	7.007	161.4	5.195	14.35	29.38	0
7/7/2018 2:15	6.114	157.3	4.715	14.02	29.38	0
7/7/2018 2:30	5.894	159	4.987	14.01	29.38	0
7/7/2018 2:45	7.365	162.6	4.985	14.1	29.38	0
7/7/2018 3:00	6.708	156.2	5.087	14.09	29.38	0
7/7/2018 3:15	5.551	156.8	5.265	14.07	29.38	0
7/7/2018 3:30	5.487	163.1	6.374	14.04	29.38	0
7/7/2018 3:45	4.97	174.9	8.54	14.06	29.38	0
7/7/2018 4:00	4.038	171	6.092	14.03	29.39	0
7/7/2018 4:15	2.559	128.2	54.56	14.09	29.39	0
7/7/2018 4:30	2.595	163.2	4.089	14.18	29.39	0
7/7/2018 4:45	2.505	154.6	5.656	14.17	29.39	0
7/7/2018 5:00	2.476	161	6.839	14.27	29.39	0
7/7/2018 5:15	2.151	165.4	74.01	14.24	29.39	0
7/7/2018 5:30	3.731	181.3	10.2	14.24	29.39	0
7/7/2018 5:45	2.612	129.8	52.42	14.27	29.39	0
7/7/2018 6:00	1.407	4.645	78.81	14.39	29.4	0
7/7/2018 6:15	1.71	236.7	15.35	14.26	29.4	0
7/7/2018 6:30	3.186	215.7	24.65	14.19	29.4	0
7/7/2018 6:45	4.218	201.5	7.188	14.19	29.4	0
7/7/2018 7:00	3.107	193.3	11.66	14.25	29.42	0
7/7/2018 7:15	1.96	216	18.22	14.4	29.42	0

7/7/2018 7:30	1.698	175	18.17	14.72	29.42	0
7/7/2018 7:45	3.39	134.6	17.94	14.87	29.42	0
7/7/2018 8:00	3.021	121.9	60.59	14.79	29.4	0
7/7/2018 8:15	2.839	147.2	33.87	15.17	29.4	0
7/7/2018 8:30	5.104	188.2	13.06	15.26	29.4	0
7/7/2018 8:45	5.732	182.8	16.5	15.65	29.4	0
7/7/2018 9:00	5.466	189.6	16.95	15.47	29.42	0
7/7/2018 9:15	6.225	196.3	14.87	15.39	29.42	0
7/7/2018 9:30	5.886	169.1	20.15	15.42	29.42	0
7/7/2018 9:45	5.172	142.3	46.85	15.26	29.42	0
7/7/2018 10:00	1.093	33.17	15.91	15.74	29.4	0
7/7/2018 10:15	1.168	44.59	9.27	15.88	29.4	0
7/7/2018 10:30	1.818	47.55	13.2	15.97	29.4	0
7/7/2018 10:45	4.959	82.5	13.22	16.69	29.4	0
7/7/2018 11:00	3.039	105.2	30.47	16.62	29.4	0
7/7/2018 11:15	3.129	82.5	20.55	16.35	29.4	0
7/7/2018 11:30	3.536	84.4	16.8	16.58	29.4	0
7/7/2018 11:45	3.611	52.39	14.38	17.21	29.4	0
7/7/2018 12:00	3.272	64.46	21.6	17.22	29.39	0
7/7/2018 12:15	2.55	44	35.77	17.43	29.39	0
7/7/2018 12:30	2.697	60.82	23.56	17.55	29.39	0
7/7/2018 12:45	1.662	29.89	30.72	17.82	29.39	0
7/7/2018 13:00	2.949	56.65	29.09	18.84	29.39	0
7/7/2018 13:15	4.251	16.92	42.97	19.07	29.39	0
7/7/2018 13:30	2.243	121.4	47.92	19.1	29.39	0
7/7/2018 13:45	3.333	288.4	83.4	20.37	29.39	0
7/7/2018 14:00	3.341	234.7	31.04	19.82	29.38	0
7/7/2018 14:15	2.598	250.4	25	19.5	29.38	0
7/7/2018 14:30	1.402	306.2	67.47	20.4	29.38	0
7/7/2018 14:45	2.938	278.5	28.08	20.36	29.38	0
7/7/2018 15:00	3.461	253.9	31.31	20.64	29.38	0
7/7/2018 15:15	2.323	253.7	67.89	20.64	29.38	0
7/7/2018 15:30	2.196	253	56.82	20.47	29.38	0
7/7/2018 15:45	3.289	358.6	24.74	20.19	29.38	0
7/7/2018 16:00	5.064	317.1	19.36	20.56	29.34	0
7/7/2018 16:15	4.232	302.1	16.79	21	29.34	0
7/7/2018 16:30	2.829	315.3	37.86	21.55	29.34	0
7/7/2018 16:45	5.651	283.1	38.89	21.53	29.34	0
7/7/2018 17:00	6.455	266.6	23.78	21.36	29.33	0
7/7/2018 17:15	6.61	252	17.32	21.38	29.33	0
7/7/2018 17:30	5.054	293	22.62	21.53	29.33	0
7/7/2018 17:45	8.18	278.4	15.94	21.46	29.33	0
7/7/2018 18:00	7.325	294.4	20.02	21.26	29.32	0
7/7/2018 18:15	6.974	313.5	11.87	21.14	29.32	0
7/7/2018 18:30	5.621	321.7	10.67	20.99	29.32	0
7/7/2018 18:45	3.743	298.4	16.74	21.12	29.32	0
7/7/2018 19:00	5.185	268.8	12.61	20.9	29.34	0

7/7/2018 19:15	4.966	281.7	11.37	20.68	29.34	0
7/7/2018 19:30	4.972	289.8	7	20.37	29.34	0
7/7/2018 19:45	4.913	292.8	4.737	19.98	29.34	0
7/7/2018 20:00	3.974	302.9	2.27	19.59	29.33	0
7/7/2018 20:15	4.101	306.8	6.833	19.22	29.33	0
7/7/2018 20:30	2.995	7.201	17.67	17.96	29.33	0
7/7/2018 20:45	3.09	24.05	9.75	17.45	29.33	0
7/7/2018 21:00	2.541	30.82	8.69	17.17	29.32	0
7/7/2018 21:15	0.642	36.75	0.63	16.83	29.32	0
7/7/2018 21:30	1.302	36.07	0.102	16.8	29.32	0
7/7/2018 21:45	1.878	36.27	0.678	16.64	29.32	0
7/7/2018 22:00	3.35	34.52	7.488	16.25	29.33	0
7/7/2018 22:15	3.765	31.45	6.754	15.96	29.33	0
7/7/2018 22:30	4.064	33.39	9.59	15.32	29.33	0
7/7/2018 22:45	3.333	47.09	7.071	14.64	29.33	0
7/7/2018 23:00	5.593	50.28	8.58	14.57	29.33	0
7/7/2018 23:15	7.643	41.71	8.35	14.67	29.33	0
7/7/2018 23:30	10.42	36.59	6.723	14.83	29.33	0
7/7/2018 23:45	10.03	29.72	7.527	14.51	29.33	0
7/8/2018 0:00	10	28.95	8.61	14.22	29.32	0
7/8/2018 0:15	11.17	29.45	7.839	13.94	29.32	0
7/8/2018 0:30	13.03	26.49	6.499	13.89	29.32	0
7/8/2018 0:45	12.8	31.16	6.78	13.66	29.32	0
7/8/2018 1:00	10.32	41.33	7.501	13.48	29.3	0
7/8/2018 1:15	9.65	39.79	7.619	13.24	29.3	0
7/8/2018 1:30	9.83	37.89	7.57	13.37	29.3	0
7/8/2018 1:45	8.48	32.44	7.962	13.01	29.3	0
7/8/2018 2:00	6.708	24.82	10.38	12.71	29.31	0
7/8/2018 2:15	4.743	21.34	8.77	12.54	29.31	0
7/8/2018 2:30	3.775	25.79	2.87	12.53	29.31	0
7/8/2018 2:45	3.187	39.94	7.669	12.32	29.31	0
7/8/2018 3:00	3.796	51.12	5.691	11.86	29.29	0
7/8/2018 3:15	3.444	67.72	9.7	12.15	29.29	0
7/8/2018 3:30	4.672	41.12	11.33	12.47	29.29	0
7/8/2018 3:45	3.909	28.58	8.51	11.81	29.29	0
7/8/2018 4:00	3.553	41.97	3.968	11.65	29.3	0
7/8/2018 4:15	3.332	48.68	9.1	11.64	29.3	0
7/8/2018 4:30	4.13	26.99	6.692	11.79	29.3	0
7/8/2018 4:45	3.018	29.71	6.845	11.73	29.3	0
7/8/2018 5:00	3.032	17.14	7.216	11.8	29.3	0
7/8/2018 5:15	2.679	7.12	7.749	12.22	29.3	0
7/8/2018 5:30	2.555	0.159	5.657	13.07	29.3	0
7/8/2018 5:45	1.088	16.34	20.57	13.4	29.3	0
7/8/2018 6:00	1.78	44.8	19.2	13.47	29.28	0
7/8/2018 6:15	2.521	28.94	5.272	13.14	29.28	0
7/8/2018 6:30	1.705	24.61	8.54	13.95	29.28	0
7/8/2018 6:45	1.968	34.86	14.9	14.48	29.28	0

7/8/2018 7:00	1.388	328.4	40.53	15.26	29.27	0
7/8/2018 7:15	1.65	301.1	22.13	15.72	29.27	0
7/8/2018 7:30	1.825	23.63	50.82	16.21	29.27	0
7/8/2018 7:45	2.383	69.01	16.72	16.72	29.27	0
7/8/2018 8:00	2.053	32.68	23.88	17.14	29.26	0
7/8/2018 8:15	2.706	302	28.53	17.53	29.26	0
7/8/2018 8:30	2.436	320.4	27.48	17.71	29.26	0
7/8/2018 8:45	2.439	339.5	26.91	18.05	29.26	0
7/8/2018 9:00	4.135	293.9	15.2	18.37	29.27	0
7/8/2018 9:15	2.923	321.1	29.87	19.08	29.27	0
7/8/2018 9:30	3.544	1.184	36.06	19.84	29.27	0
7/8/2018 9:45	4.781	324.3	30.08	19.94	29.27	0
7/8/2018 10:00	5.981	336.2	41.43	20.51	29.24	0
7/8/2018 10:15	8.51	21.17	15.82	21.28	29.24	0
7/8/2018 10:30	8.76	19.47	25.41	21.54	29.24	0
7/8/2018 10:45	8.29	31.92	16.24	21.63	29.24	0
7/8/2018 11:00	8.58	326.3	25.41	22.46	29.26	0
7/8/2018 11:15	8.41	347.8	26.59	22.32	29.26	0
7/8/2018 11:30	8.15	351.1	24.5	22.7	29.26	0
7/8/2018 11:45	9.82	31.61	10.83	23.05	29.26	0
7/8/2018 12:00	9.18	26.43	21.94	22.89	29.24	0
7/8/2018 12:15	6.465	9.4	24.16	23.43	29.24	0
7/8/2018 12:30	6.064	3.092	25.36	23.39	29.24	0
7/8/2018 12:45	6.623	18.26	26.33	24.4	29.24	0
7/8/2018 13:00	6.647	9.99	29.18	24.39	29.22	0
7/8/2018 13:15	6.586	18.83	30.51	24.26	29.22	0
7/8/2018 13:30	8.78	326.1	26.47	24.43	29.22	0
7/8/2018 13:45	10.51	307.7	13.81	24.42	29.22	0
7/8/2018 14:00	9.25	307	14.36	24.61	29.21	0
7/8/2018 14:15	8.12	313.6	16.54	24.92	29.21	0
7/8/2018 14:30	9.21	332.9	16.59	24.89	29.21	0
7/8/2018 14:45	8.37	332.1	21.24	24.79	29.21	0
7/8/2018 15:00	9.15	324.4	16.97	25.56	29.21	0
7/8/2018 15:15	9.09	330.8	19.4	25.36	29.21	0
7/8/2018 15:30	8.43	325.3	16.46	25.37	29.21	0
7/8/2018 15:45	8.11	339.2	19.03	25.36	29.21	0
7/8/2018 16:00	8.15	307.2	22.01	25.39	29.22	0
7/8/2018 16:15	7.887	311	18.69	25.71	29.22	0
7/8/2018 16:30	7.383	301.4	13.93	25.36	29.22	0
7/8/2018 16:45	7.434	322.6	13.11	25.52	29.22	0
7/8/2018 17:00	8.56	306.7	14.18	25.36	29.23	0
7/8/2018 17:15	8.85	307.2	15.02	25.35	29.23	0
7/8/2018 17:30	10.81	293.2	7.384	24.91	29.23	0
7/8/2018 17:45	9.66	302	12.24	24.41	29.23	0
7/8/2018 18:00	8.99	302.8	8.09	24.01	29.22	0
7/8/2018 18:15	8.94	304.6	9.61	24.03	29.22	0
7/8/2018 18:30	9.73	301.3	5.936	23.22	29.22	0

7/8/2018 18:45	7.537	307.1	6.456	22.95	29.22	0
7/8/2018 19:00	7.663	303.8	5.515	22.89	29.23	0
7/8/2018 19:15	5.938	301.2	7.115	22.82	29.23	0
7/8/2018 19:30	4.946	306.8	6.255	22.71	29.23	0
7/8/2018 19:45	4.593	306.5	5.291	22.07	29.23	0
7/8/2018 20:00	5.553	307.1	7.185	21.48	29.22	0
7/8/2018 20:15	3.353	324.5	13.47	21.12	29.22	0
7/8/2018 20:30	2.074	341.1	27.29	20.99	29.22	0
7/8/2018 20:45	0.563	5.244	11.05	20.61	29.22	0
7/8/2018 21:00	1.715	2.88	49.67	20.33	29.24	0
7/8/2018 21:15	3.343	296.7	7.08	20.09	29.24	0
7/8/2018 21:30	2.292	328	27.24	19.84	29.24	0
7/8/2018 21:45	3.726	35.3	13.93	19.36	29.24	0
7/8/2018 22:00	4.237	45.68	5.318	18.56	29.27	0
7/8/2018 22:15	4.856	53.57	6.219	18.44	29.27	0
7/8/2018 22:30	3.904	60.31	8.8	18.28	29.27	0
7/8/2018 22:45	3.012	75.38	12.33	18.25	29.27	0
7/8/2018 23:00	4.509	179.4	25.57	17.97	29.28	0
7/8/2018 23:15	4.716	147.3	7.664	17.52	29.28	0
7/8/2018 23:30	3.539	123.5	13.51	16.82	29.28	0
7/8/2018 23:45	4.632	141.9	6.399	16.68	29.28	0
7/9/2018 0:00	5.182	141	3.871	16.61	29.28	0
7/9/2018 0:15	4.685	138.1	4.506	16.4	29.28	0
7/9/2018 0:30	4.218	161.4	12.54	16.27	29.28	0
7/9/2018 0:45	3.723	172.9	8.14	15.99	29.28	0
7/9/2018 1:00	4.629	157.8	5.05	15.6	29.3	0
7/9/2018 1:15	4.4	167.5	11.91	15.6	29.3	0
7/9/2018 1:30	6.035	196.2	4.772	15.73	29.3	0
7/9/2018 1:45	5.47	186.9	7.015	15.32	29.3	0
7/9/2018 2:00	4.31	188	7.065	14.97	29.29	0
7/9/2018 2:15	3.955	182.7	3.352	14.67	29.29	0
7/9/2018 2:30	2.95	176	4.753	14.59	29.29	0
7/9/2018 2:45	3.55	184.9	11.08	14.45	29.29	0
7/9/2018 3:00	4.033	192.7	6.098	14.56	29.3	0
7/9/2018 3:15	5.37	208	12.97	14.22	29.3	0
7/9/2018 3:30	5.519	241.8	3.888	14.06	29.3	0
7/9/2018 3:45	4.176	239.1	3.085	13.82	29.3	0
7/9/2018 4:00	3.556	230.4	9.63	13.75	29.32	0
7/9/2018 4:15	2.731	188.9	14.45	12.99	29.32	0
7/9/2018 4:30	2.664	176.8	5.81	12.98	29.32	0
7/9/2018 4:45	3.458	188.1	7.201	13.17	29.32	0
7/9/2018 5:00	3.534	194.4	8.14	13.01	29.3	0
7/9/2018 5:15	2.812	198	3.942	12.96	29.3	0
7/9/2018 5:30	3.311	194.3	6.952	13.2	29.3	0
7/9/2018 5:45	4.393	197.6	7.672	13.27	29.3	0
7/9/2018 6:00	4.432	203.3	8.04	13.23	29.32	0
7/9/2018 6:15	4.52	202.3	8.07	13.18	29.32	0

7/9/2018 6:30	4.793	209.2	11.29	13.11	29.32	0
7/9/2018 6:45	4.738	203.1	9.41	13.16	29.32	0
7/9/2018 7:00	4.15	192.9	7.766	13.19	29.33	0
7/9/2018 7:15	3.317	179.8	20.18	13.64	29.33	0
7/9/2018 7:30	3.99	188.2	18.99	13.57	29.33	0
7/9/2018 7:45	3.168	207.5	16	13.64	29.33	0
7/9/2018 8:00	3.511	200.4	14.65	13.85	29.34	0
7/9/2018 8:15	3.943	186.6	24.52	13.98	29.34	0
7/9/2018 8:30	3.545	200.9	24.5	14.14	29.34	0
7/9/2018 8:45	4.605	197.5	18.53	14.09	29.34	0
7/9/2018 9:00	4.779	199.4	21.68	14.06	29.33	0
7/9/2018 9:15	3.638	217.3	27.52	14.05	29.33	0
7/9/2018 9:30	5.538	171.7	24.32	14.37	29.33	0
7/9/2018 9:45	5.745	193.8	10.21	14.41	29.33	0
7/9/2018 10:00	4.05	192.4	16.19	14.57	29.32	0
7/9/2018 10:15	4.766	179.2	27.67	14.66	29.32	0
7/9/2018 10:30	5.154	199	10.21	14.84	29.32	0
7/9/2018 10:45	5.163	196.9	13.5	15.04	29.32	0
7/9/2018 11:00	4.5	187.5	24.63	15.81	29.34	0
7/9/2018 11:15	5.328	185	20.92	16.31	29.34	0
7/9/2018 11:30	5.376	170.9	31.83	16.93	29.34	0
7/9/2018 11:45	6.622	187.9	15.16	17.25	29.34	0
7/9/2018 12:00	5.963	192.2	23.46	17.78	29.33	0
7/9/2018 12:15	5.727	186	25.08	18.49	29.33	0
7/9/2018 12:30	6.85	206.1	18.01	18.39	29.33	0
7/9/2018 12:45	9.57	212.1	21.62	18.52	29.33	0
7/9/2018 13:00	9.44	235.6	13.44	18.31	29.33	0
7/9/2018 13:15	8.26	225.5	19	18.38	29.33	0
7/9/2018 13:30	8.54	215.6	29.59	18.78	29.33	0
7/9/2018 13:45	6.226	178.8	22.74	19.11	29.33	0
7/9/2018 14:00	6.897	182.6	12.81	18.83	29.34	0
7/9/2018 14:15	6.672	184.5	31.45	18.84	29.34	0
7/9/2018 14:30	8.05	156.1	14.69	19.32	29.34	0
7/9/2018 14:45	8.76	206	22.9	19.25	29.34	0
7/9/2018 15:00	7.327	212.1	18.16	18.94	29.34	0
7/9/2018 15:15	8.04	204.2	20.95	18.92	29.34	0
7/9/2018 15:30	8.72	218.6	12.65	18.77	29.34	0
7/9/2018 15:45	8.15	204.2	12.69	18.93	29.34	0
7/9/2018 16:00	7.935	186.9	8.16	18.67	29.34	0
7/9/2018 16:15	7.416	215	14.26	18.69	29.34	0
7/9/2018 16:30	7.233	203.5	16.24	18.44	29.34	0
7/9/2018 16:45	4.345	193.5	17.1	18.43	29.34	0
7/9/2018 17:00	2.992	181.4	16.72	18.5	29.33	0
7/9/2018 17:15	2.381	188.4	30.91	18.41	29.33	0
7/9/2018 17:30	4.344	259.6	12.69	18.45	29.33	0
7/9/2018 17:45	4.114	258.2	13.41	18.36	29.33	0
7/9/2018 18:00	6.648	259.1	10.29	18.07	29.34	0

7/9/2018 18:15	9.22	251	7.483	17.27	29.34	0
7/9/2018 18:30	6.935	256.4	6.909	16.6	29.34	0.01
7/9/2018 18:45	4.064	269.6	18.85	16.33	29.34	0
7/9/2018 19:00	0.464	310.3	0.392	16.12	29.33	0
7/9/2018 19:15	1.068	58.93	87.9	15.8	29.33	0
7/9/2018 19:30	1.326	162.4	49.2	15.99	29.33	0
7/9/2018 19:45	2.685	239.5	21.44	16.25	29.33	0
7/9/2018 20:00	7.647	252.2	8.67	15.93	29.35	0
7/9/2018 20:15	5.338	274	14.92	15.56	29.35	0
7/9/2018 20:30	3.747	244.2	22.08	15.48	29.35	0
7/9/2018 20:45	2.868	208.9	18.74	15.34	29.35	0
7/9/2018 21:00	3.907	218.1	15.96	15.27	29.35	0
7/9/2018 21:15	5.717	228.7	10.53	15.13	29.35	0
7/9/2018 21:30	6.315	242	5.711	14.92	29.35	0
7/9/2018 21:45	4.896	218.7	11.42	14.77	29.35	0
7/9/2018 22:00	4.876	235.1	8.64	14.73	29.35	0
7/9/2018 22:15	2.784	178.6	29.41	14.45	29.35	0
7/9/2018 22:30	3.43	184.5	16.05	14.28	29.35	0
7/9/2018 22:45	5.309	192.3	15.37	14.4	29.35	0
7/9/2018 23:00	5.116	217.1	5.657	14.58	29.36	0
7/9/2018 23:15	5.412	218.4	5.913	14.47	29.36	0
7/9/2018 23:30	5.092	214	5.273	14.4	29.36	0
7/9/2018 23:45	5.304	219.9	4.618	14.36	29.36	0
7/10/2018 0:00	4.978	211.1	5.767	14.31	29.37	0
7/10/2018 0:15	5.447	203.6	5.242	14.19	29.37	0
7/10/2018 0:30	5.173	207.5	10.44	13.97	29.37	0
7/10/2018 0:45	4.151	198.9	9.47	13.85	29.37	0
7/10/2018 1:00	2.802	186.4	7.822	13.78	29.37	0
7/10/2018 1:15	1.577	113.5	15.84	13.62	29.37	0
7/10/2018 1:30	3.583	145.4	11.59	13.54	29.37	0
7/10/2018 1:45	4.256	147.9	6.778	13.65	29.37	0
7/10/2018 2:00	4.873	154.4	6.519	13.69	29.38	0
7/10/2018 2:15	5.596	152	7.904	13.62	29.38	0
7/10/2018 2:30	6.084	150.7	6.335	13.61	29.38	0
7/10/2018 2:45	6.062	151.7	5.537	13.59	29.38	0
7/10/2018 3:00	4.531	144.7	6.594	13.53	29.37	0
7/10/2018 3:15	5.066	151.5	6.19	13.32	29.37	0
7/10/2018 3:30	5.319	140.1	7.48	13.1	29.37	0
7/10/2018 3:45	5.458	139.8	9.25	13.06	29.37	0
7/10/2018 4:00	4.847	145.6	7.245	13.07	29.38	0
7/10/2018 4:15	4.81	147.1	6.342	12.98	29.38	0.01
7/10/2018 4:30	4.354	144.4	7.263	12.81	29.38	0
7/10/2018 4:45	4.62	140.1	5.754	12.71	29.38	0.01
7/10/2018 5:00	2.66	110.9	19.05	12.68	29.41	0
7/10/2018 5:15	2.078	124.4	32.98	12.62	29.41	0
7/10/2018 5:30	1.427	151.1	8.28	12.69	29.41	0
7/10/2018 5:45	2.219	154	15.08	12.74	29.41	0

7/10/2018 6:00	1.861	159.2	4.793	12.86	29.4	0
7/10/2018 6:15	2.405	144.1	17.93	12.86	29.4	0
7/10/2018 6:30	2.921	114.1	12.88	12.73	29.4	0
7/10/2018 6:45	3.743	118.1	6.47	12.7	29.4	0
7/10/2018 7:00	4.087	120.2	8	12.75	29.42	0
7/10/2018 7:15	4.697	118	8.12	12.75	29.42	0.01
7/10/2018 7:30	4.037	122	8.29	12.79	29.42	0
7/10/2018 7:45	3.827	123.9	6.283	12.9	29.42	0
7/10/2018 8:00	4.017	138.6	8.64	13	29.46	0
7/10/2018 8:15	3.467	133.2	8.01	13.05	29.46	0
7/10/2018 8:30	3.808	133.5	9.54	13.03	29.46	0
7/10/2018 8:45	3.933	111	9.12	13.06	29.46	0
7/10/2018 9:00	4.944	109.9	9.7	13	29.46	0
7/10/2018 9:15	5.236	111.1	11	12.99	29.46	0
7/10/2018 9:30	5.118	116.6	9.74	13.11	29.46	0
7/10/2018 9:45	4.586	115.8	7.897	13.27	29.46	0
7/10/2018 10:00	4.072	112.6	15.99	13.52	29.46	0
7/10/2018 10:15	4.088	88.9	10.26	13.76	29.46	0
7/10/2018 10:30	5.223	104	8.03	13.81	29.46	0
7/10/2018 10:45	5.673	111	14.2	14.46	29.46	0
7/10/2018 11:00	6.605	120	15.89	15.1	29.48	0
7/10/2018 11:15	5.579	101	15.56	15.06	29.48	0
7/10/2018 11:30	4.166	128.2	21.81	15.85	29.48	0
7/10/2018 11:45	4.783	196.2	45.95	16.12	29.48	0
7/10/2018 12:00	4.054	216.2	30.1	16.82	29.47	0
7/10/2018 12:15	4.311	212.3	40.51	17.21	29.47	0
7/10/2018 12:30	4.55	155.8	32.84	18.08	29.47	0
7/10/2018 12:45	3.755	205.2	41.73	18.8	29.47	0
7/10/2018 13:00	3.466	155.1	51.21	18.77	29.47	0
7/10/2018 13:15	3.982	244.9	34.1	19.87	29.47	0
7/10/2018 13:30	3.544	291	65.89	20.01	29.47	0
7/10/2018 13:45	4.392	332.3	35.39	20.52	29.47	0
7/10/2018 14:00	2.959	278.4	69.79	20.6	29.44	0
7/10/2018 14:15	3.52	317.5	34.09	20.28	29.44	0
7/10/2018 14:30	5.468	206.4	82.2	20.8	29.44	0
7/10/2018 14:45	4.912	27.62	40.97	21.14	29.44	0
7/10/2018 15:00	7.368	340.2	30.8	21.71	29.43	0
7/10/2018 15:15	7.187	335.7	26.83	21	29.43	0
7/10/2018 15:30	7.13	9.05	10.76	19.99	29.43	0
7/10/2018 15:45	7.585	25.03	11.14	20.89	29.43	0
7/10/2018 16:00	6.237	26.02	21.54	20.72	29.44	0
7/10/2018 16:15	9.45	25.9	10.75	20.29	29.44	0
7/10/2018 16:30	9.9	26.64	12.83	21.15	29.44	0
7/10/2018 16:45	11.26	43.23	9.85	20.22	29.44	0
7/10/2018 17:00	9.53	29.82	13.38	20.57	29.42	0
7/10/2018 17:15	8.33	29.05	11.62	20.84	29.42	0
7/10/2018 17:30	6.779	15.87	15.16	20.64	29.42	0

7/10/2018 17:45	8.54	25.7	14.31	20.92	29.42	0
7/10/2018 18:00	9.11	22.97	13	20.73	29.43	0
7/10/2018 18:15	9.15	24.67	13.51	20.63	29.43	0
7/10/2018 18:30	8.49	31.7	8.38	20.28	29.43	0
7/10/2018 18:45	7.84	11.55	15.42	20.34	29.43	0
7/10/2018 19:00	8.21	5.238	14.58	20.11	29.41	0
7/10/2018 19:15	9.6	351.5	13.29	19.93	29.41	0
7/10/2018 19:30	9.14	336.3	9.22	19.57	29.41	0
7/10/2018 19:45	9.74	345.8	9.21	19.09	29.41	0
7/10/2018 20:00	11.08	350.9	11.45	18.66	29.42	0
7/10/2018 20:15	10.42	351.8	10.94	18.25	29.42	0
7/10/2018 20:30	9.24	5.122	10.35	17.76	29.42	0
7/10/2018 20:45	9.34	14.12	7.582	17.52	29.42	0
7/10/2018 21:00	8.65	14.84	6.062	17.19	29.42	0
7/10/2018 21:15	8.78	13.15	5.724	17.02	29.42	0
7/10/2018 21:30	9.04	17.66	7.969	16.83	29.42	0
7/10/2018 21:45	9.68	13.06	6.309	16.56	29.42	0
7/10/2018 22:00	6.666	32.12	9.32	15.94	29.44	0
7/10/2018 22:15	5.06	40.34	8.75	15.76	29.44	0
7/10/2018 22:30	4.399	37.65	8.1	15.48	29.44	0
7/10/2018 22:45	2.748	47.97	11.17	15.08	29.44	0
7/10/2018 23:00	1.065	105.5	30.21	14.6	29.42	0
7/10/2018 23:15	1.021	357	59.64	15.04	29.42	0
7/10/2018 23:30	1.715	74.9	35.79	14.66	29.42	0
7/10/2018 23:45	3.898	36.16	35.04	14.59	29.42	0
7/11/2018 0:00	2.565	22.99	37.88	14.42	29.42	0
7/11/2018 0:15	5.174	17.71	11.71	13.85	29.42	0
7/11/2018 0:30	7.782	20.43	10.14	13.77	29.42	0
7/11/2018 0:45	9.52	16.09	9.17	13.96	29.42	0
7/11/2018 1:00	10.88	24.48	10.04	14.06	29.41	0
7/11/2018 1:15	10.08	30.55	9.5	13.81	29.41	0
7/11/2018 1:30	12.01	31.83	9.2	13.66	29.41	0
7/11/2018 1:45	14.89	28.14	7.755	13.77	29.41	0
7/11/2018 2:00	15.04	29.14	7.271	13.87	29.4	0
7/11/2018 2:15	13.16	32.44	9.42	13.79	29.4	0
7/11/2018 2:30	11.44	36.18	6.472	13.59	29.4	0
7/11/2018 2:45	11.31	36.75	10.14	13.72	29.4	0
7/11/2018 3:00	9.07	29.3	14.34	13.83	29.42	0
7/11/2018 3:15	7.4	20.11	14.43	13.76	29.42	0
7/11/2018 3:30	10.13	22.63	11.55	13.71	29.42	0
7/11/2018 3:45	11.51	11.77	9.43	13.49	29.42	0
7/11/2018 4:00	10.88	10.84	9.76	13.32	29.42	0
7/11/2018 4:15	9.24	17.64	8.19	12.95	29.42	0
7/11/2018 4:30	6.939	29.15	5.879	12.45	29.42	0
7/11/2018 4:45	3.416	49.26	12.01	11.83	29.42	0
7/11/2018 5:00	3.122	62.23	13.09	11.77	29.4	0
7/11/2018 5:15	4.52	54.7	6.081	12.02	29.4	0

7/11/2018 5:30	4.709	56.56	6.955	12.53	29.4	0
7/11/2018 5:45	3.983	49.78	10.19	12.78	29.4	0
7/11/2018 6:00	4.372	37.92	4.918	12.99	29.41	0
7/11/2018 6:15	3.391	58.22	8.97	13.3	29.41	0
7/11/2018 6:30	3.441	37.14	12.86	13.8	29.41	0
7/11/2018 6:45	2.271	16.84	19.52	14.22	29.41	0
7/11/2018 7:00	1.445	5.597	16.29	15.04	29.41	0
7/11/2018 7:15	1.097	45.64	25.18	15.85	29.41	0
7/11/2018 7:30	1.896	11.31	86.7	16.32	29.41	0
7/11/2018 7:45	1.69	48.73	19.78	17.14	29.41	0
7/11/2018 8:00	2.645	8.01	21.77	17.42	29.41	0
7/11/2018 8:15	2.329	340.8	42.78	17.97	29.41	0
7/11/2018 8:30	3.325	36.01	49.23	18.4	29.41	0
7/11/2018 8:45	6.337	44.85	16.29	18.72	29.41	0
7/11/2018 9:00	8.17	30.57	20.47	18.99	29.4	0
7/11/2018 9:15	8.46	29.78	17.68	19.52	29.4	0
7/11/2018 9:30	10.2	349.5	21.48	19.89	29.4	0
7/11/2018 9:45	9.04	354.7	24.05	20.08	29.4	0
7/11/2018 10:00	11.13	2.401	23.78	20.46	29.39	0
7/11/2018 10:15	10.53	352	21.22	20.43	29.39	0
7/11/2018 10:30	8.36	3.345	22.48	21.35	29.39	0
7/11/2018 10:45	9.37	21.93	18.24	21.55	29.39	0
7/11/2018 11:00	9.03	1.7	23.57	21.64	29.36	0
7/11/2018 11:15	10.88	339	19.03	22.09	29.36	0
7/11/2018 11:30	11.84	329.3	11.81	21.97	29.36	0
7/11/2018 11:45	10.24	321	15.17	22.3	29.36	0
7/11/2018 12:00	9.63	350.1	20.43	22.49	29.35	0
7/11/2018 12:15	8.48	351.6	23.86	22.54	29.35	0
7/11/2018 12:30	9.29	349.9	23.57	23	29.35	0
7/11/2018 12:45	7.462	356.2	26.15	23.16	29.35	0
7/11/2018 13:00	8.37	339.5	23.51	23.66	29.35	0
7/11/2018 13:15	9.46	324.9	21.37	24.03	29.35	0
7/11/2018 13:30	8.36	7.559	26.03	24.3	29.35	0
7/11/2018 13:45	9.12	330.2	16.51	24.29	29.35	0
7/11/2018 14:00	9.21	330	23.75	24.59	29.32	0
7/11/2018 14:15	8.51	332.1	18.57	24.49	29.32	0
7/11/2018 14:30	6.838	339.4	27.43	24.73	29.32	0
7/11/2018 14:45	9.71	323.3	13.36	25.16	29.32	0
7/11/2018 15:00	9.53	329.7	13.41	25.33	29.3	0
7/11/2018 15:15	9.54	320	11.07	25.32	29.3	0
7/11/2018 15:30	8.33	333	22.96	25.49	29.3	0
7/11/2018 15:45	8.99	335.1	13.99	25.63	29.3	0
7/11/2018 16:00	9.49	328.1	15.95	25.53	29.29	0
7/11/2018 16:15	7.915	336.4	20.97	25.49	29.29	0
7/11/2018 16:30	7.856	332.6	20.75	25.64	29.29	0
7/11/2018 16:45	7.363	344.9	26.07	25.71	29.29	0
7/11/2018 17:00	8.21	359.3	26.34	25.58	29.29	0

7/11/2018 17:15	6.325	18.51	17.31	25.39	29.29	0
7/11/2018 17:30	8.82	331.3	11.86	25.6	29.29	0
7/11/2018 17:45	9.69	323	9.34	25.41	29.29	0
7/11/2018 18:00	10.73	328.7	6.3	25	29.28	0
7/11/2018 18:15	9.87	327.7	6.528	24.82	29.28	0
7/11/2018 18:30	9.51	321.5	7.228	24.8	29.28	0
7/11/2018 18:45	9.57	325.2	6.831	24.37	29.28	0
7/11/2018 19:00	7.539	331.2	11.49	24.06	29.28	0
7/11/2018 19:15	8.28	327	7.194	23.61	29.28	0
7/11/2018 19:30	7.339	329.7	7.882	23.19	29.28	0
7/11/2018 19:45	7.268	325.1	7.436	22.6	29.28	0
7/11/2018 20:00	6.806	325.8	9.08	21.92	29.29	0
7/11/2018 20:15	5.565	347.9	15.03	21.46	29.29	0
7/11/2018 20:30	5.548	4.914	13.58	21.1	29.29	0
7/11/2018 20:45	7.284	13.4	12.32	21.03	29.29	0
7/11/2018 21:00	6.777	14.29	10.71	20.72	29.3	0
7/11/2018 21:15	8.49	24.04	11.89	20.5	29.3	0
7/11/2018 21:30	7.208	17.05	7.818	20.24	29.3	0
7/11/2018 21:45	5.301	18.61	10.84	19.65	29.3	0
7/11/2018 22:00	7.539	4.911	9.63	18.89	29.28	0
7/11/2018 22:15	10.67	13.93	5.49	19.3	29.28	0
7/11/2018 22:30	12.92	14.95	6.197	19.34	29.28	0
7/11/2018 22:45	13.33	22.57	4.175	19.04	29.28	0
7/11/2018 23:00	13.58	25.32	5.473	18.99	29.28	0
7/11/2018 23:15	12.84	16.65	3.999	18.57	29.28	0
7/11/2018 23:30	14.43	9.17	6.206	18.35	29.28	0
7/11/2018 23:45	13.15	3.197	10.37	18.33	29.28	0
7/12/2018 0:00	13.59	7.924	5.665	18.31	29.28	0
7/12/2018 0:15	13.16	8.73	4.853	18.07	29.28	0
7/12/2018 0:30	11.98	13.54	5.895	17.77	29.28	0
7/12/2018 0:45	7.754	26.95	6.403	16.97	29.28	0
7/12/2018 1:00	4.892	26.74	4.17	16.02	29.27	0
7/12/2018 1:15	2.905	18.44	6.789	15.79	29.27	0
7/12/2018 1:30	3.449	42.59	7.14	15.55	29.27	0
7/12/2018 1:45	2.468	47.17	5.15	15.17	29.27	0
7/12/2018 2:00	2.669	48.32	4.886	14.95	29.27	0
7/12/2018 2:15	2.5	19.24	19.61	14.98	29.27	0
7/12/2018 2:30	3.1	11.45	8.4	15.72	29.27	0
7/12/2018 2:45	1.893	19.03	11.46	15.28	29.27	0
7/12/2018 3:00	3.523	51.91	18.54	15.03	29.26	0
7/12/2018 3:15	4.501	44.01	15.56	14.55	29.26	0
7/12/2018 3:30	4.342	35.4	10.22	14.36	29.26	0
7/12/2018 3:45	3.288	51.97	10.57	14.4	29.26	0
7/12/2018 4:00	2.284	72.21	1.369	15.01	29.27	0
7/12/2018 4:15	2.222	67.85	5.907	15.33	29.27	0
7/12/2018 4:30	3.316	88	2.519	15.59	29.27	0
7/12/2018 4:45	2.651	75.94	18.38	15.05	29.27	0

7/12/2018 5:00	1.14	62.18	0.703	14.96	29.28	0
7/12/2018 5:15	1.016	61.1	1.215	15.56	29.28	0
7/12/2018 5:30	1.795	58.63	5.706	15.94	29.28	0
7/12/2018 5:45	1.45	48.02	7.665	16.51	29.28	0
7/12/2018 6:00	2.272	58.23	14.02	16.34	29.29	0
7/12/2018 6:15	2.194	110.8	22.25	17.16	29.29	0
7/12/2018 6:30	1.948	260.3	47.01	17.8	29.29	0
7/12/2018 6:45	2.007	293.1	9.72	18.33	29.29	0
7/12/2018 7:00	2.221	255.3	34.99	18.26	29.29	0
7/12/2018 7:15	1.885	281	37.42	18.94	29.29	0
7/12/2018 7:30	2.132	289.8	17.91	19.09	29.29	0
7/12/2018 7:45	0.991	287.8	40.13	20.18	29.29	0
7/12/2018 8:00	1.389	305.9	76.25	21.07	29.3	0
7/12/2018 8:15	1.963	211.9	60.37	21.5	29.3	0
7/12/2018 8:30	4.172	8.13	20.22	21.52	29.3	0
7/12/2018 8:45	4.778	6.996	18.05	21.65	29.3	0
7/12/2018 9:00	3.504	46.94	31.15	22.42	29.3	0
7/12/2018 9:15	4.771	51.35	21.16	22.84	29.3	0
7/12/2018 9:30	5.997	54.82	14.27	22.94	29.3	0
7/12/2018 9:45	8.09	31.38	10.14	23.41	29.3	0
7/12/2018 10:00	8.03	35.09	12.66	24.05	29.27	0
7/12/2018 10:15	8.55	36.5	12.85	24.78	29.27	0
7/12/2018 10:30	8.8	31	12.42	24.72	29.27	0
7/12/2018 10:45	9.59	28.93	15.34	25.39	29.27	0
7/12/2018 11:00	10.68	34.03	11.52	25.3	29.28	0
7/12/2018 11:15	11.16	31.47	11.59	25.62	29.28	0
7/12/2018 11:30	11.25	28.16	10.84	26.06	29.28	0
7/12/2018 11:45	10.54	29.96	11.33	26.7	29.28	0
7/12/2018 12:00	10.9	30.48	15.54	27.05	29.27	0
7/12/2018 12:15	10.41	33.38	11.55	27.05	29.27	0
7/12/2018 12:30	10.19	33.91	14.89	27.4	29.27	0
7/12/2018 12:45	9.44	37.69	13.46	28.18	29.27	0
7/12/2018 13:00	10.75	40.39	12.19	28.41	29.26	0
7/12/2018 13:15	10.2	32.94	15.3	28.6	29.26	0
7/12/2018 13:30	9.88	28.52	15.54	29.05	29.26	0
7/12/2018 13:45	10.21	35.96	9.79	29.03	29.26	0
7/12/2018 14:00	8	9.85	25.54	29.6	29.25	0
7/12/2018 14:15	9.23	352.1	24.9	29.72	29.25	0
7/12/2018 14:30	9.67	330.8	16.49	30.13	29.25	0
7/12/2018 14:45	10.18	327.2	23.5	30.18	29.25	0
7/12/2018 15:00	9.33	333.8	28.22	30.05	29.22	0
7/12/2018 15:15	8.42	354.7	32.79	30.15	29.22	0
7/12/2018 15:30	6.254	3.188	30.87	30.42	29.22	0
7/12/2018 15:45	8.45	342.7	26.69	30.26	29.22	0
7/12/2018 16:00	10.63	326.5	9.62	30.16	29.22	0
7/12/2018 16:15	10.32	328.4	11.78	30.06	29.22	0
7/12/2018 16:30	8.04	358.7	20.93	30.06	29.22	0

7/12/2018 16:45	10.13	325.6	10.45	30.12	29.22	0
7/12/2018 17:00	9.14	331.9	16.92	29.88	29.22	0
7/12/2018 17:15	7.93	330.6	18.44	29.62	29.22	0
7/12/2018 17:30	9.37	320.6	8.52	29.53	29.22	0
7/12/2018 17:45	8.97	327.4	12.73	29.37	29.22	0
7/12/2018 18:00	10.56	327.6	7.659	28.94	29.19	0
7/12/2018 18:15	11.69	323.5	7.298	28.64	29.19	0
7/12/2018 18:30	10.6	319	9.36	28.47	29.19	0
7/12/2018 18:45	10.53	314.5	8.57	28.21	29.19	0
7/12/2018 19:00	9.63	317.2	9.94	27.82	29.19	0
7/12/2018 19:15	8.73	323	10.27	27.42	29.19	0
7/12/2018 19:30	5.99	345.4	20.88	26.8	29.19	0
7/12/2018 19:45	2.146	355.8	28.87	26.09	29.19	0
7/12/2018 20:00	7.045	17.8	13.23	25.41	29.19	0
7/12/2018 20:15	7.578	29.34	7.03	24.58	29.19	0
7/12/2018 20:30	7.077	30.4	9.34	24.43	29.19	0
7/12/2018 20:45	6.761	14.99	18.51	23.84	29.19	0
7/12/2018 21:00	4.441	22.53	16.04	23.22	29.21	0
7/12/2018 21:15	9.03	20.56	13.34	23.44	29.21	0
7/12/2018 21:30	11.53	19.01	7.371	23.31	29.21	0
7/12/2018 21:45	10.56	20	9.01	23.16	29.21	0
7/12/2018 22:00	10.01	27.28	11.48	22.58	29.19	0
7/12/2018 22:15	9.2	28.79	8.53	21.99	29.19	0
7/12/2018 22:30	10.82	30.04	9.32	22.2	29.19	0
7/12/2018 22:45	9.93	30.97	7.758	21.39	29.19	0
7/12/2018 23:00	8.52	34.96	6.44	20.97	29.2	0
7/12/2018 23:15	7.962	37.28	9.37	20.85	29.2	0
7/12/2018 23:30	9.51	30.14	11.58	20.99	29.2	0
7/12/2018 23:45	8.72	36.41	11.4	20.7	29.2	0
7/13/2018 0:00	8.53	38.41	8.58	19.74	29.21	0
7/13/2018 0:15	10.71	34.71	10.88	19.66	29.21	0
7/13/2018 0:30	11.16	32.4	12.1	19.57	29.21	0
7/13/2018 0:45	9.5	36.31	12.29	19.56	29.21	0
7/13/2018 1:00	8.36	38.67	9.41	19.63	29.21	0
7/13/2018 1:15	7.594	25.69	10.13	19.49	29.21	0
7/13/2018 1:30	3.266	41.45	13.21	19.08	29.21	0
7/13/2018 1:45	1.857	43.87	15.46	18.16	29.21	0
7/13/2018 2:00	4.901	50.2	12.73	18.09	29.23	0
7/13/2018 2:15	2.768	71.41	1.897	18.01	29.23	0
7/13/2018 2:30	2.821	111.3	38.8	17.92	29.23	0
7/13/2018 2:45	3.46	198.2	23.23	17.39	29.23	0
7/13/2018 3:00	2.12	238.9	54.93	17.28	29.21	0
7/13/2018 3:15	2.57	11.32	3.862	16.48	29.21	0
7/13/2018 3:30	0.892	25.53	1.834	16.78	29.21	0
7/13/2018 3:45	1.508	45.46	7.31	16.81	29.21	0
7/13/2018 4:00	3.301	22.95	6.034	16.03	29.23	0
7/13/2018 4:15	3.197	33.13	4.066	15.62	29.23	0

7/13/2018 4:30	3.12	40.36	2.606	15.48	29.23	0
7/13/2018 4:45	3.649	24.34	4.511	15.39	29.23	0
7/13/2018 5:00	4.321	24.08	2.979	15.26	29.24	0
7/13/2018 5:15	3.441	26.07	5.155	15.6	29.24	0
7/13/2018 5:30	2.887	27.21	6.736	15.97	29.24	0
7/13/2018 5:45	2.959	23.26	1.62	15.96	29.24	0
7/13/2018 6:00	2.01	17.94	12.4	16.94	29.25	0
7/13/2018 6:15	1.138	8.24	7.987	17.94	29.25	0
7/13/2018 6:30	0.7	92.3	52.48	18.49	29.25	0
7/13/2018 6:45	1.885	162.1	24.59	18.43	29.25	0
7/13/2018 7:00	2.51	143.9	23.59	18.96	29.24	0
7/13/2018 7:15	3.29	131.7	19.4	19.04	29.24	0
7/13/2018 7:30	1.4	196.4	52.66	19.35	29.24	0
7/13/2018 7:45	1.866	253.7	35.94	19.93	29.24	0
7/13/2018 8:00	2.838	237.5	25.78	19.93	29.24	0
7/13/2018 8:15	2.783	226	26.35	20.34	29.24	0
7/13/2018 8:30	3.899	254.5	31.18	20.49	29.24	0
7/13/2018 8:45	2.315	254.2	31.8	20.98	29.24	0
7/13/2018 9:00	3.999	228	27.49	21.69	29.27	0
7/13/2018 9:15	4.674	270.8	36.17	21.49	29.27	0
7/13/2018 9:30	4.742	284	24.41	22.08	29.27	0
7/13/2018 9:45	5.1	287.8	22.45	22.35	29.27	0
7/13/2018 10:00	4.866	269.4	19.08	22.52	29.26	0
7/13/2018 10:15	3.821	273.8	30.74	23.05	29.26	0
7/13/2018 10:30	5.797	264.9	23.79	23.83	29.26	0
7/13/2018 10:45	5.102	279.1	30.25	24.14	29.26	0
7/13/2018 11:00	4.568	282	26.93	24.39	29.24	0
7/13/2018 11:15	6.381	255.8	20.51	24.71	29.24	0
7/13/2018 11:30	7.053	275.5	26.05	24.98	29.24	0
7/13/2018 11:45	7.194	250.4	16.73	25.23	29.24	0
7/13/2018 12:00	7.115	279.5	17.34	25.48	29.25	0
7/13/2018 12:15	7.587	260.9	20.87	25.88	29.25	0
7/13/2018 12:30	7.928	256.7	17.27	26.06	29.25	0
7/13/2018 12:45	7.398	282.3	15.96	26.41	29.25	0
7/13/2018 13:00	8.1	266.5	19.93	26.55	29.24	0
7/13/2018 13:15	8.24	267.3	19.47	26.69	29.24	0
7/13/2018 13:30	7.981	272.7	22.86	26.83	29.24	0
7/13/2018 13:45	7.947	253.1	17.49	27.01	29.24	0
7/13/2018 14:00	7.19	251.6	21.38	27.27	29.25	0
7/13/2018 14:15	8.14	263.2	16.77	27.43	29.25	0
7/13/2018 14:30	6.594	258.9	28.42	27.76	29.25	0
7/13/2018 14:45	5.565	266.3	39.21	27.57	29.25	0
7/13/2018 15:00	5.401	282.5	28.42	28	29.25	0
7/13/2018 15:15	6.565	275.7	28.45	28.12	29.25	0
7/13/2018 15:30	8.04	278.4	17.22	27.76	29.25	0
7/13/2018 15:45	6.231	278.4	23.34	28.07	29.25	0
7/13/2018 16:00	7.157	265.8	18.43	27.96	29.25	0

7/13/2018 16:15	7.227	275.4	21.52	28.08	29.25	0
7/13/2018 16:30	6.503	273	16.91	27.95	29.25	0
7/13/2018 16:45	6.275	274	23.75	28.15	29.25	0
7/13/2018 17:00	5.819	255.6	12.96	27.95	29.24	0
7/13/2018 17:15	2.839	274.9	34.47	28.3	29.24	0
7/13/2018 17:30	4.626	249.1	20.71	28.06	29.24	0
7/13/2018 17:45	4.278	299.8	25.89	28.04	29.24	0
7/13/2018 18:00	5.627	320.1	22.01	27.79	29.23	0
7/13/2018 18:15	6.106	332.8	10.71	27.39	29.23	0
7/13/2018 18:30	6.388	330.7	6.299	27.1	29.23	0
7/13/2018 18:45	6.854	325.7	3.458	26.86	29.23	0
7/13/2018 19:00	7.694	325.2	4.66	26.54	29.23	0
7/13/2018 19:15	7.816	320	4.561	26.23	29.23	0
7/13/2018 19:30	7.073	315.5	5.194	25.82	29.23	0
7/13/2018 19:45	8.25	316.3	3.808	25.12	29.23	0
7/13/2018 20:00	7.371	313.7	3.51	24.49	29.23	0
7/13/2018 20:15	6.864	322.7	9.9	24.07	29.23	0
7/13/2018 20:30	4.313	326.9	12.93	23.97	29.23	0
7/13/2018 20:45	6.15	7.257	20.95	23.25	29.23	0
7/13/2018 21:00	8.48	14.72	12.37	22.84	29.23	0
7/13/2018 21:15	8.92	8.08	10.89	22.54	29.23	0
7/13/2018 21:30	9.77	11.48	14.81	22.55	29.23	0
7/13/2018 21:45	9.37	20.45	11.5	22.13	29.23	0
7/13/2018 22:00	9.03	32.86	15.06	21.89	29.25	0
7/13/2018 22:15	9.35	38.04	10.34	21.41	29.25	0
7/13/2018 22:30	9.66	35.07	10.64	21.18	29.25	0
7/13/2018 22:45	6.652	47.61	15.92	20.85	29.25	0
7/13/2018 23:00	8.7	34.21	7.824	20.54	29.25	0
7/13/2018 23:15	7.63	46.43	9.05	20.28	29.25	0
7/13/2018 23:30	6.583	53.37	12.06	20.04	29.25	0
7/13/2018 23:45	6.187	46.89	9.34	19.17	29.25	0
7/14/2018 0:00	5.78	55.28	9.55	18.92	29.29	0
7/14/2018 0:15	6.527	43.85	6.607	18.42	29.29	0
7/14/2018 0:30	5.098	54.36	9.39	18.29	29.29	0
7/14/2018 0:45	2.984	61.72	7.833	18.6	29.29	0
7/14/2018 1:00	3.261	99	15.77	18.81	29.3	0
7/14/2018 1:15	4.936	151.5	7.111	18.24	29.3	0
7/14/2018 1:30	5.909	157	5.62	17.72	29.3	0
7/14/2018 1:45	4.985	175.6	14.68	17.58	29.3	0
7/14/2018 2:00	3.7	241.4	12.71	17.6	29.31	0
7/14/2018 2:15	4.927	207.8	9.11	16.93	29.31	0
7/14/2018 2:30	4.257	211.3	8.38	16.81	29.31	0
7/14/2018 2:45	3.919	199.9	11.29	16.76	29.31	0
7/14/2018 3:00	3.145	175.1	7.503	16.31	29.32	0
7/14/2018 3:15	4.248	172.5	5.448	16.01	29.32	0
7/14/2018 3:30	3.253	167.7	12.13	15.74	29.32	0
7/14/2018 3:45	3.139	166.9	9.46	15.67	29.32	0

7/14/2018 4:00	3.508	186	8.56	15.68	29.33	0
7/14/2018 4:15	4.591	197.6	7.845	15.55	29.33	0
7/14/2018 4:30	5.014	192.1	8.69	15.1	29.33	0
7/14/2018 4:45	5.134	214.1	3.13	15.2	29.33	0
7/14/2018 5:00	4.322	200.3	16.62	15.03	29.33	0
7/14/2018 5:15	2.977	174.4	11.18	14.76	29.33	0
7/14/2018 5:30	1.712	133	12.4	15.38	29.33	0
7/14/2018 5:45	1.208	132	15.19	15.84	29.33	0
7/14/2018 6:00	1.663	156.3	6.46	15.71	29.32	0
7/14/2018 6:15	2.613	194.5	14.35	15.76	29.32	0
7/14/2018 6:30	2.545	229.2	17.35	15.95	29.32	0
7/14/2018 6:45	1.506	289.4	41.15	16.68	29.32	0
7/14/2018 7:00	1.688	320.9	57.77	17.51	29.33	0
7/14/2018 7:15	1.723	311.9	74.62	17.78	29.33	0
7/14/2018 7:30	2.529	49.1	15.01	18.25	29.33	0
7/14/2018 7:45	2.61	330.8	28.45	18.58	29.33	0
7/14/2018 8:00	3.486	324.9	31.07	19.04	29.34	0
7/14/2018 8:15	3.614	300.9	23.36	19.15	29.34	0
7/14/2018 8:30	3.045	345.8	32.9	20.04	29.34	0
7/14/2018 8:45	3.404	3.293	42.44	20.42	29.34	0
7/14/2018 9:00	2.883	37.12	51.88	20.63	29.31	0
7/14/2018 9:15	2.874	345.4	64.1	21.25	29.31	0
7/14/2018 9:30	3.889	5.578	40.73	21.83	29.31	0
7/14/2018 9:45	4.11	345.5	34.54	22.12	29.31	0
7/14/2018 10:00	5.282	291.3	34.54	22.77	29.3	0
7/14/2018 10:15	7.514	277.7	15.67	22.46	29.3	0
7/14/2018 10:30	5.354	284.9	26.44	22.84	29.3	0
7/14/2018 10:45	5.905	260.2	28.88	23.1	29.3	0
7/14/2018 11:00	5.408	287.8	29.54	23.97	29.31	0
7/14/2018 11:15	7.994	17.7	33.6	24.3	29.31	0
7/14/2018 11:30	7.776	9.02	36.91	24.88	29.31	0
7/14/2018 11:45	7.32	3.579	35.72	25.08	29.31	0
7/14/2018 12:00	7.947	339.6	20.5	25.57	29.29	0
7/14/2018 12:15	7.671	316.7	22.44	25.55	29.29	0
7/14/2018 12:30	9.15	298	14.03	26.12	29.29	0
7/14/2018 12:45	8.91	310.7	16.13	26.18	29.29	0
7/14/2018 13:00	9.9	305.5	12.94	26.53	29.3	0
7/14/2018 13:15	9.56	310.7	13.11	27.12	29.3	0
7/14/2018 13:30	8.95	311	13.94	27.37	29.3	0
7/14/2018 13:45	8.54	309.8	17.96	27.5	29.3	0
7/14/2018 14:00	9.46	299	11.21	27.66	29.27	0
7/14/2018 14:15	8.29	320.6	23.09	28.19	29.27	0
7/14/2018 14:30	9.78	317.6	15.44	28.23	29.27	0
7/14/2018 14:45	8.08	309	13.81	28.71	29.27	0
7/14/2018 15:00	7.138	2.549	24.93	28.68	29.26	0
7/14/2018 15:15	7.127	31	17.42	28.79	29.26	0
7/14/2018 15:30	7.777	5.022	22.01	29.08	29.26	0

7/14/2018 15:45	7.831	356.9	18.47	29.09	29.26	0
7/14/2018 16:00	8.99	359	22.13	28.91	29.27	0
7/14/2018 16:15	8.69	349.2	29.86	29.11	29.27	0
7/14/2018 16:30	9.03	331.3	17.58	29.16	29.27	0
7/14/2018 16:45	9.05	331.5	18.62	29.15	29.27	0
7/14/2018 17:00	7.917	337.2	16.05	28.99	29.23	0
7/14/2018 17:15	8.84	359.3	16.62	28.96	29.23	0
7/14/2018 17:30	7.954	352.2	13.49	28.8	29.23	0
7/14/2018 17:45	8.49	351.1	16.34	28.68	29.23	0
7/14/2018 18:00	6.746	334.5	19.34	28.63	29.23	0
7/14/2018 18:15	7.611	325.2	13.97	28.55	29.23	0
7/14/2018 18:30	7.937	327	7.813	28.13	29.23	0
7/14/2018 18:45	7.366	325.2	8.34	27.76	29.23	0
7/14/2018 19:00	8.16	327.8	13.04	27.33	29.22	0
7/14/2018 19:15	7.401	318.7	7.834	26.93	29.22	0
7/14/2018 19:30	7.226	323.3	13.24	26.47	29.22	0
7/14/2018 19:45	7.077	345.2	21.62	26.04	29.22	0
7/14/2018 20:00	5.248	359.4	15.44	25.36	29.22	0
7/14/2018 20:15	4.95	34	23.37	24.65	29.22	0
7/14/2018 20:30	5.108	42.82	15.42	23.99	29.22	0
7/14/2018 20:45	6.477	32.99	14.21	23.79	29.22	0
7/14/2018 21:00	8.62	34.73	17.77	23.47	29.23	0
7/14/2018 21:15	9.85	31.11	15.49	23.2	29.23	0
7/14/2018 21:30	9.1	45.86	11.24	22.84	29.23	0
7/14/2018 21:45	7.656	40.56	15.5	22.57	29.23	0
7/14/2018 22:00	6.662	46.75	16.83	22.65	29.25	0
7/14/2018 22:15	5.54	47.66	17.01	22.34	29.25	0
7/14/2018 22:30	4.791	47.71	23.21	22.08	29.25	0
7/14/2018 22:45	6.38	41.1	22.51	22.17	29.25	0
7/14/2018 23:00	5.221	60.26	20.04	22.01	29.24	0
7/14/2018 23:15	6.144	64.09	13.58	21.99	29.24	0
7/14/2018 23:30	6.172	48.91	12.44	22.07	29.24	0
7/14/2018 23:45	9.81	40.29	8.46	21.92	29.24	0
7/15/2018 0:00	10.75	34.59	6.184	21.58	29.23	0
7/15/2018 0:15	10.07	33.76	8.25	20.89	29.23	0
7/15/2018 0:30	5.933	52.09	13.87	20.09	29.23	0
7/15/2018 0:45	5.964	43.31	13.18	19.65	29.23	0
7/15/2018 1:00	7.18	43.82	6.398	19.27	29.21	0
7/15/2018 1:15	7.571	33.48	11.17	18.52	29.21	0
7/15/2018 1:30	4.396	32.2	9.63	18.21	29.21	0
7/15/2018 1:45	4.218	33.3	10.42	17.85	29.21	0
7/15/2018 2:00	6.036	32.38	9.96	17.91	29.22	0
7/15/2018 2:15	5.148	27.44	7.955	17.42	29.22	0
7/15/2018 2:30	4.337	24.04	3.203	17.45	29.22	0
7/15/2018 2:45	2.548	20.71	3.892	18.3	29.22	0
7/15/2018 3:00	2.244	34.82	5.164	18.69	29.23	0
7/15/2018 3:15	1.525	94.3	33.08	19.11	29.23	0

7/15/2018 3:30	1.383	125.7	0.239	19.51	29.23	0
7/15/2018 3:45	1.868	108.2	8.95	18.32	29.23	0
7/15/2018 4:00	1.611	117.2	7.272	18.39	29.23	0
7/15/2018 4:15	0.906	124.8	0.099	18.79	29.23	0
7/15/2018 4:30	0.033	124.7	0.014	18.75	29.23	0
7/15/2018 4:45	0.236	124.4	0.058	18.44	29.23	0
7/15/2018 5:00	0.492	124.3	0.092	18.2	29.23	0
7/15/2018 5:15	0	0	0	18.6	29.23	0
7/15/2018 5:30	0.446	124.3	0.079	20.03	29.23	0
7/15/2018 5:45	0.998	124.1	0.084	19.85	29.23	0
7/15/2018 6:00	0.906	124.3	0.217	20.04	29.21	0
7/15/2018 6:15	0.351	89.4	25.65	20.63	29.21	0
7/15/2018 6:30	2.621	353.7	15.88	20.17	29.21	0
7/15/2018 6:45	3.655	333.6	11.6	20.15	29.21	0
7/15/2018 7:00	3.537	353.2	12.66	20.57	29.22	0
7/15/2018 7:15	3.222	29.45	14.49	20.32	29.22	0
7/15/2018 7:30	2.949	29.05	14.92	20.72	29.22	0
7/15/2018 7:45	2.783	12.61	26.27	21.63	29.22	0
7/15/2018 8:00	1.273	351.6	61.06	22.92	29.24	0
7/15/2018 8:15	2.409	37.97	20.23	23.08	29.24	0
7/15/2018 8:30	2.46	57.66	21.29	23.84	29.24	0
7/15/2018 8:45	2.147	15.69	38.24	24.63	29.24	0
7/15/2018 9:00	2.52	61.74	26.11	25.22	29.22	0
7/15/2018 9:15	3.572	49.43	32.91	25.47	29.22	0
7/15/2018 9:30	4.319	45.01	18.61	25.57	29.22	0
7/15/2018 9:45	4.88	35.86	21.11	25.64	29.22	0
7/15/2018 10:00	5.697	30.2	27.04	25.93	29.22	0
7/15/2018 10:15	5.289	349	39	26.58	29.22	0
7/15/2018 10:30	6.372	33.8	16.76	26.89	29.22	0
7/15/2018 10:45	7.593	43.18	14.99	26.9	29.22	0
7/15/2018 11:00	7.175	47.26	17.22	27.41	29.19	0
7/15/2018 11:15	6.83	38	13.65	27.82	29.19	0
7/15/2018 11:30	4.296	357.1	63.55	28.87	29.19	0
7/15/2018 11:45	6.547	335.9	31.56	29.41	29.19	0
7/15/2018 12:00	8.28	2.245	27.49	29.69	29.19	0
7/15/2018 12:15	8.73	328.4	11.24	29.48	29.19	0
7/15/2018 12:30	8.58	330.2	29.28	29.96	29.19	0
7/15/2018 12:45	8.31	11.45	22.24	30.07	29.19	0
7/15/2018 13:00	9.69	22.07	17.9	30.48	29.18	0
7/15/2018 13:15	9.84	3.149	14.25	30.74	29.18	0
7/15/2018 13:30	8.64	352.5	16.3	30.87	29.18	0
7/15/2018 13:45	9.03	4.341	14.26	31.17	29.18	0
7/15/2018 14:00	8.33	12.8	19.86	31.22	29.17	0
7/15/2018 14:15	9.3	22.42	29.9	31.56	29.17	0
7/15/2018 14:30	10	21.33	16.37	31.9	29.17	0
7/15/2018 14:45	8.36	4.664	19.57	32.17	29.17	0
7/15/2018 15:00	8.83	1.468	17.2	32.27	29.14	0

7/15/2018 15:15	9.58	9.96	14.36	32.13	29.14	0
7/15/2018 15:30	8.59	15.02	17.42	32.51	29.14	0
7/15/2018 15:45	9	10.36	17.57	32.46	29.14	0
7/15/2018 16:00	8.39	345.2	22.59	32.35	29.15	0
7/15/2018 16:15	8.89	348	24.29	32.5	29.15	0
7/15/2018 16:30	8.3	356.4	23.27	32.59	29.15	0
7/15/2018 16:45	7.843	355.3	17.49	32.66	29.15	0
7/15/2018 17:00	7.591	346.5	30.75	32.25	29.13	0
7/15/2018 17:15	8.28	330.8	12.39	32.23	29.13	0
7/15/2018 17:30	8.22	339.3	13.93	32.02	29.13	0
7/15/2018 17:45	8.93	330.4	11.53	31.76	29.13	0
7/15/2018 18:00	9.04	327.3	9.33	31.58	29.14	0
7/15/2018 18:15	8.66	323.5	9.9	31.16	29.14	0
7/15/2018 18:30	7.742	331.2	17.85	30.79	29.14	0
7/15/2018 18:45	7.644	322.8	13.22	30.4	29.14	0
7/15/2018 19:00	8.53	332.6	12.45	29.75	29.13	0
7/15/2018 19:15	6.981	343.7	22.01	29.13	29.13	0
7/15/2018 19:30	6.669	324.1	19.59	28.41	29.13	0
7/15/2018 19:45	3.209	15.86	21.77	27.67	29.13	0
7/15/2018 20:00	6.121	18.58	13.9	27.11	29.14	0
7/15/2018 20:15	8.46	17.88	14.33	27.15	29.14	0
7/15/2018 20:30	6.63	15.26	11.43	26.83	29.14	0
7/15/2018 20:45	6.98	14.91	18.47	26.54	29.14	0
7/15/2018 21:00	7.128	14.44	14.98	26.07	29.17	0
7/15/2018 21:15	7.442	9.97	12.28	25.99	29.17	0
7/15/2018 21:30	8.68	9.53	14.8	25.92	29.17	0
7/15/2018 21:45	7.257	16.73	15.35	25.5	29.17	0
7/15/2018 22:00	7.153	12.62	18.83	25.31	29.17	0
7/15/2018 22:15	5.119	19.66	20.67	24.66	29.17	0
7/15/2018 22:30	5.686	31.2	31.27	24.4	29.17	0
7/15/2018 22:45	5.462	53.14	21.84	23.8	29.17	0
7/15/2018 23:00	8.28	41.28	15.12	23.36	29.19	0
7/15/2018 23:15	8.92	45.51	8.28	22.97	29.19	0
7/15/2018 23:30	9.66	43.86	7.36	22.87	29.19	0
7/15/2018 23:45	9.44	31.15	6.662	22.73	29.19	0
7/16/2018 0:00	7.345	34.18	7.219	21.94	29.18	0
7/16/2018 0:15	5.835	20.1	11.01	21.15	29.18	0
7/16/2018 0:30	4.182	19.07	17.6	20.75	29.18	0
7/16/2018 0:45	3.123	19.89	12.37	20.55	29.18	0
7/16/2018 1:00	2.779	33.73	12.58	20.57	29.19	0
7/16/2018 1:15	3.49	46.58	8.6	19.88	29.19	0
7/16/2018 1:30	3.362	64.76	8.2	19.4	29.19	0
7/16/2018 1:45	3.71	73.15	14.98	19.52	29.19	0
7/16/2018 2:00	3.297	115.1	20.66	19.84	29.19	0
7/16/2018 2:15	1.016	176.3	10.21	20.02	29.19	0
7/16/2018 2:30	0.492	182.1	0.796	19.72	29.19	0
7/16/2018 2:45	1.036	183.8	0.198	19.82	29.19	0

7/16/2018 3:00	2.209	215.3	14.2	20.03	29.2	0
7/16/2018 3:15	2.018	163.7	28.63	20.18	29.2	0
7/16/2018 3:30	0.068	91.9	0.082	19.51	29.2	0
7/16/2018 3:45	0.92	52.9	27.14	19.19	29.2	0
7/16/2018 4:00	2.015	6.526	6.815	19.4	29.2	0
7/16/2018 4:15	2.257	344.6	17.73	19.66	29.2	0
7/16/2018 4:30	0.627	324.7	0.068	19.58	29.2	0
7/16/2018 4:45	1.463	325.4	0.299	18.74	29.2	0
7/16/2018 5:00	1.424	325.5	0.056	18.75	29.2	0
7/16/2018 5:15	2.121	325.6	0.125	19.22	29.2	0
7/16/2018 5:30	2.034	325.7	0.183	19.11	29.2	0
7/16/2018 5:45	0.823	325.9	0.159	19.27	29.2	0
7/16/2018 6:00	0.105	325.9	0.028	19.51	29.22	0
7/16/2018 6:15	0.053	326.9	0.898	20.15	29.22	0
7/16/2018 6:30	0.821	22.35	15.87	20.23	29.22	0
7/16/2018 6:45	0.636	116.8	38.19	21.28	29.22	0
7/16/2018 7:00	2.01	157.6	9.35	21.29	29.21	0
7/16/2018 7:15	2.641	213.8	37.65	20.96	29.21	0
7/16/2018 7:30	2.332	238.7	10.11	20.82	29.21	0
7/16/2018 7:45	1.555	239.8	71.31	22	29.21	0
7/16/2018 8:00	1.477	333.8	35.89	22.9	29.21	0
7/16/2018 8:15	1.5	233.7	37.49	23.23	29.21	0
7/16/2018 8:30	2.883	223.7	37.67	23.26	29.21	0
7/16/2018 8:45	3.691	234.4	15.3	23.39	29.21	0
7/16/2018 9:00	3.296	227.8	17.55	23.84	29.23	0
7/16/2018 9:15	3.161	265.7	32.68	24.41	29.23	0
7/16/2018 9:30	4.9	281.5	26.9	24.74	29.23	0
7/16/2018 9:45	5.135	276.6	21.71	24.85	29.23	0
7/16/2018 10:00	4.396	255.1	40.23	25.44	29.21	0
7/16/2018 10:15	5.354	269.4	20.02	25.85	29.21	0
7/16/2018 10:30	4.619	285.2	25.24	26.14	29.21	0
7/16/2018 10:45	6.384	274.4	21.59	26.44	29.21	0
7/16/2018 11:00	6.05	282.2	11.35	26.79	29.22	0
7/16/2018 11:15	6.595	280.9	19.53	27.42	29.22	0
7/16/2018 11:30	7.843	331.4	24.25	28.44	29.22	0
7/16/2018 11:45	9.45	338.4	28.56	29.07	29.22	0
7/16/2018 12:00	7.65	8.92	28.19	29.25	29.2	0
7/16/2018 12:15	9.13	325.6	21.03	29.66	29.2	0
7/16/2018 12:30	10.44	325.8	15.37	29.97	29.2	0
7/16/2018 12:45	9.28	337.7	19.18	30.04	29.2	0
7/16/2018 13:00	8.59	320.3	19.5	30.22	29.21	0
7/16/2018 13:15	6.711	350.7	31.26	30.42	29.21	0
7/16/2018 13:30	7.059	2.244	20.36	30.9	29.21	0
7/16/2018 13:45	7.425	349.9	26.35	30.96	29.21	0
7/16/2018 14:00	8.29	325.2	21.32	31.03	29.2	0
7/16/2018 14:15	9.07	321.3	21.22	31.21	29.2	0
7/16/2018 14:30	8.36	317.1	16.45	31.3	29.2	0

7/16/2018 14:45	8.68	296.8	11.99	31.27	29.2	0
7/16/2018 15:00	8.78	325.3	10.48	31.36	29.19	0
7/16/2018 15:15	9.09	322.7	14.86	31.59	29.19	0
7/16/2018 15:30	8.44	301.9	19.02	31.29	29.19	0
7/16/2018 15:45	9.2	304.3	14.85	31.75	29.19	0
7/16/2018 16:00	8.11	312.4	21.58	31.68	29.18	0
7/16/2018 16:15	8.83	311.9	14.23	31.84	29.18	0
7/16/2018 16:30	8.8	318	10.94	31.79	29.18	0
7/16/2018 16:45	7.972	328.6	21.5	31.51	29.18	0
7/16/2018 17:00	8.09	323.6	9.38	31.25	29.15	0
7/16/2018 17:15	8.5	313.2	12.35	31.36	29.15	0
7/16/2018 17:30	9.06	318.1	8.79	31.17	29.15	0
7/16/2018 17:45	8.7	321.3	8.12	30.85	29.15	0
7/16/2018 18:00	8.29	319.4	5.559	30.71	29.14	0
7/16/2018 18:15	6.93	318.8	8.42	30.59	29.14	0
7/16/2018 18:30	6.054	320.2	12.52	30.39	29.14	0
7/16/2018 18:45	5.194	293.2	9.83	29.92	29.14	0
7/16/2018 19:00	5.547	298.7	6.513	29.47	29.16	0
7/16/2018 19:15	5.35	307.4	6.863	29.04	29.16	0
7/16/2018 19:30	4.966	314.8	5.052	28.42	29.16	0
7/16/2018 19:45	5.706	316.7	4.964	27.71	29.16	0
7/16/2018 20:00	5.618	319.6	3.091	27.24	29.15	0
7/16/2018 20:15	5.253	325.4	8.18	26.75	29.15	0
7/16/2018 20:30	3.065	332.7	13.03	26.35	29.15	0
7/16/2018 20:45	1.396	334.1	13.67	26.09	29.15	0
7/16/2018 21:00	2.052	339.9	18.14	26.32	29.18	0
7/16/2018 21:15	2.083	13.71	14.47	26.12	29.18	0
7/16/2018 21:30	2.871	45.42	11.21	25.21	29.18	0
7/16/2018 21:45	2.099	42.22	18.09	23.95	29.18	0
7/16/2018 22:00	4.562	29.2	9.81	23.16	29.17	0
7/16/2018 22:15	3.102	30.57	8.73	22.02	29.17	0
7/16/2018 22:30	0.992	42.45	3.537	22.03	29.17	0
7/16/2018 22:45	1.014	62.26	11.36	21.74	29.17	0
7/16/2018 23:00	1.566	106.3	60.81	21.87	29.18	0
7/16/2018 23:15	1.279	117.5	28.16	22.73	29.18	0
7/16/2018 23:30	2.11	105.7	13.6	21.65	29.18	0
7/16/2018 23:45	2.464	123.8	12.73	21.59	29.18	0
7/17/2018 0:00	3.643	140	11.05	21.96	29.17	0
7/17/2018 0:15	3.451	125.5	7.277	21.18	29.17	0
7/17/2018 0:30	3.099	115	9.26	20.99	29.17	0
7/17/2018 0:45	3.598	133	11.71	21.1	29.17	0
7/17/2018 1:00	4.168	151	6.511	21.13	29.19	0
7/17/2018 1:15	4.509	163.3	13.41	20.67	29.19	0
7/17/2018 1:30	5.122	164.4	6.774	20.28	29.19	0
7/17/2018 1:45	3.39	136.3	12.64	19.96	29.19	0
7/17/2018 2:00	3.817	143.4	11.15	20.03	29.18	0
7/17/2018 2:15	5.672	173.2	10.02	19.95	29.18	0

7/17/2018 2:30	5.076	180.3	6.999	19.98	29.18	0
7/17/2018 2:45	3.808	170.2	11.42	19.68	29.18	0
7/17/2018 3:00	2.822	171	10.09	19.28	29.19	0
7/17/2018 3:15	4.106	178.5	2.691	19.44	29.19	0
7/17/2018 3:30	4.723	180.5	4.643	19.17	29.19	0
7/17/2018 3:45	5.333	170.2	9.64	18.52	29.19	0
7/17/2018 4:00	4.127	175.4	13.06	18.17	29.2	0
7/17/2018 4:15	4.797	193.4	6.156	17.88	29.2	0
7/17/2018 4:30	5.098	182.9	8.98	17.49	29.2	0
7/17/2018 4:45	2.672	160.8	10.01	17.54	29.2	0
7/17/2018 5:00	3.162	175.8	7.943	17.61	29.19	0
7/17/2018 5:15	3.727	191.1	10.83	17.7	29.19	0
7/17/2018 5:30	3.907	196.5	3.047	17.71	29.19	0
7/17/2018 5:45	4.68	195.1	5.669	17.55	29.19	0
7/17/2018 6:00	3.955	195.2	4.722	17.38	29.22	0
7/17/2018 6:15	3.031	200.8	12.02	17.14	29.22	0
7/17/2018 6:30	2.863	211.5	9.46	17.53	29.22	0
7/17/2018 6:45	4.002	212.5	6.566	17.71	29.22	0
7/17/2018 7:00	4.373	214.4	11.98	17.75	29.23	0
7/17/2018 7:15	3.505	209	14.04	18.1	29.23	0
7/17/2018 7:30	4.922	207.5	16.15	18.48	29.23	0
7/17/2018 7:45	4.212	201.1	17.96	19.04	29.23	0
7/17/2018 8:00	2.917	182.5	58.17	19.6	29.24	0
7/17/2018 8:15	3.13	190	47.13	20.26	29.24	0
7/17/2018 8:30	4.306	213.8	20.56	20.55	29.24	0
7/17/2018 8:45	3.656	208.8	27.45	20.94	29.24	0
7/17/2018 9:00	4.926	234.3	27.63	21.41	29.23	0
7/17/2018 9:15	3.908	220.9	35.18	22.14	29.23	0
7/17/2018 9:30	4.258	255.4	23.02	22.35	29.23	0
7/17/2018 9:45	2.74	294.7	32.49	22.7	29.23	0
7/17/2018 10:00	4.778	242.5	22.82	23.19	29.22	0
7/17/2018 10:15	4.978	227.1	22.48	23.46	29.22	0
7/17/2018 10:30	3.88	249.4	39.41	23.92	29.22	0
7/17/2018 10:45	4.353	207.5	33.55	24.47	29.22	0
7/17/2018 11:00	4.879	234.2	24.82	24.79	29.25	0
7/17/2018 11:15	5.707	205.4	19.52	25.07	29.25	0
7/17/2018 11:30	5.017	228.1	22.11	25.51	29.25	0
7/17/2018 11:45	6.08	254.1	26.79	25.53	29.25	0
7/17/2018 12:00	6.25	280.8	21.91	25.98	29.24	0
7/17/2018 12:15	5.191	237.4	39.9	26.29	29.24	0
7/17/2018 12:30	4.987	241.8	27.63	26.18	29.24	0
7/17/2018 12:45	5.608	178.4	33.47	27.01	29.24	0
7/17/2018 13:00	5.429	214.3	27.74	26.83	29.21	0
7/17/2018 13:15	6.053	242	30.05	27.44	29.21	0
7/17/2018 13:30	5.892	222.5	16.86	27.55	29.21	0
7/17/2018 13:45	7.866	219.7	17.53	27.79	29.21	0
7/17/2018 14:00	8.41	230.8	18.91	27.77	29.21	0

7/17/2018 14:15	8.21	233.8	21.82	27.77	29.21	0
7/17/2018 14:30	8.21	223.2	14.16	27.76	29.21	0
7/17/2018 14:45	7.974	228.2	20	27.61	29.21	0
7/17/2018 15:00	8.85	225.2	13.84	27.66	29.2	0
7/17/2018 15:15	9.5	253.9	12.22	27.91	29.2	0
7/17/2018 15:30	8	249.2	22.72	28.08	29.2	0
7/17/2018 15:45	9.29	256.1	12.95	28.2	29.2	0
7/17/2018 16:00	10.1	255.1	11.04	28.19	29.19	0
7/17/2018 16:15	11.51	252.9	14.01	27.81	29.19	0
7/17/2018 16:30	10.12	247.6	13.99	27.76	29.19	0
7/17/2018 16:45	9.89	245	9.7	27.5	29.19	0
7/17/2018 17:00	9.54	254.2	12.01	27.52	29.19	0
7/17/2018 17:15	7.684	273.1	18.67	27.63	29.19	0
7/17/2018 17:30	8.01	287.5	12.79	27.43	29.19	0
7/17/2018 17:45	7.525	259.2	17.51	27.45	29.19	0
7/17/2018 18:00	6.847	276.2	17.51	27.15	29.21	0
7/17/2018 18:15	7.734	278.5	14.2	26.9	29.21	0
7/17/2018 18:30	9.44	263.6	10.31	26.39	29.21	0
7/17/2018 18:45	7.887	255.1	10.78	25.92	29.21	0
7/17/2018 19:00	7.254	246.5	11.38	25.43	29.19	0
7/17/2018 19:15	6.779	252.6	12.09	24.92	29.19	0
7/17/2018 19:30	7.484	265.3	8.49	23.98	29.19	0
7/17/2018 19:45	7.351	260.2	7.197	23.25	29.19	0
7/17/2018 20:00	8.52	250.9	6.76	22.36	29.22	0
7/17/2018 20:15	8.59	250	8.02	21.33	29.22	0
7/17/2018 20:30	8.12	237	11.04	20.59	29.22	0
7/17/2018 20:45	8.84	236.4	10.92	19.95	29.22	0
7/17/2018 21:00	8.32	251.2	6.201	19.17	29.25	0
7/17/2018 21:15	6.517	268.8	14.56	18.33	29.25	0
7/17/2018 21:30	5.18	267.4	9.38	17.58	29.25	0
7/17/2018 21:45	6.567	268.5	7.939	17.05	29.25	0
7/17/2018 22:00	6.353	267.3	5.574	16.6	29.27	0
7/17/2018 22:15	5.49	261.9	8.36	16.21	29.27	0
7/17/2018 22:30	5.902	253	4.103	15.83	29.27	0
7/17/2018 22:45	6.209	238.9	13.99	15.74	29.27	0
7/17/2018 23:00	4.89	225.2	12.45	15.65	29.26	0
7/17/2018 23:15	5.496	221.9	8.27	15.24	29.26	0
7/17/2018 23:30	5.308	210.4	6.307	15.17	29.26	0
7/17/2018 23:45	4.883	185.5	27.27	15.2	29.26	0
7/18/2018 0:00	5.843	181.3	14.69	15.12	29.27	0
7/18/2018 0:15	6.123	186.3	8.99	15.27	29.27	0
7/18/2018 0:30	6.285	192.4	7.408	15.29	29.27	0
7/18/2018 0:45	5.611	175.8	18.39	15.27	29.27	0
7/18/2018 1:00	6.232	156.1	13.01	15.08	29.3	0
7/18/2018 1:15	7.282	176.5	11.54	15.2	29.3	0
7/18/2018 1:30	7.446	172.2	11.41	15.18	29.3	0
7/18/2018 1:45	6.427	171.5	12.46	15.15	29.3	0

7/18/2018 2:00	7.244	184	12.58	15.23	29.29	0
7/18/2018 2:15	7.674	167.7	8.31	15.01	29.29	0
7/18/2018 2:30	6.613	160.4	12.14	14.92	29.29	0
7/18/2018 2:45	6.859	152.4	7.653	14.85	29.29	0
7/18/2018 3:00	7.434	190.7	13.35	15.17	29.3	0
7/18/2018 3:15	6.482	190.2	8.63	15.13	29.3	0
7/18/2018 3:30	8.16	186.4	10.25	15.1	29.3	0
7/18/2018 3:45	10.42	197.4	9.19	15.08	29.3	0
7/18/2018 4:00	7.048	197.6	7.278	15.03	29.33	0
7/18/2018 4:15	6.173	185.7	7.402	14.94	29.33	0
7/18/2018 4:30	5.545	194.1	9.03	15.03	29.33	0
7/18/2018 4:45	4.011	153.9	12.81	14.77	29.33	0
7/18/2018 5:00	4.942	158.3	9.17	14.51	29.33	0
7/18/2018 5:15	4.747	146.7	7.008	14.28	29.33	0
7/18/2018 5:30	3.784	149.3	9	14.36	29.33	0
7/18/2018 5:45	3.136	147.7	9.31	14.48	29.33	0
7/18/2018 6:00	3.312	144.3	9.21	14.68	29.35	0
7/18/2018 6:15	5.2	161.6	22.33	14.8	29.35	0
7/18/2018 6:30	7.414	203.7	7.575	15.05	29.35	0
7/18/2018 6:45	4.692	163	26.01	15.14	29.35	0
7/18/2018 7:00	4.486	163.2	21.99	15.1	29.35	0
7/18/2018 7:15	5.324	183.6	16	14.93	29.35	0
7/18/2018 7:30	5.033	169.5	18.62	15.01	29.35	0
7/18/2018 7:45	4.873	197.7	11.2	15.18	29.35	0
7/18/2018 8:00	3.958	199.9	9.27	15.2	29.38	0
7/18/2018 8:15	2.95	170.6	37.09	15.41	29.38	0
7/18/2018 8:30	3.924	135.5	12.16	15.55	29.38	0
7/18/2018 8:45	3.309	134.1	18.7	15.9	29.38	0
7/18/2018 9:00	3.622	156.5	33.65	16.4	29.36	0
7/18/2018 9:15	4.842	145.4	11.19	16.5	29.36	0
7/18/2018 9:30	4.891	178.4	26.08	16.69	29.36	0
7/18/2018 9:45	4.691	227.4	49.64	16.45	29.36	0
7/18/2018 10:00	5.504	267.3	10.84	16.18	29.37	0
7/18/2018 10:15	5.738	256.3	15.85	16.49	29.37	0
7/18/2018 10:30	3.586	259.6	18.17	16.75	29.37	0
7/18/2018 10:45	3.747	232.6	26.68	17.09	29.37	0
7/18/2018 11:00	4.634	247.6	26.72	17.39	29.38	0
7/18/2018 11:15	5.633	268.3	13.88	17.39	29.38	0
7/18/2018 11:30	4.818	241.6	41.61	18.1	29.38	0
7/18/2018 11:45	4.915	226	24.43	18.32	29.38	0
7/18/2018 12:00	5.166	237.5	18.87	18.56	29.39	0
7/18/2018 12:15	6.455	249.6	22.93	18.59	29.39	0
7/18/2018 12:30	4.247	225.2	28.85	18.93	29.39	0
7/18/2018 12:45	3.488	214.1	39.1	19.68	29.39	0
7/18/2018 13:00	3.193	268.3	60.17	20.37	29.38	0
7/18/2018 13:15	4.951	241.4	31.72	20.84	29.38	0
7/18/2018 13:30	4.223	239.3	45.48	21.44	29.38	0

7/18/2018 13:45	2.796	167.5	60.13	21.51	29.38	0
7/18/2018 14:00	3.597	271.6	63.9	22.27	29.37	0
7/18/2018 14:15	3.711	287.3	39.52	22.31	29.37	0
7/18/2018 14:30	3.568	215.7	48.89	22.45	29.37	0
7/18/2018 14:45	3.625	237.3	55.42	23.12	29.37	0
7/18/2018 15:00	4.071	311.4	41.3	23.36	29.34	0
7/18/2018 15:15	8.58	249	15.96	23.42	29.34	0
7/18/2018 15:30	7.074	259.2	13.93	23.15	29.34	0
7/18/2018 15:45	3.993	261.5	29.91	23.49	29.34	0
7/18/2018 16:00	6.29	282.1	27.9	23.78	29.33	0
7/18/2018 16:15	5.29	284.9	21.17	23.82	29.33	0
7/18/2018 16:30	6.158	274.4	22.7	23.76	29.33	0
7/18/2018 16:45	6.692	260.9	17.85	23.56	29.33	0
7/18/2018 17:00	6.186	272.1	17.83	23.83	29.33	0
7/18/2018 17:15	3.922	274.2	24.99	23.71	29.33	0
7/18/2018 17:30	3.197	282.8	26.54	23.89	29.33	0
7/18/2018 17:45	4.681	266.8	34.53	23.74	29.33	0
7/18/2018 18:00	5.804	261.7	37.01	23.67	29.32	0
7/18/2018 18:15	7.806	239.3	11.23	23.27	29.32	0
7/18/2018 18:30	8.24	249.2	8.5	23.08	29.32	0
7/18/2018 18:45	7.659	242.3	13.01	22.83	29.32	0
7/18/2018 19:00	8.08	256.4	8.87	22.5	29.32	0
7/18/2018 19:15	7.673	260.4	8.67	22.24	29.32	0
7/18/2018 19:30	7.2	274.5	10.28	21.73	29.32	0
7/18/2018 19:45	7.206	267.9	7.593	21.22	29.32	0
7/18/2018 20:00	7.061	271.8	8.6	20.79	29.3	0
7/18/2018 20:15	9.84	263.1	6.085	20.38	29.3	0
7/18/2018 20:30	9.71	252.3	8.87	19.92	29.3	0
7/18/2018 20:45	10.26	244.8	7.814	19.48	29.3	0
7/18/2018 21:00	8.95	244.4	7.535	18.99	29.33	0
7/18/2018 21:15	8.04	247.6	5.941	18.66	29.33	0
7/18/2018 21:30	8.25	252.4	8.15	18.35	29.33	0
7/18/2018 21:45	5.546	257.4	9.57	18.02	29.33	0
7/18/2018 22:00	2.876	233.3	24.42	17.79	29.33	0
7/18/2018 22:15	3.712	247.7	7.894	17.52	29.33	0
7/18/2018 22:30	4.892	223.5	10.23	17.41	29.33	0
7/18/2018 22:45	4.332	211.1	10.92	17.09	29.33	0
7/18/2018 23:00	5.957	223.7	9.84	16.86	29.32	0
7/18/2018 23:15	5.74	237.2	9.95	16.49	29.32	0
7/18/2018 23:30	4.199	259	7.027	16.16	29.32	0
7/18/2018 23:45	5.427	244	5.773	16	29.32	0
7/19/2018 0:00	5.941	250.7	5.862	15.77	29.33	0
7/19/2018 0:15	5.766	253.1	7.143	15.47	29.33	0
7/19/2018 0:30	5.09	262.8	9.02	15.18	29.33	0
7/19/2018 0:45	4.583	257.3	8.48	14.95	29.33	0
7/19/2018 1:00	4.356	272.2	6.06	14.53	29.32	0
7/19/2018 1:15	4.664	288.5	4.296	14.14	29.32	0

7/19/2018 1:30	5.261	288.5	3.654	13.84	29.32	0
7/19/2018 1:45	5.024	284.2	8.57	13.83	29.32	0
7/19/2018 2:00	5.251	261.8	5.309	13.94	29.32	0
7/19/2018 2:15	5.831	251.4	7.471	13.9	29.32	0
7/19/2018 2:30	5.202	234	11.54	13.85	29.32	0
7/19/2018 2:45	5.999	225.8	6.54	13.69	29.32	0
7/19/2018 3:00	6.365	210.2	10.28	13.43	29.33	0
7/19/2018 3:15	6.218	211.4	9.27	13.13	29.33	0
7/19/2018 3:30	7.058	189.8	6.92	12.8	29.33	0
7/19/2018 3:45	7.811	186.2	5.116	12.5	29.33	0
7/19/2018 4:00	6.869	190.6	6.051	12.42	29.34	0
7/19/2018 4:15	7.472	198	7.266	12.35	29.34	0
7/19/2018 4:30	6.777	200.3	7.137	12.38	29.34	0
7/19/2018 4:45	6.502	199.4	7.814	12.39	29.34	0
7/19/2018 5:00	5.775	202.2	7.373	12.44	29.35	0
7/19/2018 5:15	5.452	186.2	10.45	12.46	29.35	0
7/19/2018 5:30	6.283	191.8	12.08	12.46	29.35	0
7/19/2018 5:45	4.749	153.1	6.923	12.34	29.35	0
7/19/2018 6:00	5.317	156	8.19	12.47	29.34	0
7/19/2018 6:15	6.549	152.3	8.03	12.56	29.34	0
7/19/2018 6:30	6.445	169.9	13.98	12.77	29.34	0
7/19/2018 6:45	6.585	180.2	15.95	12.6	29.34	0
7/19/2018 7:00	7.252	149.3	6.834	12.45	29.37	0
7/19/2018 7:15	6.054	158.6	10	12.59	29.37	0
7/19/2018 7:30	5.134	143	14.25	12.76	29.37	0
7/19/2018 7:45	5.88	152.8	17.7	13.07	29.37	0
7/19/2018 8:00	6.361	187.9	19.48	13.1	29.38	0
7/19/2018 8:15	5.652	184.2	18.82	13.32	29.38	0
7/19/2018 8:30	6.919	177.7	16.41	13.43	29.38	0
7/19/2018 8:45	6.927	200.8	9.43	13.54	29.38	0
7/19/2018 9:00	6.018	194.7	8.07	13.57	29.38	0
7/19/2018 9:15	4.99	204.5	15	13.73	29.38	0
7/19/2018 9:30	5.509	183.1	20.64	13.99	29.38	0
7/19/2018 9:45	5.209	176	16.25	14.23	29.38	0
7/19/2018 10:00	6.186	156.8	19.77	14.29	29.38	0
7/19/2018 10:15	5.758	157.6	18.66	14.62	29.38	0
7/19/2018 10:30	6.342	157.4	17.84	14.86	29.38	0
7/19/2018 10:45	5.679	175.1	23.45	15.37	29.38	0
7/19/2018 11:00	6.677	170.8	22.79	15.61	29.36	0
7/19/2018 11:15	8.2	194	17.45	15.43	29.36	0
7/19/2018 11:30	9.42	227.1	12.77	15.41	29.36	0
7/19/2018 11:45	8.08	224.4	12.84	15.5	29.36	0
7/19/2018 12:00	7.228	230.3	14.8	15.55	29.38	0
7/19/2018 12:15	7.932	244.7	13.56	15.75	29.38	0
7/19/2018 12:30	7.023	242.4	16.05	15.97	29.38	0
7/19/2018 12:45	6.455	236.2	25.24	16.09	29.38	0
7/19/2018 13:00	6.339	234.4	19.15	16.3	29.38	0

7/19/2018 13:15	6.177	229.2	19.84	16.56	29.38	0
7/19/2018 13:30	5.955	213.8	38.21	17.09	29.38	0
7/19/2018 13:45	6.373	193.4	17.38	17.64	29.38	0
7/19/2018 14:00	6.983	191.8	13.48	17.3	29.37	0
7/19/2018 14:15	7.38	205.5	12.87	17.06	29.37	0
7/19/2018 14:30	5.139	218.2	16.04	17.14	29.37	0
7/19/2018 14:45	7.265	253.2	19.98	17.09	29.37	0
7/19/2018 15:00	5.058	257.5	15.98	17.1	29.35	0
7/19/2018 15:15	4.028	264.5	13.06	17.33	29.35	0
7/19/2018 15:30	3.91	267.1	24.15	17.66	29.35	0
7/19/2018 15:45	5.47	318.2	14.61	17.87	29.35	0
7/19/2018 16:00	4.39	318.5	21.51	17.97	29.35	0
7/19/2018 16:15	5.318	275.9	19.4	18.32	29.35	0
7/19/2018 16:30	3.865	293	26.62	18.2	29.35	0
7/19/2018 16:45	4.634	291.6	17.84	18.34	29.35	0
7/19/2018 17:00	7.589	283.9	18.33	18.22	29.33	0
7/19/2018 17:15	6.926	282.3	12.89	18.09	29.33	0
7/19/2018 17:30	5.532	278.7	13.5	17.86	29.33	0
7/19/2018 17:45	4.497	275.7	16.92	17.76	29.33	0
7/19/2018 18:00	4.754	276.5	12.59	17.68	29.34	0
7/19/2018 18:15	4.506	272	15.24	17.59	29.34	0
7/19/2018 18:30	4.457	262.3	9.97	17.54	29.34	0
7/19/2018 18:45	6.311	259.6	13.46	17.41	29.34	0
7/19/2018 19:00	6.219	264.4	9.92	17.09	29.34	0
7/19/2018 19:15	6.016	251.9	7.83	16.95	29.34	0
7/19/2018 19:30	5.397	239.3	6.906	16.85	29.34	0
7/19/2018 19:45	5.199	244.9	5.443	16.76	29.34	0
7/19/2018 20:00	4.194	247.5	7.026	16.71	29.35	0
7/19/2018 20:15	3.49	254.9	8.84	16.56	29.35	0
7/19/2018 20:30	2.462	271.2	13.9	16.37	29.35	0
7/19/2018 20:45	2.275	235.8	21.28	16.29	29.35	0
7/19/2018 21:00	1.824	204.2	12.06	16.07	29.35	0
7/19/2018 21:15	2.023	217.9	9.56	16.17	29.35	0
7/19/2018 21:30	1.868	226.1	4.198	16.14	29.35	0
7/19/2018 21:45	1.631	21.37	48.57	15.11	29.35	0
7/19/2018 22:00	1.729	65.4	10.67	14.65	29.34	0
7/19/2018 22:15	1.27	61.56	1.318	14.79	29.34	0
7/19/2018 22:30	0.574	59.94	0.061	15	29.34	0
7/19/2018 22:45	1.63	50.8	8.11	14.73	29.34	0
7/19/2018 23:00	1.66	39.3	5.681	14.76	29.32	0
7/19/2018 23:15	1.708	29.45	0.528	14.78	29.32	0
7/19/2018 23:30	1.387	32.73	0.404	14.73	29.32	0
7/19/2018 23:45	1.748	252.3	65.71	15.01	29.32	0
7/20/2018 0:00	5.479	237.6	8.25	14.89	29.31	0
7/20/2018 0:15	5.882	255.5	5.962	15.12	29.31	0
7/20/2018 0:30	5.487	263.7	7.888	14.98	29.31	0
7/20/2018 0:45	2.053	296.4	25	14.58	29.31	0

7/20/2018 1:00	0.793	7.222	3.696	13.9	29.31	0
7/20/2018 1:15	1.214	310.8	24.5	14.43	29.31	0
7/20/2018 1:30	3.138	265	16.94	14.57	29.31	0
7/20/2018 1:45	2.039	276.4	27.61	14.36	29.31	0
7/20/2018 2:00	2.384	247.1	25.42	14.28	29.33	0
7/20/2018 2:15	4.191	232	8.5	14.15	29.33	0
7/20/2018 2:30	5.058	217.5	7.941	14.02	29.33	0
7/20/2018 2:45	3.467	205.3	11.25	13.79	29.33	0
7/20/2018 3:00	5.16	218.6	13.11	13.61	29.34	0
7/20/2018 3:15	6.226	226.9	6.177	13.45	29.34	0
7/20/2018 3:30	5.344	223.8	6.541	13.3	29.34	0
7/20/2018 3:45	5.282	228.8	8.38	13.23	29.34	0
7/20/2018 4:00	3.619	247.9	7.809	13.11	29.34	0
7/20/2018 4:15	3.417	243.4	14.81	13	29.34	0
7/20/2018 4:30	3.571	230.2	12.12	12.99	29.34	0
7/20/2018 4:45	4.079	225.4	9.55	12.95	29.34	0
7/20/2018 5:00	4.794	220.6	8.94	12.93	29.33	0
7/20/2018 5:15	4.513	223.6	6.762	12.84	29.33	0
7/20/2018 5:30	3.972	256.8	11.63	12.73	29.33	0
7/20/2018 5:45	3.678	255.5	11.64	12.67	29.33	0
7/20/2018 6:00	4.281	283.9	12.78	12.6	29.37	0
7/20/2018 6:15	4.94	264.5	12.86	12.54	29.37	0
7/20/2018 6:30	4.251	255	12.13	12.56	29.37	0
7/20/2018 6:45	4.229	244.8	14.57	12.59	29.37	0
7/20/2018 7:00	4.264	219.4	30.09	12.47	29.38	0
7/20/2018 7:15	4.803	196.5	12.16	12.22	29.38	0
7/20/2018 7:30	4.469	179.5	12.31	12.24	29.38	0
7/20/2018 7:45	3.011	158.5	22.25	12.31	29.38	0
7/20/2018 8:00	3.813	197.3	14.1	12.61	29.36	0
7/20/2018 8:15	4.77	214.1	21.2	12.94	29.36	0
7/20/2018 8:30	4.548	221.5	19.69	13.12	29.36	0
7/20/2018 8:45	3.362	207.7	25.38	13.26	29.36	0
7/20/2018 9:00	3.432	194.2	24.74	13.72	29.36	0
7/20/2018 9:15	4.029	223.1	27.16	13.65	29.36	0
7/20/2018 9:30	3.012	222.9	56.24	14.05	29.36	0
7/20/2018 9:45	3.816	197.2	41.33	15.09	29.36	0
7/20/2018 10:00	2.965	230.8	46.32	14.42	29.38	0
7/20/2018 10:15	3.498	167.1	33.68	15.51	29.38	0
7/20/2018 10:30	3.238	206.1	43.82	16.36	29.38	0
7/20/2018 10:45	2.161	274.1	73.13	16.91	29.38	0
7/20/2018 11:00	3.154	325.4	37.17	17.19	29.37	0
7/20/2018 11:15	4.639	323.6	22.81	17.13	29.37	0
7/20/2018 11:30	4.278	240.9	44.96	17.75	29.37	0
7/20/2018 11:45	4.199	292.1	61.16	18.45	29.37	0
7/20/2018 12:00	4.756	257	34.99	18.71	29.37	0
7/20/2018 12:15	4.46	332.4	33.14	19.08	29.37	0
7/20/2018 12:30	7.107	309.5	15.88	18.65	29.37	0

7/20/2018 12:45	4.687	323.6	34.44	19.37	29.37	0
7/20/2018 13:00	5.836	341.5	24.06	18.88	29.34	0
7/20/2018 13:15	6.088	297.2	15.6	18.74	29.34	0
7/20/2018 13:30	4.981	288.7	25.45	19.59	29.34	0
7/20/2018 13:45	7.848	307	16.33	20.28	29.34	0
7/20/2018 14:00	5.55	327.1	23.79	20.32	29.36	0
7/20/2018 14:15	7.331	310	21.39	20.66	29.36	0
7/20/2018 14:30	6.83	293.2	28.57	20.86	29.36	0
7/20/2018 14:45	6.762	269.4	51.45	20.16	29.36	0
7/20/2018 15:00	5.256	357.3	18.87	20.53	29.33	0
7/20/2018 15:15	6.454	343	31.72	20.49	29.33	0
7/20/2018 15:30	7.105	332.4	27.31	21.08	29.33	0
7/20/2018 15:45	6.106	326.6	41.97	20.47	29.33	0
7/20/2018 16:00	5.851	336.3	29.91	21.32	29.31	0
7/20/2018 16:15	5.496	279.8	33.71	21.02	29.31	0
7/20/2018 16:30	5.831	308.2	43.19	21.2	29.31	0
7/20/2018 16:45	6.33	304.3	19.37	21.27	29.31	0
7/20/2018 17:00	5.517	291.5	24.5	21.35	29.3	0
7/20/2018 17:15	6.652	318.2	29.06	21.28	29.3	0
7/20/2018 17:30	7.18	347.7	24.63	21.28	29.3	0
7/20/2018 17:45	6.446	324.8	23.87	21.28	29.3	0
7/20/2018 18:00	7.977	326.4	21.22	21.14	29.29	0
7/20/2018 18:15	8.51	328.6	8.92	20.81	29.29	0
7/20/2018 18:30	7.247	331.4	12.39	20.71	29.29	0
7/20/2018 18:45	5.389	352	17.72	20.52	29.29	0
7/20/2018 19:00	8.35	320.8	9.67	20.26	29.31	0
7/20/2018 19:15	7.518	339.8	8.57	19.61	29.31	0
7/20/2018 19:30	6.366	328.1	8.76	18.87	29.31	0
7/20/2018 19:45	6.418	322.2	3.076	18.45	29.31	0
7/20/2018 20:00	5.913	328.7	3.299	18.14	29.29	0
7/20/2018 20:15	6.839	345.5	11.74	17.99	29.29	0
7/20/2018 20:30	7.027	8.71	8.35	18.22	29.29	0
7/20/2018 20:45	7.868	11.55	7.504	17.9	29.29	0
7/20/2018 21:00	8.96	12.3	5.977	17.5	29.3	0
7/20/2018 21:15	5.957	19.68	4.931	17.05	29.3	0
7/20/2018 21:30	4.601	36.28	8.1	16.76	29.3	0
7/20/2018 21:45	2.551	33.63	7.901	16.5	29.3	0
7/20/2018 22:00	1.096	7.823	25.95	16.59	29.32	0
7/20/2018 22:15	2.139	353.2	26.76	16.44	29.32	0
7/20/2018 22:30	2.06	354	19.86	16.3	29.32	0
7/20/2018 22:45	1.994	11.5	16.43	16.22	29.32	0
7/20/2018 23:00	3.461	27.26	32.99	15.89	29.31	0
7/20/2018 23:15	5.108	13.47	16.23	15.52	29.31	0
7/20/2018 23:30	5.673	33.49	18.11	14.95	29.31	0
7/20/2018 23:45	5.848	44.66	17.35	14.39	29.31	0
7/21/2018 0:00	6.01	26.18	20.15	14.24	29.31	0
7/21/2018 0:15	8.85	19.83	11.93	14.21	29.31	0

7/21/2018 0:30	7.752	19.48	7.843	14.06	29.31	0
7/21/2018 0:45	6.989	24.17	9.1	13.89	29.31	0
7/21/2018 1:00	7.796	15.48	8.58	13.81	29.3	0
7/21/2018 1:15	11.46	15.19	6.739	14.17	29.3	0
7/21/2018 1:30	7.868	33.13	21.67	13.77	29.3	0
7/21/2018 1:45	6.951	34.61	36.7	13.3	29.3	0
7/21/2018 2:00	10.72	24.49	5.838	13.31	29.29	0
7/21/2018 2:15	11.16	22.91	4.667	13.32	29.29	0
7/21/2018 2:30	7.796	30.84	5.993	13.3	29.29	0
7/21/2018 2:45	4.369	32.45	14.76	13.73	29.29	0
7/21/2018 3:00	2.552	14.06	21.67	13.67	29.31	0
7/21/2018 3:15	2.244	35.42	19.8	13.46	29.31	0
7/21/2018 3:30	2.578	58.15	32.85	13.78	29.31	0
7/21/2018 3:45	1.429	170.7	16.98	12.49	29.31	0
7/21/2018 4:00	0.353	198.2	19.39	12.36	29.31	0
7/21/2018 4:15	1.094	176.6	19.43	12.12	29.31	0
7/21/2018 4:30	0.8	143.9	14.04	12.02	29.31	0
7/21/2018 4:45	2.727	169.3	20.08	11.73	29.31	0
7/21/2018 5:00	3.95	162.5	4.861	11.35	29.31	0
7/21/2018 5:15	2.38	130.1	18.92	10.76	29.31	0
7/21/2018 5:30	3.702	135.9	11.03	10.87	29.31	0
7/21/2018 5:45	2.488	112.1	10.5	12.13	29.31	0
7/21/2018 6:00	3.126	136.8	5.819	12.55	29.32	0
7/21/2018 6:15	4.026	152.7	7.811	12.65	29.32	0
7/21/2018 6:30	3.668	146.3	15.54	13.16	29.32	0
7/21/2018 6:45	2.792	152.6	29.56	13.47	29.32	0
7/21/2018 7:00	4.87	173.3	17.16	13.52	29.31	0
7/21/2018 7:15	4.749	173.8	17.06	13.68	29.31	0
7/21/2018 7:30	3.393	189.1	26.88	14.01	29.31	0
7/21/2018 7:45	2.905	237.9	19.31	14.1	29.31	0
7/21/2018 8:00	2.661	245.2	20.65	14.73	29.36	0
7/21/2018 8:15	2.203	239.1	30.02	15.22	29.36	0
7/21/2018 8:30	3.83	282	35.63	15.97	29.36	0
7/21/2018 8:45	3.719	295.9	27.01	16.28	29.36	0
7/21/2018 9:00	5.51	328.2	33.91	17.09	29.36	0
7/21/2018 9:15	3.961	44.75	55.5	17.23	29.36	0
7/21/2018 9:30	3.292	33.24	38.29	18.12	29.36	0
7/21/2018 9:45	4.034	326.6	42.48	18.04	29.36	0
7/21/2018 10:00	3.441	278.4	38.74	17.99	29.35	0
7/21/2018 10:15	4.901	337.6	93.6	18.36	29.35	0
7/21/2018 10:30	7.507	246	15.58	17.85	29.35	0
7/21/2018 10:45	6.151	274.7	20	18.29	29.35	0
7/21/2018 11:00	4.319	273.4	40.57	19.09	29.33	0
7/21/2018 11:15	4.315	262.4	31.35	19.24	29.33	0
7/21/2018 11:30	4.466	298.6	28.9	19.61	29.33	0
7/21/2018 11:45	4.809	304.5	37.33	19.98	29.33	0
7/21/2018 12:00	4.353	337.4	44.41	20.09	29.33	0

7/21/2018 12:15	6.922	322.8	23.78	20.94	29.33	0
7/21/2018 12:30	5.789	314.3	30.07	21	29.33	0
7/21/2018 12:45	9.34	342.2	23.99	21.85	29.33	0
7/21/2018 13:00	8.08	8.78	26.36	21.5	29.35	0
7/21/2018 13:15	7.152	7.532	28.15	22.01	29.35	0
7/21/2018 13:30	5.053	0.69	65.44	22.53	29.35	0
7/21/2018 13:45	4.883	350.3	53.15	22.44	29.35	0
7/21/2018 14:00	7.42	21.03	25.01	22.79	29.34	0
7/21/2018 14:15	7.584	40.36	12.17	22.69	29.34	0
7/21/2018 14:30	8.13	29.37	24.41	22.56	29.34	0
7/21/2018 14:45	7.624	26.39	38.31	22.98	29.34	0
7/21/2018 15:00	9	324.9	15.35	23.27	29.34	0
7/21/2018 15:15	9.2	348.8	22.06	22.88	29.34	0
7/21/2018 15:30	10.58	357.7	33.14	23.19	29.34	0
7/21/2018 15:45	10.13	345.3	17.53	22.95	29.34	0
7/21/2018 16:00	9.52	338.4	18.67	23.22	29.35	0
7/21/2018 16:15	10.07	320.5	13.23	23.29	29.35	0
7/21/2018 16:30	7.33	326.8	22.74	23.19	29.35	0
7/21/2018 16:45	11.29	335.8	17.44	23.19	29.35	0
7/21/2018 17:00	10.18	325.6	19.77	23.08	29.34	0
7/21/2018 17:15	11.38	330.6	13.28	23.27	29.34	0
7/21/2018 17:30	10.84	334.5	10.44	22.9	29.34	0
7/21/2018 17:45	8.86	346.8	12.55	22.89	29.34	0
7/21/2018 18:00	9.11	331.6	13.2	22.7	29.35	0
7/21/2018 18:15	9.6	340.4	12.7	22.54	29.35	0
7/21/2018 18:30	9.6	349.5	18.04	22.28	29.35	0
7/21/2018 18:45	9.31	336.6	13.66	22.11	29.35	0
7/21/2018 19:00	10.02	335.4	12.54	21.76	29.36	0
7/21/2018 19:15	10.99	339.2	8.57	21.32	29.36	0
7/21/2018 19:30	10.04	347.9	9.44	20.94	29.36	0
7/21/2018 19:45	8.15	354	9.47	20.27	29.36	0
7/21/2018 20:00	8.26	356.6	11.31	19.96	29.37	0
7/21/2018 20:15	7.715	2.961	8.23	19.38	29.37	0
7/21/2018 20:30	7.069	15.7	6.133	19.22	29.37	0
7/21/2018 20:45	8.16	17.61	4.978	18.9	29.37	0
7/21/2018 21:00	7.204	8.52	9.65	19.23	29.35	0
7/21/2018 21:15	7.001	8.73	6.662	19.21	29.35	0
7/21/2018 21:30	7.308	7.293	10.11	19.17	29.35	0
7/21/2018 21:45	8.43	15.13	11.87	18.56	29.35	0
7/21/2018 22:00	6.807	12.79	11.33	17.65	29.37	0
7/21/2018 22:15	7.856	32.99	11.11	18.13	29.37	0
7/21/2018 22:30	7.636	16.78	7.455	17.74	29.37	0
7/21/2018 22:45	8.45	22.88	11.21	18.01	29.37	0
7/21/2018 23:00	7.614	21.9	15.62	17.69	29.38	0
7/21/2018 23:15	7.409	24.98	14.24	17.73	29.38	0
7/21/2018 23:30	5.2	24.73	21.7	17.55	29.38	0
7/21/2018 23:45	7.334	24.35	8.94	16.68	29.38	0

7/22/2018 0:00	7.839	14.46	12.64	16.77	29.38	0
7/22/2018 0:15	7.812	7.826	11.23	16.89	29.38	0
7/22/2018 0:30	6.704	20.75	12.46	16.53	29.38	0
7/22/2018 0:45	8.65	33.13	9.56	15.67	29.38	0
7/22/2018 1:00	9.94	25.39	4.952	15.63	29.38	0
7/22/2018 1:15	8.83	20.62	6.594	15.13	29.38	0
7/22/2018 1:30	8.45	20.42	5.68	14.59	29.38	0
7/22/2018 1:45	5.777	12.07	10.35	14.53	29.38	0
7/22/2018 2:00	6.869	30.83	9.18	14.26	29.38	0
7/22/2018 2:15	7.984	21.39	7.988	14.06	29.38	0
7/22/2018 2:30	6.122	37.86	7.246	13.52	29.38	0
7/22/2018 2:45	5.568	29.11	4.837	13.27	29.38	0
7/22/2018 3:00	3.479	63.32	18.05	13.3	29.38	0
7/22/2018 3:15	4.599	33.28	7.677	13.6	29.38	0
7/22/2018 3:30	5.725	46.56	5.243	13.66	29.38	0
7/22/2018 3:45	4.737	38.81	4.929	13.12	29.38	0
7/22/2018 4:00	2.065	68.97	9.91	13.12	29.37	0
7/22/2018 4:15	2.825	58.37	8.62	13.07	29.37	0
7/22/2018 4:30	2.816	63.67	14.1	12.78	29.37	0
7/22/2018 4:45	4.548	54	15.12	12.44	29.37	0
7/22/2018 5:00	4.342	94.7	13.68	13.05	29.38	0
7/22/2018 5:15	2.076	115.3	2.089	13.92	29.38	0
7/22/2018 5:30	0.572	112.1	0.469	14.69	29.38	0
7/22/2018 5:45	1.559	159.9	32.53	14.48	29.38	0
7/22/2018 6:00	0.321	343.5	33.91	14.96	29.39	0
7/22/2018 6:15	1.064	5.139	8.27	14.75	29.39	0
7/22/2018 6:30	0.632	73.4	32.15	16.18	29.39	0
7/22/2018 6:45	2.075	55.27	21.23	15.96	29.39	0
7/22/2018 7:00	2.045	59.93	10.56	16.05	29.39	0
7/22/2018 7:15	1.787	104.7	34.63	16.7	29.39	0
7/22/2018 7:30	2.357	76.58	43.37	17.2	29.39	0
7/22/2018 7:45	1.832	68.81	25.66	17.63	29.39	0
7/22/2018 8:00	1.45	121.6	50.13	18.73	29.4	0
7/22/2018 8:15	2.609	37.93	35.23	19.09	29.4	0
7/22/2018 8:30	2.77	357.8	41.27	19.07	29.4	0
7/22/2018 8:45	3.403	342.6	23.21	19.45	29.4	0
7/22/2018 9:00	3.004	344.2	36.02	20.04	29.38	0
7/22/2018 9:15	4.645	3.199	24.69	20.41	29.38	0
7/22/2018 9:30	4.547	45.83	18.49	20.58	29.38	0
7/22/2018 9:45	4.755	47.3	14.67	21.08	29.38	0
7/22/2018 10:00	4.03	33.46	22.66	21.93	29.38	0
7/22/2018 10:15	4.653	48.16	32.53	22.41	29.38	0
7/22/2018 10:30	3.826	291.3	40.97	22.83	29.38	0
7/22/2018 10:45	5.14	350.8	44.39	23.27	29.38	0
7/22/2018 11:00	6.919	35	18.83	23.52	29.37	0
7/22/2018 11:15	6.362	30.79	16.42	23.67	29.37	0
7/22/2018 11:30	7.347	28.83	21.86	24.19	29.37	0

7/22/2018 11:45	7.233	46.08	17.07	24.72	29.37	0
7/22/2018 12:00	8.01	43.49	15.01	24.98	29.37	0
7/22/2018 12:15	8.44	45.62	22.57	25.42	29.37	0
7/22/2018 12:30	6.995	14.68	28.13	26.42	29.37	0
7/22/2018 12:45	7.901	21.23	31.89	26.55	29.37	0
7/22/2018 13:00	5.856	359.9	33.82	26.92	29.33	0
7/22/2018 13:15	8.11	22.82	32.5	27.27	29.33	0
7/22/2018 13:30	7.437	11.06	33.86	27.5	29.33	0
7/22/2018 13:45	7.438	1.828	28.02	28.05	29.33	0
7/22/2018 14:00	9.19	16.69	21.56	28	29.32	0
7/22/2018 14:15	8.75	344.9	20.82	28.5	29.32	0
7/22/2018 14:30	10.78	331.9	14.37	28.68	29.32	0
7/22/2018 14:45	10.43	324.6	10.62	28.92	29.32	0
7/22/2018 15:00	8.7	342.8	20.05	29.26	29.31	0
7/22/2018 15:15	8.19	332.2	18.27	29.35	29.31	0
7/22/2018 15:30	7.98	332.4	25.07	29.56	29.31	0
7/22/2018 15:45	7.385	344.3	20.6	29.4	29.31	0
7/22/2018 16:00	6.933	348.1	25.29	29.65	29.3	0
7/22/2018 16:15	9.52	20.45	14.41	29.21	29.3	0
7/22/2018 16:30	7.67	13.28	23.3	29.45	29.3	0
7/22/2018 16:45	7.069	11.83	20.39	29.32	29.3	0
7/22/2018 17:00	7.301	3.292	32.56	29.23	29.29	0
7/22/2018 17:15	7.996	16.47	16.38	28.89	29.29	0
7/22/2018 17:30	7.76	13.74	12.77	28.9	29.29	0
7/22/2018 17:45	7.2	4.883	13.86	28.81	29.29	0
7/22/2018 18:00	7.282	345.8	18.99	28.77	29.29	0
7/22/2018 18:15	6.775	334	12.16	28.6	29.29	0
7/22/2018 18:30	7.022	315.7	9.66	28.26	29.29	0
7/22/2018 18:45	8	321.9	6.139	27.55	29.29	0
7/22/2018 19:00	7.708	324.6	5.806	26.96	29.29	0
7/22/2018 19:15	6.22	333.4	10.87	26.44	29.29	0
7/22/2018 19:30	5.269	338.1	10.17	25.99	29.29	0
7/22/2018 19:45	5.024	334.4	16.1	25.53	29.29	0
7/22/2018 20:00	4.635	339.8	23.46	24.95	29.3	0
7/22/2018 20:15	6.982	8.87	13.22	24.76	29.3	0
7/22/2018 20:30	7.259	16.47	7.944	24.1	29.3	0
7/22/2018 20:45	5.598	19.25	14.4	23.47	29.3	0
7/22/2018 21:00	6.633	15.17	13.57	23.58	29.3	0
7/22/2018 21:15	7.48	19.84	10.13	23.18	29.3	0
7/22/2018 21:30	8.97	23.32	8.76	22.95	29.3	0
7/22/2018 21:45	9.59	35.32	8.65	22.46	29.3	0
7/22/2018 22:00	8.97	36.22	8.17	21.74	29.31	0
7/22/2018 22:15	7.595	30.34	11.74	21.75	29.31	0
7/22/2018 22:30	9.07	27.03	7.781	21.74	29.31	0
7/22/2018 22:45	7.798	32.86	11.79	21.1	29.31	0
7/22/2018 23:00	9.59	30.43	8.54	21.15	29.31	0
7/22/2018 23:15	9.92	31.56	9.94	20.93	29.31	0

7/22/2018 23:30	10.04	32.42	8.95	20.59	29.31	0
7/22/2018 23:45	11.29	29.4	8.18	20.29	29.31	0
7/23/2018 0:00	10.68	37.4	7.379	19.74	29.3	0
7/23/2018 0:15	9.77	40.11	8.41	19.38	29.3	0
7/23/2018 0:30	8.64	38.21	7.976	19.03	29.3	0
7/23/2018 0:45	8.53	38.35	9.08	19.01	29.3	0
7/23/2018 1:00	7.603	31.81	5.634	18.47	29.31	0
7/23/2018 1:15	5.427	30.21	7.262	18.06	29.31	0
7/23/2018 1:30	3.93	23.12	11.86	17.96	29.31	0
7/23/2018 1:45	5.112	46.49	9.91	17.7	29.31	0
7/23/2018 2:00	4.47	70.86	11.59	17.3	29.31	0
7/23/2018 2:15	3.472	91.9	4.929	17.14	29.31	0
7/23/2018 2:30	2.694	118.5	5.469	18.39	29.31	0
7/23/2018 2:45	2.912	143.3	4.178	18.9	29.31	0
7/23/2018 3:00	2.781	157.1	3.051	18.75	29.28	0
7/23/2018 3:15	1.866	156.9	7.078	18.71	29.28	0
7/23/2018 3:30	1.922	118.8	10.18	17.82	29.28	0
7/23/2018 3:45	2.854	134.8	13.45	18.02	29.28	0
7/23/2018 4:00	2.927	154.1	5.653	18.51	29.3	0
7/23/2018 4:15	2.144	133.4	7.327	17.84	29.3	0
7/23/2018 4:30	1.705	98.9	18.56	17.94	29.3	0
7/23/2018 4:45	0.255	329.2	4.647	18.12	29.3	0
7/23/2018 5:00	0.444	328.4	0.158	18.24	29.3	0
7/23/2018 5:15	3.205	324.1	11.06	17.09	29.3	0
7/23/2018 5:30	3.218	307.3	3.363	17.65	29.3	0
7/23/2018 5:45	1.169	297.3	2.159	18.06	29.3	0
7/23/2018 6:00	2.672	255.8	20.89	17.95	29.3	0
7/23/2018 6:15	2.172	257.9	14.79	18.23	29.3	0
7/23/2018 6:30	1.993	249.8	14.99	18.63	29.3	0
7/23/2018 6:45	2.601	258.9	9.12	18.79	29.3	0
7/23/2018 7:00	2.047	282.2	14.84	19.1	29.31	0
7/23/2018 7:15	1.928	261.8	15.36	19.57	29.31	0
7/23/2018 7:30	2.005	245.4	22.58	20.09	29.31	0
7/23/2018 7:45	1.62	238.5	29.07	20.48	29.31	0
7/23/2018 8:00	2.601	258.8	17.05	21.02	29.33	0
7/23/2018 8:15	2.966	266.7	21.93	21.74	29.33	0
7/23/2018 8:30	1.697	340.6	67.96	22.74	29.33	0
7/23/2018 8:45	2.746	21.04	19.29	22.79	29.33	0
7/23/2018 9:00	3.553	333.2	33.42	23.23	29.32	0
7/23/2018 9:15	3.688	292.6	30.03	23.63	29.32	0
7/23/2018 9:30	3.202	315.1	50.23	24.22	29.32	0
7/23/2018 9:45	5.719	283.6	22.49	24.6	29.32	0
7/23/2018 10:00	5.774	275.1	27.34	24.61	29.31	0
7/23/2018 10:15	5.169	280.5	30.81	25.07	29.31	0
7/23/2018 10:30	6.615	273.1	18.75	25.66	29.31	0
7/23/2018 10:45	7.295	276.6	12.69	25.99	29.31	0
7/23/2018 11:00	5.307	267.1	18.29	26.47	29.3	0

7/23/2018 11:15	6.539	256.3	17.07	26.98	29.3	0
7/23/2018 11:30	6.164	268.9	31.74	27.37	29.3	0
7/23/2018 11:45	4.373	331.8	62.59	28.07	29.3	0
7/23/2018 12:00	6.39	0.111	34.28	27.74	29.27	0
7/23/2018 12:15	6.143	2.443	22.52	28.28	29.27	0
7/23/2018 12:30	4.868	8.17	43.58	28.71	29.27	0
7/23/2018 12:45	3.839	358.7	46.42	28.95	29.27	0
7/23/2018 13:00	4.283	358.6	49.33	29.49	29.29	0
7/23/2018 13:15	6.058	347.4	55.52	29.6	29.29	0
7/23/2018 13:30	5.76	358.7	50.09	29.55	29.29	0
7/23/2018 13:45	7.099	292.4	15.68	29.73	29.29	0
7/23/2018 14:00	6.292	325.2	35.62	30.12	29.27	0
7/23/2018 14:15	7.706	327.4	25.84	30.43	29.27	0
7/23/2018 14:30	7.871	311.1	21.8	30.56	29.27	0
7/23/2018 14:45	7.232	320.9	21.09	30.73	29.27	0
7/23/2018 15:00	6.552	342.5	30.58	30.52	29.25	0
7/23/2018 15:15	7.615	330.5	17.05	30.6	29.25	0
7/23/2018 15:30	7.557	302.7	23.58	31.16	29.25	0
7/23/2018 15:45	7.978	305.9	21.34	30.83	29.25	0
7/23/2018 16:00	9.05	329.1	15.22	30.63	29.25	0
7/23/2018 16:15	8.58	322	13.44	31.1	29.25	0
7/23/2018 16:30	9.91	307.1	11.78	30.64	29.25	0
7/23/2018 16:45	9.55	314.8	17.69	30.68	29.25	0
7/23/2018 17:00	8.69	318.8	10.8	30.63	29.24	0
7/23/2018 17:15	9.33	307.9	13.64	30.3	29.24	0
7/23/2018 17:30	8.23	317.4	9.95	30.45	29.24	0
7/23/2018 17:45	8.54	311.8	11.52	30.23	29.24	0
7/23/2018 18:00	8.43	310.3	11.05	30.03	29.23	0
7/23/2018 18:15	8.07	315.7	8.52	29.88	29.23	0
7/23/2018 18:30	8.07	314.3	7.332	29.5	29.23	0
7/23/2018 18:45	8.6	319.3	4.716	29.08	29.23	0
7/23/2018 19:00	7.799	318.8	6.944	28.64	29.23	0
7/23/2018 19:15	7.152	316.2	5.804	28.17	29.23	0
7/23/2018 19:30	5.817	322.1	8.62	27.6	29.23	0
7/23/2018 19:45	5.035	337.9	22.47	27.04	29.23	0
7/23/2018 20:00	5.865	359.5	14.81	26.48	29.25	0
7/23/2018 20:15	6.761	13.67	9.67	25.67	29.25	0
7/23/2018 20:30	6.868	19.55	9.09	25.23	29.25	0
7/23/2018 20:45	3.662	25.58	16.16	24.86	29.25	0
7/23/2018 21:00	3.364	38.11	17.66	24.13	29.26	0
7/23/2018 21:15	7.559	29.72	17.68	24.15	29.26	0
7/23/2018 21:30	6.531	41.53	24.05	23.28	29.26	0
7/23/2018 21:45	8.43	34.4	15.92	23.09	29.26	0
7/23/2018 22:00	9.56	47.17	13.81	22.54	29.25	0
7/23/2018 22:15	10.64	43.57	16.87	22.58	29.25	0
7/23/2018 22:30	10.27	43.21	10.95	22.36	29.25	0
7/23/2018 22:45	12.78	24.04	7.501	21.97	29.25	0

7/23/2018 23:00	8.33	36.31	10.02	21.17	29.27	0
7/23/2018 23:15	6.742	43.17	10.96	20.67	29.27	0
7/23/2018 23:30	10.38	29.57	12.1	20.96	29.27	0
7/23/2018 23:45	13.3	27.23	7.308	21.24	29.27	0
7/24/2018 0:00	12.91	26.56	8.67	21.54	29.25	0
7/24/2018 0:15	10.47	21.85	6.28	20.87	29.25	0
7/24/2018 0:30	12.31	26.38	5.539	20.75	29.25	0
7/24/2018 0:45	11.7	27.85	6.316	21.22	29.25	0
7/24/2018 1:00	10.13	34.39	4.95	21.12	29.27	0
7/24/2018 1:15	4.78	101.2	62.78	19.3	29.27	0
7/24/2018 1:30	2.124	105	31.69	19.45	29.27	0
7/24/2018 1:45	3.362	54.43	22.29	20.07	29.27	0
7/24/2018 2:00	0.813	151.1	17.84	19.87	29.27	0
7/24/2018 2:15	1.518	128.1	37.2	19.55	29.27	0
7/24/2018 2:30	2.287	195.4	18.84	19.05	29.27	0
7/24/2018 2:45	5.302	200.6	8.21	18.28	29.27	0
7/24/2018 3:00	5.09	195.2	6.198	18.03	29.26	0
7/24/2018 3:15	3.564	196.6	4.244	17.6	29.26	0
7/24/2018 3:30	2.961	223	7.883	17.39	29.26	0
7/24/2018 3:45	3.941	214.5	12.75	17.41	29.26	0
7/24/2018 4:00	4.863	178.3	8.8	17.33	29.29	0
7/24/2018 4:15	3.574	147.2	9.95	16.92	29.29	0
7/24/2018 4:30	3.645	150.8	13.77	16.7	29.29	0
7/24/2018 4:45	2.865	121.4	10.93	16.24	29.29	0
7/24/2018 5:00	4.146	134	6.132	16.87	29.28	0
7/24/2018 5:15	4.768	170.3	7.259	16.8	29.28	0
7/24/2018 5:30	4.827	178	6.642	16.58	29.28	0
7/24/2018 5:45	2.803	152.4	19.84	16.95	29.28	0
7/24/2018 6:00	1.813	118.1	17.2	17.87	29.31	0
7/24/2018 6:15	3.801	167.3	11.33	17.87	29.31	0
7/24/2018 6:30	4.795	171.9	9.52	17.53	29.31	0
7/24/2018 6:45	4.42	177.3	12.39	17.74	29.31	0
7/24/2018 7:00	4.305	188	9.91	17.79	29.32	0
7/24/2018 7:15	3.472	172.8	13.07	18.44	29.32	0
7/24/2018 7:30	2.718	187.6	23.29	18.99	29.32	0
7/24/2018 7:45	2.682	197.1	25.02	19.68	29.32	0
7/24/2018 8:00	3.079	218.9	18.66	20.09	29.33	0
7/24/2018 8:15	3.405	225.1	16.29	20.4	29.33	0
7/24/2018 8:30	2.427	253.7	30.26	20.97	29.33	0
7/24/2018 8:45	2.431	236.4	69.81	22.01	29.33	0
7/24/2018 9:00	1.951	53.76	33.92	23.34	29.31	0
7/24/2018 9:15	3.966	15.67	35.85	23.74	29.31	0
7/24/2018 9:30	4.657	30.73	30.2	23.77	29.31	0
7/24/2018 9:45	4.24	17.54	40.27	24.54	29.31	0
7/24/2018 10:00	8.65	44.53	13.25	25.11	29.3	0
7/24/2018 10:15	3.891	351	62.06	25.64	29.3	0
7/24/2018 10:30	6.457	330.2	28.8	26.43	29.3	0

7/24/2018 10:45	7.097	339.8	21.13	26.17	29.3	0
7/24/2018 11:00	8.51	318.9	12.01	26.61	29.3	0
7/24/2018 11:15	8.49	309.7	14.59	26.94	29.3	0
7/24/2018 11:30	7.718	311.3	17.88	26.97	29.3	0
7/24/2018 11:45	6.237	309.1	22.73	27.21	29.3	0
7/24/2018 12:00	7.732	316.9	25.39	27.65	29.31	0
7/24/2018 12:15	7.581	329.5	24.26	27.94	29.31	0
7/24/2018 12:30	7.603	340.6	18.61	27.85	29.31	0
7/24/2018 12:45	8.72	330.4	24.08	28.59	29.31	0
7/24/2018 13:00	8.75	349.6	23.98	28.71	29.3	0
7/24/2018 13:15	7.393	27.14	22.71	29.19	29.3	0
7/24/2018 13:30	6.813	334.9	22.1	29.41	29.3	0
7/24/2018 13:45	8.17	320.4	17.83	29.61	29.3	0
7/24/2018 14:00	8.72	6.673	27.76	29.7	29.3	0
7/24/2018 14:15	8.29	14.86	20.89	29.58	29.3	0
7/24/2018 14:30	6.869	28.96	33.46	29.95	29.3	0
7/24/2018 14:45	7.751	31.83	15.49	30.18	29.3	0
7/24/2018 15:00	6.632	12.53	18.35	30.11	29.27	0
7/24/2018 15:15	7.431	0.75	33.96	30.32	29.27	0
7/24/2018 15:30	8.46	4.89	22.44	30.54	29.27	0
7/24/2018 15:45	8.25	355.8	23.75	30.66	29.27	0
7/24/2018 16:00	8.37	342.3	16.74	30.51	29.27	0
7/24/2018 16:15	9.88	325.1	13.24	30.73	29.27	0
7/24/2018 16:30	9.68	334.2	15.4	30.69	29.27	0
7/24/2018 16:45	9.64	331.3	9.96	30.35	29.27	0
7/24/2018 17:00	10.67	329.5	12.9	30.44	29.25	0
7/24/2018 17:15	10.79	322.8	8.38	30.09	29.25	0
7/24/2018 17:30	10.32	323.4	7.7	30.09	29.25	0
7/24/2018 17:45	10.74	324.6	8.03	29.94	29.25	0
7/24/2018 18:00	9.67	324.4	6.632	29.72	29.27	0
7/24/2018 18:15	9.36	331.4	9.68	29.41	29.27	0
7/24/2018 18:30	8.62	323.7	7.295	29.15	29.27	0
7/24/2018 18:45	8.72	333.5	6.443	28.7	29.27	0
7/24/2018 19:00	8.4	335.2	9.72	28.3	29.27	0
7/24/2018 19:15	6.835	342.3	7.842	27.74	29.27	0
7/24/2018 19:30	7.021	342.8	8.39	27.29	29.27	0
7/24/2018 19:45	6.389	344	5.932	26.54	29.27	0
7/24/2018 20:00	6.177	355.1	7.382	26.03	29.26	0
7/24/2018 20:15	5.127	12.21	14.09	25.73	29.26	0
7/24/2018 20:30	6.226	33.01	5.463	24.94	29.26	0
7/24/2018 20:45	9.2	35.43	6.687	24.2	29.26	0
7/24/2018 21:00	12.34	33.74	7.513	24.14	29.27	0
7/24/2018 21:15	11.62	37.33	6.729	23.71	29.27	0
7/24/2018 21:30	10.51	36.46	7.925	23.16	29.27	0
7/24/2018 21:45	10.63	32.08	7.702	22.82	29.27	0
7/24/2018 22:00	13.57	22.45	4.981	22.64	29.3	0
7/24/2018 22:15	13.18	26.19	5.358	21.88	29.3	0

7/24/2018 22:30	10.69	26.57	6.7	21.13	29.3	0
7/24/2018 22:45	10.1	27.28	7.22	20.7	29.3	0
7/24/2018 23:00	10.54	28.64	6.592	20.51	29.3	0
7/24/2018 23:15	9.09	30.56	6.859	20.45	29.3	0
7/24/2018 23:30	9.81	30.53	6.522	20.45	29.3	0
7/24/2018 23:45	8.07	27.73	6.307	20.25	29.3	0
7/25/2018 0:00	6.618	32.16	7.069	20.06	29.3	0
7/25/2018 0:15	7.293	41.8	5.266	19.94	29.3	0
7/25/2018 0:30	5.411	42.49	7.962	19.94	29.3	0
7/25/2018 0:45	3.314	62.08	12.1	19.95	29.3	0
7/25/2018 1:00	1.893	93	23.37	20.18	29.31	0
7/25/2018 1:15	1.173	97.4	35.79	19.33	29.31	0
7/25/2018 1:30	3.49	141.7	13.53	20.43	29.31	0
7/25/2018 1:45	2.643	123.3	16.42	19.7	29.31	0
7/25/2018 2:00	2.475	113.1	5.893	19.51	29.3	0
7/25/2018 2:15	2.976	135.2	16.51	19.45	29.3	0
7/25/2018 2:30	1.305	145.7	31.45	18.85	29.3	0
7/25/2018 2:45	2.352	254.1	11.19	18.26	29.3	0
7/25/2018 3:00	6.03	213.9	9.6	18	29.32	0
7/25/2018 3:15	5.861	210.3	5.975	17.84	29.32	0
7/25/2018 3:30	4.84	175.7	21.91	17.95	29.32	0
7/25/2018 3:45	4.399	160	6.296	17.9	29.32	0
7/25/2018 4:00	3.681	167.6	4.063	17.68	29.33	0
7/25/2018 4:15	1.505	148.6	6.31	17.13	29.33	0
7/25/2018 4:30	1.691	145.5	1.619	16.66	29.33	0
7/25/2018 4:45	2.434	134.2	6.095	16.73	29.33	0
7/25/2018 5:00	4.014	119.7	4.953	17.27	29.33	0
7/25/2018 5:15	1.696	85.6	19.66	17	29.33	0
7/25/2018 5:30	0.951	86.5	2.882	17.81	29.33	0
7/25/2018 5:45	1.691	90.7	16.1	18.28	29.33	0
7/25/2018 6:00	1.466	78.33	15.07	19.02	29.33	0
7/25/2018 6:15	1.008	55.49	2.697	19.42	29.33	0
7/25/2018 6:30	1.206	60.02	12.11	19.79	29.33	0
7/25/2018 6:45	1.257	97.3	24.67	20.9	29.33	0
7/25/2018 7:00	3.056	173.9	17.93	20.32	29.34	0
7/25/2018 7:15	2.861	190.6	19.52	20.4	29.34	0
7/25/2018 7:30	2.947	197.8	17.68	20.76	29.34	0
7/25/2018 7:45	4.086	191.4	18.86	21.17	29.34	0
7/25/2018 8:00	3.185	171.3	31.95	21.95	29.34	0
7/25/2018 8:15	2.993	212.2	31.18	22	29.34	0
7/25/2018 8:30	2.342	229.3	30.33	22.72	29.34	0
7/25/2018 8:45	3.775	264.7	22.07	23.03	29.34	0
7/25/2018 9:00	3.592	268.6	23.49	23.68	29.36	0
7/25/2018 9:15	3.656	287.1	33.58	24.19	29.36	0
7/25/2018 9:30	3.646	297.3	22.64	24.38	29.36	0
7/25/2018 9:45	4.128	293.4	23.67	25.01	29.36	0
7/25/2018 10:00	3.441	341.5	52	25.53	29.34	0

7/25/2018 10:15	3.854	353.7	53.28	25.97	29.34	0
7/25/2018 10:30	3.951	359.7	34.87	26.7	29.34	0
7/25/2018 10:45	3.777	290.7	46.92	26.87	29.34	0
7/25/2018 11:00	6.009	277.5	13.7	27.04	29.35	0
7/25/2018 11:15	5.133	280.6	30.98	27.67	29.35	0
7/25/2018 11:30	7.271	280.2	19.48	27.93	29.35	0
7/25/2018 11:45	6.146	291.9	36.52	28.26	29.35	0
7/25/2018 12:00	5.595	317.9	42.48	29.14	29.34	0
7/25/2018 12:15	6.348	3.441	64.64	28.83	29.34	0
7/25/2018 12:30	10.61	32.4	15.02	29.02	29.34	0
7/25/2018 12:45	9.38	25.63	22.58	29.13	29.34	0
7/25/2018 13:00	10.53	14.91	11.52	29.79	29.32	0
7/25/2018 13:15	9.99	16.62	14.8	29.68	29.32	0
7/25/2018 13:30	7.574	359.8	35.84	30	29.32	0
7/25/2018 13:45	8.1	345.9	21.6	29.96	29.32	0
7/25/2018 14:00	9.71	323.8	14.1	30.41	29.31	0
7/25/2018 14:15	11.89	320.8	12.09	30.65	29.31	0
7/25/2018 14:30	12.09	333.7	17.72	30.35	29.31	0
7/25/2018 14:45	8.75	326.4	18.82	30.63	29.31	0
7/25/2018 15:00	9.89	315.1	17.51	30.39	29.31	0
7/25/2018 15:15	12.8	309.7	9.99	30.55	29.31	0
7/25/2018 15:30	12.79	306.1	10.19	30.53	29.31	0
7/25/2018 15:45	10.27	310.1	12.83	30.46	29.31	0
7/25/2018 16:00	8.35	318.4	14.38	30.47	29.32	0
7/25/2018 16:15	9.05	316.6	12.36	30.51	29.32	0
7/25/2018 16:30	7.644	308.2	14.02	30.7	29.32	0
7/25/2018 16:45	7.672	324.2	17.73	30.6	29.32	0
7/25/2018 17:00	5.607	331.1	21.11	30.47	29.31	0
7/25/2018 17:15	5.458	331.8	25.16	30.68	29.31	0
7/25/2018 17:30	7.572	349.2	14.67	30.51	29.31	0
7/25/2018 17:45	7.296	330.9	13.37	30.4	29.31	0
7/25/2018 18:00	7.84	328.7	12.98	30.34	29.3	0
7/25/2018 18:15	7.735	330.4	7.512	30.09	29.3	0
7/25/2018 18:30	6.717	337.4	13.97	29.89	29.3	0
7/25/2018 18:45	5.143	321.5	6.807	29.73	29.3	0
7/25/2018 19:00	5.43	322.3	4.329	29.28	29.29	0
7/25/2018 19:15	5.788	320.8	3.333	28.71	29.29	0
7/25/2018 19:30	5.585	317.3	1.854	28.22	29.29	0
7/25/2018 19:45	5.729	321.3	4.397	27.7	29.29	0
7/25/2018 20:00	4.248	346.5	20.81	27.44	29.3	0
7/25/2018 20:15	5.596	10	14.05	27.35	29.3	0
7/25/2018 20:30	6.972	15.63	18.83	26.59	29.3	0
7/25/2018 20:45	5.392	10.74	17.22	26.31	29.3	0
7/25/2018 21:00	6.109	22.5	13.64	25.18	29.29	0
7/25/2018 21:15	8.06	21.51	16.42	25.19	29.29	0
7/25/2018 21:30	7.18	26.42	18.59	24.8	29.29	0
7/25/2018 21:45	6.208	41.98	10	23.46	29.29	0

7/25/2018 22:00	6.462	40.96	6.419	23.38	29.29	0
7/25/2018 22:15	6.03	41.28	9.17	23.23	29.29	0
7/25/2018 22:30	4.733	43.19	8.15	22.82	29.29	0
7/25/2018 22:45	5.047	38.75	7.381	22.91	29.29	0
7/25/2018 23:00	4.664	42.18	6.058	22.73	29.31	0
7/25/2018 23:15	4.647	48.8	5.46	22.77	29.31	0
7/25/2018 23:30	6.157	33.33	8.67	22.85	29.31	0
7/25/2018 23:45	7.321	30.04	3.837	23.01	29.31	0
7/26/2018 0:00	7.319	25.63	4.756	23.37	29.31	0
7/26/2018 0:15	6.668	27.21	7.839	23.61	29.31	0
7/26/2018 0:30	4.026	32.24	10.91	23.65	29.31	0
7/26/2018 0:45	2.144	32	12.14	22.88	29.31	0
7/26/2018 1:00	2.11	125.8	44.61	22.15	29.31	0
7/26/2018 1:15	2.489	142.7	27.09	21.18	29.31	0
7/26/2018 1:30	1.186	85.7	3.736	20.79	29.31	0
7/26/2018 1:45	0.546	90.4	0.725	20.46	29.31	0
7/26/2018 2:00	0.516	330.3	34.28	20.07	29.28	0
7/26/2018 2:15	1.853	272.1	27.65	19.77	29.28	0
7/26/2018 2:30	5.555	224.9	9.73	19.39	29.28	0
7/26/2018 2:45	5.702	219	3.847	19.19	29.28	0
7/26/2018 3:00	4.366	221.7	7.746	19.43	29.3	0
7/26/2018 3:15	4.659	204	12.27	19.53	29.3	0
7/26/2018 3:30	3.438	164.9	14.93	18.9	29.3	0
7/26/2018 3:45	0.893	151.5	0.988	18.35	29.3	0
7/26/2018 4:00	0.621	138.9	17	18.01	29.31	0
7/26/2018 4:15	1.888	99.1	5.635	18.18	29.31	0
7/26/2018 4:30	1.842	116.3	30.44	18.08	29.31	0
7/26/2018 4:45	4.344	164.7	5.02	18.64	29.31	0
7/26/2018 5:00	4.349	164.1	3.79	18.4	29.29	0
7/26/2018 5:15	3.759	152.5	3.417	18.43	29.29	0
7/26/2018 5:30	4.404	148.7	2.922	18.5	29.29	0
7/26/2018 5:45	5.451	161.7	4.376	18.77	29.29	0
7/26/2018 6:00	4.035	164.2	4.107	19.25	29.3	0
7/26/2018 6:15	2.875	164.6	8.54	19.44	29.3	0
7/26/2018 6:30	3.619	156.7	7.353	19.69	29.3	0
7/26/2018 6:45	3.264	155	15.38	20.07	29.3	0
7/26/2018 7:00	3.282	190.5	14.62	20.11	29.33	0
7/26/2018 7:15	3.754	178.9	11.59	20.4	29.33	0
7/26/2018 7:30	3.8	190.2	16.32	20.86	29.33	0
7/26/2018 7:45	4.199	197.5	12.9	21.17	29.33	0
7/26/2018 8:00	3.096	204.4	16.74	21.76	29.3	0
7/26/2018 8:15	3.512	219.7	19.02	21.92	29.3	0
7/26/2018 8:30	2.623	239.8	20.51	22.49	29.3	0
7/26/2018 8:45	2.422	225.3	30.36	23.06	29.3	0
7/26/2018 9:00	2.601	228.6	37.05	23.5	29.31	0
7/26/2018 9:15	3.433	261.6	32.21	24.15	29.31	0
7/26/2018 9:30	4.051	281.3	34.43	24.86	29.31	0

7/26/2018 9:45	4.858	300.3	25.9	25.82	29.31	0
7/26/2018 10:00	3.383	271.8	46.06	25.88	29.29	0
7/26/2018 10:15	4.717	297.5	29.65	26.28	29.29	0
7/26/2018 10:30	5.829	7.991	19.14	26.49	29.29	0
7/26/2018 10:45	5.261	311.6	49.14	27.14	29.29	0
7/26/2018 11:00	5.694	292.9	21.78	27.3	29.3	0
7/26/2018 11:15	6.431	278.5	20.05	27.57	29.3	0
7/26/2018 11:30	5.411	272.5	33.12	27.95	29.3	0
7/26/2018 11:45	7.537	276.7	21.92	28.3	29.3	0
7/26/2018 12:00	7.779	269.6	18.55	28.63	29.29	0
7/26/2018 12:15	7.116	292.3	26.49	29.01	29.29	0
7/26/2018 12:30	7.923	283.5	19.18	29.31	29.29	0
7/26/2018 12:45	7.943	290.2	16.37	29.34	29.29	0
7/26/2018 13:00	8.76	293.6	17.84	29.96	29.25	0
7/26/2018 13:15	7.929	296.9	14.64	30.37	29.25	0
7/26/2018 13:30	8.11	294.8	13.25	30.36	29.25	0
7/26/2018 13:45	8.81	298.7	14.34	30.77	29.25	0
7/26/2018 14:00	9.13	288.6	11.2	30.84	29.25	0
7/26/2018 14:15	8.48	291	15.18	30.9	29.25	0
7/26/2018 14:30	8.61	283.6	17.36	30.9	29.25	0
7/26/2018 14:45	7.783	293.7	16.78	30.92	29.25	0
7/26/2018 15:00	8.48	282.7	16.91	31.19	29.25	0
7/26/2018 15:15	7.293	301.2	29.42	31.33	29.25	0
7/26/2018 15:30	8.4	296.4	18.03	31.4	29.25	0
7/26/2018 15:45	7.32	313.6	20.55	31.71	29.25	0
7/26/2018 16:00	6.649	312.9	26.55	31.43	29.21	0
7/26/2018 16:15	5.656	313.9	32.51	31.61	29.21	0
7/26/2018 16:30	6.603	301.9	13.74	31.44	29.21	0
7/26/2018 16:45	7.215	285.8	30.49	31.37	29.21	0
7/26/2018 17:00	6.421	297.1	13.91	31.47	29.21	0
7/26/2018 17:15	7.084	298.3	10.71	31.24	29.21	0
7/26/2018 17:30	7.571	298.5	11.74	31.2	29.21	0
7/26/2018 17:45	7.375	299.2	10.02	31.15	29.21	0
7/26/2018 18:00	7.016	306.8	7.064	31	29.2	0
7/26/2018 18:15	6.389	306.6	11.69	30.86	29.2	0
7/26/2018 18:30	6.497	320.3	9	30.58	29.2	0
7/26/2018 18:45	5.275	323.8	5.543	30.3	29.2	0
7/26/2018 19:00	4.804	322	1.885	30.1	29.19	0
7/26/2018 19:15	4.243	320.5	1.119	29.88	29.19	0
7/26/2018 19:30	3.875	308.5	8.34	29.41	29.19	0
7/26/2018 19:45	6.195	260.5	6.696	28.81	29.19	0
7/26/2018 20:00	7.502	270.6	8.69	27.82	29.21	0
7/26/2018 20:15	6.538	295.2	12.88	26.75	29.21	0
7/26/2018 20:30	9.26	291.3	5.465	26.77	29.21	0
7/26/2018 20:45	8.17	298.5	8.34	26.57	29.21	0
7/26/2018 21:00	6.134	287.8	6.644	25.89	29.23	0
7/26/2018 21:15	3.787	259.8	12.82	25.71	29.23	0

7/26/2018 21:30	2.172	145.6	15.8	24.65	29.23	0
7/26/2018 21:45	4.819	196.2	11.04	24.03	29.23	0
7/26/2018 22:00	7.213	200.3	5.262	23.26	29.24	0
7/26/2018 22:15	8.9	207.1	9.83	22.6	29.24	0
7/26/2018 22:30	7.335	237.9	8.86	22.33	29.24	0
7/26/2018 22:45	4.226	237.6	7.653	22.24	29.24	0
7/26/2018 23:00	2.517	233.5	8.35	21.97	29.21	0
7/26/2018 23:15	1.206	286.3	7.073	21.46	29.21	0
7/26/2018 23:30	0.515	276.4	0.197	21.37	29.21	0
7/26/2018 23:45	1.314	259	12.12	21.24	29.21	0
7/27/2018 0:00	2.213	252.7	2.716	21.27	29.22	0
7/27/2018 0:15	2.376	250	3.115	20.68	29.22	0
7/27/2018 0:30	1.534	250.7	2.243	20.41	29.22	0
7/27/2018 0:45	0.59	283	44.76	19.83	29.22	0
7/27/2018 1:00	0.036	200.2	0.017	19.32	29.22	0
7/27/2018 1:15	0.097	198.6	0.466	19.16	29.22	0
7/27/2018 1:30	2.425	203	4.713	19.22	29.22	0
7/27/2018 1:45	2.791	207.5	2.937	18.91	29.22	0
7/27/2018 2:00	4.339	212	3.123	18.39	29.22	0
7/27/2018 2:15	4.253	223.9	5.727	17.84	29.22	0
7/27/2018 2:30	4.217	232.5	2.751	17.79	29.22	0
7/27/2018 2:45	2.938	212.1	16.33	17.66	29.22	0
7/27/2018 3:00	3.366	191.5	8.58	17.13	29.21	0
7/27/2018 3:15	4.892	201.7	3.4	16.74	29.21	0
7/27/2018 3:30	5.2	200.6	2.318	16.38	29.21	0
7/27/2018 3:45	5.223	205.8	2.639	16.15	29.21	0
7/27/2018 4:00	3.257	194.3	6.994	15.9	29.22	0
7/27/2018 4:15	3.691	199.7	3.004	15.83	29.22	0
7/27/2018 4:30	4.563	201.9	2.047	15.6	29.22	0
7/27/2018 4:45	3.654	195.4	3.5	15.34	29.22	0
7/27/2018 5:00	4.017	190.3	2.588	15.04	29.21	0
7/27/2018 5:15	4.861	193.8	4.164	15.02	29.21	0
7/27/2018 5:30	5.135	200.2	3.42	14.98	29.21	0
7/27/2018 5:45	3.423	188.9	9.27	15.04	29.21	0
7/27/2018 6:00	3.31	181.1	6.599	15.09	29.22	0
7/27/2018 6:15	3.145	190.1	8.09	15.29	29.22	0
7/27/2018 6:30	2.72	190.3	12.52	15.55	29.22	0
7/27/2018 6:45	2.702	190.2	14.81	15.88	29.22	0
7/27/2018 7:00	2.89	220.7	13.56	16.18	29.24	0
7/27/2018 7:15	3.309	231.1	10.56	16.55	29.24	0
7/27/2018 7:30	2.504	229	33.72	16.8	29.24	0
7/27/2018 7:45	2.546	237.1	23.44	17.29	29.24	0
7/27/2018 8:00	2.809	234.2	14.42	17.8	29.22	0
7/27/2018 8:15	3.387	234.2	13.99	18.27	29.22	0
7/27/2018 8:30	2.837	232.2	30.24	18.8	29.22	0
7/27/2018 8:45	2.587	261.7	51.59	19.57	29.22	0
7/27/2018 9:00	2.534	264.8	35.33	20.19	29.22	0

7/27/2018 9:15	3.79	247.7	42.92	20.73	29.22	0
7/27/2018 9:30	3.769	284.9	37.7	20.91	29.22	0
7/27/2018 9:45	4.514	269.4	26.2	21.4	29.22	0
7/27/2018 10:00	4.869	259.8	32.43	21.98	29.21	0
7/27/2018 10:15	3.618	275.4	40.43	22.6	29.21	0
7/27/2018 10:30	5.024	255.5	31.71	23.26	29.21	0
7/27/2018 10:45	5.083	265.2	29.76	23.49	29.21	0
7/27/2018 11:00	4.403	283	34.07	23.81	29.21	0
7/27/2018 11:15	6.12	296.2	27.36	24.46	29.21	0
7/27/2018 11:30	7.015	266.6	18.3	24.47	29.21	0
7/27/2018 11:45	6.114	267.9	22.11	24.78	29.21	0
7/27/2018 12:00	5.383	264.2	21.58	25.17	29.2	0
7/27/2018 12:15	6.051	287.9	23.39	25.34	29.2	0
7/27/2018 12:30	7.114	257.4	24.19	25.61	29.2	0
7/27/2018 12:45	9.16	258.8	17.46	25.98	29.2	0
7/27/2018 13:00	8.23	266.7	16.11	26.38	29.21	0
7/27/2018 13:15	7.988	286.9	19.74	26.73	29.21	0
7/27/2018 13:30	7.612	284.6	18.58	27.11	29.21	0
7/27/2018 13:45	6.797	277.9	23.84	27.4	29.21	0
7/27/2018 14:00	7.304	281.4	23.99	27.59	29.18	0
7/27/2018 14:15	7.501	275.9	21.04	27.64	29.18	0
7/27/2018 14:30	7.823	291.5	33.3	28.52	29.18	0
7/27/2018 14:45	7.238	275.9	28.41	28.71	29.18	0
7/27/2018 15:00	6.044	290.3	26.96	28.56	29.18	0
7/27/2018 15:15	6.847	290.7	25.97	28.8	29.18	0
7/27/2018 15:30	6.02	292.6	21.31	28.65	29.18	0
7/27/2018 15:45	6.972	291.1	17.09	28.66	29.18	0
7/27/2018 16:00	4.756	309.7	30.74	28.96	29.17	0
7/27/2018 16:15	6.313	305.5	17.76	29.1	29.17	0
7/27/2018 16:30	5.341	317.2	20.09	29	29.17	0
7/27/2018 16:45	5.923	289.6	23.55	29.26	29.17	0
7/27/2018 17:00	5.751	292.5	17.97	29.05	29.16	0
7/27/2018 17:15	5.319	301.7	15.07	29.25	29.16	0
7/27/2018 17:30	5.603	291.7	18.81	28.92	29.16	0
7/27/2018 17:45	4.981	291.6	22.82	29.02	29.16	0
7/27/2018 18:00	5.656	317.8	15.82	28.76	29.15	0
7/27/2018 18:15	4.343	338.6	14.25	28.67	29.15	0
7/27/2018 18:30	4.916	352.4	17.74	28.39	29.15	0
7/27/2018 18:45	5.108	23.27	7.809	27.51	29.15	0
7/27/2018 19:00	4.309	18.39	5.283	27.28	29.15	0
7/27/2018 19:15	2.579	0.464	11.61	27.51	29.15	0
7/27/2018 19:30	3.581	335	5.024	27.17	29.15	0
7/27/2018 19:45	3.967	332	4.045	26.6	29.15	0
7/27/2018 20:00	4.547	301.2	24.93	26.24	29.14	0
7/27/2018 20:15	6.997	284	4.143	26.08	29.14	0
7/27/2018 20:30	5.587	293	4.719	25.53	29.14	0
7/27/2018 20:45	5.18	289.6	9.69	25.09	29.14	0

7/27/2018 21:00	4.241	316.1	9.01	24.41	29.17	0
7/27/2018 21:15	4.199	308.4	2.912	24.17	29.17	0
7/27/2018 21:30	5.192	292.1	7.274	24.01	29.17	0
7/27/2018 21:45	5.715	290	6.16	23.85	29.17	0
7/27/2018 22:00	6.125	272	21.56	23.31	29.17	0
7/27/2018 22:15	3.803	223.4	10.47	22.41	29.17	0
7/27/2018 22:30	4.053	213.8	3.247	21.76	29.17	0
7/27/2018 22:45	4.14	207.3	10.33	21.26	29.17	0
7/27/2018 23:00	5.317	236.5	6.197	21.32	29.2	0
7/27/2018 23:15	4.744	222.2	6.41	21.16	29.2	0
7/27/2018 23:30	4.265	213.9	5.299	20.73	29.2	0
7/27/2018 23:45	3.199	197.6	15.64	20.41	29.2	0
7/28/2018 0:00	3.196	174.2	7.626	19.82	29.19	0
7/28/2018 0:15	5.043	160.8	6.124	19.09	29.19	0
7/28/2018 0:30	6.606	191.6	6.802	19.41	29.19	0
7/28/2018 0:45	4.94	196.3	4.47	19.47	29.19	0
7/28/2018 1:00	5.727	209.7	5.342	19.19	29.21	0
7/28/2018 1:15	5.709	219.2	4.072	19.03	29.21	0
7/28/2018 1:30	4.658	228.7	6.201	18.92	29.21	0
7/28/2018 1:45	5.412	242.5	5.639	18.63	29.21	0
7/28/2018 2:00	5.351	237.7	7.739	18.19	29.19	0
7/28/2018 2:15	4.32	234.3	5.3	17.96	29.19	0
7/28/2018 2:30	3.512	228.1	5.907	17.53	29.19	0
7/28/2018 2:45	2.491	248.5	16.83	17.12	29.19	0
7/28/2018 3:00	2.846	273.1	5.131	16.62	29.2	0
7/28/2018 3:15	3.798	262.3	7.566	16.35	29.2	0
7/28/2018 3:30	3.464	247.4	6.091	16.25	29.2	0
7/28/2018 3:45	2.068	225.5	11.14	16.12	29.2	0
7/28/2018 4:00	2.158	215.3	9.68	15.89	29.23	0
7/28/2018 4:15	2.131	196.8	15.04	15.77	29.23	0
7/28/2018 4:30	2.259	178.4	7.616	15.58	29.23	0
7/28/2018 4:45	3.004	199	8.61	15.45	29.23	0
7/28/2018 5:00	4.029	205.3	3.464	15.28	29.23	0
7/28/2018 5:15	2.577	202.3	4.037	15.15	29.23	0
7/28/2018 5:30	1.972	198.1	16.51	15	29.23	0
7/28/2018 5:45	3.581	205.9	5.998	15.13	29.23	0
7/28/2018 6:00	4.015	201.4	3.206	15.19	29.22	0
7/28/2018 6:15	3.062	196.6	5.689	15.33	29.22	0
7/28/2018 6:30	3.522	200.8	8.33	15.47	29.22	0
7/28/2018 6:45	3.244	193.7	9.74	15.6	29.22	0
7/28/2018 7:00	4.007	203.3	9.36	15.77	29.25	0
7/28/2018 7:15	3.949	185.9	10.31	16.17	29.25	0
7/28/2018 7:30	2.835	200.1	16.01	16.41	29.25	0
7/28/2018 7:45	2.512	201.4	25.56	16.84	29.25	0
7/28/2018 8:00	2.977	224.3	22.94	17.4	29.25	0
7/28/2018 8:15	2.489	240.2	33.99	17.68	29.25	0
7/28/2018 8:30	3.446	252.2	26.98	18.32	29.25	0

7/28/2018 8:45	2.923	237.9	23.26	18.69	29.25	0
7/28/2018 9:00	3.941	220.9	25.66	19.12	29.25	0
7/28/2018 9:15	4.079	234.9	23.99	19.52	29.25	0
7/28/2018 9:30	3.74	223.9	30.68	19.95	29.25	0
7/28/2018 9:45	4.001	267.9	43.87	20.53	29.25	0
7/28/2018 10:00	3.172	316.6	22.76	21.44	29.23	0
7/28/2018 10:15	4.126	246.6	22.15	21.57	29.23	0
7/28/2018 10:30	5.3	228.1	20.99	21.74	29.23	0
7/28/2018 10:45	4.616	257.1	37.87	22.59	29.23	0
7/28/2018 11:00	5.581	254.5	23.68	22.57	29.24	0
7/28/2018 11:15	5.254	247.1	18.3	22.65	29.24	0
7/28/2018 11:30	5.514	252.4	22.9	23.02	29.24	0
7/28/2018 11:45	5.709	237.2	20.68	23.26	29.24	0
7/28/2018 12:00	6.744	260.2	21.44	24.02	29.23	0
7/28/2018 12:15	5.044	242	28.24	24.13	29.23	0
7/28/2018 12:30	5.22	267.8	36.22	24.74	29.23	0
7/28/2018 12:45	5.543	264.4	25.14	25.06	29.23	0
7/28/2018 13:00	4.658	298.4	20.12	25.34	29.22	0
7/28/2018 13:15	4.383	303.3	24.43	25.57	29.22	0
7/28/2018 13:30	5.602	274.2	33.42	26.1	29.22	0
7/28/2018 13:45	6.197	280.2	34.78	26.08	29.22	0
7/28/2018 14:00	5.088	261.6	24.39	26.61	29.22	0
7/28/2018 14:15	4.446	311.5	34.08	26.83	29.22	0
7/28/2018 14:30	4.746	276.3	23.07	26.95	29.22	0
7/28/2018 14:45	4.607	300.1	33.19	27.31	29.22	0
7/28/2018 15:00	5.344	283.3	25.27	27.64	29.21	0
7/28/2018 15:15	4.4	270.3	38.16	27.37	29.21	0
7/28/2018 15:30	5.291	304.6	48.31	27.78	29.21	0
7/28/2018 15:45	5.864	274.2	25.84	27.74	29.21	0
7/28/2018 16:00	5.706	295.1	37.53	28.08	29.2	0
7/28/2018 16:15	4.617	297.8	41.32	28.25	29.2	0
7/28/2018 16:30	4.438	282.2	37.44	28.21	29.2	0
7/28/2018 16:45	4.6	298.6	22.89	28.05	29.2	0
7/28/2018 17:00	4.147	264.6	21.11	28.19	29.19	0
7/28/2018 17:15	4.215	302.3	33.39	28.29	29.19	0
7/28/2018 17:30	1.734	350	20.1	28.53	29.19	0
7/28/2018 17:45	4.415	352.4	17.99	27.98	29.19	0
7/28/2018 18:00	5.547	340.2	16.56	27.9	29.18	0
7/28/2018 18:15	5.53	329.7	5.214	27.56	29.18	0
7/28/2018 18:30	5.123	336.8	7.523	27.35	29.18	0
7/28/2018 18:45	4.277	347.6	14.98	26.91	29.18	0
7/28/2018 19:00	6.949	320.2	5.495	26.61	29.19	0
7/28/2018 19:15	6.482	324.4	5.709	26.11	29.19	0
7/28/2018 19:30	4.993	322.2	2.392	25.66	29.19	0
7/28/2018 19:45	4.437	324.5	2.883	25.32	29.19	0
7/28/2018 20:00	3.899	325.7	3.018	25.11	29.22	0
7/28/2018 20:15	3.003	327.7	3.987	24.99	29.22	0

7/28/2018 20:30	2.63	338.6	11.92	24.9	29.22	0
7/28/2018 20:45	2.668	26.42	7.938	23.88	29.22	0
7/28/2018 21:00	2.36	48.46	1.939	23.7	29.24	0
7/28/2018 21:15	2.298	66.63	2.239	23.41	29.24	0
7/28/2018 21:30	3.042	59.22	8.06	23.33	29.24	0
7/28/2018 21:45	3.543	64.3	12.67	22.84	29.24	0
7/28/2018 22:00	3.205	70.6	13.07	21.99	29.22	0
7/28/2018 22:15	2.975	45.72	6.208	22.19	29.22	0
7/28/2018 22:30	3.071	47.64	6.569	21.75	29.22	0
7/28/2018 22:45	3.248	49.5	8.84	21.62	29.22	0
7/28/2018 23:00	2.842	53.46	14.61	21.37	29.23	0
7/28/2018 23:15	2.914	42.25	11.18	20.68	29.23	0
7/28/2018 23:30	2.424	43.29	8.56	20.32	29.23	0
7/28/2018 23:45	2.454	103.2	36.83	20.35	29.23	0
7/29/2018 0:00	1.945	133.6	28.78	21.02	29.25	0
7/29/2018 0:15	2.957	179.9	8.72	21.14	29.25	0
7/29/2018 0:30	2.449	153.8	10.42	20.77	29.25	0
7/29/2018 0:45	1.774	126.6	8.96	20.31	29.25	0
7/29/2018 1:00	3.607	147.1	21.54	19.73	29.23	0
7/29/2018 1:15	4.45	162	4.502	20.04	29.23	0
7/29/2018 1:30	3.908	156.3	8.1	19.73	29.23	0
7/29/2018 1:45	4.733	176.1	5.475	19.97	29.23	0
7/29/2018 2:00	4.835	179.8	6.033	19.47	29.25	0
7/29/2018 2:15	4.713	173.8	5.833	19.22	29.25	0
7/29/2018 2:30	4.197	175.6	8.92	18.9	29.25	0
7/29/2018 2:45	4.721	194.1	4.904	18.95	29.25	0
7/29/2018 3:00	3.254	172.9	24.11	18.54	29.25	0
7/29/2018 3:15	1.634	152.2	22.68	18.15	29.25	0
7/29/2018 3:30	3.787	160.9	11.99	18.55	29.25	0
7/29/2018 3:45	3.029	135.8	5.81	18.31	29.25	0
7/29/2018 4:00	2.932	141.7	4.119	18.57	29.25	0
7/29/2018 4:15	2.32	158.7	5.08	18.46	29.25	0
7/29/2018 4:30	0.577	136.3	26.86	17.99	29.25	0
7/29/2018 4:45	1.628	34.52	2.133	17.93	29.25	0
7/29/2018 5:00	0.538	34.29	0.081	17.76	29.23	0
7/29/2018 5:15	0.704	34.29	0.137	17.52	29.23	0
7/29/2018 5:30	2.484	32.93	2.01	17.29	29.23	0
7/29/2018 5:45	1.997	30.56	0.888	17.26	29.23	0
7/29/2018 6:00	0.888	29.48	0.129	17.62	29.25	0
7/29/2018 6:15	0.745	29.65	0.161	18.24	29.25	0
7/29/2018 6:30	0.618	31.45	1.407	18.86	29.25	0
7/29/2018 6:45	1.03	75.25	22.55	19.36	29.25	0
7/29/2018 7:00	1.532	93.6	20.06	19.67	29.27	0
7/29/2018 7:15	1.342	114.2	13.67	20.48	29.27	0
7/29/2018 7:30	1.432	130.9	20	20.76	29.27	0
7/29/2018 7:45	1.951	81.9	27.04	21.83	29.27	0
7/29/2018 8:00	2.312	60.06	24.28	21.68	29.25	0

7/29/2018 8:15	2.853	41.08	22.88	21.73	29.25	0
7/29/2018 8:30	2.55	2.252	26.46	22.27	29.25	0
7/29/2018 8:45	3.411	326.9	37.6	23.09	29.25	0
7/29/2018 9:00	3.652	320.9	24.14	23.2	29.26	0
7/29/2018 9:15	3.145	322.8	28.2	24.1	29.26	0
7/29/2018 9:30	2.831	28	29.79	24.7	29.26	0
7/29/2018 9:45	3.398	47.1	46.25	25.14	29.26	0
7/29/2018 10:00	3.202	26.36	53.04	25.36	29.26	0
7/29/2018 10:15	5.155	291.1	15.42	25.51	29.26	0
7/29/2018 10:30	4.439	285.3	29.07	26.3	29.26	0
7/29/2018 10:45	6.063	298.8	27.3	26.68	29.26	0
7/29/2018 11:00	8.4	282.5	11.91	26.97	29.23	0
7/29/2018 11:15	6.919	274.6	12.12	27.28	29.23	0
7/29/2018 11:30	6.259	279	11.21	27.38	29.23	0
7/29/2018 11:45	7.11	274.9	11.15	28.12	29.23	0
7/29/2018 12:00	8.36	273.9	11.51	28.63	29.23	0
7/29/2018 12:15	8.02	283.9	12.64	29.11	29.23	0
7/29/2018 12:30	4.844	281.3	27.25	29.26	29.23	0
7/29/2018 12:45	5.004	355.4	47.91	30.53	29.23	0
7/29/2018 13:00	5.809	351.4	34.62	30.78	29.22	0
7/29/2018 13:15	5.441	356.3	30.51	31.25	29.22	0
7/29/2018 13:30	9.25	23.86	19.48	31.18	29.22	0
7/29/2018 13:45	10.86	32.91	15.48	31.12	29.22	0
7/29/2018 14:00	10.22	23.82	11.99	31.6	29.2	0
7/29/2018 14:15	10.87	22.92	10.29	31.85	29.2	0
7/29/2018 14:30	9.15	16.82	12.18	32.08	29.2	0
7/29/2018 14:45	9.85	30.85	14.6	32.46	29.2	0
7/29/2018 15:00	8.16	6.284	19.63	32.67	29.17	0
7/29/2018 15:15	7.681	20.66	16.2	32.98	29.17	0
7/29/2018 15:30	8.27	325.4	22.67	33.26	29.17	0
7/29/2018 15:45	8.81	317.4	14.77	33.4	29.17	0
7/29/2018 16:00	8.23	330.2	25.03	33.39	29.16	0
7/29/2018 16:15	7.808	328.8	14.8	33.33	29.16	0
7/29/2018 16:30	6.467	349.5	32.01	33.5	29.16	0
7/29/2018 16:45	7.227	350	21.95	33.25	29.16	0
7/29/2018 17:00	7.417	335.6	10.28	33.08	29.17	0
7/29/2018 17:15	7.101	347.7	14.83	32.94	29.17	0
7/29/2018 17:30	6.987	338.9	20.31	32.76	29.17	0
7/29/2018 17:45	7.001	337.2	11.7	32.6	29.17	0
7/29/2018 18:00	5.889	340.4	11.98	32.28	29.17	0
7/29/2018 18:15	4.998	344.1	17.59	31.99	29.17	0
7/29/2018 18:30	4.573	321	14.31	31.36	29.17	0
7/29/2018 18:45	4.506	309.7	12.93	30.6	29.17	0
7/29/2018 19:00	5.349	283	4.473	29.69	29.17	0
7/29/2018 19:15	4.037	287.2	4.131	29.05	29.17	0
7/29/2018 19:30	4.998	288.3	3.71	28.49	29.17	0
7/29/2018 19:45	4.258	306	17.18	28.04	29.17	0

7/29/2018 20:00	4.58	309.5	5.922	27.46	29.15	0
7/29/2018 20:15	3.221	305.6	7.552	27.4	29.15	0
7/29/2018 20:30	2.463	303.6	4.098	27.38	29.15	0
7/29/2018 20:45	2.719	2.221	24.41	26.99	29.15	0
7/29/2018 21:00	5.411	32.44	7.914	25.81	29.17	0
7/29/2018 21:15	5.067	41.14	7.973	25.12	29.17	0
7/29/2018 21:30	6.18	46.15	7.802	24.77	29.17	0
7/29/2018 21:45	6.402	47.37	5.885	24.64	29.17	0
7/29/2018 22:00	6.059	50.39	6.597	24.58	29.17	0
7/29/2018 22:15	5.229	42.37	7.621	24.36	29.17	0
7/29/2018 22:30	4.783	33.27	5.876	23.76	29.17	0
7/29/2018 22:45	5.116	31.15	5.7	23.33	29.17	0
7/29/2018 23:00	4.706	20.47	9.95	23.37	29.18	0
7/29/2018 23:15	4.214	13.51	8.27	23.73	29.18	0
7/29/2018 23:30	3.989	24.43	6.083	23.64	29.18	0
7/29/2018 23:45	3.142	21.69	5.998	23.18	29.18	0
7/30/2018 0:00	3.145	48.82	14.9	22.82	29.19	0
7/30/2018 0:15	2.97	82.2	21.52	22.4	29.19	0
7/30/2018 0:30	4.092	182.4	29.3	23.15	29.19	0
7/30/2018 0:45	4.947	208	3.815	23.07	29.19	0
7/30/2018 1:00	4.084	202.2	7.185	22.58	29.2	0
7/30/2018 1:15	3.798	205.5	10.18	22.02	29.2	0
7/30/2018 1:30	3.856	186	10.77	22.11	29.2	0
7/30/2018 1:45	5.052	168.7	5.401	22.19	29.2	0
7/30/2018 2:00	5.173	165.6	5.974	21.77	29.2	0
7/30/2018 2:15	6.758	169.1	2.825	21.33	29.2	0
7/30/2018 2:30	5.208	168.7	7.976	21.46	29.2	0
7/30/2018 2:45	3.614	166.5	11.7	21.43	29.2	0
7/30/2018 3:00	4.784	150.9	7.374	21.64	29.21	0
7/30/2018 3:15	5.195	158.7	7.803	21.38	29.21	0
7/30/2018 3:30	5.291	180.1	4.079	20.84	29.21	0
7/30/2018 3:45	4.583	182	3.905	20.63	29.21	0
7/30/2018 4:00	2.996	190.9	5.33	20.44	29.22	0
7/30/2018 4:15	1.192	189	5.129	19.99	29.22	0
7/30/2018 4:30	1.429	180.4	7.539	19.92	29.22	0
7/30/2018 4:45	2.828	176.9	4.787	20.1	29.22	0
7/30/2018 5:00	2.907	166.1	9.78	19.79	29.22	0
7/30/2018 5:15	2.814	157.3	6.94	19.65	29.22	0
7/30/2018 5:30	3.151	180.4	4.797	19.46	29.22	0
7/30/2018 5:45	4.195	195.4	6.829	19.28	29.22	0
7/30/2018 6:00	3.687	202.3	5.353	19.17	29.21	0
7/30/2018 6:15	3.274	206.2	6.424	19.29	29.21	0
7/30/2018 6:30	3.372	209	6.222	19.52	29.21	0
7/30/2018 6:45	4.035	228.3	7.651	19.59	29.21	0
7/30/2018 7:00	4.038	227.3	6.689	19.88	29.23	0
7/30/2018 7:15	3.647	225.7	9.06	20.04	29.23	0
7/30/2018 7:30	3.412	222.9	13.08	20.36	29.23	0

7/30/2018 7:45	3.744	225.9	16.46	20.75	29.23	0
7/30/2018 8:00	3.437	226.3	15.2	21.02	29.21	0
7/30/2018 8:15	3.2	230.2	17.98	21.49	29.21	0
7/30/2018 8:30	3.458	209.5	18.06	21.88	29.21	0
7/30/2018 8:45	2.624	197.1	44.85	22.33	29.21	0
7/30/2018 9:00	1.714	189.7	51.91	23.18	29.21	0
7/30/2018 9:15	3.181	237.3	21.13	23.55	29.21	0
7/30/2018 9:30	4.044	220.1	35.56	23.92	29.21	0
7/30/2018 9:45	3.87	246.1	23.32	24.29	29.21	0
7/30/2018 10:00	3.016	234.4	21.18	24.73	29.22	0
7/30/2018 10:15	3.481	245.9	30.83	25.43	29.22	0
7/30/2018 10:30	3.098	265.6	31.15	25.87	29.22	0
7/30/2018 10:45	4.303	275.7	17	26.19	29.22	0
7/30/2018 11:00	6.312	262.7	21.73	26.65	29.19	0
7/30/2018 11:15	5.499	260.6	22.9	26.72	29.19	0
7/30/2018 11:30	5.088	286.4	29.97	27.2	29.19	0
7/30/2018 11:45	5.685	296.5	22.52	27.67	29.19	0
7/30/2018 12:00	6.495	295.2	20.13	27.87	29.19	0
7/30/2018 12:15	6.739	283.1	17.4	27.73	29.19	0
7/30/2018 12:30	6.196	285	19.74	27.86	29.19	0
7/30/2018 12:45	7.501	281	17.71	28.03	29.19	0
7/30/2018 13:00	6.625	298.7	12.47	28.56	29.17	0
7/30/2018 13:15	6.858	292.2	18.82	28.59	29.17	0
7/30/2018 13:30	6.204	281.1	22.4	29.05	29.17	0
7/30/2018 13:45	7.949	271.5	16.57	29.06	29.17	0
7/30/2018 14:00	7.624	288.3	14.56	29.19	29.18	0
7/30/2018 14:15	6.983	280.9	14.28	29.31	29.18	0
7/30/2018 14:30	5.257	265.8	46.44	29.55	29.18	0
7/30/2018 14:45	6.735	262.4	25.74	29.73	29.18	0
7/30/2018 15:00	6.88	259.6	23.01	29.96	29.13	0
7/30/2018 15:15	6.937	259.4	25.37	30.35	29.13	0
7/30/2018 15:30	7.255	269.3	22.32	30.2	29.13	0
7/30/2018 15:45	5.392	263	22.44	30.57	29.13	0
7/30/2018 16:00	6.596	257.5	15.69	30.67	29.14	0
7/30/2018 16:15	8.47	285.5	10.29	30.67	29.14	0
7/30/2018 16:30	8.44	284.5	11.98	30.53	29.14	0
7/30/2018 16:45	7.664	290.4	12.63	30.45	29.14	0
7/30/2018 17:00	6.217	277.5	14.02	30.56	29.14	0
7/30/2018 17:15	6.176	279.9	11.12	30.59	29.14	0
7/30/2018 17:30	6.62	275	19.26	30.39	29.14	0
7/30/2018 17:45	7.645	268.8	12.42	30.05	29.14	0
7/30/2018 18:00	7.845	282.2	12.48	29.61	29.14	0
7/30/2018 18:15	7.84	271.7	9.88	29.36	29.14	0
7/30/2018 18:30	7.729	280.6	7.73	28.91	29.14	0
7/30/2018 18:45	7.827	283.3	7.348	28.53	29.14	0
7/30/2018 19:00	7.797	283	6.137	28.09	29.15	0
7/30/2018 19:15	8.23	271.7	7.603	27.47	29.15	0

7/30/2018 19:30	6.868	265.9	7.857	26.91	29.15	0
7/30/2018 19:45	5.844	262.2	5.447	26.41	29.15	0
7/30/2018 20:00	6.063	248.2	7.153	26.02	29.17	0
7/30/2018 20:15	7.265	249.5	6.121	25.46	29.17	0
7/30/2018 20:30	7.472	249.1	7.039	24.93	29.17	0
7/30/2018 20:45	6.171	240.9	10.76	24.41	29.17	0
7/30/2018 21:00	4.194	257.1	7.546	23.78	29.18	0
7/30/2018 21:15	2.54	251.9	11.86	23.41	29.18	0
7/30/2018 21:30	4.667	219.6	4.674	22.92	29.18	0
7/30/2018 21:45	6.004	226.2	6.619	22.33	29.18	0
7/30/2018 22:00	5.104	243.9	9.02	21.92	29.2	0
7/30/2018 22:15	4.745	258	3.783	21.51	29.2	0
7/30/2018 22:30	4.016	269	8.03	21.19	29.2	0
7/30/2018 22:45	2.862	306.8	18.52	20.59	29.2	0
7/30/2018 23:00	2.435	310.4	5.912	20.33	29.2	0
7/30/2018 23:15	3.489	293.5	15.91	19.99	29.2	0
7/30/2018 23:30	5.512	270.8	3.509	19.34	29.2	0
7/30/2018 23:45	4.717	250.4	9.77	19.11	29.2	0
7/31/2018 0:00	4.709	229	5.091	19.24	29.19	0
7/31/2018 0:15	4.424	209.8	9.16	19	29.19	0
7/31/2018 0:30	3.607	196.2	5.358	18.92	29.19	0
7/31/2018 0:45	3.691	204.2	3.094	18.61	29.19	0
7/31/2018 1:00	4.274	209.2	2.146	18.47	29.2	0
7/31/2018 1:15	4.026	223.6	6.292	18.31	29.2	0
7/31/2018 1:30	6.706	233.6	3.843	18.1	29.2	0
7/31/2018 1:45	6.857	227.6	4.227	17.91	29.2	0
7/31/2018 2:00	7.214	227.3	5.228	17.72	29.22	0
7/31/2018 2:15	7.588	226.2	4.381	17.49	29.22	0
7/31/2018 2:30	6.017	220.8	5.322	17.28	29.22	0
7/31/2018 2:45	4.936	211.1	7.098	17.07	29.22	0
7/31/2018 3:00	3.747	215	8.27	16.93	29.22	0
7/31/2018 3:15	4.271	216.2	8.53	16.71	29.22	0
7/31/2018 3:30	3.718	221.2	7.58	16.44	29.22	0
7/31/2018 3:45	3.792	235	9.95	16.25	29.22	0
7/31/2018 4:00	3.937	228.2	11.11	16.06	29.2	0
7/31/2018 4:15	3.488	249.7	12.11	15.84	29.2	0
7/31/2018 4:30	3.38	262.1	9.59	15.56	29.2	0
7/31/2018 4:45	4.821	281.2	3.704	15.19	29.2	0
7/31/2018 5:00	4.335	289.8	3.601	15.01	29.22	0
7/31/2018 5:15	3.093	281.6	6.369	14.89	29.22	0
7/31/2018 5:30	3.602	280	4.835	14.73	29.22	0
7/31/2018 5:45	3.045	257.3	10.18	14.75	29.22	0
7/31/2018 6:00	3.221	261.4	9.23	14.9	29.24	0
7/31/2018 6:15	1.647	226.6	25.41	15.24	29.24	0
7/31/2018 6:30	3.28	206.4	18.78	15.47	29.24	0
7/31/2018 6:45	3.638	192.5	24.8	15.75	29.24	0
7/31/2018 7:00	3.346	218.8	14.78	15.62	29.22	0

7/31/2018 7:15	4.095	231.3	14.95	15.7	29.22	0
7/31/2018 7:30	3.903	231.3	20.54	15.76	29.22	0
7/31/2018 7:45	4.64	219.2	17.8	15.87	29.22	0
7/31/2018 8:00	4.007	236.4	17.41	16.05	29.22	0
7/31/2018 8:15	3.046	213.6	20.81	16.27	29.22	0
7/31/2018 8:30	4.765	215.3	20.72	16.53	29.22	0
7/31/2018 8:45	5.402	194.4	11.7	16.7	29.22	0
7/31/2018 9:00	5.168	190.8	25.14	17.25	29.22	0
7/31/2018 9:15	5.396	197.5	22.89	17.54	29.22	0
7/31/2018 9:30	4.321	206	22.76	17.97	29.22	0
7/31/2018 9:45	3.748	211	29.66	18.7	29.22	0
7/31/2018 10:00	4.413	200.8	35.52	19.05	29.23	0
7/31/2018 10:15	4.946	221.2	31.2	19.67	29.23	0
7/31/2018 10:30	4.701	212.8	22.77	20.08	29.23	0
7/31/2018 10:45	4.038	214.9	30.96	20.66	29.23	0
7/31/2018 11:00	4.629	232.2	35.2	21.29	29.21	0
7/31/2018 11:15	5.192	225	25.21	21.59	29.21	0
7/31/2018 11:30	5.668	220.1	38.64	21.84	29.21	0
7/31/2018 11:45	5.457	210.8	22.5	21.96	29.21	0
7/31/2018 12:00	4.886	214.1	19.55	22.47	29.2	0
7/31/2018 12:15	6.374	212.4	17.86	22.91	29.2	0
7/31/2018 12:30	6.194	202.9	20.69	23.44	29.2	0
7/31/2018 12:45	5.992	225.9	51.45	23.8	29.2	0
7/31/2018 13:00	6.928	271.6	35.76	23.67	29.22	0
7/31/2018 13:15	6.57	242.2	30	24.32	29.22	0
7/31/2018 13:30	4.638	223	31.19	24.7	29.22	0
7/31/2018 13:45	5.609	241.6	55.67	24.79	29.22	0
7/31/2018 14:00	5.742	234.3	29.23	25.14	29.2	0
7/31/2018 14:15	4.963	258.2	33.94	25.25	29.2	0
7/31/2018 14:30	4.752	235.3	54.03	25.86	29.2	0
7/31/2018 14:45	6.781	248.3	29.27	25.7	29.2	0
7/31/2018 15:00	6.416	273.5	12.08	25.81	29.18	0
7/31/2018 15:15	7.68	281.3	16.76	25.94	29.18	0
7/31/2018 15:30	8.31	261.2	12.32	25.62	29.18	0
7/31/2018 15:45	7.503	288.9	12.07	26.15	29.18	0
7/31/2018 16:00	7.957	271.9	16.41	26.03	29.19	0
7/31/2018 16:15	9.65	282.6	8.44	25.5	29.19	0
7/31/2018 16:30	9.16	283	11.2	25.29	29.19	0
7/31/2018 16:45	7.602	275.8	16.3	25.45	29.19	0
7/31/2018 17:00	7.003	270.5	20.19	25.51	29.16	0
7/31/2018 17:15	8.06	270.4	16.72	25.37	29.16	0
7/31/2018 17:30	7.502	275.2	16.5	25.14	29.16	0
7/31/2018 17:45	8.1	288.3	9.75	25.19	29.16	0
7/31/2018 18:00	7.681	292	10.33	24.91	29.16	0
7/31/2018 18:15	6.295	291	9.46	24.71	29.16	0
7/31/2018 18:30	6.706	276.6	10.62	24.59	29.16	0
7/31/2018 18:45	6.894	278.2	8.64	24.27	29.16	0

7/31/2018 19:00	5.944	242.5	17.89	23.87	29.18	0
7/31/2018 19:15	3.795	266.2	29.08	23.49	29.18	0
7/31/2018 19:30	4.379	252.9	8.44	23.16	29.18	0
7/31/2018 19:45	5.417	248.8	6.012	22.7	29.18	0
7/31/2018 20:00	5.855	271.3	9.12	21.83	29.18	0
7/31/2018 20:15	6.522	279.3	6.222	21.06	29.18	0
7/31/2018 20:30	7.271	269.8	7.494	20.57	29.18	0
7/31/2018 20:45	6.349	265.1	6.768	19.98	29.18	0
7/31/2018 21:00	8	261.2	5.978	19.43	29.2	0
7/31/2018 21:15	6.928	263.6	5.987	18.9	29.2	0
7/31/2018 21:30	6.539	275.5	7.981	18.25	29.2	0
7/31/2018 21:45	6.51	274.9	6.558	17.71	29.2	0
7/31/2018 22:00	6.873	258.9	4.966	17.35	29.2	0
7/31/2018 22:15	6.034	257.5	4.996	16.97	29.2	0
7/31/2018 22:30	5.496	268	6.166	16.57	29.2	0
7/31/2018 22:45	4.394	265.6	6.753	16.24	29.2	0
7/31/2018 23:00	3.238	274	11.99	15.89	29.21	0
7/31/2018 23:15	3.138	284.1	4.624	15.53	29.21	0
7/31/2018 23:30	2.997	265.7	12.36	15.39	29.21	0
7/31/2018 23:45	3.224	262.8	5.088	15.29	29.21	0
8/1/2018 0:00	3.154	265.2	4.826	15.06	29.22	0
8/1/2018 0:15	2.675	262.6	5.886	14.89	29.22	0
8/1/2018 0:30	2.453	234.3	16.86	14.82	29.22	0
8/1/2018 0:45	2.25	221.8	4.25	14.72	29.22	0
8/1/2018 1:00	2.693	225.8	5.945	14.62	29.22	0
8/1/2018 1:15	4.483	214.4	6.248	14.57	29.22	0
8/1/2018 1:30	4.628	218.9	8.9	14.47	29.22	0
8/1/2018 1:45	4.427	212.1	9.57	14.43	29.22	0
8/1/2018 2:00	5.603	205.6	7.634	14.31	29.22	0
8/1/2018 2:15	6.057	201	5.389	14.32	29.22	0
8/1/2018 2:30	5.449	197.2	8.35	14.3	29.22	0
8/1/2018 2:45	5.202	196.9	5.395	14.33	29.22	0
8/1/2018 3:00	4.327	184.1	9.64	14.3	29.22	0
8/1/2018 3:15	3.836	176.7	10.48	14.24	29.22	0
8/1/2018 3:30	4.935	189.9	6.628	14.15	29.22	0
8/1/2018 3:45	5.607	193.6	6.408	14.04	29.22	0
8/1/2018 4:00	4.736	189.7	7.466	13.96	29.21	0
8/1/2018 4:15	4.699	188.8	5.854	13.91	29.21	0
8/1/2018 4:30	4.31	191.9	7.096	13.88	29.21	0
8/1/2018 4:45	4.827	194.1	6.012	13.88	29.21	0
8/1/2018 5:00	4.775	190.6	7.115	13.84	29.21	0
8/1/2018 5:15	4.78	199.1	7.598	13.87	29.21	0
8/1/2018 5:30	5.611	192.9	6.925	13.82	29.21	0
8/1/2018 5:45	5.525	194.8	7.883	13.84	29.21	0
8/1/2018 6:00	5.455	194.4	6.81	13.87	29.23	0
8/1/2018 6:15	5.206	194.5	6.866	13.95	29.23	0
8/1/2018 6:30	5.563	199.5	6.351	13.95	29.23	0

8/1/2018 6:45	5.445	191	9.33	13.9	29.23	0
8/1/2018 7:00	5.809	196.4	5.104	13.94	29.24	0
8/1/2018 7:15	5.414	194	9.3	14	29.24	0
8/1/2018 7:30	5.433	210.4	16.85	14	29.24	0
8/1/2018 7:45	6.062	231.3	8.52	13.97	29.24	0
8/1/2018 8:00	5.201	226.2	11.63	14.07	29.25	0
8/1/2018 8:15	5.524	213.6	17.62	14.16	29.25	0
8/1/2018 8:30	5.309	199.2	8.71	14.35	29.25	0
8/1/2018 8:45	5.016	205.1	11.85	14.61	29.25	0
8/1/2018 9:00	5.163	194.5	11.69	15	29.23	0
8/1/2018 9:15	5.289	212.9	19.82	14.93	29.23	0
8/1/2018 9:30	4.768	208.1	17.52	14.77	29.23	0
8/1/2018 9:45	5.575	214.7	11.11	14.83	29.23	0
8/1/2018 10:00	6.235	238.3	10.88	14.64	29.25	0
8/1/2018 10:15	6.008	216.4	16.52	14.82	29.25	0
8/1/2018 10:30	5.321	205.6	14.75	15.25	29.25	0
8/1/2018 10:45	4.653	190.1	23.16	15.61	29.25	0
8/1/2018 11:00	3.935	132.4	34.57	16.28	29.24	0
8/1/2018 11:15	4.323	178.6	32.31	16.4	29.24	0
8/1/2018 11:30	3.88	169.4	27.18	17.16	29.24	0
8/1/2018 11:45	5.527	160.3	21.81	17.97	29.24	0
8/1/2018 12:00	5.719	148.4	19.04	18.4	29.22	0
8/1/2018 12:15	5.377	162.8	24.63	18.44	29.22	0
8/1/2018 12:30	5.512	236.9	20.84	18.47	29.22	0
8/1/2018 12:45	3.354	249.6	34.07	19.03	29.22	0
8/1/2018 13:00	5.35	235.4	34.55	19.58	29.23	0
8/1/2018 13:15	7.292	244.9	17.7	19.93	29.23	0
8/1/2018 13:30	6.614	250.7	16.42	20.38	29.23	0
8/1/2018 13:45	6.747	229.2	28.75	20.64	29.23	0
8/1/2018 14:00	4.735	191.5	34.81	21.18	29.2	0
8/1/2018 14:15	4.71	205.5	45.79	21.6	29.2	0
8/1/2018 14:30	3.537	212.5	50.07	22.23	29.2	0
8/1/2018 14:45	3.995	212.4	36.16	22.82	29.2	0
8/1/2018 15:00	5.342	240.4	42.64	22.89	29.2	0
8/1/2018 15:15	5.912	264	23.97	23.31	29.2	0
8/1/2018 15:30	5.598	273.7	19.31	23.7	29.2	0
8/1/2018 15:45	5.922	300.1	21.42	23.38	29.2	0
8/1/2018 16:00	6.135	241.8	52.82	23.59	29.17	0
8/1/2018 16:15	5.529	267.5	41.92	23.58	29.17	0
8/1/2018 16:30	6.519	291.9	16.04	23.64	29.17	0
8/1/2018 16:45	5.886	266.8	25.91	24	29.17	0
8/1/2018 17:00	7.946	268.3	16.6	23.71	29.18	0
8/1/2018 17:15	6.917	273.5	19.26	23.65	29.18	0
8/1/2018 17:30	6.537	259.3	15.35	23.38	29.18	0
8/1/2018 17:45	7.368	274.9	17	23.21	29.18	0
8/1/2018 18:00	7.032	275	17.65	22.99	29.16	0
8/1/2018 18:15	7.059	268.3	11.43	22.71	29.16	0

8/1/2018 18:30	6.346	267.8	15.83	22.57	29.16	0
8/1/2018 18:45	7.481	272.5	11.15	22.16	29.16	0
8/1/2018 19:00	6.314	249.9	8.43	22.05	29.16	0
8/1/2018 19:15	6.283	250.2	6.326	21.55	29.16	0
8/1/2018 19:30	6.341	243	7.559	21.17	29.16	0
8/1/2018 19:45	6.781	252.9	6.045	20.64	29.16	0
8/1/2018 20:00	6.024	250.3	5.201	20.25	29.17	0
8/1/2018 20:15	5.468	249	7.151	19.8	29.17	0
8/1/2018 20:30	6.27	254.4	5.924	19.17	29.17	0
8/1/2018 20:45	6.357	255.9	7.253	18.65	29.17	0
8/1/2018 21:00	6.516	254.7	6.219	18.13	29.16	0
8/1/2018 21:15	4.497	240.3	10.21	17.84	29.16	0
8/1/2018 21:30	4.079	234.2	10.34	17.33	29.16	0
8/1/2018 21:45	5.069	272.4	6.405	16.71	29.16	0
8/1/2018 22:00	5.343	268.2	10.12	16.37	29.18	0
8/1/2018 22:15	4.137	263.1	3.83	16.16	29.18	0
8/1/2018 22:30	3.706	256.2	6.567	16.01	29.18	0
8/1/2018 22:45	3.609	262.1	11.29	15.78	29.18	0
8/1/2018 23:00	3.438	274	5.057	15.38	29.19	0
8/1/2018 23:15	4.693	275.6	5.587	15	29.19	0
8/1/2018 23:30	4.03	275.7	7.102	14.72	29.19	0
8/1/2018 23:45	3.184	270.9	8.08	14.63	29.19	0
8/2/2018 0:00	2.693	264.7	12.37	14.61	29.2	0
8/2/2018 0:15	3.06	250.9	7.052	14.6	29.2	0
8/2/2018 0:30	4.479	243.7	9.71	14.6	29.2	0
8/2/2018 0:45	5.524	232	9.66	14.49	29.2	0
8/2/2018 1:00	5.018	216.1	11.72	14.42	29.21	0
8/2/2018 1:15	6.296	198.9	8.15	14.34	29.21	0
8/2/2018 1:30	6.114	200.6	8.92	14.25	29.21	0
8/2/2018 1:45	5.821	191.4	8.35	14.15	29.21	0
8/2/2018 2:00	7.255	199.7	8.33	13.97	29.22	0
8/2/2018 2:15	6.825	197.4	6.248	13.63	29.22	0
8/2/2018 2:30	6.217	192.5	6.06	13.38	29.22	0
8/2/2018 2:45	6.181	190.6	9.1	13.26	29.22	0
8/2/2018 3:00	7.131	191.5	6.965	13.11	29.22	0
8/2/2018 3:15	7.193	188.2	7.852	13	29.22	0
8/2/2018 3:30	7.875	182.6	8.59	12.96	29.22	0
8/2/2018 3:45	7.714	183	6.606	12.84	29.22	0
8/2/2018 4:00	6.462	188.4	9.48	12.76	29.21	0
8/2/2018 4:15	6.949	186.4	9.24	12.72	29.21	0
8/2/2018 4:30	6.279	179.3	12.3	12.69	29.21	0
8/2/2018 4:45	5.558	161.5	7.349	12.64	29.21	0
8/2/2018 5:00	6.072	176.6	10.3	12.7	29.19	0
8/2/2018 5:15	6.399	159.8	10.64	12.69	29.19	0
8/2/2018 5:30	6.352	166.5	14.83	12.74	29.19	0
8/2/2018 5:45	6.302	180.5	9.75	12.99	29.19	0
8/2/2018 6:00	8.32	185.9	7.753	13.1	29.23	0

8/2/2018 6:15	6.488	172.2	12.15	13.18	29.23	0
8/2/2018 6:30	6.386	158.5	11.09	13.14	29.23	0
8/2/2018 6:45	6.085	152.9	9.79	13.11	29.23	0
8/2/2018 7:00	5.884	161.5	12.59	13.2	29.25	0
8/2/2018 7:15	6.202	187.4	8.64	13.27	29.25	0
8/2/2018 7:30	5.79	194.5	8.25	13.28	29.25	0
8/2/2018 7:45	7.057	194.8	12.18	13.31	29.25	0
8/2/2018 8:00	8.06	194.6	7.82	13.48	29.24	0
8/2/2018 8:15	7.171	187.1	7.5	13.8	29.24	0
8/2/2018 8:30	7.106	178.7	9.71	13.96	29.24	0
8/2/2018 8:45	7.372	176.8	15.14	14.21	29.24	0
8/2/2018 9:00	5.459	143.2	15.13	14.19	29.24	0
8/2/2018 9:15	7.532	173.4	14.97	14.69	29.24	0
8/2/2018 9:30	7.844	174.7	18.45	15	29.24	0
8/2/2018 9:45	8.22	202.6	14.41	15.37	29.24	0
8/2/2018 10:00	10.27	209.2	12.94	15.37	29.27	0
8/2/2018 10:15	10.13	202	9.89	15.4	29.27	0
8/2/2018 10:30	8.85	218.5	11.72	15.59	29.27	0
8/2/2018 10:45	8.47	213.1	16.24	15.82	29.27	0
8/2/2018 11:00	7.152	207.4	14.56	16	29.26	0
8/2/2018 11:15	7.018	215.1	10.69	15.97	29.26	0
8/2/2018 11:30	5.731	202.7	17.59	16.28	29.26	0
8/2/2018 11:45	7.949	183.6	9.39	16.54	29.26	0
8/2/2018 12:00	6.119	195.2	18.16	16.45	29.28	0
8/2/2018 12:15	5.691	240.8	36	16.55	29.28	0
8/2/2018 12:30	3.314	219.9	25.01	16.81	29.28	0
8/2/2018 12:45	3.096	96.3	50.17	16.23	29.28	0
8/2/2018 13:00	2.965	115.9	15.48	16.64	29.28	0
8/2/2018 13:15	4.708	131.2	14.01	16.87	29.28	0
8/2/2018 13:30	4.808	143.8	11.73	16.98	29.28	0
8/2/2018 13:45	5.252	140.4	13.38	16.91	29.28	0
8/2/2018 14:00	5.065	115	13.23	17.12	29.28	0
8/2/2018 14:15	4.67	97.9	13.11	16.79	29.28	0
8/2/2018 14:30	3.883	98	13.55	17.02	29.28	0
8/2/2018 14:45	3.43	90.2	11.32	17.07	29.28	0
8/2/2018 15:00	2.185	62.7	12.76	17.25	29.26	0
8/2/2018 15:15	2.65	74.76	30.08	17.31	29.26	0
8/2/2018 15:30	2.945	60.81	22.58	17.4	29.26	0
8/2/2018 15:45	3.508	81.9	14.41	17.91	29.26	0
8/2/2018 16:00	4.262	54.52	12.17	17.91	29.25	0
8/2/2018 16:15	3.742	47.32	10.6	17.82	29.25	0
8/2/2018 16:30	3.398	31.45	9.52	17.68	29.25	0
8/2/2018 16:45	2.608	29.19	9.91	17.71	29.25	0
8/2/2018 17:00	2.578	24.61	1.548	17.44	29.23	0
8/2/2018 17:15	2.506	31.68	9.24	17.33	29.23	0
8/2/2018 17:30	1.758	34.58	2.149	17.43	29.23	0
8/2/2018 17:45	2.373	37.5	4.034	17.54	29.23	0

8/2/2018 18:00	1.982	18.34	78.5	17.63	29.24	0
8/2/2018 18:15	2.011	273.2	27.98	17.79	29.24	0
8/2/2018 18:30	7.85	269.7	11.74	17.92	29.24	0
8/2/2018 18:45	9.43	269.7	11.7	17.63	29.24	0
8/2/2018 19:00	10.21	269.9	9.13	17.3	29.24	0
8/2/2018 19:15	7.938	275.8	8.63	17.2	29.24	0
8/2/2018 19:30	7.515	275.4	9.16	17.08	29.24	0
8/2/2018 19:45	9.42	279.3	9.33	16.78	29.24	0
8/2/2018 20:00	9.78	272.6	9.37	16.56	29.23	0
8/2/2018 20:15	8.51	272.1	11.83	16.4	29.23	0
8/2/2018 20:30	6.81	266.5	12.42	16.3	29.23	0
8/2/2018 20:45	6.188	263.6	12.51	16.16	29.23	0
8/2/2018 21:00	5.233	250.4	10.28	16.11	29.23	0
8/2/2018 21:15	4.715	235.6	11.38	16.07	29.23	0
8/2/2018 21:30	4.221	219.9	13.31	16.07	29.23	0
8/2/2018 21:45	5.24	221.9	8.4	16.06	29.23	0
8/2/2018 22:00	3.4	226.2	8.51	16.05	29.25	0
8/2/2018 22:15	2.712	208.1	12.47	15.93	29.25	0
8/2/2018 22:30	3.426	212.5	4.305	15.85	29.25	0
8/2/2018 22:45	2.792	230.5	18.76	15.7	29.25	0
8/2/2018 23:00	2.231	234.8	25.28	15.59	29.23	0
8/2/2018 23:15	2.255	208.2	9.97	15.6	29.23	0
8/2/2018 23:30	2.513	220.7	4.798	15.59	29.23	0
8/2/2018 23:45	2.699	227	6.433	15.63	29.23	0
8/3/2018 0:00	3.034	212.7	12.99	15.61	29.25	0
8/3/2018 0:15	2.286	219.2	25.19	15.6	29.25	0
8/3/2018 0:30	2.949	183.7	17.4	15.45	29.25	0
8/3/2018 0:45	3.771	194.9	10.8	15.4	29.25	0
8/3/2018 1:00	4.138	207.7	9.59	15.41	29.25	0
8/3/2018 1:15	4.437	193.9	7.291	15.31	29.25	0
8/3/2018 1:30	5.296	198.4	6.227	15.24	29.25	0
8/3/2018 1:45	6.541	198.5	8.54	15.12	29.25	0
8/3/2018 2:00	6.226	210.4	9.06	14.92	29.23	0
8/3/2018 2:15	6.386	201	10.26	14.68	29.23	0
8/3/2018 2:30	7.065	198.4	7.157	14.29	29.23	0
8/3/2018 2:45	5.457	190.7	6.543	13.85	29.23	0
8/3/2018 3:00	5.477	181	5.824	13.56	29.24	0.01
8/3/2018 3:15	3.556	164.2	12.52	13.35	29.24	0
8/3/2018 3:30	2.258	134.1	7.584	13.28	29.24	0.01
8/3/2018 3:45	2.41	136.5	10.54	13.29	29.24	0.01
8/3/2018 4:00	4.115	131.3	7.156	13.29	29.24	0.01
8/3/2018 4:15	3.357	142.5	9.28	13.26	29.24	0
8/3/2018 4:30	3.471	147.4	6.459	13.24	29.24	0.01
8/3/2018 4:45	3.937	169	10.99	13.31	29.24	0
8/3/2018 5:00	4.05	179.4	11.87	13.39	29.26	0
8/3/2018 5:15	2.748	190.3	11.46	13.49	29.26	0
8/3/2018 5:30	2.326	165.7	28.71	13.46	29.26	0

8/3/2018 5:45	2.28	147.2	5.994	13.43	29.26	0.01
8/3/2018 6:00	3.204	177.3	19.87	13.47	29.27	0.04
8/3/2018 6:15	2.617	188.5	7.548	13.49	29.27	0.01
8/3/2018 6:30	1.854	277.3	52.51	13.61	29.27	0.04
8/3/2018 6:45	3.368	245.2	16.27	13.51	29.27	0.04
8/3/2018 7:00	4.637	247.2	8.22	13.61	29.28	0.03
8/3/2018 7:15	4.046	214.8	10.33	13.79	29.28	0.02
8/3/2018 7:30	3.227	233.2	15.31	13.82	29.28	0.01
8/3/2018 7:45	1.372	242.5	35.97	13.81	29.28	0.02
8/3/2018 8:00	1.147	81	33.07	13.92	29.3	0.02
8/3/2018 8:15	0.468	7.711	29.88	14.12	29.3	0
8/3/2018 8:30	2.045	201.2	31.35	14.44	29.3	0
8/3/2018 8:45	2.667	199.2	15	14.63	29.3	0
8/3/2018 9:00	2.049	219.3	11.15	14.85	29.31	0
8/3/2018 9:15	2.872	318.9	23.49	14.7	29.31	0.02
8/3/2018 9:30	4.282	291	11.76	14.47	29.31	0
8/3/2018 9:45	3.103	305.9	11.13	14.68	29.31	0.01
8/3/2018 10:00	2.116	292	12.72	14.94	29.32	0
8/3/2018 10:15	0.992	355.5	23.73	15.35	29.32	0
8/3/2018 10:30	3.262	98	22.8	15.02	29.32	0
8/3/2018 10:45	3.678	94	10.52	14.91	29.32	0
8/3/2018 11:00	4.077	88.5	8.36	15.05	29.31	0
8/3/2018 11:15	3.908	89.4	9.85	15.37	29.31	0
8/3/2018 11:30	4.47	108.3	11.32	15.65	29.31	0
8/3/2018 11:45	4.599	88.2	13.78	16.33	29.31	0
8/3/2018 12:00	4.812	92.7	17.82	17.47	29.31	0
8/3/2018 12:15	3.823	100.2	11.62	16.91	29.31	0
8/3/2018 12:30	2.795	85.2	18.79	17.33	29.31	0
8/3/2018 12:45	3.939	86.9	29.62	17.95	29.31	0
8/3/2018 13:00	5.065	77.28	18.18	18.62	29.31	0
8/3/2018 13:15	3.739	86.3	33.41	17.99	29.31	0
8/3/2018 13:30	3.594	61.49	12.5	18.23	29.31	0
8/3/2018 13:45	4.445	94.8	12.73	18.22	29.31	0
8/3/2018 14:00	3.576	82	14.74	18.31	29.33	0
8/3/2018 14:15	3.113	79.15	12.61	18.21	29.33	0
8/3/2018 14:30	3.768	62.86	8.91	18.2	29.33	0
8/3/2018 14:45	4.025	69.76	10.02	18.42	29.33	0
8/3/2018 15:00	4.784	67.81	14.95	18.69	29.31	0
8/3/2018 15:15	4.511	87.2	11.04	18.55	29.31	0
8/3/2018 15:30	3.936	92.1	10.95	18.8	29.31	0
8/3/2018 15:45	4.073	96.3	11.61	18.81	29.31	0
8/3/2018 16:00	3.162	96.9	9.14	19.02	29.29	0
8/3/2018 16:15	3.471	83.2	11.54	19.03	29.29	0
8/3/2018 16:30	2.195	71.05	7.04	19.26	29.29	0
8/3/2018 16:45	1.011	78.75	4.09	19.55	29.29	0
8/3/2018 17:00	0.663	147.5	37.75	19.74	29.29	0
8/3/2018 17:15	0.16	149.1	11.72	19.76	29.29	0

8/3/2018 17:30	2.939	48.43	7.599	19.51	29.29	0
8/3/2018 17:45	2.079	42.92	11.87	19.25	29.29	0
8/3/2018 18:00	2.777	54	3.937	19.11	29.3	0
8/3/2018 18:15	2.731	52.31	0.513	19.15	29.3	0
8/3/2018 18:30	2.681	50.78	3.336	19.17	29.3	0
8/3/2018 18:45	3.497	49.06	5.129	18.89	29.3	0
8/3/2018 19:00	3.455	30.21	6.227	18.87	29.29	0
8/3/2018 19:15	3.212	41.73	9.8	18.85	29.29	0
8/3/2018 19:30	3.421	34.13	6.048	18.41	29.29	0
8/3/2018 19:45	1.487	11.95	2.831	18.04	29.29	0
8/3/2018 20:00	2.147	354.8	10.71	17.93	29.29	0
8/3/2018 20:15	3.559	338.3	3.513	17.83	29.29	0
8/3/2018 20:30	2.25	353.2	3.034	17.79	29.29	0
8/3/2018 20:45	2.092	352.8	4.803	17.63	29.29	0
8/3/2018 21:00	3.312	9.76	21.13	17.03	29.29	0
8/3/2018 21:15	3.16	14.98	9.63	16.54	29.29	0
8/3/2018 21:30	4.996	18.51	9.91	16.58	29.29	0
8/3/2018 21:45	5.143	34.07	4.088	16.33	29.29	0
8/3/2018 22:00	6.132	35.29	9.3	15.54	29.26	0
8/3/2018 22:15	7.656	32.38	7.825	15.2	29.26	0
8/3/2018 22:30	8.07	36.79	9.65	15.17	29.26	0
8/3/2018 22:45	6.9	34.17	10.19	14.97	29.26	0
8/3/2018 23:00	7.09	31.4	7.976	14.88	29.26	0
8/3/2018 23:15	9.32	32.02	7.116	14.86	29.26	0
8/3/2018 23:30	7.562	32.44	8.63	14.8	29.26	0
8/3/2018 23:45	9.91	34.9	7.973	14.59	29.26	0
8/4/2018 0:00	8.27	37.33	8.73	14.3	29.25	0
8/4/2018 0:15	9.15	36.47	8.37	14.28	29.25	0
8/4/2018 0:30	6.866	37.88	8.91	14.02	29.25	0
8/4/2018 0:45	6.234	33.68	9.38	13.91	29.25	0
8/4/2018 1:00	6.39	40.25	6.753	13.53	29.24	0
8/4/2018 1:15	5.327	43.08	6.867	13.32	29.24	0
8/4/2018 1:30	5.326	32.31	5.924	13.2	29.24	0
8/4/2018 1:45	4.996	32.17	4.099	13.11	29.24	0
8/4/2018 2:00	3.475	36.32	3.446	12.9	29.26	0
8/4/2018 2:15	2.896	45.82	6.254	12.77	29.26	0
8/4/2018 2:30	4.353	40.19	7.878	12.74	29.26	0
8/4/2018 2:45	4.393	39.48	3.817	12.39	29.26	0
8/4/2018 3:00	4.616	37.92	5.859	12.24	29.24	0
8/4/2018 3:15	5.082	34.24	5.052	12.16	29.24	0
8/4/2018 3:30	4.558	35.2	5.422	12	29.24	0
8/4/2018 3:45	4.87	42.9	6.5	11.83	29.24	0
8/4/2018 4:00	4.492	44.24	6.854	11.76	29.26	0
8/4/2018 4:15	4.877	41.97	6.742	11.75	29.26	0
8/4/2018 4:30	5.756	33.02	6.025	11.81	29.26	0
8/4/2018 4:45	5.279	34.26	8.22	11.89	29.26	0
8/4/2018 5:00	4.022	41.62	6.418	11.84	29.25	0

8/4/2018 5:15	3.771	44.8	8.5	11.89	29.25	0
8/4/2018 5:30	4.058	38.28	4.822	11.93	29.25	0
8/4/2018 5:45	4.008	29.25	6.509	12.15	29.25	0
8/4/2018 6:00	4.966	32.8	6.573	12.38	29.23	0
8/4/2018 6:15	5.391	33	7.65	12.5	29.23	0
8/4/2018 6:30	4.495	31.62	5.932	12.71	29.23	0
8/4/2018 6:45	4.575	38.33	5.98	13.06	29.23	0
8/4/2018 7:00	4.374	37.85	6.248	13.37	29.23	0
8/4/2018 7:15	4.922	44.9	10.76	13.75	29.23	0
8/4/2018 7:30	4.168	51.43	11.38	14.08	29.23	0
8/4/2018 7:45	5.014	47.34	5.759	14.24	29.23	0
8/4/2018 8:00	3.64	54.02	15.7	15.21	29.24	0
8/4/2018 8:15	3.686	39.31	9.8	15.36	29.24	0
8/4/2018 8:30	4.404	46.45	8.72	15.7	29.24	0
8/4/2018 8:45	4.765	54.02	13.6	16.32	29.24	0
8/4/2018 9:00	3.925	40.37	11.23	16.53	29.23	0
8/4/2018 9:15	4.172	34.76	11.43	17.05	29.23	0
8/4/2018 9:30	3.7	43.86	23.45	17.65	29.23	0
8/4/2018 9:45	5.416	50.99	13.57	18.17	29.23	0
8/4/2018 10:00	5.74	35.73	16.56	18.55	29.21	0
8/4/2018 10:15	4.849	36.8	17.43	19.44	29.21	0
8/4/2018 10:30	5.12	343.2	50.59	20.01	29.21	0
8/4/2018 10:45	4.015	299.5	40.38	20.78	29.21	0
8/4/2018 11:00	5.368	314.6	25.93	21.3	29.2	0
8/4/2018 11:15	6.944	359.7	66.69	21.49	29.2	0
8/4/2018 11:30	8.41	27.7	14.19	21.74	29.2	0
8/4/2018 11:45	9.43	42.96	14.29	21.85	29.2	0
8/4/2018 12:00	9.32	17.15	33.77	22.11	29.19	0
8/4/2018 12:15	8.25	19.56	23.64	22.64	29.19	0
8/4/2018 12:30	9.71	25.71	15.24	22.65	29.19	0
8/4/2018 12:45	9.21	4.068	19.57	22.87	29.19	0
8/4/2018 13:00	9.47	12.91	22.91	23.23	29.19	0
8/4/2018 13:15	6.648	0.739	34.67	23.42	29.19	0
8/4/2018 13:30	7.286	16.55	24.07	23.78	29.19	0
8/4/2018 13:45	6.214	2.492	38.39	24	29.19	0
8/4/2018 14:00	6.838	324.1	24.92	24.18	29.16	0
8/4/2018 14:15	6.185	311.3	16.07	24.39	29.16	0
8/4/2018 14:30	6.433	306.8	20.03	24.62	29.16	0
8/4/2018 14:45	6.466	7.824	45.33	24.51	29.16	0
8/4/2018 15:00	7.164	6.55	28.12	24.78	29.15	0
8/4/2018 15:15	6.862	359.1	23.35	24.82	29.15	0
8/4/2018 15:30	7.49	7.734	24.35	24.97	29.15	0
8/4/2018 15:45	7.232	360	29.7	25.07	29.15	0
8/4/2018 16:00	7.852	336.1	13.88	25	29.15	0
8/4/2018 16:15	5.633	16.73	33.68	25.09	29.15	0
8/4/2018 16:30	6.95	45.24	18.27	24.95	29.15	0
8/4/2018 16:45	7.307	43.68	14.39	24.81	29.15	0

8/4/2018 17:00	6.432	35.32	18.81	25.05	29.14	0
8/4/2018 17:15	5.04	16.86	28.3	25	29.14	0
8/4/2018 17:30	7.719	301.6	13.63	25.3	29.14	0
8/4/2018 17:45	8.69	294.4	13.34	24.91	29.14	0
8/4/2018 18:00	8.88	302.6	16.22	24.58	29.14	0
8/4/2018 18:15	8.87	305.3	7.98	24.46	29.14	0
8/4/2018 18:30	8.55	304.1	7.795	24.1	29.14	0
8/4/2018 18:45	6.492	308.5	9.52	23.97	29.14	0
8/4/2018 19:00	6.355	310.7	6.585	23.61	29.15	0
8/4/2018 19:15	6.869	316.6	3.624	23.02	29.15	0
8/4/2018 19:30	5.513	315.1	3.689	22.28	29.15	0
8/4/2018 19:45	4.193	333.5	13.34	22.07	29.15	0
8/4/2018 20:00	2.869	359.4	10.24	22.11	29.16	0
8/4/2018 20:15	2.343	343.7	4.637	22.14	29.16	0
8/4/2018 20:30	2.722	23.79	16.57	21.01	29.16	0
8/4/2018 20:45	2.381	23.01	2.007	20	29.16	0
8/4/2018 21:00	2.711	19.9	12.41	19.89	29.18	0
8/4/2018 21:15	4.19	23.6	9.8	19.35	29.18	0
8/4/2018 21:30	1.883	101.6	66.11	19.07	29.18	0
8/4/2018 21:45	1.741	285.4	26.89	19.6	29.18	0
8/4/2018 22:00	2.999	55.85	14.43	19.5	29.16	0
8/4/2018 22:15	1.641	76.38	21.67	18.03	29.16	0
8/4/2018 22:30	0.765	48.85	15.72	18.08	29.16	0
8/4/2018 22:45	1.13	90.9	19.02	18.87	29.16	0
8/4/2018 23:00	1.378	31.39	9.05	19.5	29.16	0
8/4/2018 23:15	2.341	25.49	17.23	18.79	29.16	0
8/4/2018 23:30	1.922	113.9	17.21	17.55	29.16	0
8/4/2018 23:45	2.561	70.16	17.92	17.66	29.16	0
8/5/2018 0:00	2.635	48.56	9.72	18.04	29.19	0
8/5/2018 0:15	2.855	66.76	7.693	17.48	29.19	0
8/5/2018 0:30	3.052	80	8.7	16.87	29.19	0
8/5/2018 0:45	1.134	65.6	0.366	17.17	29.19	0
8/5/2018 1:00	0.459	65.25	0.101	17.19	29.16	0
8/5/2018 1:15	1.19	65.25	0.127	16.57	29.16	0
8/5/2018 1:30	2.014	57.25	5.276	16.78	29.16	0
8/5/2018 1:45	1.554	54.65	3.757	16.56	29.16	0
8/5/2018 2:00	3.939	48.58	5.12	16.22	29.17	0
8/5/2018 2:15	3.486	35.44	7.287	15.9	29.17	0
8/5/2018 2:30	2.8	21.37	46.56	16.16	29.17	0
8/5/2018 2:45	1.483	244.9	18.45	15.5	29.17	0
8/5/2018 3:00	0.105	257	0.603	15.55	29.19	0
8/5/2018 3:15	1.141	102.8	49.44	15.61	29.19	0
8/5/2018 3:30	0.582	31.54	0.057	15.66	29.19	0
8/5/2018 3:45	0	0	0	15.4	29.19	0
8/5/2018 4:00	1.67	120.1	57.54	15.48	29.2	0
8/5/2018 4:15	3.365	141.9	9.73	15.42	29.2	0
8/5/2018 4:30	3.87	124.5	5.79	14.74	29.2	0

8/5/2018 4:45	4.359	151.4	15.2	14.84	29.2	0
8/5/2018 5:00	4.894	144.9	10.53	15.16	29.2	0
8/5/2018 5:15	2.921	121.5	7.636	14.91	29.2	0
8/5/2018 5:30	3.637	124	1.913	15.09	29.2	0
8/5/2018 5:45	4.204	143.8	6.215	15.65	29.2	0
8/5/2018 6:00	6.205	166.3	9.44	15.67	29.21	0
8/5/2018 6:15	4.903	164.4	8.58	15.63	29.21	0
8/5/2018 6:30	4.222	164	15.74	16.36	29.21	0
8/5/2018 6:45	3.558	174.4	11.54	16.44	29.21	0
8/5/2018 7:00	3.042	159.6	11.59	16.8	29.22	0
8/5/2018 7:15	3.742	170.4	15.38	17.3	29.22	0
8/5/2018 7:30	3.817	146.9	11.01	17.76	29.22	0
8/5/2018 7:45	3.001	195.4	15.35	17.27	29.22	0
8/5/2018 8:00	3.315	215.4	15.56	17.64	29.21	0
8/5/2018 8:15	3.542	219.1	17.35	18.17	29.21	0
8/5/2018 8:30	2.675	236	27.53	18.78	29.21	0
8/5/2018 8:45	2.665	249.2	18.83	19.12	29.21	0
8/5/2018 9:00	2.893	264.2	24.03	19.9	29.22	0
8/5/2018 9:15	2.138	266	28.25	20.47	29.22	0
8/5/2018 9:30	2.575	260.3	32.37	20.96	29.22	0
8/5/2018 9:45	3.603	281	28.19	21.41	29.22	0
8/5/2018 10:00	4.455	301.4	31.75	21.85	29.24	0
8/5/2018 10:15	4.041	293.3	41.99	22.1	29.24	0
8/5/2018 10:30	3.983	286.4	36.63	22.92	29.24	0
8/5/2018 10:45	5.061	280.2	29.48	23.27	29.24	0
8/5/2018 11:00	5.188	302.7	36.09	23.86	29.23	0
8/5/2018 11:15	5.17	304.3	19.73	24.06	29.23	0
8/5/2018 11:30	5.639	320.7	21.62	24.32	29.23	0
8/5/2018 11:45	5.359	318.2	32.49	24.73	29.23	0
8/5/2018 12:00	5.088	342.8	35.32	25.07	29.22	0
8/5/2018 12:15	4.993	353.8	48.12	25.71	29.22	0
8/5/2018 12:30	5.174	340.6	23.47	26.02	29.22	0
8/5/2018 12:45	5.085	319.8	30.91	26.55	29.22	0
8/5/2018 13:00	4.801	338.7	39.29	26.88	29.18	0
8/5/2018 13:15	5.96	311.7	46.31	26.97	29.18	0
8/5/2018 13:30	6.585	9.44	35.53	27.16	29.18	0
8/5/2018 13:45	5.762	26.48	32.5	27.54	29.18	0
8/5/2018 14:00	5.135	344.3	72.89	27.6	29.18	0
8/5/2018 14:15	7.733	284.6	32.61	27.6	29.18	0
8/5/2018 14:30	5.116	322.5	33.34	28.18	29.18	0
8/5/2018 14:45	4.132	330.2	37.66	28.27	29.18	0
8/5/2018 15:00	5.925	310.9	25.89	28.28	29.18	0
8/5/2018 15:15	4.934	300.2	37.08	28.62	29.18	0
8/5/2018 15:30	5.525	317.4	35.69	28.61	29.18	0
8/5/2018 15:45	4.562	314	33.6	29.01	29.18	0
8/5/2018 16:00	6.581	335.5	12.89	28.42	29.16	0
8/5/2018 16:15	6.509	301.8	29.25	28.29	29.16	0

8/5/2018 16:30	5.557	296	17.53	28.55	29.16	0
8/5/2018 16:45	5.955	311.6	29.89	28.57	29.16	0
8/5/2018 17:00	3.006	337.8	66.42	28.78	29.17	0
8/5/2018 17:15	3.826	359.2	29.76	28.62	29.17	0
8/5/2018 17:30	4.671	5.48	28.24	28.17	29.17	0
8/5/2018 17:45	5.598	13.69	14.67	27.86	29.17	0
8/5/2018 18:00	6.128	15.73	11.63	27.43	29.18	0
8/5/2018 18:15	4.837	352.5	19.95	27.19	29.18	0
8/5/2018 18:30	5.47	0.781	16.21	26.52	29.18	0
8/5/2018 18:45	4.226	357.9	13.67	26.19	29.18	0
8/5/2018 19:00	3.916	38.51	10.78	25.56	29.18	0
8/5/2018 19:15	4.983	36.31	8.84	24.68	29.18	0
8/5/2018 19:30	2.305	23.77	7.225	24.59	29.18	0
8/5/2018 19:45	3.529	29.33	5.523	24.02	29.18	0
8/5/2018 20:00	4.783	26.52	6.647	23.29	29.17	0
8/5/2018 20:15	5.832	27.23	5.701	22.91	29.17	0
8/5/2018 20:30	7.401	35.43	9.35	22.77	29.17	0
8/5/2018 20:45	7.615	33.2	8.25	22.54	29.17	0
8/5/2018 21:00	8.22	30.9	8.72	22.83	29.2	0
8/5/2018 21:15	8.48	31.29	9.16	22.6	29.2	0
8/5/2018 21:30	10.3	33.52	8.89	22.29	29.2	0
8/5/2018 21:45	9.12	26.75	8.93	22.11	29.2	0
8/5/2018 22:00	3.077	313.5	85.4	21.75	29.21	0
8/5/2018 22:15	0.799	145.5	50	21.49	29.21	0
8/5/2018 22:30	6.99	38.06	9.22	20.36	29.21	0
8/5/2018 22:45	6.841	46.72	8.85	20.02	29.21	0
8/5/2018 23:00	5.82	50.04	7.62	19.71	29.23	0
8/5/2018 23:15	4.511	39.62	14.55	19	29.23	0
8/5/2018 23:30	4.63	21.09	10.26	19.28	29.23	0
8/5/2018 23:45	5.76	42.15	6.656	18.58	29.23	0
8/6/2018 0:00	7.793	34.63	9.84	18.16	29.23	0
8/6/2018 0:15	7.788	39.44	7.351	18.07	29.23	0
8/6/2018 0:30	5.745	46.42	10.33	17.98	29.23	0
8/6/2018 0:45	4.757	43.08	10.49	17.73	29.23	0
8/6/2018 1:00	4.33	32.45	11.98	17.88	29.24	0
8/6/2018 1:15	2.964	38.16	6.165	17.71	29.24	0
8/6/2018 1:30	2.466	43.61	11.53	17.81	29.24	0
8/6/2018 1:45	2.846	53.79	9.48	17.4	29.24	0
8/6/2018 2:00	3.337	43.82	5.776	17.23	29.24	0
8/6/2018 2:15	3.453	28.21	6.936	17.01	29.24	0
8/6/2018 2:30	3.225	28.08	4.234	16.97	29.24	0
8/6/2018 2:45	3.678	36.44	3.465	16.77	29.24	0
8/6/2018 3:00	3.408	26.68	2.886	16.74	29.23	0
8/6/2018 3:15	3.13	27.13	1.942	16.51	29.23	0
8/6/2018 3:30	2.799	23.81	3.111	16.71	29.23	0
8/6/2018 3:45	1.433	29.89	1.984	16.83	29.23	0
8/6/2018 4:00	1.057	34.49	1.514	16.66	29.25	0

8/6/2018 4:15	0.666	37.57	0.064	16.58	29.25	0
8/6/2018 4:30	1.354	37.54	0.121	16.67	29.25	0
8/6/2018 4:45	0.119	37.54	0.038	17.02	29.25	0
8/6/2018 5:00	0.016	37.57	0.006	17.3	29.28	0
8/6/2018 5:15	0.342	32.28	7.527	16.47	29.28	0
8/6/2018 5:30	0.112	250.7	8.2	16.65	29.28	0
8/6/2018 5:45	1.83	192.8	11.18	17.18	29.28	0
8/6/2018 6:00	2.208	185.3	3.809	17.42	29.29	0
8/6/2018 6:15	1.971	183.4	18.71	17.47	29.29	0
8/6/2018 6:30	3.094	209.6	8.05	17.5	29.29	0
8/6/2018 6:45	2.176	213.1	12.08	17.77	29.29	0
8/6/2018 7:00	3.875	214.9	8.7	17.5	29.31	0
8/6/2018 7:15	2.515	181.7	22.72	18.16	29.31	0
8/6/2018 7:30	3.787	191.3	20.42	18.38	29.31	0
8/6/2018 7:45	4.349	214.6	6.229	18.55	29.31	0
8/6/2018 8:00	3.575	232.1	9.95	18.84	29.3	0
8/6/2018 8:15	3.442	227	18.32	19.39	29.3	0
8/6/2018 8:30	2.327	245.7	20.33	20.01	29.3	0
8/6/2018 8:45	1.683	253.9	33.04	20.73	29.3	0
8/6/2018 9:00	2.027	248.6	45.05	21.33	29.32	0
8/6/2018 9:15	2.594	272.9	44.47	22.22	29.32	0
8/6/2018 9:30	3.75	252.4	21.76	22.04	29.32	0
8/6/2018 9:45	3.984	314.2	30.48	22.83	29.32	0
8/6/2018 10:00	4.036	308.4	24.17	23.19	29.32	0
8/6/2018 10:15	3.285	347.3	22.25	23.52	29.32	0
8/6/2018 10:30	3.062	338.2	40.8	24.47	29.32	0
8/6/2018 10:45	4.372	35.32	33.66	24.91	29.32	0
8/6/2018 11:00	2.9	29.43	61.29	25.47	29.3	0
8/6/2018 11:15	5.367	20.26	34.77	25.87	29.3	0
8/6/2018 11:30	4.81	3.756	39.19	26.14	29.3	0
8/6/2018 11:45	4.485	337.3	42.54	26.69	29.3	0
8/6/2018 12:00	5.533	293.2	28.35	26.72	29.3	0
8/6/2018 12:15	5.574	292	25.12	27.18	29.3	0
8/6/2018 12:30	4.661	306.3	33.71	27.21	29.3	0
8/6/2018 12:45	6.98	338.2	41.41	27.8	29.3	0
8/6/2018 13:00	6.82	338.7	22.32	28.23	29.28	0
8/6/2018 13:15	7.85	17.7	21.58	28.55	29.28	0
8/6/2018 13:30	8.43	41.14	13.46	28.54	29.28	0
8/6/2018 13:45	7.885	0.977	29.7	29.11	29.28	0
8/6/2018 14:00	10.45	31.04	8.23	28.69	29.27	0
8/6/2018 14:15	10.29	24.41	17.66	28.85	29.27	0
8/6/2018 14:30	9.86	33.81	16.09	29.1	29.27	0
8/6/2018 14:45	8.56	35.19	19.89	29.36	29.27	0
8/6/2018 15:00	8.99	18.71	22.87	29.47	29.26	0
8/6/2018 15:15	9.52	28.17	19.55	29.61	29.26	0
8/6/2018 15:30	9.92	22.45	23.47	29.82	29.26	0
8/6/2018 15:45	8.39	12.59	18.68	29.9	29.26	0

8/6/2018 16:00	9.02	347	20.5	29.75	29.26	0
8/6/2018 16:15	8.49	356.6	21.26	29.94	29.26	0
8/6/2018 16:30	8.39	19.86	17.13	29.65	29.26	0
8/6/2018 16:45	7.871	335.8	23.9	29.82	29.26	0
8/6/2018 17:00	8.18	343.3	23.16	29.64	29.23	0
8/6/2018 17:15	9.08	340.8	17.6	29.49	29.23	0
8/6/2018 17:30	9.38	349.6	15.61	28.98	29.23	0
8/6/2018 17:45	9.45	346.3	12.31	28.78	29.23	0
8/6/2018 18:00	8.84	347.4	17.88	28.38	29.24	0
8/6/2018 18:15	9.16	336	10.52	28.03	29.24	0
8/6/2018 18:30	7.238	325.5	12.19	27.75	29.24	0
8/6/2018 18:45	7.785	317.7	7.666	27.33	29.24	0
8/6/2018 19:00	7.299	333.4	13.56	26.87	29.23	0
8/6/2018 19:15	7.769	338.9	13.7	26.33	29.23	0
8/6/2018 19:30	8.3	18.16	16.29	25.89	29.23	0
8/6/2018 19:45	8.58	30.2	13.45	25.15	29.23	0
8/6/2018 20:00	9.38	24.02	15.02	24.61	29.24	0
8/6/2018 20:15	10.99	36.17	10.17	24.32	29.24	0
8/6/2018 20:30	10.69	36.27	10.04	23.71	29.24	0
8/6/2018 20:45	12.52	39.83	9.97	23.02	29.24	0
8/6/2018 21:00	14.57	39.89	7.688	22.44	29.26	0
8/6/2018 21:15	16.86	36.29	5.999	22.11	29.26	0
8/6/2018 21:30	15.44	34.84	7.697	21.96	29.26	0
8/6/2018 21:45	17.67	25.51	6.47	22	29.26	0
8/6/2018 22:00	15.6	30.86	8.61	21.98	29.24	0
8/6/2018 22:15	14.84	33.67	9.64	21.73	29.24	0
8/6/2018 22:30	12.41	39.42	8.42	21.18	29.24	0
8/6/2018 22:45	11.06	41.31	6.762	20.8	29.24	0
8/6/2018 23:00	10.51	32.7	7.007	20.52	29.25	0
8/6/2018 23:15	12.05	26.34	5.324	20.06	29.25	0
8/6/2018 23:30	8.65	36.36	6.931	19.69	29.25	0
8/6/2018 23:45	10.21	34.18	6.49	19.78	29.25	0
8/7/2018 0:00	8.82	33.08	8.45	20	29.26	0
8/7/2018 0:15	8.25	29.05	4.765	19.8	29.26	0
8/7/2018 0:30	8.39	29.66	11.48	20.42	29.26	0
8/7/2018 0:45	8.57	28.74	9.11	20.22	29.26	0
8/7/2018 1:00	6.906	29.28	9.32	19.48	29.25	0
8/7/2018 1:15	7.308	30.41	6.233	19.54	29.25	0
8/7/2018 1:30	5.685	38.84	8.54	19.56	29.25	0
8/7/2018 1:45	6.024	35.64	6.734	19.88	29.25	0
8/7/2018 2:00	3.128	51.74	15.56	19.59	29.24	0
8/7/2018 2:15	0.699	62.72	23.37	19.69	29.24	0
8/7/2018 2:30	2.079	165.9	41.1	19.37	29.24	0
8/7/2018 2:45	3.232	187.4	20.36	18.66	29.24	0
8/7/2018 3:00	3.763	191.2	13	18.76	29.25	0
8/7/2018 3:15	4.9	203	11.54	18.41	29.25	0
8/7/2018 3:30	4.765	199.9	5.456	18.02	29.25	0

8/7/2018 3:45	4.303	180.8	15.82	17.52	29.25	0
8/7/2018 4:00	1.322	143.4	17.94	16.88	29.24	0
8/7/2018 4:15	1.904	149.3	4.764	17.53	29.24	0
8/7/2018 4:30	1.223	146.7	5.982	17.38	29.24	0
8/7/2018 4:45	0.376	151.3	17.04	17.18	29.24	0
8/7/2018 5:00	0.647	195.8	0.116	17.3	29.26	0
8/7/2018 5:15	0.528	231.3	6.983	17.15	29.26	0
8/7/2018 5:30	3.068	221.4	5.497	17.43	29.26	0
8/7/2018 5:45	1.37	217.1	1.575	17.72	29.26	0
8/7/2018 6:00	1.333	212	7.232	17.98	29.25	0
8/7/2018 6:15	2.64	207.9	9.53	17.71	29.25	0
8/7/2018 6:30	2.118	240.4	20.36	17.83	29.25	0
8/7/2018 6:45	1.886	203.1	16.57	18.05	29.25	0
8/7/2018 7:00	1.201	173.6	34.68	18.7	29.25	0
8/7/2018 7:15	2.501	227.3	11.79	18.66	29.25	0
8/7/2018 7:30	2.756	243.9	9.51	19.05	29.25	0
8/7/2018 7:45	2.359	265.2	20.71	19.72	29.25	0
8/7/2018 8:00	2.357	291	87.5	20.87	29.25	0
8/7/2018 8:15	2.441	37.02	17.16	21.55	29.25	0
8/7/2018 8:30	4.905	50.6	18.63	22.55	29.25	0
8/7/2018 8:45	11.64	25.37	8.57	23.25	29.25	0
8/7/2018 9:00	12.61	21.73	12.93	23.84	29.23	0
8/7/2018 9:15	11.11	20.43	14.11	24.12	29.23	0
8/7/2018 9:30	8.61	351	15.75	24.71	29.23	0
8/7/2018 9:45	8.2	353.5	20.18	25.03	29.23	0
8/7/2018 10:00	7.483	11.23	22.2	25.82	29.23	0
8/7/2018 10:15	8.74	22.09	18.25	25.98	29.23	0
8/7/2018 10:30	7.202	10.23	24.16	26.26	29.23	0
8/7/2018 10:45	7.646	321.1	16.82	26.58	29.23	0
8/7/2018 11:00	6.573	356.7	25.62	27.04	29.22	0
8/7/2018 11:15	8.17	1.547	30.88	27.48	29.22	0
8/7/2018 11:30	10.98	27.53	10.87	27.42	29.22	0
8/7/2018 11:45	10.33	18.09	19.05	27.95	29.22	0
8/7/2018 12:00	9.9	24.69	19.23	28.35	29.2	0
8/7/2018 12:15	11.11	35.9	10.73	28.14	29.2	0
8/7/2018 12:30	10.8	40.45	11.18	28.31	29.2	0
8/7/2018 12:45	10.11	41.87	17.89	28.8	29.2	0
8/7/2018 13:00	8.13	26.21	39.77	29.39	29.18	0
8/7/2018 13:15	7.11	0.706	22.46	29.69	29.18	0
8/7/2018 13:30	8.63	354.2	22.26	30.25	29.18	0
8/7/2018 13:45	9.81	352.3	21.22	30.39	29.18	0
8/7/2018 14:00	10.69	13.62	16.79	30.48	29.17	0
8/7/2018 14:15	9.89	15.01	15.37	30.9	29.17	0
8/7/2018 14:30	9.67	18.28	18.58	31.07	29.17	0
8/7/2018 14:45	10.96	22.71	14.67	31.01	29.17	0
8/7/2018 15:00	10.48	23.65	19.29	31.34	29.14	0
8/7/2018 15:15	10.44	1.979	17.17	31.36	29.14	0

8/7/2018 15:30	9.46	2.279	15.39	31.78	29.14	0
8/7/2018 15:45	10.31	31.46	12.88	31.33	29.14	0
8/7/2018 16:00	10.45	13.46	20.69	31.37	29.12	0
8/7/2018 16:15	8.3	356.9	21.36	31.59	29.12	0
8/7/2018 16:30	8.79	2	14.88	31.55	29.12	0
8/7/2018 16:45	8.8	340.9	17.91	31.47	29.12	0
8/7/2018 17:00	9.55	332.3	19.68	31.51	29.09	0
8/7/2018 17:15	10.16	322.8	12.89	31.27	29.09	0
8/7/2018 17:30	10.31	327.5	12.98	30.99	29.09	0
8/7/2018 17:45	11.53	323.2	6.41	30.68	29.09	0
8/7/2018 18:00	10.72	323.8	7.128	30.36	29.08	0
8/7/2018 18:15	9.41	332.2	15.43	29.97	29.08	0
8/7/2018 18:30	7.596	323.7	10.63	29.73	29.08	0
8/7/2018 18:45	5.37	322.4	11.51	29.45	29.08	0
8/7/2018 19:00	4.853	331	21.29	28.93	29.09	0
8/7/2018 19:15	5.56	336.1	15.45	28.2	29.09	0
8/7/2018 19:30	4.041	356.9	25.08	27.3	29.09	0
8/7/2018 19:45	2.73	25.41	8.84	26.71	29.09	0
8/7/2018 20:00	4.111	18.92	16.22	26.11	29.11	0
8/7/2018 20:15	5.368	23.05	12.63	25.67	29.11	0
8/7/2018 20:30	8.02	24.63	10.29	25.48	29.11	0
8/7/2018 20:45	6.162	41.84	8.7	24.72	29.11	0
8/7/2018 21:00	6.949	38	5.029	24.34	29.12	0
8/7/2018 21:15	8.08	40.67	5.81	24.24	29.12	0
8/7/2018 21:30	9.33	34.12	4.427	24.05	29.12	0
8/7/2018 21:45	9.43	35.32	5.376	23.65	29.12	0
8/7/2018 22:00	9.93	34.99	5.446	23.45	29.1	0
8/7/2018 22:15	9.58	35.55	7.599	23.08	29.1	0
8/7/2018 22:30	10.86	35.19	7.56	22.61	29.1	0
8/7/2018 22:45	10.83	35.19	8.14	22.26	29.1	0
8/7/2018 23:00	8.37	38.94	12.39	22.55	29.11	0
8/7/2018 23:15	8.5	31.27	9.61	21.97	29.11	0
8/7/2018 23:30	9.84	23.06	10.88	21.3	29.11	0
8/7/2018 23:45	10.38	31.89	11.79	20.74	29.11	0
8/8/2018 0:00	12.45	31.73	7.522	20.45	29.11	0
8/8/2018 0:15	9.5	33.01	7.75	19.79	29.11	0
8/8/2018 0:30	8.56	31.37	6.853	19.25	29.11	0
8/8/2018 0:45	8	36.08	9.91	19.33	29.11	0
8/8/2018 1:00	5.859	48.49	11	19.39	29.1	0
8/8/2018 1:15	4.408	36.18	8.98	19.28	29.1	0
8/8/2018 1:30	3.649	33.6	4.292	18.74	29.1	0
8/8/2018 1:45	4.228	34.34	4.926	18.94	29.1	0
8/8/2018 2:00	4.393	29.33	4.818	18.89	29.11	0
8/8/2018 2:15	3.721	38.65	7.798	18.89	29.11	0
8/8/2018 2:30	4.023	43.03	7.902	19.14	29.11	0
8/8/2018 2:45	1.88	53.93	3.124	19.92	29.11	0
8/8/2018 3:00	2.207	79.77	17.72	19.66	29.11	0

8/8/2018 3:15	3.178	110.4	3.669	19.36	29.11	0
8/8/2018 3:30	2.354	136.3	25.44	20.48	29.11	0
8/8/2018 3:45	1.501	184	20.22	20.28	29.11	0
8/8/2018 4:00	2.881	172.6	14.9	20.2	29.11	0
8/8/2018 4:15	0.713	139.2	4.034	20.28	29.11	0
8/8/2018 4:30	0.172	126.7	0.04	19.71	29.11	0
8/8/2018 4:45	0.235	125.3	1.825	19.44	29.11	0
8/8/2018 5:00	0.001	103.7	0.15	19.44	29.11	0
8/8/2018 5:15	0.433	28.04	42.96	19.16	29.11	0
8/8/2018 5:30	2.322	309.9	15.02	19.23	29.11	0
8/8/2018 5:45	3.324	338.2	4.205	18.3	29.11	0
8/8/2018 6:00	4.766	318.8	11.45	18.53	29.11	0
8/8/2018 6:15	4.251	314.3	6.808	19.26	29.11	0
8/8/2018 6:30	1.767	293.4	6.425	20.2	29.11	0
8/8/2018 6:45	1.495	293.4	12.5	20.87	29.11	0
8/8/2018 7:00	1.495	310.5	18.12	21.47	29.11	0
8/8/2018 7:15	1.81	303.7	26.84	21.52	29.11	0
8/8/2018 7:30	1.56	111.1	37.69	21.93	29.11	0
8/8/2018 7:45	1.954	152.1	26.23	22.26	29.11	0
8/8/2018 8:00	2.836	181	22.38	22.2	29.13	0
8/8/2018 8:15	1.941	228.9	14.45	22.42	29.13	0
8/8/2018 8:30	1.272	263.2	73.24	23.54	29.13	0
8/8/2018 8:45	1.716	241.3	60.44	24.14	29.13	0
8/8/2018 9:00	1.962	295.8	50.11	24.77	29.11	0
8/8/2018 9:15	2.198	333.3	71.75	25.36	29.11	0
8/8/2018 9:30	2.749	13.85	24.47	25.64	29.11	0
8/8/2018 9:45	3.456	316.7	23.36	26.03	29.11	0
8/8/2018 10:00	2.616	329.4	35.24	26.76	29.12	0
8/8/2018 10:15	2.666	339.1	40.84	27.1	29.12	0
8/8/2018 10:30	2.835	33.83	35.76	27.62	29.12	0
8/8/2018 10:45	3.165	35.61	55.68	28.31	29.12	0
8/8/2018 11:00	6.057	296.5	30.33	28.2	29.11	0
8/8/2018 11:15	7.788	272.7	9.15	28.2	29.11	0
8/8/2018 11:30	8.03	276.2	10.39	28.62	29.11	0
8/8/2018 11:45	6.571	280.6	12.26	28.66	29.11	0
8/8/2018 12:00	5.845	279.8	12.48	29.2	29.1	0
8/8/2018 12:15	7.101	276.8	14.22	29.63	29.1	0
8/8/2018 12:30	7.615	273.3	11.92	30.02	29.1	0
8/8/2018 12:45	7.792	276.5	14.52	30.23	29.1	0
8/8/2018 13:00	8.11	264.8	19.06	30.28	29.09	0
8/8/2018 13:15	7.828	274.2	10.21	30.65	29.09	0
8/8/2018 13:30	6.651	284.9	13.28	31.35	29.09	0
8/8/2018 13:45	7.286	281.5	12.86	31.39	29.09	0
8/8/2018 14:00	8.36	256.8	17.49	31.58	29.09	0
8/8/2018 14:15	7.154	270.9	18.84	32.02	29.09	0
8/8/2018 14:30	7.692	280.6	9.19	32.21	29.09	0
8/8/2018 14:45	7.133	274	14.75	32.43	29.09	0

8/8/2018 15:00	8.18	278.5	11.74	32.46	29.08	0
8/8/2018 15:15	8.7	265	17.08	32.64	29.08	0
8/8/2018 15:30	7.931	272.5	12.73	32.65	29.08	0
8/8/2018 15:45	9.59	256.7	9.41	32.18	29.08	0
8/8/2018 16:00	9.17	254.9	9	32.08	29.06	0
8/8/2018 16:15	7.757	257.4	12.49	32.26	29.06	0
8/8/2018 16:30	8.13	252.5	8.54	32.02	29.06	0
8/8/2018 16:45	8.67	258.4	8.75	31.82	29.06	0
8/8/2018 17:00	8.11	258.8	12.18	31.69	29.07	0
8/8/2018 17:15	7.912	257.7	7.593	31.57	29.07	0
8/8/2018 17:30	7.372	265.8	8.54	31.48	29.07	0
8/8/2018 17:45	5.991	283.4	11.06	31.39	29.07	0
8/8/2018 18:00	5.299	296.9	7.848	31.25	29.06	0
8/8/2018 18:15	4.193	309.8	14.73	31.08	29.06	0
8/8/2018 18:30	3.709	319.2	14.81	30.64	29.06	0
8/8/2018 18:45	3.788	275.2	7.728	30.4	29.06	0
8/8/2018 19:00	4.471	272.6	4.589	30.05	29.09	0
8/8/2018 19:15	3.333	278.1	2.779	29.67	29.09	0
8/8/2018 19:30	3.491	282.6	2.713	29.52	29.09	0
8/8/2018 19:45	3.512	295.2	2.448	29.23	29.09	0
8/8/2018 20:00	1.109	311.9	7.294	28.82	29.1	0
8/8/2018 20:15	0.52	323.9	0.094	27.67	29.1	0
8/8/2018 20:30	0.352	323.9	0.062	27.59	29.1	0
8/8/2018 20:45	2.966	214.6	24.55	27.04	29.1	0
8/8/2018 21:00	3.716	217.7	3.297	27.4	29.1	0
8/8/2018 21:15	1.903	198.9	5.714	27.23	29.1	0
8/8/2018 21:30	1.441	169.5	16.77	26.4	29.1	0
8/8/2018 21:45	2.012	175.9	34.02	26.36	29.1	0
8/8/2018 22:00	6.342	211	4.562	25.18	29.13	0
8/8/2018 22:15	5.375	190.4	19.41	24.71	29.13	0
8/8/2018 22:30	2.508	159.4	7.595	23.58	29.13	0
8/8/2018 22:45	3.565	154.1	7.595	24.31	29.13	0
8/8/2018 23:00	4.447	171.8	7.84	23.99	29.14	0
8/8/2018 23:15	6.723	180.6	12.39	23.42	29.14	0
8/8/2018 23:30	5.811	183.8	7.163	23.39	29.14	0
8/8/2018 23:45	5.923	187.5	8.19	23.06	29.14	0
8/9/2018 0:00	3.674	179.8	25.77	23.15	29.17	0
8/9/2018 0:15	4.307	145.4	6.665	23.12	29.17	0
8/9/2018 0:30	6.119	165.9	12.38	22.89	29.17	0
8/9/2018 0:45	6.033	178.6	6.949	22.41	29.17	0
8/9/2018 1:00	5.393	161.3	4.236	22.29	29.15	0
8/9/2018 1:15	5.187	160.2	4.22	22.34	29.15	0
8/9/2018 1:30	4.062	153.3	2.479	22.19	29.15	0
8/9/2018 1:45	3.828	164.7	8.52	22.33	29.15	0
8/9/2018 2:00	4.206	189.6	6.224	22.89	29.14	0
8/9/2018 2:15	4.507	213.1	11.89	22.74	29.14	0
8/9/2018 2:30	4.87	238.7	6.042	21.41	29.14	0

8/9/2018 2:45	5.487	238.3	5.212	20.59	29.14	0
8/9/2018 3:00	3.05	256	14.66	20.04	29.17	0
8/9/2018 3:15	4.124	309.5	7.423	19.47	29.17	0
8/9/2018 3:30	4.825	311.2	2.481	18.71	29.17	0
8/9/2018 3:45	6.027	294.7	5.479	18.45	29.17	0
8/9/2018 4:00	5.327	269.6	10.97	18.29	29.17	0
8/9/2018 4:15	3.141	245	4.557	18.83	29.17	0
8/9/2018 4:30	1.72	219.4	7.817	18.83	29.17	0
8/9/2018 4:45	0.172	216.8	0.011	18.29	29.17	0
8/9/2018 5:00	0.335	216.8	0.065	17.86	29.17	0
8/9/2018 5:15	0.877	227.3	3.018	17.61	29.17	0
8/9/2018 5:30	2.132	179.2	18.04	17.58	29.17	0
8/9/2018 5:45	3.098	196.8	8.16	17.9	29.17	0
8/9/2018 6:00	2.787	192.1	5.73	18.15	29.18	0
8/9/2018 6:15	3.143	193.6	5.684	18.29	29.18	0
8/9/2018 6:30	1.621	144.5	24.58	18.51	29.18	0
8/9/2018 6:45	2.814	203.5	26.17	18.75	29.18	0
8/9/2018 7:00	2.57	221.5	8.43	18.86	29.19	0
8/9/2018 7:15	0.701	175.4	36.91	19.74	29.19	0
8/9/2018 7:30	1.508	216.1	37.03	20.06	29.19	0
8/9/2018 7:45	2.637	231.6	11.72	19.8	29.19	0
8/9/2018 8:00	3.392	233.3	13.88	19.97	29.19	0
8/9/2018 8:15	2.812	229.2	20.41	20.39	29.19	0
8/9/2018 8:30	2.194	243.6	28.23	20.9	29.19	0
8/9/2018 8:45	1.586	276.3	30.69	22.04	29.19	0
8/9/2018 9:00	3.326	341	22.19	22.67	29.21	0
8/9/2018 9:15	2.704	291	28.07	22.99	29.21	0
8/9/2018 9:30	2.339	349.3	33.27	23.79	29.21	0
8/9/2018 9:45	2.737	53.54	41.18	24.15	29.21	0
8/9/2018 10:00	3.061	337.5	36.11	24.95	29.19	0
8/9/2018 10:15	2.761	2.329	47.47	25.53	29.19	0
8/9/2018 10:30	3.446	321.1	36	26.14	29.19	0
8/9/2018 10:45	5.004	296.5	30.12	26.33	29.19	0
8/9/2018 11:00	4.533	293.3	19.27	26.57	29.2	0
8/9/2018 11:15	4.596	301.8	25.61	26.96	29.2	0
8/9/2018 11:30	4.799	284.7	18.26	27.74	29.2	0
8/9/2018 11:45	5.366	286.3	19.1	28.21	29.2	0
8/9/2018 12:00	6.452	271.8	18.11	28.57	29.18	0
8/9/2018 12:15	7.636	274	14.96	28.69	29.18	0
8/9/2018 12:30	7.156	271.5	15.62	29.11	29.18	0
8/9/2018 12:45	8.49	277.2	12.58	29.6	29.18	0
8/9/2018 13:00	8.77	273.9	10.92	29.69	29.15	0
8/9/2018 13:15	7.316	281.1	19.63	30.11	29.15	0
8/9/2018 13:30	6.245	293	21.15	30.28	29.15	0
8/9/2018 13:45	6.73	295.1	26.65	30.6	29.15	0
8/9/2018 14:00	7.495	271.8	15.7	30.64	29.15	0
8/9/2018 14:15	7.58	269.3	19.76	30.89	29.15	0

8/9/2018 14:30	8.06	276.1	10.14	30.98	29.15	0
8/9/2018 14:45	7.104	280.8	18.81	31.38	29.15	0
8/9/2018 15:00	5.967	279.7	20.22	31.51	29.14	0
8/9/2018 15:15	7.289	297.1	16.56	31.75	29.14	0
8/9/2018 15:30	6.454	286.8	18.54	31.93	29.14	0
8/9/2018 15:45	7.579	299.3	15.21	31.78	29.14	0
8/9/2018 16:00	5.788	310.5	21.27	32.21	29.12	0
8/9/2018 16:15	5.744	322.4	38.32	31.99	29.12	0
8/9/2018 16:30	5.629	2.404	29.93	32.02	29.12	0
8/9/2018 16:45	7.132	13.57	23.75	31.51	29.12	0
8/9/2018 17:00	7.125	14.23	16.34	31.43	29.12	0
8/9/2018 17:15	7.05	10.53	14.73	31.26	29.12	0
8/9/2018 17:30	8.59	359.2	11.42	31.07	29.12	0
8/9/2018 17:45	7.267	353	16.78	30.85	29.12	0
8/9/2018 18:00	6.578	324.5	8.34	30.8	29.11	0
8/9/2018 18:15	6.72	327.3	8.24	30.47	29.11	0
8/9/2018 18:30	7.37	323.2	6.393	30.1	29.11	0
8/9/2018 18:45	6.97	322.7	9.39	29.65	29.11	0
8/9/2018 19:00	6.777	340.5	14.43	29.27	29.11	0
8/9/2018 19:15	5.827	7.896	14.38	29.11	29.11	0
8/9/2018 19:30	5.421	35.62	17.03	28	29.11	0
8/9/2018 19:45	6.2	41.51	7.564	27.01	29.11	0
8/9/2018 20:00	6.354	45.18	7.994	26.64	29.09	0
8/9/2018 20:15	6.082	35.59	8.71	26.07	29.09	0
8/9/2018 20:30	1.761	31.92	40.84	25.95	29.09	0
8/9/2018 20:45	4.474	49.87	9.04	25.18	29.09	0
8/9/2018 21:00	7.044	41.18	6.071	25.05	29.1	0
8/9/2018 21:15	3.853	23.17	9.65	24.37	29.1	0
8/9/2018 21:30	3.305	41.23	7.927	24.68	29.1	0
8/9/2018 21:45	6.108	26.25	8.31	24.14	29.1	0
8/9/2018 22:00	10.13	31.87	7.825	24.2	29.09	0
8/9/2018 22:15	10.64	27.48	9.71	24.25	29.09	0
8/9/2018 22:30	10.91	27.37	8.67	23.67	29.09	0
8/9/2018 22:45	12.36	32.04	9.12	23.09	29.09	0
8/9/2018 23:00	11.44	31.16	8.58	22.72	29.1	0
8/9/2018 23:15	9.01	21.94	10.73	22.69	29.1	0
8/9/2018 23:30	9.13	32.92	9.85	22.41	29.1	0
8/9/2018 23:45	9.42	34.71	9.43	22.21	29.1	0
8/10/2018 0:00	8.09	35.5	5.935	21.87	29.08	0
8/10/2018 0:15	7.88	27.56	6.818	21.86	29.08	0
8/10/2018 0:30	7.718	29.86	9.23	21.66	29.08	0
8/10/2018 0:45	8.18	21.71	11.26	21.46	29.08	0
8/10/2018 1:00	6.938	29.55	8.48	21.27	29.08	0
8/10/2018 1:15	6.535	39.33	11.74	20.7	29.08	0
8/10/2018 1:30	7.347	39.49	9.7	20.46	29.08	0
8/10/2018 1:45	6.753	46.18	7.598	20.79	29.08	0
8/10/2018 2:00	6.544	48.75	5.587	20.88	29.09	0

8/10/2018 2:15	6.314	43.6	10.33	21.27	29.09	0
8/10/2018 2:30	5.149	38.07	5.92	20.39	29.09	0
8/10/2018 2:45	3.912	64.95	12.98	20.57	29.09	0
8/10/2018 3:00	3.257	88	19.25	21.32	29.11	0
8/10/2018 3:15	2.669	138.3	20.85	21.14	29.11	0
8/10/2018 3:30	2.336	124	22.26	21.77	29.11	0
8/10/2018 3:45	3.434	164.1	24.37	21.66	29.11	0
8/10/2018 4:00	4.611	163.8	10.33	21.04	29.09	0
8/10/2018 4:15	5.595	174.6	8.2	21.64	29.09	0
8/10/2018 4:30	5.596	174.3	8.33	21.53	29.09	0
8/10/2018 4:45	4.753	172.3	65.05	20.72	29.09	0
8/10/2018 5:00	1.842	53.05	63.64	20.07	29.1	0
8/10/2018 5:15	1.723	97.7	19.29	20.08	29.1	0
8/10/2018 5:30	0.119	102.9	0.545	19.91	29.1	0
8/10/2018 5:45	4.102	252.6	21.54	19.77	29.1	0
8/10/2018 6:00	3.278	246.5	7.595	19.11	29.11	0
8/10/2018 6:15	2.205	244.8	24.42	19.4	29.11	0
8/10/2018 6:30	2.192	172.3	17.62	18.92	29.11	0
8/10/2018 6:45	3.233	155.8	12.29	19.09	29.11	0
8/10/2018 7:00	4.372	145.9	7.802	19.63	29.14	0
8/10/2018 7:15	5.502	161.4	9.09	19.94	29.14	0
8/10/2018 7:30	4.482	153.8	21.25	20.34	29.14	0
8/10/2018 7:45	6.428	133.5	10.01	20.79	29.14	0
8/10/2018 8:00	5.744	141.7	12.03	21.49	29.15	0
8/10/2018 8:15	5.861	153.4	14.36	22.02	29.15	0
8/10/2018 8:30	6.187	155.7	12	22.71	29.15	0
8/10/2018 8:45	6.17	181.6	22.64	22.59	29.15	0
8/10/2018 9:00	6.005	196.9	14.53	22.76	29.16	0
8/10/2018 9:15	5.876	200.4	18.46	22.73	29.16	0
8/10/2018 9:30	3.796	209.7	31.57	22.99	29.16	0
8/10/2018 9:45	4.259	220.3	33.83	23.36	29.16	0
8/10/2018 10:00	4.479	182.3	33.05	23.85	29.16	0
8/10/2018 10:15	6.124	198	38.81	24.49	29.16	0
8/10/2018 10:30	5.989	208.2	29.03	24.46	29.16	0
8/10/2018 10:45	6.013	268.5	25.99	24.72	29.16	0
8/10/2018 11:00	5.519	215.8	37.09	25.04	29.16	0
8/10/2018 11:15	5.196	218.8	28.04	25.22	29.16	0
8/10/2018 11:30	8.59	254.1	38.64	25.29	29.16	0
8/10/2018 11:45	7.361	282.8	12.93	25.22	29.16	0
8/10/2018 12:00	5.095	262.8	24.41	25.43	29.16	0
8/10/2018 12:15	4.508	249.1	20.63	25.45	29.16	0
8/10/2018 12:30	5.935	238.3	25.95	26.04	29.16	0
8/10/2018 12:45	6.322	212.4	23.11	26.21	29.16	0
8/10/2018 13:00	6.595	231.8	23.21	26.51	29.13	0
8/10/2018 13:15	7.592	234.1	23.09	26.58	29.13	0
8/10/2018 13:30	7.221	256.9	15.09	26.64	29.13	0
8/10/2018 13:45	8.12	277.4	18.52	26.68	29.13	0

8/10/2018 14:00	7.211	293.4	16.88	26.84	29.15	0
8/10/2018 14:15	8.6	282.2	15.78	26.6	29.15	0
8/10/2018 14:30	7.401	287.6	25.9	26.5	29.15	0
8/10/2018 14:45	5.896	230.6	28.13	26.63	29.15	0
8/10/2018 15:00	5.644	229.4	28.47	26.96	29.14	0
8/10/2018 15:15	5.962	269.6	20.91	27.34	29.14	0
8/10/2018 15:30	6.841	278.2	22.33	27.22	29.14	0
8/10/2018 15:45	6.848	276.2	19.13	27.1	29.14	0
8/10/2018 16:00	6.792	258.8	20.82	27.36	29.13	0
8/10/2018 16:15	6.862	260.6	20.94	27.45	29.13	0
8/10/2018 16:30	8.74	281.5	15.96	27.19	29.13	0
8/10/2018 16:45	8.33	280.8	16.42	26.95	29.13	0
8/10/2018 17:00	10.45	286.6	9.8	26.41	29.12	0
8/10/2018 17:15	9.87	284.3	11.07	26.11	29.12	0
8/10/2018 17:30	8.09	267.2	10.08	25.95	29.12	0
8/10/2018 17:45	8.11	250.7	12.56	25.84	29.12	0
8/10/2018 18:00	9.97	259.9	10.8	25.17	29.14	0
8/10/2018 18:15	8.41	264.5	13.87	24.71	29.14	0
8/10/2018 18:30	9.14	256.8	11.88	24.21	29.14	0
8/10/2018 18:45	8.67	242.1	11.63	23.68	29.14	0
8/10/2018 19:00	3.77	225	13.72	23.47	29.15	0
8/10/2018 19:15	3.106	198.7	33.55	23.04	29.15	0
8/10/2018 19:30	2.315	178.3	18.48	22.68	29.15	0
8/10/2018 19:45	3.929	218.9	10.43	22.72	29.15	0
8/10/2018 20:00	7.6	227.7	6.071	22.35	29.14	0
8/10/2018 20:15	7.13	232.2	7.081	21.77	29.14	0
8/10/2018 20:30	7.45	237.1	7.014	21.14	29.14	0
8/10/2018 20:45	5.686	254.9	15.33	20.3	29.14	0
8/10/2018 21:00	7.303	262.4	6.799	19.57	29.15	0
8/10/2018 21:15	6.096	268.6	6.686	19.17	29.15	0
8/10/2018 21:30	6.038	273.8	11.29	18.74	29.15	0
8/10/2018 21:45	7.555	251.5	8.17	18.22	29.15	0
8/10/2018 22:00	6.499	250.8	6.431	17.75	29.2	0
8/10/2018 22:15	5.552	250.4	8.44	17.47	29.2	0
8/10/2018 22:30	4.353	231.5	7.329	17.38	29.2	0
8/10/2018 22:45	2.169	210.2	6.75	17.16	29.2	0
8/10/2018 23:00	7.123	188.7	12.12	17.1	29.21	0
8/10/2018 23:15	9.34	212.4	8.94	17.08	29.21	0
8/10/2018 23:30	8.3	219.5	6.994	16.98	29.21	0
8/10/2018 23:45	6.341	192.8	15.33	16.87	29.21	0
8/11/2018 0:00	8.6	185.3	7.553	16.68	29.21	0
8/11/2018 0:15	7.652	188.4	7.951	16.66	29.21	0
8/11/2018 0:30	6.673	192.9	11.05	16.71	29.21	0
8/11/2018 0:45	10.64	201.7	8.51	16.65	29.21	0
8/11/2018 1:00	11.29	199.9	8.35	16.39	29.2	0
8/11/2018 1:15	9.28	197.4	8.84	16.28	29.2	0
8/11/2018 1:30	8.16	196.9	8.43	16.21	29.2	0

8/11/2018 1:45	7.528	193.5	7.506	16.16	29.2	0
8/11/2018 2:00	7.566	182.3	8.86	16.11	29.22	0
8/11/2018 2:15	7.072	176.3	12.56	16.17	29.22	0
8/11/2018 2:30	9.19	156.8	8.42	15.87	29.22	0
8/11/2018 2:45	9.35	160	7.232	15.62	29.22	0
8/11/2018 3:00	8.54	158.5	7.543	15.26	29.22	0
8/11/2018 3:15	7.089	155.3	9.34	14.76	29.22	0
8/11/2018 3:30	6.947	149.7	7.425	14.59	29.22	0
8/11/2018 3:45	6.978	140.9	8.56	14.58	29.22	0
8/11/2018 4:00	6.826	142.5	10.37	14.63	29.23	0
8/11/2018 4:15	7.516	146.8	8.94	14.69	29.23	0
8/11/2018 4:30	7.251	141	12.05	14.77	29.23	0
8/11/2018 4:45	7.76	134.7	9.57	14.87	29.23	0
8/11/2018 5:00	7.975	134.3	9.59	14.92	29.23	0
8/11/2018 5:15	7.424	143.4	15.49	14.97	29.23	0
8/11/2018 5:30	9.51	132.8	8.19	14.99	29.23	0
8/11/2018 5:45	9.01	131.7	9.36	15.09	29.23	0
8/11/2018 6:00	8.18	136.5	9.5	15.21	29.22	0
8/11/2018 6:15	6.434	145.6	11.49	15.29	29.22	0
8/11/2018 6:30	6.469	143.4	10.75	15.53	29.22	0
8/11/2018 6:45	6.192	153.2	9.91	15.87	29.22	0
8/11/2018 7:00	6.978	152.9	8.14	16.19	29.25	0
8/11/2018 7:15	6.355	151.7	10.92	16.64	29.25	0
8/11/2018 7:30	8.6	148.2	7.293	16.71	29.25	0
8/11/2018 7:45	8.1	147.3	10.69	16.88	29.25	0
8/11/2018 8:00	7.606	153.9	13.72	17.33	29.23	0
8/11/2018 8:15	5.91	173.3	24.58	17.38	29.23	0
8/11/2018 8:30	8.09	183.2	12.86	17.63	29.23	0
8/11/2018 8:45	8.87	199.5	11.69	18.08	29.23	0
8/11/2018 9:00	10.37	208.8	16.96	18.07	29.25	0
8/11/2018 9:15	9.22	218	15.23	18.12	29.25	0
8/11/2018 9:30	7.781	200.1	14.55	19.26	29.25	0
8/11/2018 9:45	8.58	205.4	20.34	19.67	29.25	0
8/11/2018 10:00	10.33	213.4	17.56	19.59	29.23	0
8/11/2018 10:15	9.81	236.6	15.46	19.32	29.23	0
8/11/2018 10:30	10.9	228.7	17.57	19.26	29.23	0
8/11/2018 10:45	10.19	194	13.23	19.98	29.23	0
8/11/2018 11:00	10.18	212.6	23.38	19.88	29.23	0
8/11/2018 11:15	11.35	219	16.24	19.29	29.23	0
8/11/2018 11:30	8.36	207.8	12.78	17.95	29.23	0
8/11/2018 11:45	7.832	195.2	30.32	18.46	29.23	0
8/11/2018 12:00	11.13	228.3	12.64	18.41	29.26	0
8/11/2018 12:15	12.33	224.9	13.4	16.85	29.26	0.02
8/11/2018 12:30	8.99	196.7	13.65	16.25	29.26	0.02
8/11/2018 12:45	6.59	185.1	8.63	16.09	29.26	0.02
8/11/2018 13:00	6.615	184	10.09	16.52	29.28	0.01
8/11/2018 13:15	7.133	172.5	13.51	17.6	29.28	0

8/11/2018 13:30	6.071	187.8	24.6	17.79	29.28	0
8/11/2018 13:45	5.728	197.9	23.67	18.46	29.28	0
8/11/2018 14:00	6.744	204.7	19.76	19.34	29.25	0
8/11/2018 14:15	8.09	215.9	15.11	19.28	29.25	0
8/11/2018 14:30	8.27	203.8	17.86	20.13	29.25	0
8/11/2018 14:45	9.47	208.6	21.01	20.09	29.25	0
8/11/2018 15:00	9.54	230.8	12.26	20.08	29.23	0
8/11/2018 15:15	8.94	240.7	17.01	19.88	29.23	0
8/11/2018 15:30	8.07	263.7	10.85	19.82	29.23	0
8/11/2018 15:45	6.396	264.5	15.06	19.85	29.23	0
8/11/2018 16:00	8.4	247.1	13.48	19.63	29.23	0
8/11/2018 16:15	12.66	233.7	9.37	19.23	29.23	0
8/11/2018 16:30	8.54	221	14.25	19.66	29.23	0
8/11/2018 16:45	9.53	224.9	11.46	19.98	29.23	0
8/11/2018 17:00	11.03	210.6	10.95	19.28	29.23	0
8/11/2018 17:15	9.51	201	13.3	19.29	29.23	0
8/11/2018 17:30	9.13	202.6	9.13	19.17	29.23	0
8/11/2018 17:45	10.73	208.3	16.65	19.19	29.23	0
8/11/2018 18:00	9.19	213.3	20.24	19.26	29.24	0
8/11/2018 18:15	10.76	223.1	17.72	19.14	29.24	0
8/11/2018 18:30	10.44	224.7	11.14	18.92	29.24	0
8/11/2018 18:45	10.37	223.9	9.12	18.89	29.24	0
8/11/2018 19:00	9.84	221.7	10.68	18.74	29.27	0
8/11/2018 19:15	9.68	232	9.27	18.62	29.27	0
8/11/2018 19:30	6.567	228.3	11.75	18.6	29.27	0
8/11/2018 19:45	7.133	218.8	11.95	18.41	29.27	0
8/11/2018 20:00	8.91	205.3	9.78	18.16	29.28	0
8/11/2018 20:15	8.57	196.9	13.59	17.85	29.28	0
8/11/2018 20:30	8.22	167.5	14.15	17.04	29.28	0
8/11/2018 20:45	7.039	144.4	9.85	16.51	29.28	0
8/11/2018 21:00	6.96	149.6	7.59	16.15	29.3	0
8/11/2018 21:15	6.328	159.7	10.82	16.16	29.3	0
8/11/2018 21:30	7.446	190.6	5.839	16.43	29.3	0
8/11/2018 21:45	5.169	174.9	9.29	16.02	29.3	0
8/11/2018 22:00	3.592	167.2	7.871	15.74	29.3	0
8/11/2018 22:15	5.779	190.8	11.5	15.98	29.3	0
8/11/2018 22:30	4.906	201.3	10.35	16.04	29.3	0
8/11/2018 22:45	4.451	167.5	11.99	15.82	29.3	0
8/11/2018 23:00	4.721	153.4	12.71	15.79	29.3	0
8/11/2018 23:15	7.02	186.1	8.13	15.96	29.3	0
8/11/2018 23:30	8.22	185.6	7.438	16.02	29.3	0
8/11/2018 23:45	8.05	186.6	6.675	16.05	29.3	0
8/12/2018 0:00	7.489	185.9	6.256	16.04	29.31	0
8/12/2018 0:15	5.91	191.4	8.26	16.08	29.31	0
8/12/2018 0:30	5.249	191.7	10.3	16.04	29.31	0
8/12/2018 0:45	4.561	191.5	10.26	16.08	29.31	0
8/12/2018 1:00	3.118	169.3	19.58	15.93	29.31	0

8/12/2018 1:15	2.809	160	14.68	15.73	29.31	0
8/12/2018 1:30	3.977	144.2	8.73	15.53	29.31	0
8/12/2018 1:45	4.281	152.8	5.922	15.44	29.31	0
8/12/2018 2:00	5.073	177.6	9.39	15.51	29.31	0
8/12/2018 2:15	5.888	185.5	6.923	15.57	29.31	0
8/12/2018 2:30	4.495	180.7	7.499	15.46	29.31	0
8/12/2018 2:45	4.211	189.5	15.57	15.47	29.31	0
8/12/2018 3:00	5.433	220.6	7.443	15.65	29.34	0
8/12/2018 3:15	5.299	216.2	6.902	15.6	29.34	0
8/12/2018 3:30	5.794	223.4	6.221	15.5	29.34	0
8/12/2018 3:45	4.039	201.2	11.86	15.29	29.34	0
8/12/2018 4:00	2.673	172.8	11.16	15.02	29.32	0
8/12/2018 4:15	6.157	191.5	6.053	15.16	29.32	0
8/12/2018 4:30	5.367	193.3	11.93	15.05	29.32	0
8/12/2018 4:45	3.412	162.1	12.17	14.52	29.32	0
8/12/2018 5:00	3.709	178	9.58	14.75	29.34	0
8/12/2018 5:15	4.596	192.8	6.371	14.75	29.34	0
8/12/2018 5:30	3.351	169.9	18.06	14.59	29.34	0
8/12/2018 5:45	3.01	129.8	10.85	14.48	29.34	0
8/12/2018 6:00	3.786	131.9	4.864	14.67	29.35	0
8/12/2018 6:15	2.912	124.8	6.478	15.11	29.35	0
8/12/2018 6:30	4.072	114.6	5.601	15.17	29.35	0
8/12/2018 6:45	4.974	120.7	7.039	15.37	29.35	0
8/12/2018 7:00	3.87	102.3	17.65	15.86	29.37	0
8/12/2018 7:15	3.571	92.8	18.85	16.17	29.37	0
8/12/2018 7:30	3.666	92.7	19.81	16.22	29.37	0
8/12/2018 7:45	2.656	119.9	19.01	16.51	29.37	0
8/12/2018 8:00	5.235	163.3	14.37	16.65	29.37	0
8/12/2018 8:15	4.604	163.2	22.34	16.85	29.37	0
8/12/2018 8:30	4.802	149	19.54	16.9	29.37	0
8/12/2018 8:45	3.731	198.6	27.96	16.83	29.37	0
8/12/2018 9:00	4.492	173.3	25.37	16.89	29.37	0
8/12/2018 9:15	5.14	210.4	8.36	16.78	29.37	0
8/12/2018 9:30	4.156	182.3	29.98	16.95	29.37	0
8/12/2018 9:45	4.309	142	25.28	17.33	29.37	0
8/12/2018 10:00	4.008	161	20.12	17.56	29.38	0
8/12/2018 10:15	3.308	144	16.15	17.71	29.38	0
8/12/2018 10:30	1.404	169.3	52.89	18.01	29.38	0
8/12/2018 10:45	1.848	36.32	38.81	18.48	29.38	0
8/12/2018 11:00	3.529	243.9	33.67	18.79	29.37	0
8/12/2018 11:15	2.834	254.8	44.09	19.19	29.37	0
8/12/2018 11:30	3.15	256.9	29.45	19.62	29.37	0
8/12/2018 11:45	2.541	224.1	47.9	19.82	29.37	0
8/12/2018 12:00	2.713	301.9	50.16	20.08	29.35	0
8/12/2018 12:15	3.476	347.6	40.18	20.6	29.35	0
8/12/2018 12:30	4.056	344.1	43.43	20.97	29.35	0
8/12/2018 12:45	5.499	25.04	40.96	20.74	29.35	0

8/12/2018 13:00	4.642	324.5	12.86	20.65	29.33	0
8/12/2018 13:15	3.795	331.6	26.3	21.15	29.33	0
8/12/2018 13:30	5.698	353.4	30.56	21	29.33	0
8/12/2018 13:45	6.126	331.8	33.51	21.06	29.33	0
8/12/2018 14:00	6.604	308.5	13.29	21.21	29.32	0
8/12/2018 14:15	5.305	332.3	28.02	21.23	29.32	0
8/12/2018 14:30	6.067	27.11	13.91	20.93	29.32	0
8/12/2018 14:45	5.457	8.95	23.43	21.36	29.32	0
8/12/2018 15:00	7.123	347.1	21.8	21.32	29.32	0
8/12/2018 15:15	6.999	12.41	32.91	21.34	29.32	0
8/12/2018 15:30	8.23	25.87	9.05	21.12	29.32	0
8/12/2018 15:45	6.776	36.15	11.98	21	29.32	0
8/12/2018 16:00	8.18	34.7	11.03	20.87	29.3	0
8/12/2018 16:15	6.791	30.99	15.11	20.94	29.3	0
8/12/2018 16:30	6.826	30.09	14	21.01	29.3	0
8/12/2018 16:45	6.465	23.73	19.31	20.81	29.3	0
8/12/2018 17:00	7.911	14.16	16.23	20.73	29.3	0
8/12/2018 17:15	6.536	20.81	16.88	20.62	29.3	0
8/12/2018 17:30	6.911	2.817	12.41	20.53	29.3	0
8/12/2018 17:45	6.882	358	15.74	20.44	29.3	0
8/12/2018 18:00	6.084	353.6	16.11	20.28	29.27	0
8/12/2018 18:15	6.83	346.7	12.05	20.14	29.27	0
8/12/2018 18:30	7.719	342.8	10.22	19.79	29.27	0
8/12/2018 18:45	7.729	336.8	14.01	19.38	29.27	0
8/12/2018 19:00	6.405	318.9	11.21	19.03	29.28	0
8/12/2018 19:15	6.166	310.7	12.92	18.65	29.28	0
8/12/2018 19:30	4.967	325.6	22.23	18.34	29.28	0
8/12/2018 19:45	5.056	360	19.35	18.27	29.28	0
8/12/2018 20:00	5.237	30.92	10.69	18.05	29.29	0
8/12/2018 20:15	6.586	14.02	10.5	17.78	29.29	0
8/12/2018 20:30	8.24	12.19	10.67	17.61	29.29	0
8/12/2018 20:45	7.774	13.68	9.41	17.37	29.29	0
8/12/2018 21:00	5.704	25.57	13.82	17.07	29.29	0
8/12/2018 21:15	5.143	29.3	11.26	16.86	29.29	0
8/12/2018 21:30	7.016	30.5	12.05	16.7	29.29	0
8/12/2018 21:45	8.13	23.98	12.31	16.57	29.29	0
8/12/2018 22:00	8.12	28.85	12.72	16.38	29.31	0
8/12/2018 22:15	8.95	26.85	9.81	16.26	29.31	0
8/12/2018 22:30	9.39	28.16	9.19	15.93	29.31	0
8/12/2018 22:45	8.91	23.1	8.65	15.77	29.31	0
8/12/2018 23:00	9.65	26.1	9.62	15.63	29.28	0
8/12/2018 23:15	9.26	32.16	9.94	15.44	29.28	0
8/12/2018 23:30	9.86	32.32	10.06	15.3	29.28	0
8/12/2018 23:45	10.63	36.42	8.1	15.07	29.28	0
8/13/2018 0:00	8.42	44.86	7.104	14.86	29.29	0
8/13/2018 0:15	7.612	38.56	7.528	14.57	29.29	0
8/13/2018 0:30	8.53	38.99	6.544	14.39	29.29	0

8/13/2018 0:45	7.339	42.01	7.527	14.25	29.29	0
8/13/2018 1:00	8.39	41.08	7.69	14.04	29.28	0
8/13/2018 1:15	8.81	36.14	8.18	13.93	29.28	0
8/13/2018 1:30	7.634	35.29	10.32	13.94	29.28	0
8/13/2018 1:45	4.772	29.5	16.72	13.64	29.28	0
8/13/2018 2:00	3.178	25.53	4.854	13.35	29.27	0
8/13/2018 2:15	4.091	24.94	8.16	13.29	29.27	0
8/13/2018 2:30	3.3	27.76	8.77	13.38	29.27	0
8/13/2018 2:45	3.637	30.55	3.938	13.1	29.27	0
8/13/2018 3:00	5.324	39.16	9.07	12.98	29.3	0
8/13/2018 3:15	6.581	38.19	8.55	12.92	29.3	0
8/13/2018 3:30	7.613	39.7	7.647	12.74	29.3	0
8/13/2018 3:45	7.231	28.31	8.98	12.53	29.3	0
8/13/2018 4:00	7.579	30.57	8.81	12.57	29.26	0
8/13/2018 4:15	6.914	28.55	7.3	12.43	29.26	0
8/13/2018 4:30	8.07	42.31	8.25	12.57	29.26	0
8/13/2018 4:45	8.65	36.89	7.697	12.51	29.26	0
8/13/2018 5:00	7.144	34.1	6.54	12.34	29.29	0
8/13/2018 5:15	6.927	43.78	6.879	12.28	29.29	0
8/13/2018 5:30	6.128	35.18	7.523	12.1	29.29	0
8/13/2018 5:45	6.713	30.42	6.763	12.2	29.29	0
8/13/2018 6:00	5.876	35.64	6.772	12.31	29.27	0
8/13/2018 6:15	5.722	25.76	6.649	12.37	29.27	0
8/13/2018 6:30	7.393	32.7	9.93	12.6	29.27	0
8/13/2018 6:45	9.31	30.37	8.67	12.69	29.27	0
8/13/2018 7:00	7.279	34.21	10.18	12.94	29.3	0
8/13/2018 7:15	7.099	35.64	8.16	13.41	29.3	0
8/13/2018 7:30	6.411	35.7	6.247	13.82	29.3	0
8/13/2018 7:45	4.683	50.86	15.16	14.32	29.3	0
8/13/2018 8:00	1.798	65.07	39.1	15.08	29.3	0
8/13/2018 8:15	1.376	46.78	20.67	16.02	29.3	0
8/13/2018 8:30	2.265	55.54	20.73	16.27	29.3	0
8/13/2018 8:45	2.994	41.57	14.82	16.51	29.3	0
8/13/2018 9:00	2.036	46.62	19.36	17.12	29.29	0
8/13/2018 9:15	2.921	55.05	23.37	17.89	29.29	0
8/13/2018 9:30	3.028	44.65	30.42	18.17	29.29	0
8/13/2018 9:45	4.603	94.3	29.29	18.89	29.29	0
8/13/2018 10:00	3.621	93.4	33.89	19.15	29.28	0
8/13/2018 10:15	5.37	49.96	24.21	19.47	29.28	0
8/13/2018 10:30	6.196	38	13.74	20	29.28	0
8/13/2018 10:45	6.882	40.43	11.3	20.15	29.28	0
8/13/2018 11:00	6.471	39.7	19.72	20.66	29.26	0
8/13/2018 11:15	6.58	45.94	14.78	21.03	29.26	0
8/13/2018 11:30	5.249	28.45	21.37	21.1	29.26	0
8/13/2018 11:45	6.521	44.5	23.1	21.55	29.26	0
8/13/2018 12:00	4.329	43.39	26.95	21.94	29.25	0
8/13/2018 12:15	4.622	347.8	53.1	22.77	29.25	0

8/13/2018 12:30	5.432	13.24	23.43	22.9	29.25	0
8/13/2018 12:45	6.687	43.5	17.83	23.18	29.25	0
8/13/2018 13:00	8.52	48.59	20.41	23.4	29.22	0
8/13/2018 13:15	7.399	37.91	18.76	23.98	29.22	0
8/13/2018 13:30	8.27	28.96	32.74	24.2	29.22	0
8/13/2018 13:45	7.362	8.35	41.45	24.74	29.22	0
8/13/2018 14:00	8.54	357.3	17.05	24.58	29.2	0
8/13/2018 14:15	9.29	3.739	18.66	24.84	29.2	0
8/13/2018 14:30	7.49	349.1	19.6	25.27	29.2	0
8/13/2018 14:45	7.36	359.9	14.4	25.29	29.2	0
8/13/2018 15:00	7.225	339.6	20.85	25.45	29.18	0
8/13/2018 15:15	7.444	17.95	24.1	25.48	29.18	0
8/13/2018 15:30	9.71	7.605	15.8	25.57	29.18	0
8/13/2018 15:45	9.52	11.41	11.48	25.22	29.18	0
8/13/2018 16:00	9.68	30.92	7.943	24.9	29.19	0
8/13/2018 16:15	9.39	40	7.939	24.81	29.19	0
8/13/2018 16:30	9.11	41.84	11.2	24.68	29.19	0
8/13/2018 16:45	8.75	45.9	11.87	24.63	29.19	0
8/13/2018 17:00	7.176	53.2	11.41	24.59	29.17	0
8/13/2018 17:15	5.931	41.93	14.52	24.68	29.17	0
8/13/2018 17:30	4.744	358.9	27.97	24.92	29.17	0
8/13/2018 17:45	4.243	345.9	26.71	24.78	29.17	0
8/13/2018 18:00	4.262	32.88	19.14	24.25	29.14	0
8/13/2018 18:15	5.078	43.6	17.31	23.71	29.14	0
8/13/2018 18:30	2.976	33.11	17.77	23.59	29.14	0
8/13/2018 18:45	4.734	28.41	22.94	23	29.14	0
8/13/2018 19:00	4.125	4.613	14.07	22.33	29.14	0
8/13/2018 19:15	2.757	357.6	33.32	22.07	29.14	0
8/13/2018 19:30	5.49	359.4	19.64	21.93	29.14	0
8/13/2018 19:45	7.347	358.4	32.19	21.25	29.14	0
8/13/2018 20:00	14.14	22.15	10.17	21.15	29.16	0
8/13/2018 20:15	16.05	16.98	7.065	20.63	29.16	0
8/13/2018 20:30	12.98	22.99	7.869	20.22	29.16	0
8/13/2018 20:45	12.42	29.1	7.119	19.96	29.16	0
8/13/2018 21:00	9.7	28.93	7.564	19.63	29.15	0
8/13/2018 21:15	8.88	26.59	6.874	19.28	29.15	0
8/13/2018 21:30	8.28	19.97	8.01	19.2	29.15	0
8/13/2018 21:45	6.649	26.99	5.829	18.94	29.15	0
8/13/2018 22:00	7.222	27.61	6.857	18.52	29.17	0
8/13/2018 22:15	7.997	27.98	7.592	18.49	29.17	0
8/13/2018 22:30	6.996	32.42	8.04	18.4	29.17	0
8/13/2018 22:45	9.21	33.91	8.01	18.12	29.17	0
8/13/2018 23:00	9.91	37.78	7.936	17.93	29.17	0
8/13/2018 23:15	7.716	42.53	7.161	17.42	29.17	0
8/13/2018 23:30	7.724	39.78	6.522	17.26	29.17	0
8/13/2018 23:45	5.822	41.51	6.741	17.04	29.17	0
8/14/2018 0:00	5.359	45.44	7.948	17.01	29.17	0

8/14/2018 0:15	4.733	42.57	7.541	16.9	29.17	0
8/14/2018 0:30	4.003	28.46	4.881	16.65	29.17	0
8/14/2018 0:45	3.479	21.58	5.149	16.67	29.17	0
8/14/2018 1:00	4.15	18.84	8.14	16.62	29.15	0
8/14/2018 1:15	3.653	18.01	7.296	16.35	29.15	0
8/14/2018 1:30	3.856	28.85	8.26	16.14	29.15	0
8/14/2018 1:45	3.893	18.99	2.34	15.98	29.15	0
8/14/2018 2:00	4.475	17.23	4.72	16.01	29.15	0
8/14/2018 2:15	4.079	17.07	5.436	15.73	29.15	0
8/14/2018 2:30	3.923	27.47	5.453	15.51	29.15	0
8/14/2018 2:45	3.454	26.09	7.237	15.44	29.15	0
8/14/2018 3:00	3.66	34.68	4.999	15.47	29.16	0
8/14/2018 3:15	3.506	34.19	3.737	15.17	29.16	0
8/14/2018 3:30	3.357	53.13	10.33	15.48	29.16	0
8/14/2018 3:45	3.489	59.49	10.08	15.72	29.16	0
8/14/2018 4:00	4.911	33.11	7.16	15.31	29.15	0
8/14/2018 4:15	4.861	27.39	9.71	14.77	29.15	0
8/14/2018 4:30	5.096	23.91	7.043	14.66	29.15	0
8/14/2018 4:45	4.937	31.66	4.796	14.36	29.15	0
8/14/2018 5:00	4.868	25.77	6.903	14.31	29.15	0
8/14/2018 5:15	4.238	32.37	4.225	14.03	29.15	0
8/14/2018 5:30	4.775	30.93	2.989	14.26	29.15	0
8/14/2018 5:45	3.589	39.73	10.32	14.62	29.15	0
8/14/2018 6:00	2.479	95.2	19.81	15.38	29.16	0
8/14/2018 6:15	0.846	108	0.602	15.73	29.16	0
8/14/2018 6:30	0.141	108.8	0.059	16.24	29.16	0
8/14/2018 6:45	0.67	10.81	14.87	16.25	29.16	0
8/14/2018 7:00	1.117	354.9	0.212	16.15	29.15	0
8/14/2018 7:15	0.189	0.384	5.863	17.08	29.15	0
8/14/2018 7:30	0.117	2.16	2.748	17.45	29.15	0
8/14/2018 7:45	1.112	9.17	8.43	17.7	29.15	0
8/14/2018 8:00	1.3	354.4	7.134	18.1	29.16	0
8/14/2018 8:15	1.548	24.68	20.75	18.45	29.16	0
8/14/2018 8:30	1.495	332.8	11.93	19.26	29.16	0
8/14/2018 8:45	2.657	1.25	13.58	19.91	29.16	0
8/14/2018 9:00	2.248	25.09	16.8	20.33	29.15	0
8/14/2018 9:15	2.36	28.5	23.04	20.77	29.15	0
8/14/2018 9:30	2.766	20.17	28.17	21.22	29.15	0
8/14/2018 9:45	2.184	334.7	28.62	21.87	29.15	0
8/14/2018 10:00	2.64	22.78	50.75	22.44	29.12	0
8/14/2018 10:15	4.032	19.25	15.12	22.49	29.12	0
8/14/2018 10:30	3.402	33.49	17.44	22.83	29.12	0
8/14/2018 10:45	4.161	37.49	20.61	23.34	29.12	0
8/14/2018 11:00	4.037	11.39	30.83	23.9	29.13	0
8/14/2018 11:15	3.959	40.43	16.55	24.34	29.13	0
8/14/2018 11:30	3.478	63.28	27.5	24.61	29.13	0
8/14/2018 11:45	2.228	9.95	64.13	25.76	29.13	0

8/14/2018 12:00	3.373	22.36	35.52	25.97	29.12	0
8/14/2018 12:15	4.487	41.08	37.03	26.1	29.12	0
8/14/2018 12:30	6.06	30.61	22.01	26.6	29.12	0
8/14/2018 12:45	7.051	44.49	11.69	26.58	29.12	0
8/14/2018 13:00	3.873	359.3	76.06	27.23	29.09	0
8/14/2018 13:15	4.526	346.3	35.27	27.78	29.09	0
8/14/2018 13:30	3.969	17.56	25.43	27.63	29.09	0
8/14/2018 13:45	3.835	15.94	31.76	28.15	29.09	0
8/14/2018 14:00	4.635	38.42	15.9	28.34	29.09	0
8/14/2018 14:15	3.545	22.29	74.56	28.71	29.09	0
8/14/2018 14:30	3.719	306.2	59.63	29.07	29.09	0
8/14/2018 14:45	3.397	329.5	49.51	29.23	29.09	0
8/14/2018 15:00	3.939	291.7	70.02	29.19	29.05	0
8/14/2018 15:15	3.523	312.7	25.51	29.45	29.05	0
8/14/2018 15:30	5.049	6.929	29.89	29.31	29.05	0
8/14/2018 15:45	8.31	34.76	8.98	28.88	29.05	0
8/14/2018 16:00	6.429	31.38	17.05	29.16	29.06	0
8/14/2018 16:15	3.057	2.085	51.82	29.65	29.06	0
8/14/2018 16:30	6.051	37.27	13.33	29.08	29.06	0
8/14/2018 16:45	6.869	23.15	11.87	29.03	29.06	0
8/14/2018 17:00	6.772	23.38	9.53	28.85	29.04	0
8/14/2018 17:15	5.674	16.56	13.68	28.78	29.04	0
8/14/2018 17:30	5.086	358.1	28.37	28.74	29.04	0
8/14/2018 17:45	3.987	344.8	37.05	28.52	29.04	0
8/14/2018 18:00	3.972	294.7	18.02	27.88	29.04	0
8/14/2018 18:15	4.47	293.9	22.66	27.28	29.04	0
8/14/2018 18:30	4.883	283.8	4.635	26.49	29.04	0
8/14/2018 18:45	3.891	308.9	8.12	25.97	29.04	0
8/14/2018 19:00	2.789	294.8	7.947	25.71	29.02	0
8/14/2018 19:15	1.586	311.3	20.81	25.54	29.02	0
8/14/2018 19:30	2.729	0.44	22.7	25.09	29.02	0
8/14/2018 19:45	2.999	346.4	10.38	24.55	29.02	0
8/14/2018 20:00	3.474	17.9	11.15	24.04	29.02	0
8/14/2018 20:15	4.848	44.86	12.79	23.04	29.02	0
8/14/2018 20:30	6.007	36.26	7.943	22.91	29.02	0
8/14/2018 20:45	5.869	35.51	9.15	22.3	29.02	0
8/14/2018 21:00	4.675	40.35	10.66	21.65	29.05	0
8/14/2018 21:15	7.589	30.91	7.46	21.74	29.05	0
8/14/2018 21:30	9.04	33.81	7.287	21.45	29.05	0
8/14/2018 21:45	7.165	24.65	8.26	21.54	29.05	0
8/14/2018 22:00	6.01	35.28	5.986	21.21	29.05	0
8/14/2018 22:15	5.505	39.29	4.72	20.87	29.05	0
8/14/2018 22:30	6.157	40.07	8.94	20.7	29.05	0
8/14/2018 22:45	6.445	45.06	7.654	20.31	29.05	0
8/14/2018 23:00	6.126	49.27	6.174	20.27	29.04	0
8/14/2018 23:15	5.749	36.37	9.65	20.05	29.04	0
8/14/2018 23:30	4.661	28.16	5.036	19.64	29.04	0

8/14/2018 23:45	3.834	33.51	6.175	19.51	29.04	0
8/15/2018 0:00	3.162	36.2	8.11	19.52	29.07	0
8/15/2018 0:15	3.574	42	6.236	20.1	29.07	0
8/15/2018 0:30	2.031	36.73	3.023	20.13	29.07	0
8/15/2018 0:45	0.691	56.24	13.64	19.69	29.07	0
8/15/2018 1:00	2.014	58.56	19.4	20.11	29.07	0
8/15/2018 1:15	0.93	32.05	0.088	20.43	29.07	0
8/15/2018 1:30	0	0	0	20.17	29.07	0
8/15/2018 1:45	2.791	163.6	19.71	20.41	29.07	0
8/15/2018 2:00	3.827	158.9	7.232	19.82	29.08	0
8/15/2018 2:15	4.069	150.4	1.783	19.49	29.08	0
8/15/2018 2:30	4.835	153.3	6.33	19.64	29.08	0
8/15/2018 2:45	2.697	168.8	3.398	20.01	29.08	0
8/15/2018 3:00	1.801	168.9	7.328	19.91	29.08	0
8/15/2018 3:15	1.294	155.3	1.286	19.55	29.08	0
8/15/2018 3:30	0.752	154.1	0.176	19.38	29.08	0
8/15/2018 3:45	0.449	303.2	27.47	19.78	29.08	0
8/15/2018 4:00	0.846	309.5	2.292	19.07	29.08	0
8/15/2018 4:15	0	0	0	18.63	29.08	0
8/15/2018 4:30	2.598	224.9	6.013	17.94	29.08	0
8/15/2018 4:45	3.564	203.9	18.79	17.74	29.08	0
8/15/2018 5:00	3.419	188.5	6.373	17.33	29.11	0
8/15/2018 5:15	3.74	172.1	6.628	17.09	29.11	0
8/15/2018 5:30	1.641	128.2	19.2	17.47	29.11	0
8/15/2018 5:45	1.756	113.5	0.143	17.93	29.11	0
8/15/2018 6:00	1.632	120.1	10.2	17.65	29.1	0
8/15/2018 6:15	0.398	122	0.524	17.9	29.1	0
8/15/2018 6:30	0.07	121.7	0.019	18.33	29.1	0
8/15/2018 6:45	1.912	172.8	29.24	18.44	29.1	0
8/15/2018 7:00	3.292	196.1	6.938	18.2	29.12	0
8/15/2018 7:15	3.696	188	8.61	18.19	29.12	0
8/15/2018 7:30	4.346	169.9	8.51	18.61	29.12	0
8/15/2018 7:45	4.896	180.5	9.12	19.15	29.12	0
8/15/2018 8:00	6.263	191.7	6.894	19.43	29.13	0
8/15/2018 8:15	5.215	198.9	8.73	19.45	29.13	0
8/15/2018 8:30	4.455	190.8	9.77	19.78	29.13	0
8/15/2018 8:45	4.163	185.5	11.1	20.51	29.13	0
8/15/2018 9:00	3.853	189.8	16.25	21.22	29.12	0
8/15/2018 9:15	4.104	211.8	13.43	21.74	29.12	0
8/15/2018 9:30	3.966	198.8	14.06	21.89	29.12	0
8/15/2018 9:45	3.391	192.1	22.09	22.58	29.12	0
8/15/2018 10:00	3.097	245.5	27	23.07	29.11	0
8/15/2018 10:15	2.448	222.2	54.87	23.59	29.11	0
8/15/2018 10:30	2.572	220.9	42.73	24.4	29.11	0
8/15/2018 10:45	2.341	199.6	38.39	25.04	29.11	0
8/15/2018 11:00	3.984	239.2	37.06	25.19	29.12	0
8/15/2018 11:15	3.287	267.6	41.12	25.42	29.12	0

8/15/2018 11:30	5.105	264.1	19.45	25.79	29.12	0
8/15/2018 11:45	4.804	268.7	28.45	25.98	29.12	0
8/15/2018 12:00	5.179	257.9	21.02	26.16	29.12	0
8/15/2018 12:15	5.856	265.8	22.37	26.5	29.12	0
8/15/2018 12:30	4.565	289.2	23.22	26.65	29.12	0
8/15/2018 12:45	6.476	271.8	29.01	27.02	29.12	0
8/15/2018 13:00	7.291	276.2	11.9	27.32	29.11	0
8/15/2018 13:15	6.725	282.4	26.46	27.46	29.11	0
8/15/2018 13:30	6.437	300.6	19.08	27.61	29.11	0
8/15/2018 13:45	7.103	301.7	16.23	27.77	29.11	0
8/15/2018 14:00	6.794	298.5	20.89	27.94	29.08	0
8/15/2018 14:15	5.885	300.5	22.25	28.18	29.08	0
8/15/2018 14:30	7.014	284.9	15.93	28.37	29.08	0
8/15/2018 14:45	5.715	293.3	18.97	28.51	29.08	0
8/15/2018 15:00	4.78	302.4	22.47	28.82	29.09	0
8/15/2018 15:15	6.401	274.7	26.22	28.9	29.09	0
8/15/2018 15:30	5.299	307.4	16.74	28.95	29.09	0
8/15/2018 15:45	7.411	281.7	14.6	28.8	29.09	0
8/15/2018 16:00	8.02	293.5	10.32	28.89	29.09	0
8/15/2018 16:15	6.861	299.4	11.68	29.01	29.09	0
8/15/2018 16:30	6.833	311.5	19.05	28.9	29.09	0
8/15/2018 16:45	6.187	310.5	11.26	29.06	29.09	0
8/15/2018 17:00	5.846	301	13.69	28.85	29.08	0
8/15/2018 17:15	6.036	309.8	14.06	28.53	29.08	0
8/15/2018 17:30	5.667	316	17.64	28.24	29.08	0
8/15/2018 17:45	6.877	297.1	7.39	27.92	29.08	0
8/15/2018 18:00	6.159	297.8	7.297	27.62	29.09	0
8/15/2018 18:15	6.424	301.5	5.265	27.2	29.09	0
8/15/2018 18:30	5.4	298.8	5.681	26.8	29.09	0
8/15/2018 18:45	4.792	308.8	6.451	26.18	29.09	0
8/15/2018 19:00	3.108	318.1	16.36	25.61	29.1	0
8/15/2018 19:15	4.044	302.1	6.388	25.23	29.1	0
8/15/2018 19:30	3.448	326	17.99	25.07	29.1	0
8/15/2018 19:45	4.979	29.42	10.91	24.53	29.1	0
8/15/2018 20:00	4.9	31.63	5.72	23.7	29.1	0
8/15/2018 20:15	3.721	43.16	8.02	23.27	29.1	0
8/15/2018 20:30	3.124	47.09	5.11	22.99	29.1	0
8/15/2018 20:45	2.122	56.07	3.796	23.29	29.1	0
8/15/2018 21:00	0.821	83.8	7.063	23.14	29.12	0
8/15/2018 21:15	1.546	183.1	34.46	22.7	29.12	0
8/15/2018 21:30	1.134	208.3	8.5	22.56	29.12	0
8/15/2018 21:45	0.646	199.7	9.96	22.35	29.12	0
8/15/2018 22:00	1.101	162	12.81	22.37	29.11	0
8/15/2018 22:15	2.975	154.2	12.79	21.85	29.11	0
8/15/2018 22:30	3.864	170	11.68	20.85	29.11	0
8/15/2018 22:45	5.278	183.4	6.771	20.81	29.11	0
8/15/2018 23:00	6.418	179.3	7.913	20.63	29.12	0

8/15/2018 23:15	5.928	195.5	6.12	19.84	29.12	0
8/15/2018 23:30	4.576	195.6	10.86	19.57	29.12	0
8/15/2018 23:45	5.136	196.7	10.17	19.28	29.12	0
8/16/2018 0:00	6.159	186	8.74	19.13	29.16	0
8/16/2018 0:15	6.772	193.3	6.621	18.73	29.16	0
8/16/2018 0:30	5.189	203.7	3.834	18.27	29.16	0
8/16/2018 0:45	5.208	220.5	8.1	18.12	29.16	0
8/16/2018 1:00	4.769	246.2	9.27	18.23	29.17	0
8/16/2018 1:15	0.344	254.3	1.365	17.59	29.17	0
8/16/2018 1:30	2.485	203.6	14.98	17.49	29.17	0
8/16/2018 1:45	3.845	197.3	4.244	17.59	29.17	0
8/16/2018 2:00	5.141	206.8	8.52	16.91	29.17	0
8/16/2018 2:15	5.523	211.7	3.282	16.28	29.17	0
8/16/2018 2:30	5.464	208.4	2.09	15.98	29.17	0
8/16/2018 2:45	4.687	197.1	5.989	15.64	29.17	0
8/16/2018 3:00	4.665	192.4	3.025	15.52	29.19	0
8/16/2018 3:15	5.136	201.3	4.19	15.32	29.19	0
8/16/2018 3:30	4.042	204.1	4.102	15.05	29.19	0
8/16/2018 3:45	3.288	199.3	6.249	14.84	29.19	0
8/16/2018 4:00	2.874	198.8	4.096	14.73	29.19	0
8/16/2018 4:15	4.366	206.3	3.336	14.63	29.19	0
8/16/2018 4:30	4.652	212.5	2.039	14.49	29.19	0
8/16/2018 4:45	4.353	203.7	4.029	14.3	29.19	0
8/16/2018 5:00	4.748	206.1	3.219	14.02	29.22	0
8/16/2018 5:15	5.689	212.6	5.478	13.73	29.22	0
8/16/2018 5:30	5.738	214.5	5.37	13.45	29.22	0
8/16/2018 5:45	6.152	202.8	4.102	13.16	29.22	0
8/16/2018 6:00	5.446	198	4.255	13.16	29.25	0
8/16/2018 6:15	4.182	205.1	7.043	13.27	29.25	0
8/16/2018 6:30	4.119	200.7	9.7	13.33	29.25	0
8/16/2018 6:45	3.66	181.1	14.18	13.45	29.25	0
8/16/2018 7:00	4.678	191.9	13.34	13.49	29.26	0
8/16/2018 7:15	3.783	215.5	9.53	13.48	29.26	0
8/16/2018 7:30	2.963	199.7	26.83	13.6	29.26	0
8/16/2018 7:45	2.929	214.7	17.6	13.7	29.26	0
8/16/2018 8:00	2.655	173.8	34.24	13.72	29.27	0
8/16/2018 8:15	2.801	178.8	20.19	13.94	29.27	0
8/16/2018 8:30	2.688	180.5	13.66	14.06	29.27	0
8/16/2018 8:45	3.136	164.5	22.06	14.27	29.27	0
8/16/2018 9:00	2.535	189.7	20.68	14.32	29.26	0
8/16/2018 9:15	0.856	138.7	32.19	14.64	29.26	0
8/16/2018 9:30	2.658	162.8	40.38	14.83	29.26	0
8/16/2018 9:45	1.634	149.8	8.67	14.97	29.26	0
8/16/2018 10:00	2.397	211.6	33.08	15.13	29.27	0
8/16/2018 10:15	3.728	230.4	17.13	15.18	29.27	0
8/16/2018 10:30	5.783	193.2	15.55	15.34	29.27	0
8/16/2018 10:45	4.89	210.6	15.72	15.34	29.27	0

8/16/2018 11:00	4.543	183.9	19.78	15.73	29.27	0
8/16/2018 11:15	3.651	204.1	33.24	15.63	29.27	0
8/16/2018 11:30	4.193	204.5	32.89	15.87	29.27	0
8/16/2018 11:45	5.124	214.7	21.91	15.91	29.27	0
8/16/2018 12:00	4.529	199.4	28.38	16.21	29.28	0
8/16/2018 12:15	3.012	189.8	49.67	16.53	29.28	0
8/16/2018 12:30	2.964	210.8	36.07	17.07	29.28	0
8/16/2018 12:45	3.992	207.5	23.05	17.37	29.28	0
8/16/2018 13:00	2.038	265.9	78.18	17.93	29.27	0
8/16/2018 13:15	3.548	233.3	29.39	18.47	29.27	0
8/16/2018 13:30	2.149	128.6	91.3	19.15	29.27	0
8/16/2018 13:45	2.923	232	44.63	19.76	29.27	0
8/16/2018 14:00	2.516	211.8	54.76	20.48	29.28	0
8/16/2018 14:15	1.92	188.4	49.38	20.87	29.28	0
8/16/2018 14:30	3.74	232.4	42.93	21.22	29.28	0
8/16/2018 14:45	4.02	253.5	53.77	21.4	29.28	0
8/16/2018 15:00	2.442	246.8	61.13	21.97	29.27	0
8/16/2018 15:15	3.675	248.4	39.08	22.5	29.27	0
8/16/2018 15:30	4.243	259.2	25.48	22.36	29.27	0
8/16/2018 15:45	5.419	274.1	28.27	22.37	29.27	0
8/16/2018 16:00	5.329	249.1	18.42	22.54	29.25	0
8/16/2018 16:15	6.344	230	19.93	22.32	29.25	0
8/16/2018 16:30	6.554	240.3	14.47	22.35	29.25	0
8/16/2018 16:45	6.296	257.1	10.98	22.59	29.25	0
8/16/2018 17:00	6.814	253.5	16.15	22.54	29.24	0
8/16/2018 17:15	5.883	238.8	14.7	22.53	29.24	0
8/16/2018 17:30	6.462	245.1	15.02	22.24	29.24	0
8/16/2018 17:45	6.817	230.4	9.7	21.88	29.24	0
8/16/2018 18:00	5.549	228.3	9.7	21.83	29.26	0
8/16/2018 18:15	5.197	237.8	9.92	21.61	29.26	0
8/16/2018 18:30	5.057	276.6	7.341	21	29.26	0
8/16/2018 18:45	4.466	277	4.976	20.63	29.26	0
8/16/2018 19:00	3.985	288.1	6.569	20.33	29.25	0
8/16/2018 19:15	4.411	298.5	1.26	19.89	29.25	0
8/16/2018 19:30	4.358	310.7	7.285	19.69	29.25	0
8/16/2018 19:45	3.012	321.8	5.454	19.6	29.25	0
8/16/2018 20:00	1.222	344.1	9.85	19.19	29.28	0
8/16/2018 20:15	0.006	0.069	0.002	18.7	29.28	0
8/16/2018 20:30	0.777	252.5	16.88	18.32	29.28	0
8/16/2018 20:45	1.403	276.8	19.9	18.65	29.28	0
8/16/2018 21:00	1.129	310.6	0.506	18.75	29.3	0
8/16/2018 21:15	1.678	192.1	18.6	18.22	29.3	0
8/16/2018 21:30	3.16	211.7	9.84	18.06	29.3	0
8/16/2018 21:45	3.866	243.1	8.88	17.74	29.3	0
8/16/2018 22:00	4.54	259.8	6.735	17.32	29.31	0
8/16/2018 22:15	4.732	264.8	7.41	16.98	29.31	0
8/16/2018 22:30	4.176	228	14.82	16.74	29.31	0

8/16/2018 22:45	1.648	178.8	21.79	16.11	29.31	0
8/16/2018 23:00	1.512	152.7	20.67	15.89	29.31	0
8/16/2018 23:15	3.249	173	10.46	15.77	29.31	0
8/16/2018 23:30	2.802	186	11.12	15.79	29.31	0
8/16/2018 23:45	3.099	211.8	10.15	16.03	29.31	0
8/17/2018 0:00	4.078	190.6	11.61	15.42	29.33	0
8/17/2018 0:15	4.568	193.7	5.98	15.02	29.33	0
8/17/2018 0:30	4.569	201.1	3.998	14.79	29.33	0
8/17/2018 0:45	2.906	196.4	9.48	14.58	29.33	0
8/17/2018 1:00	3.639	193.3	4.615	14.31	29.35	0
8/17/2018 1:15	3.407	192.6	4.333	14.18	29.35	0
8/17/2018 1:30	2.817	188.4	6.637	13.94	29.35	0
8/17/2018 1:45	3.418	206.1	2.407	13.89	29.35	0
8/17/2018 2:00	3.851	211.3	3.894	13.57	29.35	0
8/17/2018 2:15	3.253	206.3	3.602	13.28	29.35	0
8/17/2018 2:30	2.793	190.4	7.192	13.01	29.35	0
8/17/2018 2:45	2.935	181.5	9.21	12.87	29.35	0
8/17/2018 3:00	4.14	176.8	5.625	12.69	29.37	0
8/17/2018 3:15	4.909	190.4	8.76	12.62	29.37	0
8/17/2018 3:30	6.549	192	6.255	12.21	29.37	0
8/17/2018 3:45	6.698	184.7	5.144	11.92	29.37	0
8/17/2018 4:00	7.018	187.8	4.97	11.95	29.36	0
8/17/2018 4:15	5.921	188.8	7.206	11.98	29.36	0
8/17/2018 4:30	5.464	167.5	7.633	11.88	29.36	0
8/17/2018 4:45	7.455	173.1	14.86	11.83	29.36	0
8/17/2018 5:00	7.74	178	12.89	11.76	29.38	0
8/17/2018 5:15	7.124	157.5	6.495	11.53	29.38	0
8/17/2018 5:30	7.192	161.6	6.574	11.47	29.38	0
8/17/2018 5:45	6.659	157.7	7.924	11.47	29.38	0
8/17/2018 6:00	5.153	152.8	5.878	11.52	29.38	0
8/17/2018 6:15	5.364	156	12.31	11.66	29.38	0
8/17/2018 6:30	7.743	190.8	10.49	11.55	29.38	0
8/17/2018 6:45	7.207	176.8	12.41	11.67	29.38	0
8/17/2018 7:00	7.53	174.2	13.26	11.6	29.42	0
8/17/2018 7:15	7.069	164.6	14.21	11.74	29.42	0
8/17/2018 7:30	5.809	158.5	17.04	11.94	29.42	0
8/17/2018 7:45	4.91	153.1	15.72	12.3	29.42	0
8/17/2018 8:00	5.703	147.9	15.52	12.42	29.41	0
8/17/2018 8:15	5.409	146.5	11.18	12.57	29.41	0
8/17/2018 8:30	4.601	163.3	14.38	12.81	29.41	0
8/17/2018 8:45	5.34	154.4	18.78	13.09	29.41	0
8/17/2018 9:00	5.263	192.3	9.12	13.1	29.41	0
8/17/2018 9:15	5.234	195.1	16.27	13.41	29.41	0
8/17/2018 9:30	4.771	210.1	24.56	13.61	29.41	0
8/17/2018 9:45	4.047	207.3	29.31	13.84	29.41	0
8/17/2018 10:00	4.566	201.6	19.76	14.1	29.43	0
8/17/2018 10:15	3.31	201.8	25.64	14.18	29.43	0

8/17/2018 10:30	2.802	191.9	26.4	14.76	29.43	0
8/17/2018 10:45	4.388	143.3	16.53	15.25	29.43	0
8/17/2018 11:00	3.103	147.5	41.84	15.73	29.44	0
8/17/2018 11:15	3.334	234.4	35.52	15.58	29.44	0
8/17/2018 11:30	4.167	197.1	41.71	16.1	29.44	0
8/17/2018 11:45	2.49	142.4	47.07	16.2	29.44	0
8/17/2018 12:00	2.979	219.9	57.38	16.86	29.42	0
8/17/2018 12:15	3.693	199.4	34.54	17.19	29.42	0
8/17/2018 12:30	3.531	193.9	35.99	17.62	29.42	0
8/17/2018 12:45	3.529	192.8	38.26	17.94	29.42	0
8/17/2018 13:00	2.448	258.1	40.58	17.85	29.43	0
8/17/2018 13:15	3.427	206.8	28.43	18.89	29.43	0
8/17/2018 13:30	3.128	273.9	50.06	19.06	29.43	0
8/17/2018 13:45	3.973	184.1	52.97	19.77	29.43	0
8/17/2018 14:00	3.897	193.6	60.12	20.11	29.4	0
8/17/2018 14:15	3.359	226.6	33.74	20.56	29.4	0
8/17/2018 14:30	3.367	161.6	38.09	21.12	29.4	0
8/17/2018 14:45	4.228	188.9	21.75	21.28	29.4	0
8/17/2018 15:00	3.929	160.3	20.15	21.95	29.38	0
8/17/2018 15:15	5.163	253.6	25.64	22	29.38	0
8/17/2018 15:30	6.156	277.7	22.8	22.05	29.38	0
8/17/2018 15:45	7.234	275.9	27.17	22.1	29.38	0
8/17/2018 16:00	8.29	263.3	22.29	21.81	29.4	0
8/17/2018 16:15	7.866	269.1	16.29	21.61	29.4	0
8/17/2018 16:30	6.478	285.4	13.11	21.66	29.4	0
8/17/2018 16:45	6.584	285.6	12.06	21.67	29.4	0
8/17/2018 17:00	5.667	288.3	12.51	21.68	29.39	0
8/17/2018 17:15	5.274	279.2	7.995	21.57	29.39	0
8/17/2018 17:30	5.506	257.8	17.81	21.52	29.39	0
8/17/2018 17:45	4.688	271.2	15.74	21.4	29.39	0
8/17/2018 18:00	4.671	281.8	13.95	21.44	29.38	0
8/17/2018 18:15	5.202	288.4	7.078	21.12	29.38	0
8/17/2018 18:30	4.536	273.5	14.33	21	29.38	0
8/17/2018 18:45	3.821	263.2	10.68	20.73	29.38	0
8/17/2018 19:00	2.977	263.6	8.43	20.5	29.38	0
8/17/2018 19:15	3.1	268.9	6.485	20.24	29.38	0
8/17/2018 19:30	2.897	272	3.401	20.05	29.38	0
8/17/2018 19:45	1.299	290.2	27.64	19.79	29.38	0
8/17/2018 20:00	0.838	8.34	0.947	18.96	29.4	0
8/17/2018 20:15	0.104	7.571	0.045	18.98	29.4	0
8/17/2018 20:30	0	7.571	0	18.44	29.4	0
8/17/2018 20:45	0.302	43.61	1.37	18.07	29.4	0
8/17/2018 21:00	0.899	44.99	0.179	17.88	29.4	0
8/17/2018 21:15	0.843	45.46	0.365	17.56	29.4	0
8/17/2018 21:30	1.143	45.73	0.103	17.76	29.4	0
8/17/2018 21:45	0.776	49.46	6.169	17.21	29.4	0
8/17/2018 22:00	0.296	64.97	0.129	17.25	29.38	0

8/17/2018 22:15	0.285	69.96	4.007	17.41	29.38	0
8/17/2018 22:30	0.642	177.8	44.09	17.05	29.38	0
8/17/2018 22:45	1.212	151.5	18.82	16.58	29.38	0
8/17/2018 23:00	0.99	39.34	18.44	16.77	29.4	0
8/17/2018 23:15	5.853	234.3	8.05	15.82	29.4	0
8/17/2018 23:30	4.796	220.8	3.022	15.75	29.4	0
8/17/2018 23:45	4.701	215.1	1.959	15.77	29.4	0
8/18/2018 0:00	3.335	204.4	6.5	15.21	29.41	0
8/18/2018 0:15	2.231	117	24.74	14.45	29.41	0
8/18/2018 0:30	1.099	119.3	0.23	14.36	29.41	0
8/18/2018 0:45	2.768	203.7	10.07	15.22	29.41	0
8/18/2018 1:00	3.002	170.6	7.845	15.16	29.4	0
8/18/2018 1:15	3.772	178	6.908	14.76	29.4	0
8/18/2018 1:30	3.752	188.7	14.61	14.36	29.4	0
8/18/2018 1:45	4.555	203	4.506	14.12	29.4	0
8/18/2018 2:00	4.536	192.2	7.443	13.88	29.41	0
8/18/2018 2:15	3.842	169.5	6.366	13.63	29.41	0
8/18/2018 2:30	3.676	161.8	10.44	13.54	29.41	0
8/18/2018 2:45	2.335	147.7	14.99	13.26	29.41	0
8/18/2018 3:00	4.147	185.3	6.82	13.47	29.39	0
8/18/2018 3:15	5.036	169.2	5.094	13.36	29.39	0
8/18/2018 3:30	3.283	172.2	10.93	13.26	29.39	0
8/18/2018 3:45	2.393	167.4	7.012	13.3	29.39	0
8/18/2018 4:00	3.236	180.6	4.732	13.2	29.41	0
8/18/2018 4:15	3.002	180.3	4.632	13.16	29.41	0
8/18/2018 4:30	3.314	178	7.51	12.95	29.41	0
8/18/2018 4:45	2.738	192.2	6.148	12.93	29.41	0
8/18/2018 5:00	1.876	198	2.477	12.84	29.39	0
8/18/2018 5:15	1.805	204.8	2.987	12.94	29.39	0
8/18/2018 5:30	1.864	207	2.847	13.01	29.39	0
8/18/2018 5:45	2.095	207.5	1.205	12.99	29.39	0
8/18/2018 6:00	1.646	208.3	0.955	13	29.42	0
8/18/2018 6:15	1.463	172.7	16.72	12.99	29.42	0
8/18/2018 6:30	2.127	195.2	7.779	12.96	29.42	0
8/18/2018 6:45	2.033	209.1	6.121	13.21	29.42	0
8/18/2018 7:00	2.819	204.7	11.21	13.15	29.41	0
8/18/2018 7:15	2.732	211.9	10.03	13.22	29.41	0
8/18/2018 7:30	1.623	197.7	16.05	13.51	29.41	0
8/18/2018 7:45	2.334	198.4	20.67	13.82	29.41	0
8/18/2018 8:00	3.214	215.3	10.81	14	29.41	0
8/18/2018 8:15	2.395	211.9	21.15	14.7	29.41	0
8/18/2018 8:30	1.635	182	62.26	15.61	29.41	0
8/18/2018 8:45	1.407	57.14	16.71	16.13	29.41	0
8/18/2018 9:00	1.887	231.9	47.89	16.98	29.4	0
8/18/2018 9:15	2.521	204.3	38.61	17.22	29.4	0
8/18/2018 9:30	2.95	305.1	30.61	17.7	29.4	0
8/18/2018 9:45	2.728	336.4	46.03	18.37	29.4	0

8/18/2018 10:00	3.677	326	36.18	19.05	29.4	0
8/18/2018 10:15	4.249	328.1	32.38	19.69	29.4	0
8/18/2018 10:30	4.7	325.7	23.89	20.07	29.4	0
8/18/2018 10:45	5.213	302.9	24.21	20.89	29.4	0
8/18/2018 11:00	4.719	312.8	26.49	21.31	29.37	0
8/18/2018 11:15	4.549	358.2	38.85	22.03	29.37	0
8/18/2018 11:30	8.37	281.9	12.13	21.36	29.37	0
8/18/2018 11:45	8.15	278.8	22.18	21.82	29.37	0
8/18/2018 12:00	6.574	286.7	17.04	22.16	29.36	0
8/18/2018 12:15	8.18	284	17.37	22.7	29.36	0
8/18/2018 12:30	5.923	295.3	34.23	22.61	29.36	0
8/18/2018 12:45	5.579	271.3	28	22.67	29.36	0
8/18/2018 13:00	4.897	251.5	30.97	23.21	29.37	0
8/18/2018 13:15	5.609	309	43.39	23.59	29.37	0
8/18/2018 13:30	6.131	299.6	19.78	23.78	29.37	0
8/18/2018 13:45	4.515	15.32	46.06	24.25	29.37	0
8/18/2018 14:00	5.072	315.4	26.2	24.59	29.34	0
8/18/2018 14:15	5.322	301.9	36.67	24.79	29.34	0
8/18/2018 14:30	6.37	319.3	20.98	25.28	29.34	0
8/18/2018 14:45	5.068	334.2	30.26	25.17	29.34	0
8/18/2018 15:00	4.738	324.3	31.2	25.55	29.33	0
8/18/2018 15:15	5.133	343.8	36.72	25.67	29.33	0
8/18/2018 15:30	6.428	325.7	57.5	25.72	29.33	0
8/18/2018 15:45	5.544	4.965	21.55	25.68	29.33	0
8/18/2018 16:00	6.37	21.55	19.99	25.27	29.3	0
8/18/2018 16:15	5.391	5.267	23.91	25.45	29.3	0
8/18/2018 16:30	5.225	347.1	35.76	25.51	29.3	0
8/18/2018 16:45	7.359	317.4	21.07	25.54	29.3	0
8/18/2018 17:00	7.46	327.7	24.22	25.38	29.31	0
8/18/2018 17:15	7.297	334.3	13.62	25	29.31	0
8/18/2018 17:30	6.744	321.4	10.84	24.9	29.31	0
8/18/2018 17:45	8.16	311.3	10.61	24.81	29.31	0
8/18/2018 18:00	8.18	319.6	4.584	24.43	29.3	0
8/18/2018 18:15	7.645	317.9	5.249	23.97	29.3	0
8/18/2018 18:30	7.174	313.6	5.686	23.51	29.3	0
8/18/2018 18:45	6.546	313.7	4.069	22.93	29.3	0
8/18/2018 19:00	6.164	331.1	9.46	22.56	29.3	0
8/18/2018 19:15	5.384	1.362	12.94	22.16	29.3	0
8/18/2018 19:30	6.662	21.59	6.657	21.9	29.3	0
8/18/2018 19:45	5.266	20.7	9.14	21.6	29.3	0
8/18/2018 20:00	3.408	37.68	4.961	21.09	29.3	0
8/18/2018 20:15	3.977	38.23	5.758	20.83	29.3	0
8/18/2018 20:30	3.567	31.86	6.094	20.47	29.3	0
8/18/2018 20:45	1.616	7.703	23.32	20.23	29.3	0
8/18/2018 21:00	1.719	16.24	6.707	20.01	29.29	0
8/18/2018 21:15	2.417	14.85	20.99	19.79	29.29	0
8/18/2018 21:30	2.355	20.61	5.701	19.25	29.29	0

8/18/2018 21:45	3.9	27.9	6.062	18.43	29.29	0
8/18/2018 22:00	4.13	33.21	5.555	18.22	29.29	0
8/18/2018 22:15	4.771	33.86	6.083	17.93	29.29	0
8/18/2018 22:30	4.911	41.77	6.293	18.02	29.29	0
8/18/2018 22:45	5.27	53.25	6.376	17.48	29.29	0
8/18/2018 23:00	5.691	42.4	9.07	17.5	29.29	0
8/18/2018 23:15	5.518	30.87	5.075	17.17	29.29	0
8/18/2018 23:30	5.256	21.56	5.774	17.36	29.29	0
8/18/2018 23:45	4.407	29.69	7.208	17.07	29.29	0
8/19/2018 0:00	5.613	29.57	4.88	16.66	29.27	0
8/19/2018 0:15	5.278	32.71	5.848	16.68	29.27	0
8/19/2018 0:30	4.286	39.09	8.1	16.57	29.27	0
8/19/2018 0:45	5.322	31.59	6.024	16.41	29.27	0
8/19/2018 1:00	4.646	29.83	8.18	16.21	29.29	0
8/19/2018 1:15	3.838	42.27	4.708	16.12	29.29	0
8/19/2018 1:30	3.679	49.86	5.382	16.1	29.29	0
8/19/2018 1:45	3.621	35.95	5.301	16.09	29.29	0
8/19/2018 2:00	2.786	28.63	2.272	16.09	29.26	0
8/19/2018 2:15	2.697	30.29	2.368	16.36	29.26	0
8/19/2018 2:30	1.094	32.07	0.584	16.31	29.26	0
8/19/2018 2:45	1.126	228.4	26.47	16.94	29.26	0
8/19/2018 3:00	1.053	232.9	2.464	16.66	29.28	0
8/19/2018 3:15	1.374	179.6	3.112	16.32	29.28	0
8/19/2018 3:30	0.85	179.4	0.15	16.15	29.28	0
8/19/2018 3:45	0.407	179.2	0.122	16.14	29.28	0
8/19/2018 4:00	1.369	181.8	4.121	16.12	29.29	0
8/19/2018 4:15	1.844	169.3	1.602	15.9	29.29	0
8/19/2018 4:30	0.74	167	2.009	15.5	29.29	0
8/19/2018 4:45	0.45	167	0.087	15.76	29.29	0
8/19/2018 5:00	0.512	166.5	0.109	15.38	29.29	0
8/19/2018 5:15	0.129	166.8	0.039	15.74	29.29	0
8/19/2018 5:30	1.638	341.3	28.68	15.1	29.29	0
8/19/2018 5:45	1.919	353.1	1.929	14.85	29.29	0
8/19/2018 6:00	1.902	354.9	0.21	15.18	29.29	0
8/19/2018 6:15	0.073	354.9	0.027	15.42	29.29	0
8/19/2018 6:30	1.143	354.9	0.196	15.48	29.29	0
8/19/2018 6:45	2.31	352.4	1.861	15.52	29.29	0
8/19/2018 7:00	0.723	5.55	14.33	15.66	29.3	0
8/19/2018 7:15	0.528	50.81	29.13	16.07	29.3	0
8/19/2018 7:30	1.518	131.8	25.06	16.7	29.3	0
8/19/2018 7:45	2.048	147	42.95	17.22	29.3	0
8/19/2018 8:00	1.475	233.6	34.13	17.08	29.29	0
8/19/2018 8:15	1.616	43.75	73.4	17.72	29.29	0
8/19/2018 8:30	1.654	36.12	8.53	18.2	29.29	0
8/19/2018 8:45	2.009	53.35	21.11	18.71	29.29	0
8/19/2018 9:00	2.187	83.6	23.14	19.45	29.28	0
8/19/2018 9:15	1.612	45.54	29.15	19.73	29.28	0

8/19/2018 9:30	2.324	333.1	78.9	20.33	29.28	0
8/19/2018 9:45	2.73	18.86	45.61	20.59	29.28	0
8/19/2018 10:00	2.91	16.03	30.42	21	29.27	0
8/19/2018 10:15	4.061	53.46	20.45	21.25	29.27	0
8/19/2018 10:30	5.282	37.67	17.95	21.53	29.27	0
8/19/2018 10:45	7.413	44.15	19.8	21.64	29.27	0
8/19/2018 11:00	6.682	39.12	12.42	22.12	29.26	0
8/19/2018 11:15	6.75	3.166	28.48	22.52	29.26	0
8/19/2018 11:30	6.347	18.66	28.95	22.92	29.26	0
8/19/2018 11:45	5.814	347.4	25.51	23.18	29.26	0
8/19/2018 12:00	6.222	29.19	29.71	23.28	29.24	0
8/19/2018 12:15	7.108	29.28	16.08	23.41	29.24	0
8/19/2018 12:30	4.555	359.6	37.32	23.68	29.24	0
8/19/2018 12:45	3.637	26.15	83	23.84	29.24	0
8/19/2018 13:00	5.271	46.74	16.85	23.91	29.22	0
8/19/2018 13:15	4.612	39.8	28.42	24.47	29.22	0
8/19/2018 13:30	6.528	293.3	20.17	24.56	29.22	0
8/19/2018 13:45	6.355	286	37.67	24.51	29.22	0
8/19/2018 14:00	4.988	28.48	59.86	24.84	29.21	0
8/19/2018 14:15	6.221	26.43	17.99	24.73	29.21	0
8/19/2018 14:30	6.157	8.43	30.35	25.12	29.21	0
8/19/2018 14:45	7.877	27.59	14.13	25.04	29.21	0
8/19/2018 15:00	5.835	25.22	14.72	24.85	29.21	0
8/19/2018 15:15	5.792	340.4	23.29	25.53	29.21	0
8/19/2018 15:30	4.75	322.9	27.4	25.55	29.21	0
8/19/2018 15:45	7.018	308.1	17	25.42	29.21	0
8/19/2018 16:00	8.87	295.2	15.26	25.09	29.2	0
8/19/2018 16:15	9.43	287.4	13.76	24.79	29.2	0
8/19/2018 16:30	9.58	303.9	11.87	24.7	29.2	0
8/19/2018 16:45	9.25	320.8	8.99	24.23	29.2	0
8/19/2018 17:00	9.83	306.6	7.419	24.27	29.2	0
8/19/2018 17:15	7.562	307.3	9.06	24.21	29.2	0
8/19/2018 17:30	6.153	306.9	9.46	23.95	29.2	0
8/19/2018 17:45	4.722	310.3	5.133	23.66	29.2	0
8/19/2018 18:00	3.716	300.1	7.487	23.23	29.18	0
8/19/2018 18:15	5.453	290	6.039	22.77	29.18	0
8/19/2018 18:30	6.857	296.7	4.78	22.19	29.18	0
8/19/2018 18:45	5.788	302.2	3.736	21.6	29.18	0
8/19/2018 19:00	4.782	309.8	5.244	21.09	29.21	0
8/19/2018 19:15	2.867	302.6	14.99	20.91	29.21	0
8/19/2018 19:30	2.281	313.1	13.12	20.76	29.21	0
8/19/2018 19:45	3.337	6.704	27.91	20.37	29.21	0
8/19/2018 20:00	7.394	30.19	8.77	20.02	29.21	0
8/19/2018 20:15	6.901	40.64	7.313	19.79	29.21	0
8/19/2018 20:30	7.351	36.76	9.65	19.66	29.21	0
8/19/2018 20:45	7.193	33.08	7.4	19.37	29.21	0
8/19/2018 21:00	5.972	29.92	7.015	19.18	29.2	0

8/19/2018 21:15	6.4	31.9	9.5	19.31	29.2	0
8/19/2018 21:30	5.53	25.89	7.28	19.15	29.2	0
8/19/2018 21:45	4.648	37.29	6.388	18.68	29.2	0
8/19/2018 22:00	3.454	38.21	5.561	18.35	29.2	0
8/19/2018 22:15	3.966	42.77	6.51	18.06	29.2	0
8/19/2018 22:30	5.267	45.37	5.326	18.06	29.2	0
8/19/2018 22:45	5.313	50.31	7.334	17.88	29.2	0
8/19/2018 23:00	5.794	39.02	9.16	17.51	29.2	0
8/19/2018 23:15	5.497	34.22	6.303	17.28	29.2	0
8/19/2018 23:30	4.397	24.87	7.057	17.3	29.2	0
8/19/2018 23:45	2.934	32.03	10.86	17.35	29.2	0
8/20/2018 0:00	2.561	41.56	3.645	17.35	29.2	0
8/20/2018 0:15	3.234	38.07	6.699	17.17	29.2	0
8/20/2018 0:30	4.48	26.56	6.425	16.79	29.2	0
8/20/2018 0:45	4.322	33.12	5.257	16.79	29.2	0
8/20/2018 1:00	3.439	41.14	8.25	16.69	29.21	0
8/20/2018 1:15	4.06	61.95	7.562	16.64	29.21	0
8/20/2018 1:30	2.694	71.08	11.92	16.83	29.21	0
8/20/2018 1:45	1.755	119.1	45.36	16.37	29.21	0
8/20/2018 2:00	2.818	295.4	15.07	16.66	29.19	0
8/20/2018 2:15	3.688	307.3	6.098	17.11	29.19	0
8/20/2018 2:30	4.131	300.4	7.473	16.38	29.19	0
8/20/2018 2:45	2.034	300.4	18.95	16.08	29.19	0
8/20/2018 3:00	3.477	319.8	1.634	15.95	29.22	0
8/20/2018 3:15	2.853	325.7	3.562	15.87	29.22	0
8/20/2018 3:30	1.395	345.4	1.532	15.65	29.22	0
8/20/2018 3:45	0.775	360	8.68	15.45	29.22	0
8/20/2018 4:00	2.598	26.48	7.984	15.38	29.23	0
8/20/2018 4:15	1.171	46.18	0.938	15.11	29.23	0
8/20/2018 4:30	0.675	49.49	0.571	14.93	29.23	0
8/20/2018 4:45	1.765	43.75	1.744	14.85	29.23	0
8/20/2018 5:00	2.794	54.22	9.77	14.45	29.23	0
8/20/2018 5:15	2.933	46.08	4.615	14.53	29.23	0
8/20/2018 5:30	3.535	40.95	5.514	14.22	29.23	0
8/20/2018 5:45	4.099	31.89	8.61	13.97	29.23	0
8/20/2018 6:00	3.928	38.35	10.3	13.88	29.24	0
8/20/2018 6:15	4.598	35.15	9.36	14.04	29.24	0
8/20/2018 6:30	2.469	40.19	5.021	14.3	29.24	0
8/20/2018 6:45	2.073	18.96	6.374	14.74	29.24	0
8/20/2018 7:00	0.432	9.6	0.069	15.33	29.24	0
8/20/2018 7:15	1.726	12.63	3.431	15.76	29.24	0
8/20/2018 7:30	2.142	0.472	19.2	16.23	29.24	0
8/20/2018 7:45	1.874	339.3	4.542	16.18	29.24	0
8/20/2018 8:00	1.455	160.1	71.75	16.75	29.23	0
8/20/2018 8:15	1.818	204.7	22.46	16.87	29.23	0
8/20/2018 8:30	1.604	240.3	24.92	17.31	29.23	0
8/20/2018 8:45	3.391	218.1	15.87	17.69	29.23	0

8/20/2018 9:00	2.897	215.6	21.42	17.86	29.24	0
8/20/2018 9:15	3.396	215	26.48	18.29	29.24	0
8/20/2018 9:30	2.075	182.4	41.93	18.65	29.24	0
8/20/2018 9:45	1.665	296.3	75.42	19.72	29.24	0
8/20/2018 10:00	1.744	337.6	40.38	20.08	29.24	0
8/20/2018 10:15	3.597	51.5	18.04	20.24	29.24	0
8/20/2018 10:30	3.445	29.04	35.42	21.11	29.24	0
8/20/2018 10:45	3.45	287.5	39.31	21.31	29.24	0
8/20/2018 11:00	6.414	283.8	17.53	21.54	29.21	0
8/20/2018 11:15	6.284	281.5	23.44	21.93	29.21	0
8/20/2018 11:30	6.493	281.1	14.66	22.17	29.21	0
8/20/2018 11:45	4.396	254.9	46	22.31	29.21	0
8/20/2018 12:00	4.595	52.67	45.03	22.88	29.2	0
8/20/2018 12:15	3.662	54.65	44.62	23.55	29.2	0
8/20/2018 12:30	3.264	0.287	62.7	23.64	29.2	0
8/20/2018 12:45	6.102	249.5	16.73	23.76	29.2	0
8/20/2018 13:00	2.566	167.3	66.02	24.34	29.18	0
8/20/2018 13:15	4.14	241	26.66	24.55	29.18	0
8/20/2018 13:30	6.056	281.5	14.4	24.38	29.18	0
8/20/2018 13:45	4.582	278.4	23.24	24.55	29.18	0
8/20/2018 14:00	3.695	312.9	31.76	25.07	29.18	0
8/20/2018 14:15	4.07	0.972	33.73	24.97	29.18	0
8/20/2018 14:30	3.545	13.27	78.69	24.94	29.18	0
8/20/2018 14:45	3.468	6.323	45.99	25.37	29.18	0
8/20/2018 15:00	6.016	37.84	15.04	24.81	29.18	0
8/20/2018 15:15	8.16	32.19	6.814	24.42	29.18	0
8/20/2018 15:30	7.504	24.22	8.74	24.42	29.18	0
8/20/2018 15:45	6.67	19.38	11.82	24.43	29.18	0
8/20/2018 16:00	7.079	17.63	12.35	24.37	29.17	0
8/20/2018 16:15	8.71	16.97	7.619	24.1	29.17	0
8/20/2018 16:30	8.5	14.15	14.48	24.17	29.17	0
8/20/2018 16:45	7.404	9.12	14.33	24.14	29.17	0
8/20/2018 17:00	6.216	7.545	10.4	24.19	29.18	0
8/20/2018 17:15	7.843	13.4	10.52	24.14	29.18	0
8/20/2018 17:30	8.99	6.856	10.59	23.97	29.18	0
8/20/2018 17:45	7.452	9.74	10.52	23.69	29.18	0
8/20/2018 18:00	8.28	3.797	9.06	23.48	29.19	0
8/20/2018 18:15	5.964	7.708	10.33	23.2	29.19	0
8/20/2018 18:30	3.956	2.615	12.6	23.07	29.19	0
8/20/2018 18:45	4.837	10.45	10.46	22.96	29.19	0
8/20/2018 19:00	4.08	15.77	12.89	22.45	29.18	0
8/20/2018 19:15	6.033	19.84	4.629	21.74	29.18	0
8/20/2018 19:30	6.15	24.69	5.458	21.45	29.18	0
8/20/2018 19:45	4.463	16.25	6.101	21.32	29.18	0
8/20/2018 20:00	3.387	17.74	6.347	21.35	29.19	0
8/20/2018 20:15	3.641	43.72	6.435	21.01	29.19	0
8/20/2018 20:30	4.044	26.93	9.97	20.55	29.19	0

8/20/2018 20:45	4.534	37.41	7.373	20.11	29.19	0
8/20/2018 21:00	3.713	30.01	9.94	19.98	29.21	0
8/20/2018 21:15	3.669	43.87	5.655	19.77	29.21	0
8/20/2018 21:30	3.179	43.11	6.42	19.79	29.21	0
8/20/2018 21:45	2.614	53.35	5.252	19.9	29.21	0
8/20/2018 22:00	2.887	52.01	8.04	19.76	29.21	0
8/20/2018 22:15	3.106	49.59	2.64	19.45	29.21	0
8/20/2018 22:30	3.528	46.92	6.051	19.26	29.21	0
8/20/2018 22:45	3.407	34.04	5.696	19.11	29.21	0
8/20/2018 23:00	3.455	46.41	7.602	18.82	29.23	0
8/20/2018 23:15	2.148	53.96	5.652	18.73	29.23	0
8/20/2018 23:30	2.724	33.52	8.14	19.25	29.23	0
8/20/2018 23:45	1.33	37.73	3.294	19.62	29.23	0
8/21/2018 0:00	1.727	61.32	21.1	19.95	29.24	0
8/21/2018 0:15	1.924	89.4	1.558	19.95	29.24	0
8/21/2018 0:30	0.737	72.85	6.804	20.59	29.24	0
8/21/2018 0:45	1.6	22.24	22.78	20.63	29.24	0
8/21/2018 1:00	3.115	8.67	9.58	20.45	29.25	0
8/21/2018 1:15	4.375	19.72	9.44	19.3	29.25	0
8/21/2018 1:30	3.013	35.8	26.49	19.1	29.25	0
8/21/2018 1:45	2.979	60.12	18.16	18.95	29.25	0
8/21/2018 2:00	3.222	49.17	20.58	20.34	29.25	0
8/21/2018 2:15	3.123	81.6	23.53	21.71	29.25	0
8/21/2018 2:30	4.502	98.2	12.06	22.08	29.25	0
8/21/2018 2:45	5.305	125.5	10.9	22.8	29.25	0
8/21/2018 3:00	7.984	132.9	7.908	23.04	29.23	0
8/21/2018 3:15	7.225	124.5	11.07	22.86	29.23	0
8/21/2018 3:30	5.39	102.5	17.85	20.8	29.23	0
8/21/2018 3:45	2.182	62.9	28.28	20.79	29.23	0
8/21/2018 4:00	1.131	88.3	2.191	21.63	29.26	0
8/21/2018 4:15	0.94	15.26	39.16	20.86	29.26	0
8/21/2018 4:30	0.454	35.68	0.341	19.98	29.26	0
8/21/2018 4:45	3.004	35.62	3.813	19.8	29.26	0
8/21/2018 5:00	4.608	41.94	8.57	19.55	29.24	0
8/21/2018 5:15	4.678	44.14	8.08	18.77	29.24	0
8/21/2018 5:30	4.304	36.75	9.43	19.82	29.24	0
8/21/2018 5:45	4.046	49.43	11.76	20	29.24	0
8/21/2018 6:00	3.978	54.93	6.835	18.96	29.25	0
8/21/2018 6:15	2.035	81.2	25.44	19.72	29.25	0
8/21/2018 6:30	1.638	334.4	70.62	20.44	29.25	0
8/21/2018 6:45	1.764	180.2	20.94	21.51	29.25	0
8/21/2018 7:00	3.106	154.2	31.6	22.13	29.26	0
8/21/2018 7:15	5.361	135	12.66	22.96	29.26	0
8/21/2018 7:30	6.16	129	11.21	22.64	29.26	0
8/21/2018 7:45	6.684	121.1	12.6	22.87	29.26	0
8/21/2018 8:00	6.69	114.2	12.26	22.85	29.28	0
8/21/2018 8:15	7.045	112.6	10.68	23.19	29.28	0

8/21/2018 8:30	6.463	115.1	10.16	23.65	29.28	0
8/21/2018 8:45	5.236	114.5	13.35	24.31	29.28	0
8/21/2018 9:00	4.71	122.3	13.81	25.15	29.27	0
8/21/2018 9:15	3.712	96.5	29.2	25.71	29.27	0
8/21/2018 9:30	2.779	59.41	34.09	25.85	29.27	0
8/21/2018 9:45	3.628	51.32	20.07	26.1	29.27	0
8/21/2018 10:00	4.519	41.39	12.72	26.31	29.26	0
8/21/2018 10:15	4.466	36.45	13.67	26.34	29.26	0
8/21/2018 10:30	3.744	54.68	16.81	27.4	29.26	0
8/21/2018 10:45	3.433	40.46	14.78	27.9	29.26	0
8/21/2018 11:00	3.826	38.48	14.46	28.44	29.25	0
8/21/2018 11:15	5.121	49.51	13.93	28.81	29.25	0
8/21/2018 11:30	4.652	60.35	18.29	28.99	29.25	0
8/21/2018 11:45	5.457	34.17	16.9	29.38	29.25	0
8/21/2018 12:00	5.904	27.25	11.6	29.62	29.22	0
8/21/2018 12:15	7.18	28.69	13.73	29.82	29.22	0
8/21/2018 12:30	8.06	28.31	10.17	30.09	29.22	0
8/21/2018 12:45	7.263	29.96	9.18	30.35	29.22	0
8/21/2018 13:00	7.254	42.06	12.35	30.46	29.2	0
8/21/2018 13:15	9.41	29.63	12.06	31.04	29.2	0
8/21/2018 13:30	9.44	24.56	9.68	30.78	29.2	0
8/21/2018 13:45	10.23	28.14	9.05	31.06	29.2	0
8/21/2018 14:00	9.24	34.5	14.29	31.38	29.18	0
8/21/2018 14:15	9.6	23.8	12.85	31.37	29.18	0
8/21/2018 14:30	8.73	33.9	14.45	31.49	29.18	0
8/21/2018 14:45	10.84	32.57	8.58	31.46	29.18	0
8/21/2018 15:00	9.56	32.58	10.7	31.56	29.16	0
8/21/2018 15:15	10.01	18.05	15.69	31.67	29.16	0
8/21/2018 15:30	11.88	3.41	11.79	31.19	29.16	0
8/21/2018 15:45	11.6	0.204	12.04	31.14	29.16	0
8/21/2018 16:00	10.57	348.7	13.93	31.22	29.17	0
8/21/2018 16:15	10.25	347	13.61	31.05	29.17	0
8/21/2018 16:30	8.87	353.8	13.58	30.64	29.17	0
8/21/2018 16:45	9.35	350.4	13.35	30.3	29.17	0
8/21/2018 17:00	8.21	347.3	13.88	30.26	29.15	0
8/21/2018 17:15	8.78	349	14.42	30.06	29.15	0
8/21/2018 17:30	9.93	352.7	15.74	29.74	29.15	0
8/21/2018 17:45	9.6	352.3	12.04	29.32	29.15	0
8/21/2018 18:00	8.44	1.648	18.3	28.87	29.16	0
8/21/2018 18:15	9.32	2.342	18.71	28.45	29.16	0
8/21/2018 18:30	5.881	3.269	18.77	28.15	29.16	0
8/21/2018 18:45	2.842	34.9	32.63	27.57	29.16	0
8/21/2018 19:00	1.997	45.07	45.82	27.18	29.16	0
8/21/2018 19:15	4.826	45.89	14.71	26.87	29.16	0
8/21/2018 19:30	5.674	35.5	10.54	26.4	29.16	0
8/21/2018 19:45	5.395	35.76	8.55	25.35	29.16	0
8/21/2018 20:00	3.443	22	29.07	25.42	29.16	0

8/21/2018 20:15	5.922	30.36	9.94	25.69	29.16	0
8/21/2018 20:30	6.727	33.89	15.98	24.51	29.16	0
8/21/2018 20:45	5.823	49.96	7.575	24.13	29.16	0
8/21/2018 21:00	5.443	58.17	10.74	23.38	29.15	0
8/21/2018 21:15	4.732	57.86	9.13	23.57	29.15	0
8/21/2018 21:30	3.516	48.9	5.243	23.52	29.15	0
8/21/2018 21:45	2.371	44.41	6.665	23.93	29.15	0
8/21/2018 22:00	2.807	37.47	1.032	23.83	29.16	0
8/21/2018 22:15	2.135	46	4.91	23.04	29.16	0
8/21/2018 22:30	1.989	50.51	0.452	22.73	29.16	0
8/21/2018 22:45	1.413	51.05	0.709	22.62	29.16	0
8/21/2018 23:00	2.142	38.8	1.697	21.86	29.16	0
8/21/2018 23:15	2.225	35.88	5.301	21.38	29.16	0
8/21/2018 23:30	2.547	25.67	1.631	21.51	29.16	0
8/21/2018 23:45	0.558	113.7	45.15	21.7	29.16	0
8/22/2018 0:00	1.238	112.4	12.95	21.73	29.15	0
8/22/2018 0:15	0.068	108.8	0.045	22.2	29.15	0
8/22/2018 0:30	0.276	112.8	0.045	21.87	29.15	0
8/22/2018 0:45	2.118	263.2	26.91	21.15	29.15	0
8/22/2018 1:00	3.428	294.3	7.881	21.43	29.16	0
8/22/2018 1:15	3.016	260.9	32.12	20.9	29.16	0
8/22/2018 1:30	3.381	208.2	16.99	20.32	29.16	0
8/22/2018 1:45	4.419	204.3	5.354	20.46	29.16	0
8/22/2018 2:00	5.622	202.4	3.541	20	29.14	0
8/22/2018 2:15	6.04	165.5	19.05	19.39	29.14	0
8/22/2018 2:30	4.295	128.3	6.218	19.4	29.14	0
8/22/2018 2:45	4.092	101.8	7.344	19.13	29.14	0
8/22/2018 3:00	3.404	95.7	6.197	18.78	29.15	0
8/22/2018 3:15	2.938	147.4	16.92	19.67	29.15	0
8/22/2018 3:30	1.674	123.2	5.457	20.31	29.15	0
8/22/2018 3:45	0.333	119.3	0.086	20.47	29.15	0
8/22/2018 4:00	0.944	22.1	18.36	20.52	29.15	0
8/22/2018 4:15	2.203	1.976	1.597	19.96	29.15	0
8/22/2018 4:30	1.263	3.999	0.085	20.06	29.15	0
8/22/2018 4:45	0.434	3.903	0.113	19.39	29.15	0
8/22/2018 5:00	1.194	201.2	33.97	19.64	29.14	0
8/22/2018 5:15	1.949	230.7	24.19	19.19	29.14	0
8/22/2018 5:30	3.052	209.8	9.35	17.85	29.14	0
8/22/2018 5:45	4.766	177.9	11.32	17.91	29.14	0
8/22/2018 6:00	2.662	0.998	38.92	17.57	29.14	0
8/22/2018 6:15	1.905	11.02	3.86	18.28	29.14	0
8/22/2018 6:30	0.736	5.839	0.825	18.4	29.14	0
8/22/2018 6:45	0	0	0	19.08	29.14	0
8/22/2018 7:00	0.281	5.761	0.096	20.08	29.15	0
8/22/2018 7:15	0.109	5.787	0	20.93	29.15	0
8/22/2018 7:30	0.722	54.67	45.5	21.55	29.15	0
8/22/2018 7:45	2.489	183	13.23	20.25	29.15	0

8/22/2018 8:00	2.827	206.5	4.995	20.14	29.14	0
8/22/2018 8:15	2.678	204.1	6.588	20.72	29.14	0
8/22/2018 8:30	2.599	184.2	13.5	21.64	29.14	0
8/22/2018 8:45	1.561	190.7	17.77	22.16	29.14	0
8/22/2018 9:00	1.344	213.7	30.7	23.19	29.15	0
8/22/2018 9:15	3.194	148.1	26.54	23.76	29.15	0
8/22/2018 9:30	1.834	114.5	33.85	24.43	29.15	0
8/22/2018 9:45	2.287	68.13	29.99	24.5	29.15	0
8/22/2018 10:00	2.374	174	49.97	25.41	29.15	0
8/22/2018 10:15	3.59	189.6	22.52	25.44	29.15	0
8/22/2018 10:30	2.135	221.7	48.79	25.92	29.15	0
8/22/2018 10:45	2.601	223.8	17.61	26.11	29.15	0
8/22/2018 11:00	2.679	211.6	35.52	26.43	29.13	0
8/22/2018 11:15	2.749	263.4	30.04	26.57	29.13	0
8/22/2018 11:30	2.491	204.3	53.19	27.07	29.13	0
8/22/2018 11:45	3.003	203.3	27.45	27.61	29.13	0
8/22/2018 12:00	3.794	206.6	31	27.91	29.13	0
8/22/2018 12:15	3.078	237	55.21	28.25	29.13	0
8/22/2018 12:30	4.179	218	37.47	28.85	29.13	0
8/22/2018 12:45	4.189	258.1	24.01	28.92	29.13	0
8/22/2018 13:00	4.899	245.3	26.08	29.26	29.1	0
8/22/2018 13:15	4.95	238	30.48	29.49	29.1	0
8/22/2018 13:30	5.84	255.6	22.98	29.48	29.1	0
8/22/2018 13:45	5.631	267	22.91	29.46	29.1	0
8/22/2018 14:00	7.484	288.6	23.37	29.81	29.11	0
8/22/2018 14:15	6.526	268	16.85	29.76	29.11	0
8/22/2018 14:30	6.925	260	14.38	29.61	29.11	0
8/22/2018 14:45	5.721	262.1	24.47	29.94	29.11	0
8/22/2018 15:00	6.637	276.7	23.18	29.88	29.08	0
8/22/2018 15:15	6.879	289.4	13.86	30.06	29.08	0
8/22/2018 15:30	5.435	286.8	14.49	30.21	29.08	0
8/22/2018 15:45	5.743	285.6	14.76	30.1	29.08	0
8/22/2018 16:00	6.837	262.2	14.02	30.15	29.09	0
8/22/2018 16:15	6.313	273.5	22.43	30.14	29.09	0
8/22/2018 16:30	6.992	259.2	14.32	30.08	29.09	0
8/22/2018 16:45	5.565	272.2	16.53	29.96	29.09	0
8/22/2018 17:00	4.926	293.6	15.11	29.87	29.06	0
8/22/2018 17:15	4.488	301.8	14.51	29.74	29.06	0
8/22/2018 17:30	5.485	281.2	11.4	29.44	29.06	0
8/22/2018 17:45	5.773	282.5	6.686	29.13	29.06	0
8/22/2018 18:00	5.632	278.5	6.94	28.8	29.06	0
8/22/2018 18:15	6.416	267.4	11.27	28.08	29.06	0
8/22/2018 18:30	8.58	265.1	6.96	26.75	29.06	0
8/22/2018 18:45	8.51	274.6	10.1	25.62	29.06	0
8/22/2018 19:00	7.502	269.6	11.56	24.84	29.07	0
8/22/2018 19:15	7.772	245	6.592	24.01	29.07	0
8/22/2018 19:30	6.823	243.7	9.43	23.29	29.07	0

8/22/2018 19:45	8.18	250.2	6.62	22.27	29.07	0
8/22/2018 20:00	9.17	243.6	4.857	21.47	29.09	0
8/22/2018 20:15	9.57	252.4	7.474	20.62	29.09	0
8/22/2018 20:30	8.62	267.2	7.239	19.77	29.09	0
8/22/2018 20:45	7.175	270.5	10.4	18.97	29.09	0
8/22/2018 21:00	8.05	265.5	7.146	17.91	29.13	0
8/22/2018 21:15	5.703	273.3	6.988	17.37	29.13	0
8/22/2018 21:30	5.915	268.1	7.55	17.02	29.13	0
8/22/2018 21:45	3.226	259.2	7.197	16.73	29.13	0
8/22/2018 22:00	3.87	233.3	16	16.33	29.13	0
8/22/2018 22:15	3.463	218.6	6.997	16.1	29.13	0
8/22/2018 22:30	3.143	225.9	4.759	15.96	29.13	0
8/22/2018 22:45	3.59	219.9	6.346	15.7	29.13	0
8/22/2018 23:00	3.313	197.1	7.39	15.39	29.15	0
8/22/2018 23:15	4.018	185.9	14.02	15.12	29.15	0
8/22/2018 23:30	4.164	163.1	11.13	14.67	29.15	0
8/22/2018 23:45	4.464	157.5	19.56	14.27	29.15	0
8/23/2018 0:00	6.376	164.8	7.776	13.82	29.17	0
8/23/2018 0:15	6.831	168.1	7.94	13.65	29.17	0
8/23/2018 0:30	7.911	171.7	7.391	13.64	29.17	0
8/23/2018 0:45	6.702	166.3	6.675	13.37	29.17	0
8/23/2018 1:00	7.359	159.8	6.453	13.12	29.17	0
8/23/2018 1:15	6.227	154.7	9.28	13.03	29.17	0
8/23/2018 1:30	6.505	147.6	6.071	13.05	29.17	0
8/23/2018 1:45	7.641	169.1	16.19	13.03	29.17	0
8/23/2018 2:00	8.63	169.6	11.51	13.22	29.17	0
8/23/2018 2:15	8.07	188.6	8.18	13.41	29.17	0
8/23/2018 2:30	3.98	155.4	23.31	13.31	29.17	0
8/23/2018 2:45	4.281	143.6	11.15	13.35	29.17	0
8/23/2018 3:00	4.001	155.4	7.677	13.36	29.19	0
8/23/2018 3:15	4.177	157.2	10.1	13.42	29.19	0
8/23/2018 3:30	5.501	157.9	13.16	13.42	29.19	0
8/23/2018 3:45	7.286	153	5.496	13.37	29.19	0
8/23/2018 4:00	7.855	156.5	5.109	13.42	29.19	0
8/23/2018 4:15	8.59	168.6	17.67	13.46	29.19	0
8/23/2018 4:30	7.673	164.1	15.88	13.45	29.19	0
8/23/2018 4:45	8.76	170.3	12.48	13.52	29.19	0
8/23/2018 5:00	6.386	171.7	18.46	13.54	29.2	0
8/23/2018 5:15	7.069	146.5	9.14	13.43	29.2	0
8/23/2018 5:30	6.994	136.2	8.72	13.35	29.2	0
8/23/2018 5:45	7.15	146.8	8.3	13.06	29.2	0
8/23/2018 6:00	7.326	152.4	6.564	12.86	29.19	0
8/23/2018 6:15	6.854	151.2	7.538	12.76	29.19	0
8/23/2018 6:30	7.298	147.2	7.24	12.76	29.19	0
8/23/2018 6:45	7.195	144.8	9.65	12.82	29.19	0
8/23/2018 7:00	7.918	158	7.264	12.91	29.21	0
8/23/2018 7:15	7.943	146.8	7.473	12.97	29.21	0

8/23/2018 7:30	7.693	155	8.73	13.11	29.21	0
8/23/2018 7:45	7.969	170.4	11.47	13.22	29.21	0
8/23/2018 8:00	9.71	193.9	12.89	13.26	29.24	0.01
8/23/2018 8:15	10.8	209.6	10.1	13.27	29.24	0
8/23/2018 8:30	11.35	205.4	9.24	13.22	29.24	0
8/23/2018 8:45	8.38	193.7	8.26	13.3	29.24	0
8/23/2018 9:00	6.45	181.8	14.41	13.62	29.23	0
8/23/2018 9:15	5.528	165.2	13.44	13.88	29.23	0
8/23/2018 9:30	6.245	159.1	16.92	13.95	29.23	0
8/23/2018 9:45	7.025	182.1	14.92	14.07	29.23	0
8/23/2018 10:00	7.301	198.4	11.57	14.27	29.23	0
8/23/2018 10:15	7.1	211.3	18.4	14.45	29.23	0
8/23/2018 10:30	6.913	185.9	12.89	14.61	29.23	0
8/23/2018 10:45	6.939	179.3	14.55	15.29	29.23	0
8/23/2018 11:00	7.342	160.6	12.36	15.91	29.23	0
8/23/2018 11:15	6.633	153.3	16.21	16.48	29.23	0
8/23/2018 11:30	4.965	190.1	30.28	16.68	29.23	0
8/23/2018 11:45	6.681	159	22.98	17.08	29.23	0
8/23/2018 12:00	5.123	156.1	29.33	17.97	29.22	0
8/23/2018 12:15	7.063	189.5	25.35	18.27	29.22	0
8/23/2018 12:30	10.21	210.7	13.26	19.3	29.22	0
8/23/2018 12:45	10.54	204.2	20.54	19.46	29.22	0
8/23/2018 13:00	9.7	231.6	19.68	19.43	29.22	0
8/23/2018 13:15	8.65	230.5	20.9	19.6	29.22	0
8/23/2018 13:30	9.18	239.7	20.41	19.83	29.22	0
8/23/2018 13:45	9.79	266.1	15.48	19.76	29.22	0
8/23/2018 14:00	8.42	264.1	23.8	20.07	29.21	0
8/23/2018 14:15	8.24	267.1	24.87	20.95	29.21	0
8/23/2018 14:30	6.298	231.1	47.8	20.56	29.21	0
8/23/2018 14:45	9.06	250.2	20.47	20.58	29.21	0
8/23/2018 15:00	7.584	273.6	18.07	20.24	29.19	0
8/23/2018 15:15	8.9	285.2	13.78	20.68	29.19	0
8/23/2018 15:30	7.741	278.7	22.31	20.38	29.19	0
8/23/2018 15:45	6.181	255.5	32.67	20.53	29.19	0
8/23/2018 16:00	4.869	278.8	33.93	20.44	29.18	0
8/23/2018 16:15	3.523	218.7	49.69	20.37	29.18	0
8/23/2018 16:30	6.49	300.7	23.68	20.86	29.18	0
8/23/2018 16:45	4.61	293.8	20.1	21.02	29.18	0
8/23/2018 17:00	4.753	278.8	37.41	20.91	29.19	0
8/23/2018 17:15	7.79	260.7	18.42	20.86	29.19	0
8/23/2018 17:30	6.408	277.7	19.21	20.83	29.19	0
8/23/2018 17:45	7.611	262.8	13.76	20.28	29.19	0
8/23/2018 18:00	7.862	260.7	13.74	20.09	29.15	0
8/23/2018 18:15	7.734	265.1	11.39	19.71	29.15	0
8/23/2018 18:30	7.749	254.6	13.18	19.53	29.15	0
8/23/2018 18:45	8.52	248	10.33	19.22	29.15	0
8/23/2018 19:00	10.8	247.4	7.907	18.63	29.17	0

8/23/2018 19:15	9.98	247.6	6.533	18.1	29.17	0
8/23/2018 19:30	10.58	250.4	8.04	17.46	29.17	0
8/23/2018 19:45	8.23	250.9	9.81	16.98	29.17	0
8/23/2018 20:00	7.247	242	7.448	16.58	29.19	0
8/23/2018 20:15	7.586	247.1	8.71	16.12	29.19	0
8/23/2018 20:30	6.853	244.7	8.91	15.88	29.19	0
8/23/2018 20:45	7.045	235.6	10.2	15.57	29.19	0
8/23/2018 21:00	7.391	235.2	13.52	15.46	29.22	0
8/23/2018 21:15	7.626	237.8	8.32	15.18	29.22	0
8/23/2018 21:30	9.37	242.3	9.9	14.79	29.22	0
8/23/2018 21:45	8.39	244.2	7.948	14.41	29.22	0
8/23/2018 22:00	5.685	256.7	8.67	14.23	29.22	0
8/23/2018 22:15	4.775	255.2	9.02	14.17	29.22	0
8/23/2018 22:30	3.761	241.6	6.721	14.14	29.22	0
8/23/2018 22:45	6.008	214	16.39	14.2	29.22	0
8/23/2018 23:00	9.72	203.2	9.19	14.06	29.22	0
8/23/2018 23:15	8.62	202.1	6.904	13.95	29.22	0
8/23/2018 23:30	8.11	197.8	7.421	13.78	29.22	0
8/23/2018 23:45	10.08	193.6	9.08	13.63	29.22	0
8/24/2018 0:00	8.39	197.7	9.35	13.47	29.23	0
8/24/2018 0:15	8.72	196.3	7.708	13.32	29.23	0
8/24/2018 0:30	9.44	197.1	9.12	13.09	29.23	0
8/24/2018 0:45	9	195	7.851	13.05	29.23	0
8/24/2018 1:00	8.76	191.1	8.55	13.01	29.23	0
8/24/2018 1:15	7.8	190.6	9.1	12.99	29.23	0
8/24/2018 1:30	7.739	193	8.52	12.96	29.23	0
8/24/2018 1:45	9.07	192.3	7.933	12.92	29.23	0
8/24/2018 2:00	7.251	191.1	10.56	12.89	29.23	0
8/24/2018 2:15	5.904	191	7.823	12.94	29.23	0
8/24/2018 2:30	6.783	198.7	9.86	12.91	29.23	0
8/24/2018 2:45	5.981	196.7	10.3	12.88	29.23	0
8/24/2018 3:00	4.833	203.2	6.85	12.92	29.22	0
8/24/2018 3:15	4.737	214.1	11.67	12.88	29.22	0
8/24/2018 3:30	5.623	198.4	13.01	12.44	29.22	0
8/24/2018 3:45	5.513	175.2	10.77	11.77	29.22	0
8/24/2018 4:00	5.533	172.2	14.93	11.5	29.24	0
8/24/2018 4:15	5.617	151.2	5.808	11.25	29.24	0
8/24/2018 4:30	5.527	149.9	5.492	11.25	29.24	0
8/24/2018 4:45	5.15	146.1	7.16	11.27	29.24	0
8/24/2018 5:00	4.884	141	7.86	11.28	29.22	0
8/24/2018 5:15	5.124	134.9	8.16	11.27	29.22	0
8/24/2018 5:30	5.563	146.3	6.983	11.25	29.22	0
8/24/2018 5:45	5.853	145	7.909	11.26	29.22	0
8/24/2018 6:00	5.352	137.2	8.37	11.29	29.25	0
8/24/2018 6:15	4.748	135.4	7.642	11.31	29.25	0
8/24/2018 6:30	4.544	136.5	9.72	11.33	29.25	0
8/24/2018 6:45	5.344	144.6	6.837	11.41	29.25	0.01

8/24/2018 7:00	6.044	149.6	7.967	11.57	29.26	0
8/24/2018 7:15	5.736	144.5	7.637	11.71	29.26	0
8/24/2018 7:30	4.375	128.4	8.21	11.79	29.26	0
8/24/2018 7:45	4.788	120.4	6	11.82	29.26	0
8/24/2018 8:00	4.954	115.6	8.32	11.86	29.25	0
8/24/2018 8:15	4.742	118.3	6.3	11.95	29.25	0
8/24/2018 8:30	3.937	116.9	8.68	12.12	29.25	0
8/24/2018 8:45	4.163	124.7	6.675	12.37	29.25	0
8/24/2018 9:00	4.516	122.8	14.07	12.49	29.28	0
8/24/2018 9:15	4.863	134.4	8.96	12.68	29.28	0
8/24/2018 9:30	5.319	120.3	14.68	12.99	29.28	0
8/24/2018 9:45	4.743	130.4	17.99	13.2	29.28	0
8/24/2018 10:00	4.371	124.5	23.34	13.62	29.29	0
8/24/2018 10:15	5.384	126.5	12.51	14	29.29	0
8/24/2018 10:30	5.233	127.5	16.26	14.56	29.29	0
8/24/2018 10:45	6.026	118.8	15.27	14.96	29.29	0
8/24/2018 11:00	7.203	95.7	12.7	14.39	29.27	0
8/24/2018 11:15	7.099	143.9	18.75	14.95	29.27	0
8/24/2018 11:30	5.302	155.5	29.48	15.72	29.27	0
8/24/2018 11:45	6.586	162.8	21.63	16.69	29.27	0
8/24/2018 12:00	4.606	212.5	25.49	16.31	29.28	0
8/24/2018 12:15	6.589	169.4	22.73	16.58	29.28	0
8/24/2018 12:30	5.326	152.7	26.45	16.96	29.28	0
8/24/2018 12:45	5.612	242.5	14.26	16.89	29.28	0
8/24/2018 13:00	5.585	234.1	17.12	17.65	29.26	0
8/24/2018 13:15	6.221	222.9	19.72	17.53	29.26	0
8/24/2018 13:30	5.146	199.9	19.95	17.88	29.26	0
8/24/2018 13:45	6.009	228.2	55.35	18.26	29.26	0
8/24/2018 14:00	5.04	236.2	35.21	18.48	29.28	0
8/24/2018 14:15	6.676	292.4	10.76	18.34	29.28	0
8/24/2018 14:30	6.272	283.9	11.31	17.97	29.28	0
8/24/2018 14:45	5.742	283.9	18.2	18.14	29.28	0
8/24/2018 15:00	7.504	272.9	15.53	18.45	29.27	0
8/24/2018 15:15	9.01	287.7	15.75	18.6	29.27	0
8/24/2018 15:30	7.231	265	13.92	18.54	29.27	0
8/24/2018 15:45	7.455	229.7	22.3	18.85	29.27	0
8/24/2018 16:00	8.21	247	18.23	18.8	29.25	0
8/24/2018 16:15	9.26	270.3	13.68	18.64	29.25	0
8/24/2018 16:30	8.48	263.7	12.07	18.34	29.25	0
8/24/2018 16:45	8.73	265	17.38	18.4	29.25	0
8/24/2018 17:00	9.42	258.2	9.08	18.09	29.24	0
8/24/2018 17:15	8.9	274.7	9.66	17.75	29.24	0
8/24/2018 17:30	9.79	270.4	9.34	17.45	29.24	0
8/24/2018 17:45	7.854	264.2	10.67	17	29.24	0
8/24/2018 18:00	5.91	257.2	12.58	16.88	29.27	0
8/24/2018 18:15	4.211	262.4	11.27	16.7	29.27	0
8/24/2018 18:30	3.347	244.2	15.02	16.49	29.27	0

8/24/2018 18:45	2.797	241.9	16.03	16.28	29.27	0
8/24/2018 19:00	1.541	195.3	21.75	15.9	29.25	0
8/24/2018 19:15	1.874	204.4	28.68	15.74	29.25	0
8/24/2018 19:30	3.129	239.2	3.881	15.81	29.25	0
8/24/2018 19:45	2.702	242.6	4.804	15.63	29.25	0
8/24/2018 20:00	2.158	206.4	13.47	15.49	29.28	0
8/24/2018 20:15	2.089	148.5	13.46	15.08	29.28	0
8/24/2018 20:30	2.265	125.8	5.814	14.67	29.28	0
8/24/2018 20:45	1.936	138.1	15.47	14.65	29.28	0
8/24/2018 21:00	2.333	181.3	9.38	15.22	29.27	0
8/24/2018 21:15	2.142	160.8	7.257	14.88	29.27	0
8/24/2018 21:30	2.486	161.3	4.557	14.66	29.27	0
8/24/2018 21:45	2.35	173.3	8.98	14.39	29.27	0
8/24/2018 22:00	4.206	204	7.413	14.01	29.26	0
8/24/2018 22:15	4.947	209	4.632	13.86	29.26	0
8/24/2018 22:30	3.742	211	6.807	13.58	29.26	0
8/24/2018 22:45	3.001	211.3	3.296	13.52	29.26	0
8/24/2018 23:00	2.57	203.8	4.02	13.52	29.27	0
8/24/2018 23:15	3.203	188.6	10.94	13.24	29.27	0
8/24/2018 23:30	2.681	156.8	4.693	12.78	29.27	0
8/24/2018 23:45	1.27	190.8	19.64	12.79	29.27	0
8/25/2018 0:00	2.578	192.1	10.61	12.81	29.26	0
8/25/2018 0:15	2.157	140.3	17.62	12.38	29.26	0
8/25/2018 0:30	2.016	124.4	4.545	12.17	29.26	0
8/25/2018 0:45	1.777	139.2	5.076	12.55	29.26	0
8/25/2018 1:00	2.48	181	11.36	12.54	29.26	0
8/25/2018 1:15	2.658	187.4	11.85	12.31	29.26	0
8/25/2018 1:30	3.996	208.1	3.572	12.13	29.26	0
8/25/2018 1:45	3.916	218.6	15.7	11.97	29.26	0
8/25/2018 2:00	0.794	300.2	43.38	11.96	29.26	0
8/25/2018 2:15	1.41	184.3	35.59	11.75	29.26	0
8/25/2018 2:30	1.097	115.1	2.839	11.31	29.26	0
8/25/2018 2:45	1.231	147.5	33.54	11.61	29.26	0
8/25/2018 3:00	3.689	202.6	3.164	11.65	29.25	0
8/25/2018 3:15	4.528	187.1	9.09	11.16	29.25	0
8/25/2018 3:30	3.738	171.7	7.521	10.99	29.25	0
8/25/2018 3:45	3.252	163.2	7.481	10.9	29.25	0
8/25/2018 4:00	3.955	175	6.529	10.86	29.25	0
8/25/2018 4:15	4.601	168.1	5.631	10.54	29.25	0
8/25/2018 4:30	4.022	165.2	4.541	10.26	29.25	0
8/25/2018 4:45	3.425	176.1	9.78	10.36	29.25	0
8/25/2018 5:00	3.453	151.6	17.66	10.22	29.24	0
8/25/2018 5:15	3.644	134.3	5.236	10.08	29.24	0
8/25/2018 5:30	3.289	163.2	12.28	10.24	29.24	0
8/25/2018 5:45	3.759	159.1	7.621	10.31	29.24	0
8/25/2018 6:00	4.514	156.4	5.946	10.23	29.25	0
8/25/2018 6:15	3.586	168	15.58	10.34	29.25	0

8/25/2018 6:30	3.179	134.1	20.15	10.44	29.25	0
8/25/2018 6:45	3.866	130.7	7.076	10.53	29.25	0
8/25/2018 7:00	3.499	154.2	15.02	10.65	29.24	0
8/25/2018 7:15	5.007	191.4	10.24	10.84	29.24	0
8/25/2018 7:30	5.325	197.1	5.33	10.82	29.24	0
8/25/2018 7:45	5.299	185.1	13.97	10.91	29.24	0
8/25/2018 8:00	4.524	182.3	10.83	10.85	29.26	0
8/25/2018 8:15	3.295	173.3	16.85	11.03	29.26	0
8/25/2018 8:30	4.979	150.4	7.7	11.16	29.26	0
8/25/2018 8:45	4.805	149.3	12.08	11.35	29.26	0
8/25/2018 9:00	6.024	155	11.29	11.53	29.28	0
8/25/2018 9:15	5.212	145.2	11.53	11.82	29.28	0
8/25/2018 9:30	5.769	154.1	9.25	11.88	29.28	0
8/25/2018 9:45	6.324	169.5	18.33	12.08	29.28	0
8/25/2018 10:00	6.45	143.2	15.37	12.13	29.26	0
8/25/2018 10:15	7.625	154.3	10.72	12.2	29.26	0
8/25/2018 10:30	6.651	149.1	10.32	12.1	29.26	0
8/25/2018 10:45	6.674	134.7	10.36	12.15	29.26	0
8/25/2018 11:00	5.576	136.8	8.31	12.34	29.27	0
8/25/2018 11:15	4.542	132.6	13.37	12.62	29.27	0
8/25/2018 11:30	4.246	132.3	20.15	12.91	29.27	0
8/25/2018 11:45	4.036	151.4	24.19	13.26	29.27	0
8/25/2018 12:00	4.347	147.7	19.23	13.34	29.26	0
8/25/2018 12:15	4.853	151.4	20.24	13.7	29.26	0
8/25/2018 12:30	4.389	143.7	16.59	14.14	29.26	0
8/25/2018 12:45	4.578	132	23.96	14.24	29.26	0
8/25/2018 13:00	4.579	151.5	33.85	14.96	29.24	0
8/25/2018 13:15	3.382	150.4	29.32	14.69	29.24	0
8/25/2018 13:30	4.292	183.6	28.19	14.74	29.24	0
8/25/2018 13:45	1.851	204	35.05	14.83	29.24	0
8/25/2018 14:00	3.09	197.3	41.21	14.92	29.26	0
8/25/2018 14:15	4.049	160.1	24.52	15.15	29.26	0
8/25/2018 14:30	2.491	174.3	61.53	15.36	29.26	0
8/25/2018 14:45	3.941	139.6	22.24	15.23	29.26	0
8/25/2018 15:00	3.196	131.7	17.86	15.41	29.23	0
8/25/2018 15:15	3.588	145.6	18.6	15.41	29.23	0
8/25/2018 15:30	2.909	110.4	19.76	15.35	29.23	0
8/25/2018 15:45	3.554	103.1	30.79	15.27	29.23	0
8/25/2018 16:00	2.954	113.3	31.48	15.8	29.23	0
8/25/2018 16:15	4.134	90.7	14.77	15.57	29.23	0
8/25/2018 16:30	4.149	89.7	11.34	15.44	29.23	0
8/25/2018 16:45	3.127	97.2	13.53	15.46	29.23	0
8/25/2018 17:00	2.473	71.74	5.341	15.38	29.25	0
8/25/2018 17:15	2.346	63	5.353	15.34	29.25	0
8/25/2018 17:30	1.405	66.32	2.656	15.32	29.25	0
8/25/2018 17:45	1.266	51.92	10	15.3	29.25	0
8/25/2018 18:00	1.603	39.39	2.932	15.28	29.22	0

8/25/2018 18:15	2.432	62.17	5.042	15.17	29.22	0
8/25/2018 18:30	2.589	63.08	1.838	15.05	29.22	0
8/25/2018 18:45	1.977	66.75	5.41	14.98	29.22	0
8/25/2018 19:00	1.077	72.29	0.253	14.93	29.23	0
8/25/2018 19:15	1.771	72.88	0.748	14.86	29.23	0
8/25/2018 19:30	2.975	43.04	13.09	14.6	29.23	0
8/25/2018 19:45	2.852	30.57	9.92	14.45	29.23	0
8/25/2018 20:00	3.473	21.68	6.509	14.36	29.25	0
8/25/2018 20:15	3.575	34.06	5.775	14.26	29.25	0
8/25/2018 20:30	4.48	35.28	7.45	14.04	29.25	0
8/25/2018 20:45	5.34	36.17	7.003	13.96	29.25	0
8/25/2018 21:00	4.293	41.11	4.775	13.98	29.25	0
8/25/2018 21:15	4.048	36.87	6.382	13.92	29.25	0
8/25/2018 21:30	3.892	36.36	4.98	13.88	29.25	0
8/25/2018 21:45	3.985	30.07	6.197	13.88	29.25	0
8/25/2018 22:00	2.515	29.27	10.86	13.85	29.25	0
8/25/2018 22:15	1.57	25.68	6.448	13.79	29.25	0
8/25/2018 22:30	0.535	44.48	5.658	13.73	29.25	0
8/25/2018 22:45	0.656	71.31	46.2	13.74	29.25	0
8/25/2018 23:00	2.528	187.4	13.91	14.06	29.25	0
8/25/2018 23:15	2.452	180	11.55	14.08	29.25	0
8/25/2018 23:30	1.363	143.3	15.1	13.73	29.25	0
8/25/2018 23:45	2.055	125.5	3.168	13.57	29.25	0
8/26/2018 0:00	3.444	143.2	6.967	13.49	29.25	0
8/26/2018 0:15	2.423	144.7	13.64	13.39	29.25	0
8/26/2018 0:30	3.723	174	8.12	13.37	29.25	0
8/26/2018 0:45	2.876	160	7.558	13.32	29.25	0
8/26/2018 1:00	2.8	160.4	7.699	13.29	29.23	0
8/26/2018 1:15	2.772	175.1	8.8	13.36	29.23	0
8/26/2018 1:30	3.419	196.2	2.828	13.51	29.23	0
8/26/2018 1:45	2.922	199.5	12.88	13.5	29.23	0
8/26/2018 2:00	2.176	216.2	6.508	13.48	29.22	0
8/26/2018 2:15	1.975	221.4	9.52	13.48	29.22	0
8/26/2018 2:30	1.257	229.1	7.63	13.44	29.22	0
8/26/2018 2:45	1.301	215.8	5.622	13.43	29.22	0
8/26/2018 3:00	1.386	230.4	12.14	13.47	29.21	0
8/26/2018 3:15	1.824	203.5	14	13.38	29.21	0
8/26/2018 3:30	2.603	164.6	12.17	13.22	29.21	0
8/26/2018 3:45	1.953	168.6	5.171	13.12	29.21	0
8/26/2018 4:00	3.103	174.2	10.22	13.04	29.22	0
8/26/2018 4:15	2.573	190.3	13.17	13.07	29.22	0
8/26/2018 4:30	2.367	182.3	12.27	13.09	29.22	0
8/26/2018 4:45	2.353	190.3	8.3	13.04	29.22	0
8/26/2018 5:00	2.747	208.1	6.762	13.15	29.23	0
8/26/2018 5:15	2.165	192.2	13.73	13.07	29.23	0
8/26/2018 5:30	2.817	186.1	11.42	13.01	29.23	0
8/26/2018 5:45	3.539	187.3	6.265	13.1	29.23	0

8/26/2018 6:00	2.929	186	8.43	13.13	29.22	0
8/26/2018 6:15	1.835	202.8	10.21	13.14	29.22	0
8/26/2018 6:30	1.481	207.6	9.42	13.25	29.22	0
8/26/2018 6:45	2.327	195.3	12.29	13.25	29.22	0
8/26/2018 7:00	3.308	185.5	5.428	13.13	29.21	0
8/26/2018 7:15	4.157	183	9.17	13.1	29.21	0
8/26/2018 7:30	3.492	196.8	15.29	13.09	29.21	0
8/26/2018 7:45	3.748	209.6	10.27	13.17	29.21	0
8/26/2018 8:00	4.941	230.3	14.47	13.3	29.21	0
8/26/2018 8:15	7.073	250	9.11	13.46	29.21	0
8/26/2018 8:30	5.72	250.2	8.02	13.61	29.21	0
8/26/2018 8:45	4.826	226.4	9.79	13.71	29.21	0
8/26/2018 9:00	6.453	221.1	10.71	13.72	29.21	0
8/26/2018 9:15	7.399	218.1	8.88	13.75	29.21	0
8/26/2018 9:30	7.59	207.8	7.259	13.95	29.21	0
8/26/2018 9:45	8.4	209.9	12.65	14.03	29.21	0
8/26/2018 10:00	5.183	179.2	14.69	14.7	29.21	0
8/26/2018 10:15	6.067	163.6	23.38	15.11	29.21	0
8/26/2018 10:30	9.28	192	12.41	15.5	29.21	0
8/26/2018 10:45	10.73	194.9	10.81	15.59	29.21	0
8/26/2018 11:00	10.35	215	9.78	15.59	29.18	0
8/26/2018 11:15	10.94	222.4	9.09	15.79	29.18	0
8/26/2018 11:30	12.17	213.5	11	15.86	29.18	0
8/26/2018 11:45	11.03	229.9	11.51	15.84	29.18	0
8/26/2018 12:00	12.43	214.5	9.92	15.73	29.19	0
8/26/2018 12:15	10.89	210.3	12.22	15.58	29.19	0
8/26/2018 12:30	10.51	206	8.95	15.5	29.19	0
8/26/2018 12:45	11.24	213.8	9.06	15.62	29.19	0
8/26/2018 13:00	10.97	211.3	9.6	15.59	29.18	0
8/26/2018 13:15	12.44	201.8	8.33	15.31	29.18	0
8/26/2018 13:30	8.8	199.3	13.68	15.43	29.18	0
8/26/2018 13:45	8.55	203.8	14.3	15.77	29.18	0
8/26/2018 14:00	7.274	183.2	16.63	16.41	29.17	0
8/26/2018 14:15	10.3	211.4	15.8	16.15	29.17	0
8/26/2018 14:30	8.49	217.9	12.44	16.27	29.17	0
8/26/2018 14:45	11.22	220.4	12.98	16.4	29.17	0
8/26/2018 15:00	11.44	222.3	9.56	16.52	29.17	0
8/26/2018 15:15	9.36	220.5	10.69	16.46	29.17	0
8/26/2018 15:30	10.32	228.1	6.308	16.38	29.17	0
8/26/2018 15:45	11.03	225	9.94	16.24	29.17	0
8/26/2018 16:00	12.41	219.7	9.12	15.82	29.15	0
8/26/2018 16:15	12.16	219.1	9.86	15.5	29.15	0
8/26/2018 16:30	8.92	209	10.87	15.34	29.15	0
8/26/2018 16:45	8.3	198.9	13.68	15.31	29.15	0
8/26/2018 17:00	8.28	204.7	19.61	15.18	29.14	0
8/26/2018 17:15	9.06	203.2	12.65	14.83	29.14	0
8/26/2018 17:30	8.4	189.1	22.29	14.14	29.14	0

8/26/2018 17:45	6.588	182	13.04	13.5	29.14	0
8/26/2018 18:00	4.335	149	17.65	13.14	29.13	0.01
8/26/2018 18:15	3.988	106.1	15.03	12.89	29.13	0.01
8/26/2018 18:30	4.564	107.8	8.52	12.75	29.13	0.01
8/26/2018 18:45	4.702	111.4	6.651	12.7	29.13	0.01
8/26/2018 19:00	5.075	111.5	8.45	12.65	29.13	0.02
8/26/2018 19:15	4.435	111.6	9.32	12.61	29.13	0.01
8/26/2018 19:30	4.358	114.4	9.34	12.58	29.13	0.01
8/26/2018 19:45	4.455	111.5	8.96	12.58	29.13	0.01
8/26/2018 20:00	4.675	123.1	9.38	12.57	29.12	0.01
8/26/2018 20:15	4.016	119.1	9.87	12.6	29.12	0.01
8/26/2018 20:30	4.048	102.1	7.61	12.6	29.12	0.01
8/26/2018 20:45	4.054	104.3	7.774	12.61	29.12	0.02
8/26/2018 21:00	2.892	97	7.636	12.63	29.12	0
8/26/2018 21:15	3.951	100.2	5.061	12.62	29.12	0.02
8/26/2018 21:30	2.554	85.2	13.19	12.63	29.12	0.02
8/26/2018 21:45	1.812	56.91	4.159	12.65	29.12	0.01
8/26/2018 22:00	2.742	54.89	12	12.68	29.14	0.02
8/26/2018 22:15	4.81	36.55	7.643	12.69	29.14	0.03
8/26/2018 22:30	1.566	87.2	49.34	12.68	29.14	0.02
8/26/2018 22:45	3.092	170.5	6.141	12.76	29.14	0
8/26/2018 23:00	2.266	178.3	5.642	12.82	29.13	0.01
8/26/2018 23:15	1.142	15.99	39.51	12.79	29.13	0
8/26/2018 23:30	1.091	8.63	0.226	12.75	29.13	0
8/26/2018 23:45	1.578	9.27	0.774	12.69	29.13	0
8/27/2018 0:00	1.935	15.43	1.511	12.74	29.14	0
8/27/2018 0:15	2.378	23.31	6.327	12.67	29.14	0
8/27/2018 0:30	1.376	17.27	3.976	12.71	29.14	0
8/27/2018 0:45	0.449	20.45	3.133	12.7	29.14	0
8/27/2018 1:00	3.175	299	30.79	12.85	29.16	0
8/27/2018 1:15	4.011	331.9	23.86	12.91	29.16	0
8/27/2018 1:30	4.312	15.45	11.31	12.82	29.16	0
8/27/2018 1:45	6.454	14.32	14.07	12.98	29.16	0
8/27/2018 2:00	5.796	4.091	12.48	13.33	29.17	0
8/27/2018 2:15	5.355	12.98	19.13	13.25	29.17	0
8/27/2018 2:30	6.479	13.46	18.47	13.2	29.17	0
8/27/2018 2:45	8.4	19.02	9.99	12.93	29.17	0
8/27/2018 3:00	5.826	32.46	10.28	12.59	29.16	0
8/27/2018 3:15	6.172	39.88	10.9	12.52	29.16	0
8/27/2018 3:30	6.271	38.84	14	12.54	29.16	0
8/27/2018 3:45	2.626	95.1	75.03	12.54	29.16	0
8/27/2018 4:00	1.965	215	63.9	12.66	29.2	0
8/27/2018 4:15	2.926	224.3	43.23	12.88	29.2	0
8/27/2018 4:30	3.507	256.6	25.69	12.88	29.2	0
8/27/2018 4:45	3.256	266.8	17.66	12.98	29.2	0
8/27/2018 5:00	2.95	310.3	43.81	13.01	29.21	0
8/27/2018 5:15	2.314	344.8	21.44	12.95	29.21	0

8/27/2018 5:30	4.371	353.4	18.71	12.97	29.21	0
8/27/2018 5:45	6.391	8.64	12.63	12.95	29.21	0
8/27/2018 6:00	4.772	15.33	19.21	12.98	29.23	0
8/27/2018 6:15	2.626	31.92	25.39	12.96	29.23	0
8/27/2018 6:30	5.467	18.15	11.32	12.84	29.23	0
8/27/2018 6:45	7.324	18.23	13.37	12.79	29.23	0
8/27/2018 7:00	6.521	26.06	11.67	12.74	29.26	0
8/27/2018 7:15	6.272	24.52	6.944	12.82	29.26	0
8/27/2018 7:30	7.687	26.03	12.37	13.61	29.26	0
8/27/2018 7:45	7.551	32.11	9.2	13.43	29.26	0
8/27/2018 8:00	6.464	5.792	13.43	13.98	29.28	0
8/27/2018 8:15	5.516	10.6	9.94	14.53	29.28	0
8/27/2018 8:30	4.705	357.9	20.31	14.89	29.28	0
8/27/2018 8:45	5.591	323.3	16.2	15.26	29.28	0
8/27/2018 9:00	5.957	323	10.37	15.22	29.3	0
8/27/2018 9:15	6.674	343.7	20.14	14.85	29.3	0
8/27/2018 9:30	6.784	345.9	8.53	14.87	29.3	0
8/27/2018 9:45	8.6	358.8	15.28	15.58	29.3	0
8/27/2018 10:00	9.05	14.35	9.86	15.9	29.31	0
8/27/2018 10:15	8.21	9.45	16.75	15.95	29.31	0
8/27/2018 10:30	7.408	26.09	18.56	16.68	29.31	0
8/27/2018 10:45	7.494	344.3	28.54	16.65	29.31	0
8/27/2018 11:00	6.154	328.9	18.84	17.11	29.31	0
8/27/2018 11:15	5.676	295.1	17.51	17.36	29.31	0
8/27/2018 11:30	5.344	308	30.82	17.4	29.31	0
8/27/2018 11:45	3.884	285.6	26.18	17.54	29.31	0
8/27/2018 12:00	4.349	322.7	44.55	18.63	29.3	0
8/27/2018 12:15	6.765	22.17	23.58	18.52	29.3	0
8/27/2018 12:30	6.105	38.4	20.23	18.45	29.3	0
8/27/2018 12:45	5.875	34.92	24.16	18.96	29.3	0
8/27/2018 13:00	5.959	30.75	20.2	19.27	29.29	0
8/27/2018 13:15	7.524	44.03	17.63	19.63	29.29	0
8/27/2018 13:30	7.672	43.69	15.76	19.67	29.29	0
8/27/2018 13:45	5.697	46.41	18.37	19.64	29.29	0
8/27/2018 14:00	6.567	26.35	19.81	20.28	29.3	0
8/27/2018 14:15	6.629	39.94	26.04	20.22	29.3	0
8/27/2018 14:30	5.238	28.96	18.48	20.54	29.3	0
8/27/2018 14:45	5.871	40.59	17.17	20.92	29.3	0
8/27/2018 15:00	6.785	47.13	13.52	20.89	29.29	0
8/27/2018 15:15	6.579	26.57	20.79	21.22	29.29	0
8/27/2018 15:30	5.205	42.07	36.03	21.36	29.29	0
8/27/2018 15:45	4.958	0.943	40.92	21.5	29.29	0
8/27/2018 16:00	5.246	32.41	16.02	21.3	29.28	0
8/27/2018 16:15	2.404	11.02	44.29	21.53	29.28	0
8/27/2018 16:30	4.053	15.95	13.34	21.67	29.28	0
8/27/2018 16:45	4.262	5.728	13	21.75	29.28	0
8/27/2018 17:00	2.85	6.542	22.92	21.9	29.28	0

8/27/2018 17:15	5.164	28.93	7.422	21.46	29.28	0
8/27/2018 17:30	4.623	34.04	12.35	21.38	29.28	0
8/27/2018 17:45	3.586	2.373	16.39	21.58	29.28	0
8/27/2018 18:00	3.742	335.8	18.63	21.65	29.27	0
8/27/2018 18:15	2.834	359.5	16.4	21.26	29.27	0
8/27/2018 18:30	3.915	322.4	4.352	21.11	29.27	0
8/27/2018 18:45	3.669	304.7	15.06	20.64	29.27	0
8/27/2018 19:00	3.764	276.8	4.672	20.16	29.26	0
8/27/2018 19:15	2.957	282.8	2.223	19.97	29.26	0
8/27/2018 19:30	1.497	350.8	22.75	19.39	29.26	0
8/27/2018 19:45	2.157	23.38	23.35	18.56	29.26	0
8/27/2018 20:00	2.529	59.75	6.778	17.99	29.29	0
8/27/2018 20:15	2.86	49.3	5.79	17.82	29.29	0
8/27/2018 20:30	2.908	30.58	5.403	17.35	29.29	0
8/27/2018 20:45	2.573	63.57	12.12	16.97	29.29	0
8/27/2018 21:00	2.793	108.3	30.27	16.49	29.27	0
8/27/2018 21:15	2.688	152.7	14.68	16.95	29.27	0
8/27/2018 21:30	4.187	161.7	14.41	16.48	29.27	0
8/27/2018 21:45	3.189	171.1	17.52	16.04	29.27	0
8/27/2018 22:00	3.918	182.4	6.924	15.81	29.29	0
8/27/2018 22:15	5.332	185.6	12.37	15.41	29.29	0
8/27/2018 22:30	5.093	157.5	7.78	15.34	29.29	0
8/27/2018 22:45	4.68	147.4	7.016	15.25	29.29	0
8/27/2018 23:00	5.353	135.8	5.759	15.35	29.28	0
8/27/2018 23:15	5.243	141.1	5.418	15.32	29.28	0
8/27/2018 23:30	3.677	149.2	7.903	15.15	29.28	0
8/27/2018 23:45	3.824	176.8	10.69	15.23	29.28	0
8/28/2018 0:00	4.723	170.6	10.25	15.2	29.28	0
8/28/2018 0:15	4.977	175.3	6.536	14.58	29.28	0
8/28/2018 0:30	1.604	165.8	14.71	14.48	29.28	0
8/28/2018 0:45	0.753	144	0.149	13.84	29.28	0
8/28/2018 1:00	1.165	144.2	0.123	14.07	29.29	0
8/28/2018 1:15	2.375	152.4	3.858	14.14	29.29	0
8/28/2018 1:30	2.687	118.2	15.46	14.03	29.29	0
8/28/2018 1:45	2.933	101.6	4.944	13.07	29.29	0
8/28/2018 2:00	3.609	137.7	16.2	14.36	29.26	0
8/28/2018 2:15	2.486	158.9	4.039	14.56	29.26	0
8/28/2018 2:30	1.391	175.7	11.14	14.02	29.26	0
8/28/2018 2:45	4.627	214.2	4.392	13.26	29.26	0
8/28/2018 3:00	5.951	195.8	4.638	12.95	29.28	0
8/28/2018 3:15	2.995	156.5	14.8	13.2	29.28	0
8/28/2018 3:30	2.984	143.1	11.95	13.42	29.28	0
8/28/2018 3:45	4.496	175	6.471	13.16	29.28	0
8/28/2018 4:00	3.515	169.6	11.62	13.42	29.26	0
8/28/2018 4:15	4.085	161.5	5.607	13.44	29.26	0
8/28/2018 4:30	4.867	166.2	4.261	13.32	29.26	0
8/28/2018 4:45	3.771	162.3	5.109	13.52	29.26	0

8/28/2018 5:00	2.767	154.5	8.08	13.46	29.26	0
8/28/2018 5:15	3.149	170	6.68	13.22	29.26	0
8/28/2018 5:30	2.881	166.4	10.2	13.21	29.26	0
8/28/2018 5:45	1.875	173.7	13.96	13	29.26	0
8/28/2018 6:00	0.762	134.5	9.98	13.28	29.25	0
8/28/2018 6:15	0.047	121.3	0.025	14.31	29.25	0
8/28/2018 6:30	0.152	78.08	10.91	14.28	29.25	0
8/28/2018 6:45	0	0	0	14.46	29.25	0
8/28/2018 7:00	0.914	3.197	12.48	14.81	29.26	0
8/28/2018 7:15	2.033	357.5	20.32	14.27	29.26	0
8/28/2018 7:30	2.629	349.9	17.91	14.77	29.26	0
8/28/2018 7:45	1.854	338.2	7.677	15.15	29.26	0
8/28/2018 8:00	1.417	24.44	22.52	16.01	29.29	0
8/28/2018 8:15	1.755	39.43	19.06	16.39	29.29	0
8/28/2018 8:30	1.97	73.7	18.85	16.69	29.29	0
8/28/2018 8:45	2.467	37.72	15.88	17.14	29.29	0
8/28/2018 9:00	2.684	76.63	27.38	17.76	29.28	0
8/28/2018 9:15	1.689	47.24	31.98	18.64	29.28	0
8/28/2018 9:30	2.409	263.3	37.12	18.81	29.28	0
8/28/2018 9:45	2.93	241.5	22.02	19.06	29.28	0
8/28/2018 10:00	2.217	274.9	25.48	19.88	29.27	0
8/28/2018 10:15	2.566	269.8	37.48	20.53	29.27	0
8/28/2018 10:30	3.451	307.6	26.48	20.95	29.27	0
8/28/2018 10:45	3.377	315.9	22.35	21.26	29.27	0
8/28/2018 11:00	3.798	6.049	41.78	21.68	29.26	0
8/28/2018 11:15	5.123	41.09	24.22	22.18	29.26	0
8/28/2018 11:30	4.39	37.83	28.89	22.65	29.26	0
8/28/2018 11:45	4.219	17.92	37.73	23.49	29.26	0
8/28/2018 12:00	3.947	38.05	32.17	24.16	29.25	0
8/28/2018 12:15	4.081	342.1	58.1	24.37	29.25	0
8/28/2018 12:30	4.083	23.38	35.34	24.97	29.25	0
8/28/2018 12:45	5.721	29.48	19.45	24.84	29.25	0
8/28/2018 13:00	4.343	32.49	31.26	24.81	29.21	0
8/28/2018 13:15	4.63	338.3	41.65	25.43	29.21	0
8/28/2018 13:30	6.007	9.32	36.51	25.67	29.21	0
8/28/2018 13:45	5.657	27.04	14.91	25.51	29.21	0
8/28/2018 14:00	5.384	42.29	20.03	25.91	29.21	0
8/28/2018 14:15	5.238	26.85	25.64	25.89	29.21	0
8/28/2018 14:30	5.949	26.13	24.76	26.04	29.21	0
8/28/2018 14:45	8.38	53.19	12.5	26	29.21	0
8/28/2018 15:00	7.469	28.99	15.62	26.13	29.17	0
8/28/2018 15:15	7.464	30.13	10.05	26.08	29.17	0
8/28/2018 15:30	9.21	27.24	10.41	26.05	29.17	0
8/28/2018 15:45	8.26	35.03	10.19	26.1	29.17	0
8/28/2018 16:00	7.103	30.65	13.81	26.37	29.18	0
8/28/2018 16:15	8.16	35.08	14.17	26.19	29.18	0
8/28/2018 16:30	7.66	27.62	14.36	26.18	29.18	0

8/28/2018 16:45	6.465	33.54	10.61	26.19	29.18	0
8/28/2018 17:00	6.255	11.96	13.22	26.23	29.15	0
8/28/2018 17:15	6.166	7.485	13.11	26.17	29.15	0
8/28/2018 17:30	6.158	2.241	11.53	25.98	29.15	0
8/28/2018 17:45	5.268	0.785	14.9	25.71	29.15	0
8/28/2018 18:00	4.972	340	20.08	25.44	29.15	0
8/28/2018 18:15	5.834	318.3	3.787	25.1	29.15	0
8/28/2018 18:30	6.5	317.5	7.185	24.42	29.15	0
8/28/2018 18:45	6.735	311.2	5.924	23.57	29.15	0
8/28/2018 19:00	6.345	330.5	14.88	23.03	29.15	0
8/28/2018 19:15	5.074	345.5	17.5	22.98	29.15	0
8/28/2018 19:30	2.441	358.9	12.78	22.55	29.15	0
8/28/2018 19:45	4.138	6.531	14.69	21.89	29.15	0
8/28/2018 20:00	3.961	28.66	10.3	20.97	29.14	0
8/28/2018 20:15	4.549	45.43	7.87	20.28	29.14	0
8/28/2018 20:30	5.501	40.42	6.809	20.33	29.14	0
8/28/2018 20:45	4.882	55.67	8.88	20.13	29.14	0
8/28/2018 21:00	4.898	56.32	7.974	19.9	29.15	0
8/28/2018 21:15	5.234	49.09	6.941	19.52	29.15	0
8/28/2018 21:30	5.392	38.48	6.226	19.07	29.15	0
8/28/2018 21:45	5.297	45.38	7.019	19.23	29.15	0
8/28/2018 22:00	5.656	40.77	7.684	18.41	29.14	0
8/28/2018 22:15	4.272	60.24	9.1	18.32	29.14	0
8/28/2018 22:30	2.948	66.55	11.16	18.76	29.14	0
8/28/2018 22:45	1.458	94.8	15.35	18.94	29.14	0
8/28/2018 23:00	2.467	191.4	18.2	18.23	29.13	0
8/28/2018 23:15	4.231	195.4	5.786	17.8	29.13	0
8/28/2018 23:30	2.225	188.3	7.593	17.45	29.13	0
8/28/2018 23:45	1.674	206.9	5.648	16.99	29.13	0
8/29/2018 0:00	2.723	190.8	9.71	17.35	29.1	0
8/29/2018 0:15	0.57	139.3	7.776	17.35	29.1	0
8/29/2018 0:30	1.654	139	9.2	17.08	29.1	0
8/29/2018 0:45	0.444	141.8	0.141	17.35	29.1	0
8/29/2018 1:00	1.786	152.7	18.06	16.99	29.11	0
8/29/2018 1:15	4.078	184.6	4.194	16.64	29.11	0
8/29/2018 1:30	4.688	171.9	13.68	16.39	29.11	0
8/29/2018 1:45	4.22	145	5.943	16.81	29.11	0
8/29/2018 2:00	1.849	134	1.643	16.6	29.1	0
8/29/2018 2:15	0.085	125.4	1.395	16.18	29.1	0
8/29/2018 2:30	0.555	126.7	0.762	16.32	29.1	0
8/29/2018 2:45	1.033	57.33	54.34	16.5	29.1	0
8/29/2018 3:00	2.173	2.433	5.085	15.62	29.1	0
8/29/2018 3:15	2.074	4.11	0.172	15.33	29.1	0
8/29/2018 3:30	1.644	8.11	7.698	15.32	29.1	0
8/29/2018 3:45	1.848	24.11	0.237	14.15	29.1	0
8/29/2018 4:00	2.13	48.09	16.74	14.28	29.1	0
8/29/2018 4:15	0.691	69.51	6.069	14.02	29.1	0

8/29/2018 4:30	0.979	73.72	24.75	14.31	29.1	0
8/29/2018 4:45	1.403	75.76	39.19	13.57	29.1	0
8/29/2018 5:00	1.876	104.2	2.706	14.1	29.08	0
8/29/2018 5:15	2.789	108.1	2.563	14.76	29.08	0
8/29/2018 5:30	1.795	101.9	5.355	14.63	29.08	0
8/29/2018 5:45	1.601	103.1	21.3	14.36	29.08	0
8/29/2018 6:00	3.184	151.9	5.131	14.83	29.06	0
8/29/2018 6:15	3.194	167.1	6.376	14.92	29.06	0
8/29/2018 6:30	3.826	174.2	8.66	15.45	29.06	0
8/29/2018 6:45	3.837	184.8	15.54	15.78	29.06	0
8/29/2018 7:00	4.591	215.4	14.93	15.22	29.08	0
8/29/2018 7:15	5.842	200.9	10.33	15.46	29.08	0
8/29/2018 7:30	5.36	216.4	8.41	15.79	29.08	0
8/29/2018 7:45	4.126	181.8	18.3	15.55	29.08	0
8/29/2018 8:00	4.013	154	15.69	16.05	29.1	0
8/29/2018 8:15	5.229	153.6	11.96	17.19	29.1	0
8/29/2018 8:30	6.595	162.9	9.9	17.55	29.1	0
8/29/2018 8:45	4.994	162.7	21.18	18.04	29.1	0
8/29/2018 9:00	5.652	147.3	14.72	18.79	29.1	0
8/29/2018 9:15	6.123	192.8	25.31	18.64	29.1	0
8/29/2018 9:30	4.945	213.3	16.88	18.79	29.1	0
8/29/2018 9:45	5.194	195.3	18.85	19.45	29.1	0
8/29/2018 10:00	5.487	205.8	29.63	19.81	29.09	0
8/29/2018 10:15	4.635	224.1	28.86	20.17	29.09	0
8/29/2018 10:30	5.342	235.9	35.72	20.3	29.09	0
8/29/2018 10:45	5.087	204.6	30.98	20.92	29.09	0
8/29/2018 11:00	6.262	166.6	28.6	21.89	29.09	0
8/29/2018 11:15	7.6	206	29.49	22.27	29.09	0
8/29/2018 11:30	7.603	203.2	34.23	22.34	29.09	0
8/29/2018 11:45	8.91	212.4	18.23	22.3	29.09	0
8/29/2018 12:00	8.58	216.8	14.7	22.48	29.08	0
8/29/2018 12:15	10.32	191.8	13.31	22.84	29.08	0
8/29/2018 12:30	9.7	213.7	17.06	23.21	29.08	0
8/29/2018 12:45	11.39	226.2	12.37	23.43	29.08	0
8/29/2018 13:00	9.43	204.2	18.81	23.66	29.05	0
8/29/2018 13:15	10.11	250.8	34.77	23.96	29.05	0
8/29/2018 13:30	11.12	265.8	17.49	23.54	29.05	0
8/29/2018 13:45	9.54	262.9	16.63	23.23	29.05	0
8/29/2018 14:00	10.56	257	14.77	23.07	29.08	0
8/29/2018 14:15	11.53	262.8	14.52	23.12	29.08	0
8/29/2018 14:30	10.68	271.4	16.52	22.82	29.08	0
8/29/2018 14:45	10.52	257	13.53	23.13	29.08	0
8/29/2018 15:00	10.63	259.9	13.14	23.15	29.06	0
8/29/2018 15:15	11.32	269.6	13.54	22.94	29.06	0
8/29/2018 15:30	11.15	258.2	15.17	22.74	29.06	0
8/29/2018 15:45	10.22	271.7	14.96	23.2	29.06	0
8/29/2018 16:00	9.55	263.1	13.99	22.92	29.07	0

8/29/2018 16:15	9.7	251	21.02	23.15	29.07	0
8/29/2018 16:30	10.98	243.9	11.84	23.29	29.07	0
8/29/2018 16:45	9.23	238.8	13.98	23.05	29.07	0
8/29/2018 17:00	9.9	251.4	16.27	22.79	29.09	0
8/29/2018 17:15	6.956	240.9	17.7	22.12	29.09	0
8/29/2018 17:30	6.488	248.9	34.1	21.93	29.09	0
8/29/2018 17:45	11.71	14.89	20.9	19.9	29.09	0
8/29/2018 18:00	12.92	8.56	14.45	18.89	29.07	0
8/29/2018 18:15	11.4	10.37	11.73	18.43	29.07	0
8/29/2018 18:30	11.07	9.13	12.65	18.08	29.07	0
8/29/2018 18:45	13.12	22.05	11.64	17.73	29.07	0
8/29/2018 19:00	11.98	22.28	13.11	17.41	29.1	0
8/29/2018 19:15	13.44	25.01	11.07	17.28	29.1	0
8/29/2018 19:30	12.74	26.2	11.92	17.19	29.1	0
8/29/2018 19:45	10.48	33.34	13.27	17.02	29.1	0
8/29/2018 20:00	8.75	38.29	12.07	16.98	29.12	0
8/29/2018 20:15	7.819	62.04	14.58	16.93	29.12	0
8/29/2018 20:30	8.26	45.75	13.51	17.03	29.12	0
8/29/2018 20:45	9.23	57.62	16.98	17.25	29.12	0
8/29/2018 21:00	6.398	35.61	16.59	17.21	29.12	0
8/29/2018 21:15	4.932	37.78	9.98	17.14	29.12	0
8/29/2018 21:30	4.831	47.8	10.37	17.1	29.12	0
8/29/2018 21:45	5.223	33.06	13.99	17.15	29.12	0
8/29/2018 22:00	6.642	24.27	11.38	17.07	29.13	0
8/29/2018 22:15	3.325	75.51	31.6	17.03	29.13	0
8/29/2018 22:30	3.997	32.79	23.65	17.01	29.13	0
8/29/2018 22:45	6.725	38.59	9.7	16.92	29.13	0
8/29/2018 23:00	3.601	28.05	16.79	16.82	29.12	0
8/29/2018 23:15	4.749	18.38	9.04	16.74	29.12	0
8/29/2018 23:30	5.618	17.64	12.69	16.56	29.12	0
8/29/2018 23:45	5.924	11.41	8.84	16.5	29.12	0
8/30/2018 0:00	5.466	31.31	9.54	16.29	29.14	0
8/30/2018 0:15	8.44	23.03	10.41	16.14	29.14	0
8/30/2018 0:30	9.52	27.25	13.07	15.99	29.14	0
8/30/2018 0:45	7.205	30.48	19.24	15.77	29.14	0
8/30/2018 1:00	6.036	37.33	12.96	15.75	29.16	0
8/30/2018 1:15	1.707	63.23	10.67	15.75	29.16	0
8/30/2018 1:30	2.606	43.34	30.88	15.68	29.16	0
8/30/2018 1:45	3.61	54.76	12.07	15.52	29.16	0
8/30/2018 2:00	3.653	56.34	13.5	15.43	29.14	0
8/30/2018 2:15	2.219	33.28	71.49	15.35	29.14	0
8/30/2018 2:30	5.574	190.9	10.39	15.14	29.14	0
8/30/2018 2:45	7.05	191.7	5.711	14.89	29.14	0
8/30/2018 3:00	7.107	198.3	5.684	14.77	29.17	0
8/30/2018 3:15	5.48	195.9	6.921	14.72	29.17	0
8/30/2018 3:30	3.878	167.7	15.34	14.56	29.17	0
8/30/2018 3:45	2.928	148.3	9.87	14.41	29.17	0

8/30/2018 4:00	3.499	148.9	10.2	14.34	29.18	0
8/30/2018 4:15	2.971	133.7	8.85	14.34	29.18	0
8/30/2018 4:30	2.841	125	3.204	14.28	29.18	0
8/30/2018 4:45	1.982	124.3	2.48	14.26	29.18	0
8/30/2018 5:00	1.279	115.3	7.726	14.23	29.17	0
8/30/2018 5:15	0.883	116.6	12.84	14.22	29.17	0
8/30/2018 5:30	1.97	139.6	4.12	14.19	29.17	0
8/30/2018 5:45	1.009	131.5	1.418	14.18	29.17	0
8/30/2018 6:00	0.836	123.1	13.71	14.12	29.17	0
8/30/2018 6:15	0.076	74.12	0.038	14.19	29.17	0
8/30/2018 6:30	0.621	74.37	0.028	14.31	29.17	0
8/30/2018 6:45	1.956	87.7	13.45	14.4	29.17	0
8/30/2018 7:00	2.255	111.7	6.672	14.54	29.18	0
8/30/2018 7:15	2.211	117.5	20.23	14.69	29.18	0
8/30/2018 7:30	2.63	148.7	18.32	14.82	29.18	0
8/30/2018 7:45	3.548	156.4	11.77	14.97	29.18	0
8/30/2018 8:00	2.787	152.7	15.96	15.38	29.21	0
8/30/2018 8:15	3.095	176.9	19.95	15.5	29.21	0
8/30/2018 8:30	3.73	210.3	12.93	15.35	29.21	0
8/30/2018 8:45	4.288	196.8	14.12	15.36	29.21	0
8/30/2018 9:00	3.891	196.9	16.5	15.41	29.2	0
8/30/2018 9:15	5.33	183.3	17.94	15.9	29.2	0
8/30/2018 9:30	5.228	195.6	11.17	15.87	29.2	0
8/30/2018 9:45	4.73	186.3	27.73	16.21	29.2	0
8/30/2018 10:00	4.167	156.9	21.33	16.69	29.22	0
8/30/2018 10:15	3.064	180.1	40.81	17.23	29.22	0
8/30/2018 10:30	5	158	25.83	17.61	29.22	0
8/30/2018 10:45	4.869	172.1	29.42	17.67	29.22	0
8/30/2018 11:00	4.762	150.1	34.08	18.26	29.21	0
8/30/2018 11:15	4.559	120.8	38.19	18.16	29.21	0
8/30/2018 11:30	4.235	182.6	42.67	18.49	29.21	0
8/30/2018 11:45	3.158	221	41.46	18.48	29.21	0
8/30/2018 12:00	4.744	226.7	27.71	18.78	29.21	0
8/30/2018 12:15	5.46	239.5	37.39	18.97	29.21	0
8/30/2018 12:30	4.597	233.2	32.08	19.26	29.21	0
8/30/2018 12:45	4.645	247.4	33.59	19.11	29.21	0
8/30/2018 13:00	6.492	237.2	25.75	19.59	29.21	0
8/30/2018 13:15	6.844	215	25.24	20.47	29.21	0
8/30/2018 13:30	6.314	201.4	28.12	20.88	29.21	0
8/30/2018 13:45	6.023	239.8	32.74	20.68	29.21	0
8/30/2018 14:00	8.6	252.3	18.83	20.09	29.23	0
8/30/2018 14:15	8.52	271.3	15.75	20.65	29.23	0
8/30/2018 14:30	8.23	239.1	23.59	20.62	29.23	0
8/30/2018 14:45	7.884	226.7	25.34	20.51	29.23	0
8/30/2018 15:00	7.297	200.2	28.4	20.97	29.22	0
8/30/2018 15:15	5.332	218.7	23.89	20.92	29.22	0
8/30/2018 15:30	6.186	264.4	39.49	20.88	29.22	0

8/30/2018 15:45	7.609	260.2	19.79	21.78	29.22	0
8/30/2018 16:00	7.954	225.2	20.88	21.71	29.21	0
8/30/2018 16:15	11	261.5	13.19	21.64	29.21	0
8/30/2018 16:30	9.88	247.3	14.05	21.55	29.21	0
8/30/2018 16:45	11.01	273	14.79	21.09	29.21	0
8/30/2018 17:00	10.23	275.8	11.93	20.35	29.21	0
8/30/2018 17:15	9.91	266.6	10.52	20.02	29.21	0
8/30/2018 17:30	8.72	258.2	11.75	19.85	29.21	0
8/30/2018 17:45	9.75	247.1	12.18	19.5	29.21	0
8/30/2018 18:00	9.56	238.4	8.86	19.29	29.21	0
8/30/2018 18:15	8.1	238	9.75	19.13	29.21	0
8/30/2018 18:30	6.801	251.4	12.51	18.86	29.21	0
8/30/2018 18:45	5.328	261	13.49	18.72	29.21	0
8/30/2018 19:00	5.054	259.3	13.73	18.68	29.24	0
8/30/2018 19:15	5.721	263.8	16.72	18.52	29.24	0
8/30/2018 19:30	8.53	252.3	10.12	18.3	29.24	0
8/30/2018 19:45	5.252	256.6	10.18	18.15	29.24	0
8/30/2018 20:00	6.217	250.2	8.96	18.08	29.23	0
8/30/2018 20:15	7.829	255.8	10.85	17.88	29.23	0
8/30/2018 20:30	9.24	249.4	9.7	17.55	29.23	0
8/30/2018 20:45	9.91	242.3	9.81	17.26	29.23	0
8/30/2018 21:00	11.11	229	6.977	16.96	29.24	0
8/30/2018 21:15	10.37	222.9	10.79	16.66	29.24	0
8/30/2018 21:30	8.37	224.9	10.65	16.5	29.24	0
8/30/2018 21:45	9.41	237.7	10.52	16.26	29.24	0
8/30/2018 22:00	7.398	250.8	11.23	16.2	29.25	0
8/30/2018 22:15	4.507	251.6	15.29	16.21	29.25	0
8/30/2018 22:30	5.312	205.7	13.64	16.22	29.25	0
8/30/2018 22:45	6.668	238.4	8.84	16.13	29.25	0
8/30/2018 23:00	4.632	240.9	6.563	16.02	29.27	0
8/30/2018 23:15	6.706	216.5	10.66	16.03	29.27	0
8/30/2018 23:30	7	209.8	12.54	15.99	29.27	0
8/30/2018 23:45	6.344	210.3	9.97	15.89	29.27	0
8/31/2018 0:00	5.366	195	9.14	15.76	29.26	0
8/31/2018 0:15	6.852	195.8	6.859	15.68	29.26	0
8/31/2018 0:30	6.157	193.7	12.52	15.54	29.26	0
8/31/2018 0:45	6.88	188.2	9.2	15.15	29.26	0
8/31/2018 1:00	5.691	183.5	14.26	14.81	29.27	0
8/31/2018 1:15	4.053	177.1	7.825	14.48	29.27	0
8/31/2018 1:30	3.776	170.6	7.546	14.35	29.27	0
8/31/2018 1:45	3.106	164.6	7.717	14.29	29.27	0
8/31/2018 2:00	3.521	160.7	6.791	14.29	29.26	0
8/31/2018 2:15	2.413	147.2	9.97	14.3	29.26	0
8/31/2018 2:30	2.144	145.4	7.87	14.31	29.26	0
8/31/2018 2:45	2.318	155.4	6.289	14.29	29.26	0
8/31/2018 3:00	2.945	172.2	10.94	14.33	29.26	0
8/31/2018 3:15	3.081	166.5	13.67	14.37	29.26	0

8/31/2018 3:30	4.269	172.8	10.75	14.45	29.26	0.01
8/31/2018 3:45	5.682	180.9	12.06	14.55	29.26	0
8/31/2018 4:00	7.666	203.4	8.41	14.62	29.26	0
8/31/2018 4:15	6.565	195.5	5.345	14.47	29.26	0
8/31/2018 4:30	6.847	196.3	7.398	14.57	29.26	0
8/31/2018 4:45	6.58	194.9	7.455	14.65	29.26	0
8/31/2018 5:00	7.135	203.4	9.94	14.74	29.27	0
8/31/2018 5:15	6.821	214.5	11.96	14.74	29.27	0
8/31/2018 5:30	8.95	218.2	7.97	14.59	29.27	0
8/31/2018 5:45	8.92	220.6	6.497	14.48	29.27	0
8/31/2018 6:00	6.68	218.3	8.96	14.46	29.3	0
8/31/2018 6:15	4.039	200.6	18.06	14.44	29.3	0
8/31/2018 6:30	5.484	197.3	14.66	14.42	29.3	0
8/31/2018 6:45	6.804	211.5	13.17	14.46	29.3	0
8/31/2018 7:00	7.616	224.1	8.67	14.39	29.32	0
8/31/2018 7:15	6.567	224	9.36	14.38	29.32	0
8/31/2018 7:30	6.94	220.2	11.13	14.38	29.32	0
8/31/2018 7:45	4.156	245.2	15.13	14.34	29.32	0
8/31/2018 8:00	5.74	231.4	18.45	14.26	29.33	0
8/31/2018 8:15	5.092	236.3	16.14	14.41	29.33	0
8/31/2018 8:30	3.211	255.9	23.28	14.56	29.33	0
8/31/2018 8:45	3.391	221.4	16.8	14.72	29.33	0
8/31/2018 9:00	7.713	183.2	9.99	14.91	29.32	0
8/31/2018 9:15	6.815	180.3	22.07	15.15	29.32	0
8/31/2018 9:30	10.12	200	9.67	15.34	29.32	0
8/31/2018 9:45	6.901	178.4	16.33	15.39	29.32	0
8/31/2018 10:00	6.143	172.3	22.23	15.5	29.36	0
8/31/2018 10:15	5.191	183.7	15.87	15.58	29.36	0
8/31/2018 10:30	4.397	190.7	22.57	15.83	29.36	0
8/31/2018 10:45	4.591	182.6	21.5	15.56	29.36	0
8/31/2018 11:00	4.148	164.1	33.86	15.66	29.34	0
8/31/2018 11:15	4.517	137.2	22.37	16.03	29.34	0
8/31/2018 11:30	6.492	139.6	20.82	16.12	29.34	0
8/31/2018 11:45	6.084	156.9	20.73	15.89	29.34	0
8/31/2018 12:00	5.953	152.9	17.36	16.32	29.33	0
8/31/2018 12:15	6.605	154.4	9.6	16.18	29.33	0
8/31/2018 12:30	6.059	141.2	19.63	16.62	29.33	0
8/31/2018 12:45	6.283	131.2	15.73	16.92	29.33	0
8/31/2018 13:00	6.212	144.2	15.61	16.94	29.34	0
8/31/2018 13:15	6.508	181.4	31.15	17.45	29.34	0
8/31/2018 13:30	7.951	208.9	16.14	17.57	29.34	0
8/31/2018 13:45	7.33	212.2	15.22	17.56	29.34	0
8/31/2018 14:00	7.166	223.1	21.26	17.8	29.35	0
8/31/2018 14:15	7.871	231	17.42	18.18	29.35	0
8/31/2018 14:30	7.743	211.1	27.43	18.33	29.35	0
8/31/2018 14:45	7.646	190.5	23.37	18.23	29.35	0
8/31/2018 15:00	7.917	208.6	18.75	17.96	29.32	0

8/31/2018 15:15	7.709	242.4	17.51	18.39	29.32	0
8/31/2018 15:30	6.73	226	23.57	18.25	29.32	0
8/31/2018 15:45	6.938	258.9	24.41	18.52	29.32	0
8/31/2018 16:00	7.193	256.1	21.11	18.88	29.3	0
8/31/2018 16:15	6.514	251.2	23.18	18.89	29.3	0
8/31/2018 16:30	7.696	246.2	14.13	18.64	29.3	0
8/31/2018 16:45	7.284	244.1	19.82	19.15	29.3	0
8/31/2018 17:00	9.64	243.4	15.06	18.75	29.28	0
8/31/2018 17:15	11.05	256.9	10.42	18.52	29.28	0
8/31/2018 17:30	11.95	250.8	7.011	17.95	29.28	0
8/31/2018 17:45	8.81	273.6	13.63	17.69	29.28	0
8/31/2018 18:00	6.66	289.4	10.64	17.39	29.3	0
8/31/2018 18:15	6.585	286	6.103	17.05	29.3	0
8/31/2018 18:30	4.428	283.3	4.704	16.78	29.3	0
8/31/2018 18:45	4.549	281.9	4.424	16.88	29.3	0
8/31/2018 19:00	4.733	279.3	4.99	16.97	29.3	0
8/31/2018 19:15	3.543	312.4	48.6	16.78	29.3	0
8/31/2018 19:30	3.007	34.78	2.194	15.88	29.3	0
8/31/2018 19:45	2.252	46.87	5.38	15.89	29.3	0
8/31/2018 20:00	2.523	75.25	14.27	15.97	29.31	0
8/31/2018 20:15	2.022	81.3	13.17	16.04	29.31	0
8/31/2018 20:30	0.692	70.48	0.546	16.12	29.31	0
8/31/2018 20:45	0.588	71.21	0.04	16	29.31	0
8/31/2018 21:00	1.529	144	54.11	15.98	29.27	0
8/31/2018 21:15	3.036	187	19.21	16.01	29.27	0
8/31/2018 21:30	4.118	52.96	57.23	15.51	29.27	0
8/31/2018 21:45	4.712	15.17	19.3	15.35	29.27	0
8/31/2018 22:00	3.155	35.08	14.73	15.24	29.3	0
8/31/2018 22:15	2.666	26.27	13.61	14.89	29.3	0
8/31/2018 22:30	1.479	29.43	22.97	14.82	29.3	0
8/31/2018 22:45	4.461	28.32	14.69	15.06	29.3	0
8/31/2018 23:00	5.613	21.91	12.82	14.8	29.29	0
8/31/2018 23:15	4.848	7.915	11.95	14.6	29.29	0
8/31/2018 23:30	7.491	17.92	9.59	14.44	29.29	0
8/31/2018 23:45	8.74	27.89	13.45	14.21	29.29	0
9/1/2018 0:00	6.756	37.3	15.86	14.06	29.28	0
9/1/2018 0:15	8.87	20.2	8.43	13.98	29.28	0
9/1/2018 0:30	6.529	34.45	9.58	13.93	29.28	0
9/1/2018 0:45	4.597	39.39	9.44	13.92	29.28	0
9/1/2018 1:00	4.034	29.46	8.51	13.85	29.29	0
9/1/2018 1:15	3.432	26.09	6.229	13.83	29.29	0
9/1/2018 1:30	1.452	25.35	1.927	13.78	29.29	0
9/1/2018 1:45	2.766	23.32	5.89	13.73	29.29	0
9/1/2018 2:00	4.401	22.22	9.43	13.64	29.29	0
9/1/2018 2:15	4.576	21.95	12.73	13.63	29.29	0
9/1/2018 2:30	3.161	21.79	13.27	13.74	29.29	0
9/1/2018 2:45	4.375	24.23	7.714	13.89	29.29	0

9/1/2018 3:00	3.732	54.81	18.66	13.93	29.29	0
9/1/2018 3:15	4.641	25.58	13.72	13.87	29.29	0
9/1/2018 3:30	4.756	27.51	8.3	13.81	29.29	0
9/1/2018 3:45	3.959	30.52	9.54	13.69	29.29	0
9/1/2018 4:00	4.614	18.55	7.955	13.61	29.28	0
9/1/2018 4:15	1.63	40.68	8	13.41	29.28	0
9/1/2018 4:30	0.54	54.52	10.07	13.21	29.28	0
9/1/2018 4:45	1.147	114.6	27.37	13.21	29.28	0
9/1/2018 5:00	3.014	180	10.32	12.96	29.28	0
9/1/2018 5:15	3.47	176.7	11.67	12.8	29.28	0
9/1/2018 5:30	5.21	191.9	5.565	12.77	29.28	0
9/1/2018 5:45	4.797	201.9	5.199	12.71	29.28	0
9/1/2018 6:00	3.26	196.4	6.05	12.67	29.32	0
9/1/2018 6:15	3.307	191.5	12.36	12.69	29.32	0
9/1/2018 6:30	3.811	202.4	14.5	12.72	29.32	0
9/1/2018 6:45	3.316	218.3	19.73	12.83	29.32	0
9/1/2018 7:00	2.747	221.2	11.95	12.97	29.33	0
9/1/2018 7:15	2.956	197.5	14.81	13.01	29.33	0
9/1/2018 7:30	3.807	170.7	15.6	13.06	29.33	0
9/1/2018 7:45	2.353	209.4	12.35	13.24	29.33	0
9/1/2018 8:00	1.13	231.1	20.75	13.65	29.33	0
9/1/2018 8:15	2.282	323.6	42.11	14.22	29.33	0
9/1/2018 8:30	4.46	39.51	37.11	14.63	29.33	0
9/1/2018 8:45	7.262	10.69	10.26	14.69	29.33	0
9/1/2018 9:00	7.713	1.922	11.07	14.98	29.33	0
9/1/2018 9:15	7.237	358.7	14.2	15.07	29.33	0
9/1/2018 9:30	5.416	30.27	39.94	15.19	29.33	0
9/1/2018 9:45	4.638	10.15	26.64	15.32	29.33	0
9/1/2018 10:00	4.901	10.76	22.28	15.39	29.33	0
9/1/2018 10:15	5.302	2.244	23.87	15.56	29.33	0
9/1/2018 10:30	5.66	347.2	20.79	16.18	29.33	0
9/1/2018 10:45	6.297	2.802	25.66	16.95	29.33	0
9/1/2018 11:00	4.934	325.8	34.05	16.68	29.34	0
9/1/2018 11:15	4.109	335.2	22.66	16.77	29.34	0
9/1/2018 11:30	3.67	334.4	39.26	17.17	29.34	0
9/1/2018 11:45	5.159	326.5	18.5	17.14	29.34	0
9/1/2018 12:00	5.195	309.9	29.38	17.4	29.31	0
9/1/2018 12:15	4.997	288.1	18.99	17.11	29.31	0
9/1/2018 12:30	4.423	287.7	37.12	18	29.31	0
9/1/2018 12:45	6.961	345.7	35.43	17.48	29.31	0
9/1/2018 13:00	4.333	325.9	25.84	17.95	29.33	0
9/1/2018 13:15	5.859	291.2	16.44	18.57	29.33	0
9/1/2018 13:30	7.963	313.8	16.67	18.52	29.33	0
9/1/2018 13:45	7.065	336	14.57	18.84	29.33	0
9/1/2018 14:00	2.91	318.4	67.1	18.92	29.32	0
9/1/2018 14:15	5.557	296.9	24.33	19.23	29.32	0
9/1/2018 14:30	5.96	332.8	32.45	19.38	29.32	0

9/1/2018 14:45	6.346	322.8	15.15	18.77	29.32	0
9/1/2018 15:00	6.434	302.8	13.79	19.83	29.3	0
9/1/2018 15:15	7.185	311.1	13.13	20.02	29.3	0
9/1/2018 15:30	5.513	310.4	18.31	20.14	29.3	0
9/1/2018 15:45	6.099	316.1	12.62	19.8	29.3	0
9/1/2018 16:00	6.662	311.6	12.8	20.06	29.29	0
9/1/2018 16:15	6.943	307.4	14.32	20.09	29.29	0
9/1/2018 16:30	5.752	319.2	18.51	20	29.29	0
9/1/2018 16:45	6.33	309.1	11.3	19.55	29.29	0
9/1/2018 17:00	6.578	321.4	17.24	19.88	29.28	0
9/1/2018 17:15	6.401	321.3	8.57	19.44	29.28	0
9/1/2018 17:30	6.537	325.7	8.18	18.97	29.28	0
9/1/2018 17:45	7.97	321.4	5.891	18.6	29.28	0
9/1/2018 18:00	6.795	320.6	5.196	18.18	29.28	0
9/1/2018 18:15	5.606	319.6	6.83	17.91	29.28	0
9/1/2018 18:30	3.23	325.5	7.473	17.94	29.28	0
9/1/2018 18:45	1.546	316.8	4.468	17.73	29.28	0
9/1/2018 19:00	1.241	311.1	6.876	17.56	29.27	0
9/1/2018 19:15	1.722	9.46	18.81	17.11	29.27	0
9/1/2018 19:30	3.613	12.64	14.45	16.72	29.27	0
9/1/2018 19:45	5.824	26.3	15.06	16.27	29.27	0
9/1/2018 20:00	6.261	28.68	12.62	15.77	29.29	0
9/1/2018 20:15	6.956	33.41	8.55	15.59	29.29	0
9/1/2018 20:30	7.693	26.8	10.45	15.51	29.29	0
9/1/2018 20:45	8.18	31.88	10.85	15.19	29.29	0
9/1/2018 21:00	7.504	25.49	9.33	15.09	29.29	0
9/1/2018 21:15	7.466	25.9	11.86	15.26	29.29	0
9/1/2018 21:30	8.6	30.35	10.63	14.86	29.29	0
9/1/2018 21:45	10.62	32.96	6.374	14.59	29.29	0
9/1/2018 22:00	9.6	31.11	4.833	14.17	29.27	0
9/1/2018 22:15	10.87	30.54	5.41	13.97	29.27	0
9/1/2018 22:30	13.1	28.6	4.454	13.82	29.27	0
9/1/2018 22:45	10.12	34.92	6.12	13.63	29.27	0
9/1/2018 23:00	10.27	37.12	7.704	13.24	29.29	0
9/1/2018 23:15	10.53	34.91	7.767	13.02	29.29	0
9/1/2018 23:30	11.33	31.7	7.196	13.2	29.29	0
9/1/2018 23:45	9.22	38.52	10.02	13.03	29.29	0
9/2/2018 0:00	8.03	44.41	7.365	12.61	29.3	0
9/2/2018 0:15	7.798	45.34	7.472	12.47	29.3	0
9/2/2018 0:30	8.55	43.73	6.05	12.28	29.3	0
9/2/2018 0:45	8.05	37.9	7.608	12.05	29.3	0
9/2/2018 1:00	7.781	49.26	10.89	11.71	29.28	0
9/2/2018 1:15	7.726	48.45	5.836	11.57	29.28	0
9/2/2018 1:30	6.086	50.45	8.39	11.69	29.28	0
9/2/2018 1:45	3.348	72	9.61	11.29	29.28	0
9/2/2018 2:00	1.694	57.02	14.69	11.15	29.3	0
9/2/2018 2:15	0.683	38.47	2.033	11.19	29.3	0

9/2/2018 2:30	2.067	49.05	6.905	10.72	29.3	0
9/2/2018 2:45	2.431	57.99	1.708	11.01	29.3	0
9/2/2018 3:00	0.123	58.38	0.33	11.53	29.29	0
9/2/2018 3:15	1.284	81.9	19.2	11.53	29.29	0
9/2/2018 3:30	2.076	98.3	5.096	10.73	29.29	0
9/2/2018 3:45	1.336	88.1	23.93	11.08	29.29	0
9/2/2018 4:00	0.596	80.2	13.07	11.26	29.28	0
9/2/2018 4:15	0.372	37.34	7.048	11.25	29.28	0
9/2/2018 4:30	0	0	0	10.77	29.28	0
9/2/2018 4:45	0	0	0	10.77	29.28	0
9/2/2018 5:00	0.01	346.6	4.366	10.8	29.29	0
9/2/2018 5:15	0.196	354.9	0.063	10.49	29.29	0
9/2/2018 5:30	0	0	0	10.57	29.29	0
9/2/2018 5:45	0.603	354.9	0.066	10.42	29.29	0
9/2/2018 6:00	2.146	33.02	90.6	10.6	29.31	0
9/2/2018 6:15	2.837	181.2	8.16	10.64	29.31	0
9/2/2018 6:30	2.332	171.7	6.15	10.64	29.31	0
9/2/2018 6:45	0.358	160.8	1.591	11.96	29.31	0
9/2/2018 7:00	0.436	108	1.502	12.35	29.31	0
9/2/2018 7:15	0.933	55.92	47.44	13.03	29.31	0
9/2/2018 7:30	1.912	316.5	17.8	12.69	29.31	0
9/2/2018 7:45	1.639	336.2	33.83	13.41	29.31	0
9/2/2018 8:00	2.614	31.52	29.36	13.68	29.31	0
9/2/2018 8:15	0.936	137.8	56.41	14.7	29.31	0
9/2/2018 8:30	2.171	281.9	30.54	14.54	29.31	0
9/2/2018 8:45	3.021	270.6	26.07	14.68	29.31	0
9/2/2018 9:00	3.582	307.9	14.89	15.11	29.3	0
9/2/2018 9:15	3.061	289.5	37.49	15.68	29.3	0
9/2/2018 9:30	3.778	319	41.96	16.3	29.3	0
9/2/2018 9:45	3.102	21.41	24.65	16.69	29.3	0
9/2/2018 10:00	2.674	348.3	59.48	17.82	29.3	0
9/2/2018 10:15	2.945	306	49.62	17.86	29.3	0
9/2/2018 10:30	5.889	302.6	24.93	18.47	29.3	0
9/2/2018 10:45	6.373	303.1	26.51	18.63	29.3	0
9/2/2018 11:00	6.136	271.6	21.53	18.81	29.29	0
9/2/2018 11:15	7.576	266.1	18.86	19.24	29.29	0
9/2/2018 11:30	9.3	262	18.59	19.09	29.29	0
9/2/2018 11:45	8.39	274.9	19.1	19.97	29.29	0
9/2/2018 12:00	8.89	263	21.67	19.56	29.28	0
9/2/2018 12:15	7.936	295	35.79	20.48	29.28	0
9/2/2018 12:30	6.075	328.3	37.72	20.98	29.28	0
9/2/2018 12:45	4.971	321.3	25.78	21.35	29.28	0
9/2/2018 13:00	6.624	29.06	26.03	21.49	29.27	0
9/2/2018 13:15	6.729	5.965	33.65	21.89	29.27	0
9/2/2018 13:30	4.525	343.1	35.41	21.87	29.27	0
9/2/2018 13:45	6.682	37.03	13.81	22.02	29.27	0
9/2/2018 14:00	6.872	6.364	23.12	22.32	29.24	0

9/2/2018 14:15	6.524	334.5	26.27	22.44	29.24	0
9/2/2018 14:30	6.026	356.6	31.59	22.64	29.24	0
9/2/2018 14:45	6.659	350.3	33.79	22.81	29.24	0
9/2/2018 15:00	6.877	9.56	30.85	22.88	29.25	0
9/2/2018 15:15	8.24	29.35	13.53	22.49	29.25	0
9/2/2018 15:30	8.55	32.7	17.87	22.54	29.25	0
9/2/2018 15:45	7.949	23.75	21.39	22.65	29.25	0
9/2/2018 16:00	6.421	5.564	29.42	22.81	29.21	0
9/2/2018 16:15	7.57	21.09	20.23	22.42	29.21	0
9/2/2018 16:30	7.672	3.174	21.94	22.41	29.21	0
9/2/2018 16:45	6.949	341.7	24.35	22.61	29.21	0
9/2/2018 17:00	8.44	332.4	22.59	22.5	29.22	0
9/2/2018 17:15	5.876	9.37	16.77	22.14	29.22	0
9/2/2018 17:30	6.174	15.48	16.75	21.82	29.22	0
9/2/2018 17:45	8.34	359.8	20.35	21.53	29.22	0
9/2/2018 18:00	8.59	334.8	9.5	21.32	29.22	0
9/2/2018 18:15	8.01	339.8	11.65	20.91	29.22	0
9/2/2018 18:30	6.046	350	8.68	20.37	29.22	0
9/2/2018 18:45	7.203	358.2	10.2	20.14	29.22	0
9/2/2018 19:00	8.68	18.99	10.04	19.47	29.22	0
9/2/2018 19:15	5.967	26.72	10	18.82	29.22	0
9/2/2018 19:30	5.717	32.31	16.44	18.58	29.22	0
9/2/2018 19:45	6.474	26.01	16.48	18.19	29.22	0
9/2/2018 20:00	8.37	18.03	13.77	17.75	29.22	0
9/2/2018 20:15	9.24	31.61	13.68	17.22	29.22	0
9/2/2018 20:30	12.69	26.58	11.67	16.84	29.22	0
9/2/2018 20:45	12.88	38.2	13.76	16.82	29.22	0
9/2/2018 21:00	14.38	34.28	11.24	16.74	29.22	0
9/2/2018 21:15	17.39	30.66	10.57	16.73	29.22	0
9/2/2018 21:30	16.59	30.26	10.96	16.6	29.22	0
9/2/2018 21:45	17.18	33.13	12.88	16.43	29.22	0
9/2/2018 22:00	14.28	28.33	10.89	16.32	29.21	0
9/2/2018 22:15	17.48	30.75	10.36	16.47	29.21	0
9/2/2018 22:30	15.17	20.93	12.71	16.42	29.21	0
9/2/2018 22:45	14.63	35.94	12.34	16.54	29.21	0
9/2/2018 23:00	15.82	34.92	13.15	16.57	29.22	0
9/2/2018 23:15	12.73	41.43	12.31	16.43	29.22	0
9/2/2018 23:30	11.09	54.48	13.32	16.47	29.22	0
9/2/2018 23:45	9.62	61.22	15.95	16.4	29.22	0
9/3/2018 0:00	8.77	46.34	18.04	16.45	29.24	0
9/3/2018 0:15	6.5	56.31	21.81	16.31	29.24	0
9/3/2018 0:30	7.847	59.95	23.41	16.15	29.24	0
9/3/2018 0:45	11.22	35.08	12.82	16.04	29.24	0
9/3/2018 1:00	10.23	39.18	14.26	15.75	29.23	0
9/3/2018 1:15	10.72	45.61	13.28	15.61	29.23	0
9/3/2018 1:30	6.546	52.29	21.72	15.45	29.23	0
9/3/2018 1:45	5.817	61.84	27.3	15.31	29.23	0

9/3/2018 2:00	4.915	84.7	30.92	15.12	29.25	0
9/3/2018 2:15	3.57	88.4	36.76	15.11	29.25	0
9/3/2018 2:30	2.648	55.99	35.94	14.98	29.25	0
9/3/2018 2:45	7.794	29.48	32.52	14.73	29.25	0
9/3/2018 3:00	3.292	305.7	59.49	14.64	29.27	0
9/3/2018 3:15	6.005	336.6	28.1	14.48	29.27	0
9/3/2018 3:30	3.197	282.7	49.88	14.36	29.27	0
9/3/2018 3:45	3.196	294.9	41.85	14.48	29.27	0
9/3/2018 4:00	3.141	283.2	42.93	14.58	29.27	0
9/3/2018 4:15	5.146	298.1	28.16	14.66	29.27	0
9/3/2018 4:30	4.973	298.6	21.45	14.72	29.27	0
9/3/2018 4:45	2.754	280.5	34.68	14.87	29.27	0
9/3/2018 5:00	2.283	317.3	42.07	14.86	29.28	0
9/3/2018 5:15	2.223	27.73	56.13	14.73	29.28	0
9/3/2018 5:30	2.781	9.3	61.08	14.63	29.28	0
9/3/2018 5:45	2.662	343.1	23.23	14.45	29.28	0
9/3/2018 6:00	4.679	342	34.17	14.53	29.29	0
9/3/2018 6:15	3.981	345.5	27.69	14.65	29.29	0
9/3/2018 6:30	6.02	12.95	21.06	14.64	29.29	0
9/3/2018 6:45	7.925	12.64	11.62	14.6	29.29	0
9/3/2018 7:00	8.5	23.87	16.57	14.6	29.31	0
9/3/2018 7:15	9.27	28.47	11.68	14.6	29.31	0
9/3/2018 7:30	11.59	28.04	11.31	14.71	29.31	0
9/3/2018 7:45	11.31	27.03	10.13	14.84	29.31	0
9/3/2018 8:00	11.03	25.12	8.6	15.1	29.31	0
9/3/2018 8:15	9.02	19.5	12.46	15.22	29.31	0
9/3/2018 8:30	10.09	27.36	8.89	15.51	29.31	0
9/3/2018 8:45	9.81	19.38	15.05	15.81	29.31	0
9/3/2018 9:00	10.61	33.29	12.86	15.69	29.33	0
9/3/2018 9:15	8.22	39.34	10.59	16.05	29.33	0
9/3/2018 9:30	5.824	40.54	13.33	16.77	29.33	0
9/3/2018 9:45	6.678	30.68	21.38	16.82	29.33	0
9/3/2018 10:00	5.703	38.28	34.63	17.47	29.34	0
9/3/2018 10:15	7.472	328.8	23.9	17.77	29.34	0
9/3/2018 10:30	8.41	310	13	17.94	29.34	0
9/3/2018 10:45	4.154	322.6	27.33	17.41	29.34	0
9/3/2018 11:00	6.487	317	20.58	18.26	29.33	0
9/3/2018 11:15	5.688	311	25.45	18.42	29.33	0
9/3/2018 11:30	5.008	347.9	28.26	18.48	29.33	0
9/3/2018 11:45	7.249	290.2	27.23	19.44	29.33	0
9/3/2018 12:00	7.055	302.9	22.88	19.56	29.32	0
9/3/2018 12:15	8.48	303.6	25.64	20.46	29.32	0
9/3/2018 12:30	8.18	287.1	16.59	20.28	29.32	0
9/3/2018 12:45	9.19	297.1	24.55	20.74	29.32	0
9/3/2018 13:00	9.4	303.8	18.47	20.66	29.31	0
9/3/2018 13:15	8.86	306.2	19.71	20.48	29.31	0
9/3/2018 13:30	9.76	295.6	20.65	20.76	29.31	0

9/3/2018 13:45	8.89	287.4	15.01	20.77	29.31	0
9/3/2018 14:00	8.72	289.6	20.49	21.08	29.3	0
9/3/2018 14:15	10.26	298.8	17.52	21.14	29.3	0
9/3/2018 14:30	10.25	272	24.71	21.24	29.3	0
9/3/2018 14:45	7.668	275.5	16.61	21.14	29.3	0
9/3/2018 15:00	8.55	275.4	14.27	21.15	29.28	0
9/3/2018 15:15	7.318	280.9	17.23	21.27	29.28	0
9/3/2018 15:30	7.315	287	18.16	21.08	29.28	0
9/3/2018 15:45	7.027	321.2	21.78	21.21	29.28	0
9/3/2018 16:00	6.409	342.7	19.38	21.01	29.27	0
9/3/2018 16:15	6.582	293	14.77	21.17	29.27	0
9/3/2018 16:30	4.739	269.9	16	21.11	29.27	0
9/3/2018 16:45	5.728	320	22.33	21.26	29.27	0
9/3/2018 17:00	5.531	303.4	18.91	21.03	29.26	0
9/3/2018 17:15	5.306	316.9	19.1	20.78	29.26	0
9/3/2018 17:30	5.404	311.8	14.4	20.84	29.26	0
9/3/2018 17:45	5.649	313.3	8.86	20.69	29.26	0
9/3/2018 18:00	5.746	308.9	8.54	20.42	29.27	0
9/3/2018 18:15	7.279	305.1	5.038	19.94	29.27	0
9/3/2018 18:30	7.225	312.8	7.341	19.39	29.27	0
9/3/2018 18:45	7.707	325.4	3.884	18.62	29.27	0
9/3/2018 19:00	6.856	324.5	2.871	18.04	29.28	0
9/3/2018 19:15	8.06	334.9	7.95	17.8	29.28	0
9/3/2018 19:30	9.15	344.8	14.59	17.73	29.28	0
9/3/2018 19:45	8.69	6.535	14.85	17.52	29.28	0
9/3/2018 20:00	8.2	15.05	12.59	17.24	29.29	0
9/3/2018 20:15	6.915	25.31	13.17	16.68	29.29	0
9/3/2018 20:30	9.26	29.3	8.61	16.38	29.29	0
9/3/2018 20:45	9.83	31.24	9.49	16.28	29.29	0
9/3/2018 21:00	6.738	43.09	11.62	15.85	29.27	0
9/3/2018 21:15	7.013	31.03	17.05	15.9	29.27	0
9/3/2018 21:30	6.096	38.18	13.21	15.52	29.27	0
9/3/2018 21:45	4.71	35.47	11.89	15.38	29.27	0
9/3/2018 22:00	3.827	47.7	17.22	15.52	29.28	0
9/3/2018 22:15	3.819	52.09	13.11	15.09	29.28	0
9/3/2018 22:30	3.973	54.13	20.04	14.87	29.28	0
9/3/2018 22:45	4.191	54.58	16.6	14.81	29.28	0
9/3/2018 23:00	6.947	45.72	12.28	14.87	29.27	0
9/3/2018 23:15	6.88	41.72	11.95	14.59	29.27	0
9/3/2018 23:30	4.619	60.55	14.91	14.38	29.27	0
9/3/2018 23:45	5.789	43.44	10.53	13.92	29.27	0
9/4/2018 0:00	6.636	49.1	7.937	13.86	29.28	0
9/4/2018 0:15	7.492	53.39	8.41	13.64	29.28	0
9/4/2018 0:30	8.93	50.49	7.938	13.64	29.28	0
9/4/2018 0:45	6.978	53.63	7.274	13.28	29.28	0
9/4/2018 1:00	6.178	59.17	7.344	12.68	29.3	0
9/4/2018 1:15	5.874	56.13	8.88	12.4	29.3	0

9/4/2018 1:30	4.028	58.29	14.27	12.31	29.3	0
9/4/2018 1:45	4.231	38.44	8.5	12.18	29.3	0
9/4/2018 2:00	3.893	53.73	6.882	11.97	29.28	0
9/4/2018 2:15	2.731	51.97	7.182	11.67	29.28	0
9/4/2018 2:30	4.665	66.23	9.61	10.9	29.28	0
9/4/2018 2:45	3.435	75.5	14.25	11.02	29.28	0
9/4/2018 3:00	1.606	71.64	13.85	11.25	29.29	0
9/4/2018 3:15	1.319	5.692	19.65	11.51	29.29	0
9/4/2018 3:30	1.513	356.1	13.61	11.63	29.29	0
9/4/2018 3:45	3.294	15.32	10.92	11.56	29.29	0
9/4/2018 4:00	4.623	40.05	8.73	10.9	29.29	0
9/4/2018 4:15	3.999	41.12	7.36	10.36	29.29	0
9/4/2018 4:30	3.369	35.61	9.58	9.86	29.29	0
9/4/2018 4:45	3.76	13.23	6.625	10.12	29.29	0
9/4/2018 5:00	2.645	356.7	9.68	10.22	29.3	0
9/4/2018 5:15	2.372	30.25	10.11	10.24	29.3	0
9/4/2018 5:30	2.355	38.06	4.223	10.12	29.3	0
9/4/2018 5:45	2.216	63.13	4.388	10.48	29.3	0
9/4/2018 6:00	0.993	61.58	0.148	10.92	29.32	0
9/4/2018 6:15	2.151	61.05	3.24	11.45	29.32	0
9/4/2018 6:30	1.649	50.19	9.19	11.89	29.32	0
9/4/2018 6:45	1.883	51.84	10.46	11.65	29.32	0
9/4/2018 7:00	2.064	59.86	3.003	11.53	29.33	0
9/4/2018 7:15	2.184	38.12	12.84	11.85	29.33	0
9/4/2018 7:30	0.341	42.84	1.014	12.94	29.33	0
9/4/2018 7:45	1.19	51.91	9.24	13.79	29.33	0
9/4/2018 8:00	1.782	112.2	53.97	13.93	29.33	0
9/4/2018 8:15	3.275	201.8	16.83	13.65	29.33	0
9/4/2018 8:30	2.607	229.5	27.69	14.02	29.33	0
9/4/2018 8:45	1.034	282.2	24.39	14.8	29.33	0
9/4/2018 9:00	2.052	268.5	20.68	15.29	29.3	0
9/4/2018 9:15	3.178	53.37	31.42	15.72	29.3	0
9/4/2018 9:30	3.426	39.54	23.25	15.96	29.3	0
9/4/2018 9:45	3.644	42.55	31.69	16.62	29.3	0
9/4/2018 10:00	3.713	42.49	18.39	17.26	29.31	0
9/4/2018 10:15	3.606	55.2	22.99	17.6	29.31	0
9/4/2018 10:30	2.863	0.252	41.53	18.56	29.31	0
9/4/2018 10:45	4.244	17.07	22.36	18.2	29.31	0
9/4/2018 11:00	5.715	44.01	17.77	18.47	29.3	0
9/4/2018 11:15	5.127	13.63	39.56	19.42	29.3	0
9/4/2018 11:30	5.989	3.723	34.66	19.78	29.3	0
9/4/2018 11:45	6.23	358.5	30.82	19.87	29.3	0
9/4/2018 12:00	6.47	351.6	29.29	20.48	29.28	0
9/4/2018 12:15	4.625	340	37.55	20.39	29.28	0
9/4/2018 12:30	5.311	344.2	28.86	20.91	29.28	0
9/4/2018 12:45	6.477	14.45	28.37	21.11	29.28	0
9/4/2018 13:00	6.384	11.65	26.35	21.51	29.25	0

9/4/2018 13:15	6.572	352.7	28.17	21.83	29.25	0
9/4/2018 13:30	6.135	339.2	38.08	22.27	29.25	0
9/4/2018 13:45	5.208	330.8	21.43	22.4	29.25	0
9/4/2018 14:00	6.291	342	23.29	22.96	29.24	0
9/4/2018 14:15	8.73	24.76	15.95	22.59	29.24	0
9/4/2018 14:30	11.01	36.15	9.9	22.51	29.24	0
9/4/2018 14:45	11	29.74	11.33	22.55	29.24	0
9/4/2018 15:00	11.24	33.16	9.11	22.63	29.21	0
9/4/2018 15:15	8.73	11.72	24.03	23.24	29.21	0
9/4/2018 15:30	10.29	4.942	14.94	23.07	29.21	0
9/4/2018 15:45	9.46	13.23	13.23	23.03	29.21	0
9/4/2018 16:00	8.91	18.38	17.32	23.13	29.22	0
9/4/2018 16:15	9.77	356.5	12.21	23.02	29.22	0
9/4/2018 16:30	8.8	353	13.03	22.95	29.22	0
9/4/2018 16:45	9.25	344	26.98	22.72	29.22	0
9/4/2018 17:00	7.85	322.6	10.4	22.77	29.21	0
9/4/2018 17:15	7.709	321.9	8.26	22.61	29.21	0
9/4/2018 17:30	7.654	321.6	9.57	22.45	29.21	0
9/4/2018 17:45	6.708	327.8	8.4	22.26	29.21	0
9/4/2018 18:00	6.34	343.3	13.68	21.86	29.19	0
9/4/2018 18:15	5.625	336.5	17.56	21.5	29.19	0
9/4/2018 18:30	4.484	7.681	16.01	21.09	29.19	0
9/4/2018 18:45	7.937	12.26	13.59	20.58	29.19	0
9/4/2018 19:00	5.654	0.303	19.39	20.21	29.18	0
9/4/2018 19:15	5.046	348.2	13.57	19.86	29.18	0
9/4/2018 19:30	6.203	3.159	12.61	19.53	29.18	0
9/4/2018 19:45	4.545	24.26	10.91	18.97	29.18	0
9/4/2018 20:00	5.561	22.52	8.62	18.5	29.21	0
9/4/2018 20:15	5.428	16.65	12.63	18.21	29.21	0
9/4/2018 20:30	8.67	22.22	9.41	18.2	29.21	0
9/4/2018 20:45	10.49	24.5	8.83	18.05	29.21	0
9/4/2018 21:00	8.64	25.31	11.07	17.78	29.21	0
9/4/2018 21:15	11.28	20.15	8.81	17.4	29.21	0
9/4/2018 21:30	13.34	9.58	9.18	17.48	29.21	0
9/4/2018 21:45	14.01	5.903	9.91	17.38	29.21	0
9/4/2018 22:00	12.27	9.02	10.87	17.22	29.18	0
9/4/2018 22:15	12.04	19.6	7.989	16.98	29.18	0
9/4/2018 22:30	13.42	11.45	9.37	16.89	29.18	0
9/4/2018 22:45	13.24	14.15	7.757	16.79	29.18	0
9/4/2018 23:00	9.42	23.4	9.64	16.35	29.18	0
9/4/2018 23:15	9.34	33.05	5.859	15.38	29.18	0
9/4/2018 23:30	8.85	34.64	7.536	15.28	29.18	0
9/4/2018 23:45	8.72	39.28	9.08	14.87	29.18	0
9/5/2018 0:00	10.39	40.98	9.41	14.87	29.17	0
9/5/2018 0:15	9.74	41.01	9.45	14.64	29.17	0
9/5/2018 0:30	8.76	39.53	8.79	14.42	29.17	0
9/5/2018 0:45	7.612	40.4	8.65	14.23	29.17	0

9/5/2018 1:00	6.748	31.86	6.073	14.18	29.17	0
9/5/2018 1:15	4.632	29.35	4.298	13.66	29.17	0
9/5/2018 1:30	3.277	29.78	3.391	13.66	29.17	0
9/5/2018 1:45	3.177	29.28	3.897	13.62	29.17	0
9/5/2018 2:00	4.156	22.73	4.615	13.78	29.18	0
9/5/2018 2:15	3.757	31.55	9.61	13.6	29.18	0
9/5/2018 2:30	3.38	37.01	4.025	13.24	29.18	0
9/5/2018 2:45	3.041	43.17	7.568	13.29	29.18	0
9/5/2018 3:00	3.746	50.15	4.003	12.96	29.17	0
9/5/2018 3:15	4.414	42.97	9.57	12.76	29.17	0
9/5/2018 3:30	5.236	58.96	7.574	12.95	29.17	0
9/5/2018 3:45	5.553	36.22	12.83	11.96	29.17	0
9/5/2018 4:00	3.59	25.37	4.292	11.39	29.17	0
9/5/2018 4:15	4.124	34.04	4.401	11.53	29.17	0
9/5/2018 4:30	4.996	27.61	7.885	11.73	29.17	0
9/5/2018 4:45	4.915	25.53	5.671	11.92	29.17	0
9/5/2018 5:00	4.674	36.99	8.18	11.56	29.16	0
9/5/2018 5:15	6.212	27.79	9.64	10.91	29.16	0
9/5/2018 5:30	5.157	27.67	7.811	10.93	29.16	0
9/5/2018 5:45	4.55	32.48	5.765	11.17	29.16	0
9/5/2018 6:00	3.699	42.97	9.12	11.59	29.17	0
9/5/2018 6:15	4.425	46.45	8.4	11.39	29.17	0
9/5/2018 6:30	5.177	38.75	4.465	11.37	29.17	0
9/5/2018 6:45	6.418	51.1	11.28	11.66	29.17	0
9/5/2018 7:00	3.533	57.1	7.791	11.22	29.19	0
9/5/2018 7:15	2.519	17.92	23.1	12.66	29.19	0
9/5/2018 7:30	3.187	8.66	7.847	14.1	29.19	0
9/5/2018 7:45	2.697	29.04	17.05	14.58	29.19	0
9/5/2018 8:00	0.599	37.7	8.62	14.79	29.19	0
9/5/2018 8:15	2.215	71.72	12.37	14.96	29.19	0
9/5/2018 8:30	2.565	57.95	15.57	15.09	29.19	0
9/5/2018 8:45	1.921	46.43	15.78	16.09	29.19	0
9/5/2018 9:00	1.633	89	19.6	17.74	29.18	0
9/5/2018 9:15	1.226	206.7	80.9	18.04	29.18	0
9/5/2018 9:30	2.039	253.7	22.63	18.37	29.18	0
9/5/2018 9:45	1.2	293.6	28.95	19.52	29.18	0
9/5/2018 10:00	3.641	37.05	41.33	19.89	29.18	0
9/5/2018 10:15	4.639	33.67	18.34	19.8	29.18	0
9/5/2018 10:30	5.701	49.09	14.36	20.54	29.18	0
9/5/2018 10:45	6.754	36.03	14.08	20.93	29.18	0
9/5/2018 11:00	6.923	37.73	12.95	21.48	29.18	0
9/5/2018 11:15	5.329	42.16	14.3	21.96	29.18	0
9/5/2018 11:30	5.755	42.74	15.91	22.53	29.18	0
9/5/2018 11:45	6.174	34.37	13.21	22.87	29.18	0
9/5/2018 12:00	6.304	43	28.84	23.17	29.17	0
9/5/2018 12:15	6.797	51.91	15.62	23.4	29.17	0
9/5/2018 12:30	6.544	37.43	17.91	23.69	29.17	0

9/5/2018 12:45	7.446	53.95	15.25	24.37	29.17	0
9/5/2018 13:00	6.314	53.14	15.47	25.06	29.17	0
9/5/2018 13:15	6.136	27.95	26.65	25.45	29.17	0
9/5/2018 13:30	4.484	334.3	22.58	25.8	29.17	0
9/5/2018 13:45	4.802	345.6	19.14	26.11	29.17	0
9/5/2018 14:00	7.443	5.23	21.59	26.15	29.13	0
9/5/2018 14:15	7.542	18.81	24.09	26.4	29.13	0
9/5/2018 14:30	6.904	355.6	36.53	26.93	29.13	0
9/5/2018 14:45	7.682	17.38	18.17	26.77	29.13	0
9/5/2018 15:00	9.01	28.49	12.35	26.51	29.15	0
9/5/2018 15:15	9.52	30.25	11.25	26.52	29.15	0
9/5/2018 15:30	10.87	28.4	10.72	26.4	29.15	0
9/5/2018 15:45	9.07	18.49	11.78	26.67	29.15	0
9/5/2018 16:00	8.72	12.8	11.66	26.67	29.13	0
9/5/2018 16:15	9.08	14.27	11.19	26.55	29.13	0
9/5/2018 16:30	9.06	11.72	10.93	26.47	29.13	0
9/5/2018 16:45	8.52	12.3	14.42	26.28	29.13	0
9/5/2018 17:00	8.51	12.87	12.64	26.14	29.14	0
9/5/2018 17:15	8.43	13.06	10.5	25.89	29.14	0
9/5/2018 17:30	6.896	359.9	15.39	25.78	29.14	0
9/5/2018 17:45	5.831	354.4	18.98	25.46	29.14	0
9/5/2018 18:00	4.26	343.2	15.2	25.24	29.14	0
9/5/2018 18:15	4.594	348.1	14.58	24.73	29.14	0
9/5/2018 18:30	3.468	9.96	11.08	24.17	29.14	0
9/5/2018 18:45	3.919	22.68	11.94	23.16	29.14	0
9/5/2018 19:00	4.722	29.55	7.695	22.17	29.13	0
9/5/2018 19:15	5.2	27.52	12.02	22.23	29.13	0
9/5/2018 19:30	5.863	34.3	8.31	21.8	29.13	0
9/5/2018 19:45	6.138	35.32	9.54	21.44	29.13	0
9/5/2018 20:00	6.139	35.96	8.25	20.57	29.14	0
9/5/2018 20:15	5.999	46.24	4.591	20	29.14	0
9/5/2018 20:30	7.37	43.79	5.744	19.8	29.14	0
9/5/2018 20:45	7.543	40.74	4.67	19.48	29.14	0
9/5/2018 21:00	7.723	35.49	6.132	19.39	29.18	0
9/5/2018 21:15	5.413	34.81	5.773	18.97	29.18	0
9/5/2018 21:30	4.966	27.02	5.76	18.51	29.18	0
9/5/2018 21:45	4.012	38.87	12.8	18.12	29.18	0
9/5/2018 22:00	5.774	49.37	5.627	18.01	29.19	0
9/5/2018 22:15	7.209	56.84	5.737	17.91	29.19	0
9/5/2018 22:30	6.095	56.13	5.091	18.28	29.19	0
9/5/2018 22:45	4.642	110.8	30.02	18.41	29.19	0
9/5/2018 23:00	3.329	138.5	7.444	19.17	29.19	0
9/5/2018 23:15	0.476	117.4	0.804	18.65	29.19	0
9/5/2018 23:30	1.416	96.3	12.69	17.79	29.19	0
9/5/2018 23:45	2.285	79.74	1.916	17.23	29.19	0
9/6/2018 0:00	1.114	69.51	11.31	17.9	29.17	0
9/6/2018 0:15	1.478	41.94	3.946	17.93	29.17	0

9/6/2018 0:30	0.298	39.29	0.603	16.95	29.17	0
9/6/2018 0:45	0.475	43.03	1.563	17.61	29.17	0
9/6/2018 1:00	0.015	45.09	0.006	17.82	29.2	0
9/6/2018 1:15	0.286	45.05	0.105	17.78	29.2	0
9/6/2018 1:30	0.983	169	40.54	17.22	29.2	0
9/6/2018 1:45	0.153	185	0.068	16.91	29.2	0
9/6/2018 2:00	0.478	175.2	0.946	16.65	29.2	0
9/6/2018 2:15	1.247	291.3	66.83	16.62	29.2	0
9/6/2018 2:30	1.659	331.1	0.166	16.79	29.2	0
9/6/2018 2:45	0.602	331.1	0.17	16.89	29.2	0
9/6/2018 3:00	0.103	331.1	0.046	16.53	29.19	0
9/6/2018 3:15	0.957	330.6	0.207	16.29	29.19	0
9/6/2018 3:30	1.282	330.4	0.179	16.91	29.19	0
9/6/2018 3:45	0.177	330.5	0.018	16.92	29.19	0
9/6/2018 4:00	0.166	331.2	0.08	16.13	29.2	0
9/6/2018 4:15	1.951	68.35	21.41	15.56	29.2	0
9/6/2018 4:30	2.211	122.2	26.05	16.25	29.2	0
9/6/2018 4:45	2.271	143.7	0.131	16.76	29.2	0
9/6/2018 5:00	1.43	143.9	0.276	16.2	29.21	0
9/6/2018 5:15	1.276	134.7	9.96	16.33	29.21	0
9/6/2018 5:30	0.591	123.2	0.126	15.69	29.21	0
9/6/2018 5:45	0.58	124.2	0.56	15.72	29.21	0
9/6/2018 6:00	0.329	124.6	0.1	16.45	29.23	0
9/6/2018 6:15	0.152	120.5	1.415	15.41	29.23	0
9/6/2018 6:30	0	0	0	15.64	29.23	0
9/6/2018 6:45	0.074	118.9	0.023	16.38	29.23	0
9/6/2018 7:00	0.119	119.1	0.067	17.41	29.23	0
9/6/2018 7:15	0.788	145.8	17.05	16.94	29.23	0
9/6/2018 7:30	1.938	134.5	17.68	17.51	29.23	0
9/6/2018 7:45	2.53	125.5	15.23	18.18	29.23	0
9/6/2018 8:00	3.19	72.32	29.39	18.73	29.22	0
9/6/2018 8:15	2.214	76.72	25.73	18.93	29.22	0
9/6/2018 8:30	2.176	166	31.95	20.22	29.22	0
9/6/2018 8:45	3.874	207.1	13.46	19.28	29.22	0
9/6/2018 9:00	2.731	199.9	34.95	20.21	29.24	0
9/6/2018 9:15	2.667	168.3	28.38	20.94	29.24	0
9/6/2018 9:30	3.139	237.5	24.8	21	29.24	0
9/6/2018 9:45	2.839	244	30.92	21.57	29.24	0
9/6/2018 10:00	3.237	228.2	21.07	22.05	29.24	0
9/6/2018 10:15	3.032	229.7	29.79	22.62	29.24	0
9/6/2018 10:30	2.832	268.8	44.95	23.26	29.24	0
9/6/2018 10:45	3.856	303.2	41.18	23.76	29.24	0
9/6/2018 11:00	4.875	250.2	16.59	23.77	29.24	0
9/6/2018 11:15	4.532	283.7	20.24	24.17	29.24	0
9/6/2018 11:30	4.485	285.9	40.6	24.87	29.24	0
9/6/2018 11:45	4.5	245.7	35.1	24.94	29.24	0
9/6/2018 12:00	4.818	253.9	26.85	25.18	29.23	0

9/6/2018 12:15	4.402	248.9	30.06	25.43	29.23	0
9/6/2018 12:30	4.042	286	32.69	25.66	29.23	0
9/6/2018 12:45	5.204	247.7	30	26.2	29.23	0
9/6/2018 13:00	3.877	287.5	62.81	26.55	29.21	0
9/6/2018 13:15	4.783	303.4	46.04	26.69	29.21	0
9/6/2018 13:30	5.194	264.8	19.51	27.03	29.21	0
9/6/2018 13:45	5.019	267.6	15.34	26.81	29.21	0
9/6/2018 14:00	5.997	272.2	25.87	27.38	29.2	0
9/6/2018 14:15	6.074	290.9	15.6	27.68	29.2	0
9/6/2018 14:30	5.817	273.5	23.99	27.39	29.2	0
9/6/2018 14:45	6.099	258.3	17.86	27.58	29.2	0
9/6/2018 15:00	5.445	276.8	16.85	27.65	29.19	0
9/6/2018 15:15	6.217	246.3	24.86	27.5	29.19	0
9/6/2018 15:30	6.4	248.4	16.66	27.67	29.19	0
9/6/2018 15:45	4.421	278.6	27.04	27.76	29.19	0
9/6/2018 16:00	5.423	265.7	22.71	27.87	29.19	0
9/6/2018 16:15	4.626	258	14.43	27.82	29.19	0
9/6/2018 16:30	4.315	276	18.9	27.85	29.19	0
9/6/2018 16:45	5.802	280.4	18.95	27.71	29.19	0
9/6/2018 17:00	6.372	247.2	20.84	27.55	29.19	0
9/6/2018 17:15	6.639	250.8	14.64	27.45	29.19	0
9/6/2018 17:30	6.269	243.6	10.32	27.18	29.19	0
9/6/2018 17:45	8.55	234.2	8.89	26.75	29.19	0
9/6/2018 18:00	5.938	256.6	7.819	26.51	29.21	0
9/6/2018 18:15	4.124	243.9	11.38	26.29	29.21	0
9/6/2018 18:30	6.897	255.7	10.77	25.63	29.21	0
9/6/2018 18:45	10.95	259.5	7.452	24.46	29.21	0
9/6/2018 19:00	10.27	262.1	5.835	23.72	29.21	0
9/6/2018 19:15	8.93	260.2	6.623	23.27	29.21	0
9/6/2018 19:30	7.769	254.6	7.894	22.54	29.21	0
9/6/2018 19:45	4.789	251.8	10.33	21.8	29.21	0
9/6/2018 20:00	2.628	247.1	18.96	21.41	29.26	0
9/6/2018 20:15	3.314	220.5	41.99	21.01	29.26	0
9/6/2018 20:30	3.66	183.8	14.25	20.51	29.26	0
9/6/2018 20:45	5.692	223.1	11.13	20.16	29.26	0
9/6/2018 21:00	5.767	205.9	15.1	19.84	29.26	0
9/6/2018 21:15	8.85	197.2	5.997	19.1	29.26	0
9/6/2018 21:30	8.21	195.2	6.418	18.4	29.26	0
9/6/2018 21:45	3.442	147.6	20.53	17.67	29.26	0
9/6/2018 22:00	2.802	142.2	7.209	17.7	29.29	0
9/6/2018 22:15	2.825	158.1	20.76	17.62	29.29	0
9/6/2018 22:30	4.422	228.6	22.61	16.98	29.29	0
9/6/2018 22:45	4.228	255.3	3.226	16.41	29.29	0
9/6/2018 23:00	4.414	239.4	4.305	16.34	29.29	0
9/6/2018 23:15	3.164	248.6	14.06	15.85	29.29	0
9/6/2018 23:30	3.534	222.4	8.87	15.83	29.29	0
9/6/2018 23:45	4.64	215.7	4.999	15.68	29.29	0

9/7/2018 0:00	4.042	219.7	2.067	15.37	29.3	0
9/7/2018 0:15	3.11	210.2	6.539	14.61	29.3	0
9/7/2018 0:30	3.374	184.6	7.502	14.45	29.3	0
9/7/2018 0:45	4.333	181	5.608	14.58	29.3	0
9/7/2018 1:00	4.805	188.8	6.374	14.36	29.3	0
9/7/2018 1:15	5.659	191.8	8.45	14.24	29.3	0
9/7/2018 1:30	6.076	193.7	7.916	13.78	29.3	0
9/7/2018 1:45	5.849	196.7	7.119	13.42	29.3	0
9/7/2018 2:00	6.535	193.7	4.791	13.08	29.29	0
9/7/2018 2:15	6.622	189.2	4.309	12.86	29.29	0
9/7/2018 2:30	5.864	193.2	4.123	12.8	29.29	0
9/7/2018 2:45	5.3	208.9	7.663	12.62	29.29	0
9/7/2018 3:00	4.978	205.4	3.309	12.53	29.32	0
9/7/2018 3:15	5.282	203.2	4.319	12.41	29.32	0
9/7/2018 3:30	5.524	211.2	5.67	12.31	29.32	0
9/7/2018 3:45	5.325	211.3	4.044	12.17	29.32	0
9/7/2018 4:00	4.8	189.3	8.84	11.71	29.3	0
9/7/2018 4:15	4.526	160.9	17.59	11.28	29.3	0
9/7/2018 4:30	4.602	167.6	13.42	10.85	29.3	0
9/7/2018 4:45	6.067	168.1	10.11	10.96	29.3	0
9/7/2018 5:00	6.389	152.7	5.582	10.85	29.29	0
9/7/2018 5:15	4.832	132.2	5.523	11.01	29.29	0
9/7/2018 5:30	4.975	137.5	6.597	11.23	29.29	0
9/7/2018 5:45	5.305	140.9	5.198	11.35	29.29	0
9/7/2018 6:00	5.959	150.5	4.998	11.16	29.29	0
9/7/2018 6:15	7.032	153.2	6.144	11.5	29.29	0
9/7/2018 6:30	5.82	142.1	8.51	11.99	29.29	0
9/7/2018 6:45	5.016	138.5	11.34	11.99	29.29	0
9/7/2018 7:00	5.129	128.4	8.3	12.3	29.31	0
9/7/2018 7:15	4.006	158.1	9.83	12.71	29.31	0
9/7/2018 7:30	1.933	186.9	34.24	13.24	29.31	0
9/7/2018 7:45	0.686	130.8	30.19	13.83	29.31	0
9/7/2018 8:00	1.377	217.9	52.95	14.27	29.3	0
9/7/2018 8:15	1.48	249.7	20.6	14.56	29.3	0
9/7/2018 8:30	2.462	248.5	28.97	14.73	29.3	0
9/7/2018 8:45	1.578	263.4	65.91	15.31	29.3	0
9/7/2018 9:00	1.911	243.1	53.77	16.16	29.27	0
9/7/2018 9:15	3.283	196.3	32.88	16.49	29.27	0
9/7/2018 9:30	4.3	233	26.03	16.58	29.27	0
9/7/2018 9:45	2.469	240.1	30.57	17.06	29.27	0
9/7/2018 10:00	1.981	224.2	66.45	17.61	29.27	0
9/7/2018 10:15	4.441	235	29.2	18.24	29.27	0
9/7/2018 10:30	3.227	198.8	61.24	18.78	29.27	0
9/7/2018 10:45	3.012	190.3	26.68	19.29	29.27	0
9/7/2018 11:00	1.813	228.7	45.35	19.68	29.25	0
9/7/2018 11:15	3.803	264.8	72.42	20.04	29.25	0
9/7/2018 11:30	5.105	277.6	31.04	20.52	29.25	0

9/7/2018 11:45	4.384	275.9	40.22	20.73	29.25	0
9/7/2018 12:00	4.578	273.9	35.92	21.68	29.22	0
9/7/2018 12:15	3.643	223.4	34.22	21.79	29.22	0
9/7/2018 12:30	2.693	258.8	23.62	22.27	29.22	0
9/7/2018 12:45	2.999	315.8	74.33	22.98	29.22	0
9/7/2018 13:00	4.301	293.9	57.76	22.73	29.18	0
9/7/2018 13:15	3.528	285	78.46	23.71	29.18	0
9/7/2018 13:30	6.787	276.5	29.73	23.79	29.18	0
9/7/2018 13:45	8.79	253.7	14.09	23.4	29.18	0
9/7/2018 14:00	10.78	277.5	8.17	23.4	29.18	0
9/7/2018 14:15	11.19	266.9	11.24	22.76	29.18	0
9/7/2018 14:30	9.66	260.1	8.98	22.46	29.18	0
9/7/2018 14:45	9.99	273.2	11.03	22.19	29.18	0
9/7/2018 15:00	9.41	277.8	9.63	21.75	29.18	0
9/7/2018 15:15	9.06	273.5	12.9	21.64	29.18	0
9/7/2018 15:30	5.752	272.2	19.31	21.59	29.18	0
9/7/2018 15:45	6.957	251.3	14.49	21.55	29.18	0
9/7/2018 16:00	5.9	248.9	16.6	21.38	29.2	0
9/7/2018 16:15	7.529	259.7	18.77	21.1	29.2	0
9/7/2018 16:30	8.29	278	7.918	20.63	29.2	0
9/7/2018 16:45	6.794	267.3	10.2	20.5	29.2	0
9/7/2018 17:00	5.174	256.7	12.96	20.45	29.2	0
9/7/2018 17:15	6.676	249.8	12.56	20.35	29.2	0
9/7/2018 17:30	9.56	252.9	9.13	19.89	29.2	0
9/7/2018 17:45	11.18	245.4	8.31	19.23	29.2	0
9/7/2018 18:00	8.86	225.3	10.09	18.88	29.24	0
9/7/2018 18:15	9.54	225.6	6.931	18.55	29.24	0
9/7/2018 18:30	9.92	228.9	9.35	18.16	29.24	0
9/7/2018 18:45	6.307	213.5	12.76	17.87	29.24	0
9/7/2018 19:00	5.823	235.6	12.18	17.78	29.25	0
9/7/2018 19:15	7.142	242.4	9.11	17.49	29.25	0
9/7/2018 19:30	6.883	238.9	12.32	16.98	29.25	0
9/7/2018 19:45	5.539	209.4	48.48	16.06	29.25	0.03
9/7/2018 20:00	4.293	121.6	12.3	14.68	29.26	0.01
9/7/2018 20:15	2.332	120.2	9.91	14.82	29.26	0
9/7/2018 20:30	4.629	127.7	6.038	14.91	29.26	0
9/7/2018 20:45	4.414	101.1	11.8	14.34	29.26	0
9/7/2018 21:00	5.562	99.5	7.684	14.1	29.21	0
9/7/2018 21:15	4.034	125.6	27.69	14.8	29.21	0
9/7/2018 21:30	6.951	280.6	6.971	14.73	29.21	0
9/7/2018 21:45	7.278	293.9	5.724	14.3	29.21	0
9/7/2018 22:00	6.123	310.5	6.154	13.98	29.22	0
9/7/2018 22:15	5.08	328.1	6.459	13.68	29.22	0
9/7/2018 22:30	5.263	322.8	5.106	13.46	29.22	0
9/7/2018 22:45	5.229	302.2	8.35	13.66	29.22	0
9/7/2018 23:00	1.994	306.3	6.029	14	29.24	0
9/7/2018 23:15	0.904	90.3	52.86	13.72	29.24	0

9/7/2018 23:30	3.189	150.2	19.12	13.72	29.24	0
9/7/2018 23:45	4.359	183.1	11.17	13.88	29.24	0
9/8/2018 0:00	4.268	164.2	10.43	13.71	29.27	0
9/8/2018 0:15	4.294	145.1	11.4	13.59	29.27	0
9/8/2018 0:30	4.373	125.2	5.255	13.57	29.27	0
9/8/2018 0:45	5.252	126.4	10.67	13.62	29.27	0
9/8/2018 1:00	5.592	148.5	9.03	13.74	29.27	0
9/8/2018 1:15	5.462	185.7	16.3	13.92	29.27	0
9/8/2018 1:30	6.135	159	8.23	13.78	29.27	0
9/8/2018 1:45	5.449	141.8	8.2	13.72	29.27	0
9/8/2018 2:00	4.629	142.2	6.602	13.83	29.27	0
9/8/2018 2:15	4.205	145.4	3.818	13.78	29.27	0
9/8/2018 2:30	4.953	146.7	4.263	13.74	29.27	0
9/8/2018 2:45	5.903	147.7	4.578	13.83	29.27	0
9/8/2018 3:00	5.737	149.4	4.011	13.84	29.27	0
9/8/2018 3:15	6.205	168.9	13.35	13.85	29.27	0.01
9/8/2018 3:30	6.381	186.4	9.59	13.73	29.27	0.04
9/8/2018 3:45	6.083	160.3	12.66	13.55	29.27	0.01
9/8/2018 4:00	5.538	162.2	13.18	13.44	29.26	0
9/8/2018 4:15	4.035	174.3	9.97	13.48	29.26	0
9/8/2018 4:30	3.043	163.7	14.41	13.51	29.26	0
9/8/2018 4:45	2.689	157.1	17.49	13.51	29.26	0
9/8/2018 5:00	1.809	131.3	16.4	13.63	29.26	0
9/8/2018 5:15	1.401	121	11.55	13.62	29.26	0.01
9/8/2018 5:30	4.377	149.2	14.81	13.63	29.26	0
9/8/2018 5:45	3.956	140.2	8.38	13.53	29.26	0
9/8/2018 6:00	4.652	142.3	4.82	13.45	29.25	0
9/8/2018 6:15	4.998	143	4.768	13.56	29.25	0
9/8/2018 6:30	5.731	146.3	5.34	13.55	29.25	0
9/8/2018 6:45	4.808	140.6	5.713	13.62	29.25	0
9/8/2018 7:00	4.931	137	8.99	13.74	29.27	0
9/8/2018 7:15	5.799	144.6	8.07	13.91	29.27	0
9/8/2018 7:30	5.321	143.2	8.68	14.08	29.27	0
9/8/2018 7:45	4.793	138.5	8.84	14.29	29.27	0
9/8/2018 8:00	5.228	140.7	15.81	14.45	29.28	0
9/8/2018 8:15	5.913	139.4	9.87	14.79	29.28	0
9/8/2018 8:30	5.936	150.2	8.88	14.97	29.28	0
9/8/2018 8:45	4.834	151.1	12.95	15.05	29.28	0
9/8/2018 9:00	5.043	163.1	18.8	15.31	29.27	0
9/8/2018 9:15	5.171	176.9	22.56	15.51	29.27	0
9/8/2018 9:30	4.465	172.2	20.38	15.74	29.27	0
9/8/2018 9:45	4.629	192	23.38	15.86	29.27	0
9/8/2018 10:00	4.404	185.3	20.74	16.07	29.28	0
9/8/2018 10:15	5.563	176.9	20.21	16.47	29.28	0
9/8/2018 10:30	5.182	173.7	23.45	17.25	29.28	0
9/8/2018 10:45	7.694	176.4	15.89	17.3	29.28	0
9/8/2018 11:00	6.783	189.5	13.57	17.08	29.27	0

9/8/2018 11:15	7.549	209.2	14.71	17.4	29.27	0
9/8/2018 11:30	6.707	236.1	32.53	17.46	29.27	0
9/8/2018 11:45	3.743	239.4	45.31	17.5	29.27	0
9/8/2018 12:00	6.913	278.5	13.05	16.97	29.27	0
9/8/2018 12:15	6.442	258.6	9.62	17.03	29.27	0
9/8/2018 12:30	7.174	260.1	7.659	16.83	29.27	0
9/8/2018 12:45	3.887	256.1	14.09	17.05	29.27	0
9/8/2018 13:00	3.315	237.2	38.86	17.33	29.27	0
9/8/2018 13:15	6.115	198.5	16.21	17.64	29.27	0
9/8/2018 13:30	6.628	201.5	17.67	17.8	29.27	0
9/8/2018 13:45	3.712	188.7	35.08	18.08	29.27	0
9/8/2018 14:00	3.577	215.7	37.83	18.24	29.27	0
9/8/2018 14:15	4.25	242	19.99	18.47	29.27	0
9/8/2018 14:30	2.495	202.6	58.69	18.96	29.27	0
9/8/2018 14:45	5.676	194	34.6	19.19	29.27	0
9/8/2018 15:00	7.642	228.7	12.55	18.98	29.24	0
9/8/2018 15:15	3.516	187	57.16	19.2	29.24	0
9/8/2018 15:30	4.795	185.7	31.76	19.5	29.24	0
9/8/2018 15:45	5.513	219.4	39.38	19.5	29.24	0
9/8/2018 16:00	6.008	247	21.01	19.64	29.23	0
9/8/2018 16:15	8.6	210.5	18.68	19.55	29.23	0
9/8/2018 16:30	8.43	240.8	9.53	19.31	29.23	0
9/8/2018 16:45	7.279	209.1	16.81	19.42	29.23	0
9/8/2018 17:00	6.914	214.3	13.74	19.59	29.21	0
9/8/2018 17:15	5.36	235.1	17.94	19.5	29.21	0
9/8/2018 17:30	5.389	262.3	9.87	19.08	29.21	0
9/8/2018 17:45	4.726	276.9	13.85	18.87	29.21	0
9/8/2018 18:00	4.819	292.2	6.901	18.79	29.22	0
9/8/2018 18:15	5.49	280.6	7.314	18.4	29.22	0
9/8/2018 18:30	4.996	280.7	7.575	18.04	29.22	0
9/8/2018 18:45	4.774	282.5	3.039	17.66	29.22	0
9/8/2018 19:00	3.656	287.8	6.022	17.62	29.2	0
9/8/2018 19:15	1.754	310.6	17.02	17.35	29.2	0
9/8/2018 19:30	0.983	346.5	3.686	16.94	29.2	0
9/8/2018 19:45	2.382	313.6	30.44	17.23	29.2	0
9/8/2018 20:00	5.887	270.7	10.59	17.27	29.23	0
9/8/2018 20:15	7.213	276.7	9.59	16.99	29.23	0
9/8/2018 20:30	6.227	267.6	8.68	16.83	29.23	0
9/8/2018 20:45	4.418	241.9	10.94	16.69	29.23	0
9/8/2018 21:00	2.927	263	17.02	16.45	29.25	0
9/8/2018 21:15	4.064	253.6	12.67	16.37	29.25	0
9/8/2018 21:30	4.006	227.6	13.68	16.25	29.25	0
9/8/2018 21:45	2.734	223.3	35.13	16.07	29.25	0
9/8/2018 22:00	3.787	187	17.64	15.95	29.22	0
9/8/2018 22:15	4.414	201.2	5.63	15.93	29.22	0
9/8/2018 22:30	3.692	185.1	10.66	15.73	29.22	0
9/8/2018 22:45	4.69	192.4	11.32	15.68	29.22	0

9/8/2018 23:00	5.028	184.2	19.05	15.59	29.23	0
9/8/2018 23:15	4.19	156.5	7.893	14.81	29.23	0
9/8/2018 23:30	2.728	166.1	17.14	14.84	29.23	0
9/8/2018 23:45	3.853	187.3	10.45	15.3	29.23	0
9/9/2018 0:00	3.313	167.5	18.31	15.1	29.21	0
9/9/2018 0:15	2.151	159.2	8.74	15.05	29.21	0
9/9/2018 0:30	0.436	133.9	7.232	14.7	29.21	0
9/9/2018 0:45	1.371	137.9	8.97	14.93	29.21	0
9/9/2018 1:00	1.508	142.6	2.498	15.06	29.19	0
9/9/2018 1:15	2.319	204.6	14.5	14.91	29.19	0
9/9/2018 1:30	2.32	181.8	11.76	14.59	29.19	0
9/9/2018 1:45	2.401	192.4	5.742	14.45	29.19	0
9/9/2018 2:00	1.534	199.5	1.325	14.37	29.19	0
9/9/2018 2:15	0.466	195.8	1.406	14.28	29.19	0
9/9/2018 2:30	2.164	143.1	5.822	14.3	29.19	0
9/9/2018 2:45	2.076	160.8	9.43	14.35	29.19	0
9/9/2018 3:00	2.739	162.1	5.323	14.2	29.19	0
9/9/2018 3:15	2.608	174.4	8.76	14.15	29.19	0
9/9/2018 3:30	3.491	173.1	9.42	14.04	29.19	0
9/9/2018 3:45	4.055	205.5	5.708	13.99	29.19	0
9/9/2018 4:00	3.436	211.9	8.97	13.79	29.2	0
9/9/2018 4:15	3.665	210	8.98	13.73	29.2	0
9/9/2018 4:30	3.087	178.6	8.32	13.67	29.2	0
9/9/2018 4:45	3.226	191	8.51	13.6	29.2	0
9/9/2018 5:00	2.993	156.8	8.19	13.2	29.19	0
9/9/2018 5:15	2.968	162.5	15.18	13.38	29.19	0
9/9/2018 5:30	2.824	160.3	6.683	13.55	29.19	0
9/9/2018 5:45	3.727	142.3	10.33	13.6	29.19	0
9/9/2018 6:00	3.802	115.3	4.631	13.36	29.21	0
9/9/2018 6:15	4	130.8	7.587	13.37	29.21	0
9/9/2018 6:30	3.277	148.5	9.73	13.57	29.21	0
9/9/2018 6:45	3.011	170.8	7.402	13.72	29.21	0
9/9/2018 7:00	4.138	159.1	6.289	14.26	29.2	0
9/9/2018 7:15	4.595	167.7	11.27	14.83	29.2	0
9/9/2018 7:30	4.224	169.2	15.65	15.22	29.2	0
9/9/2018 7:45	4.404	170.2	16.57	15.84	29.2	0
9/9/2018 8:00	5.697	197	13.36	16.1	29.2	0
9/9/2018 8:15	6.732	202.1	8.95	16.08	29.2	0
9/9/2018 8:30	6.71	193.8	10.42	16.22	29.2	0
9/9/2018 8:45	6.967	201.5	8.66	16.58	29.2	0
9/9/2018 9:00	7.315	195.8	11.31	17.07	29.19	0
9/9/2018 9:15	6.84	182.7	23.74	17.56	29.19	0
9/9/2018 9:30	5.458	187.8	20.69	17.48	29.19	0
9/9/2018 9:45	7.379	213.6	13.6	17.41	29.19	0
9/9/2018 10:00	7.21	210.9	23.55	17.9	29.17	0
9/9/2018 10:15	9.13	226.4	20.48	18.43	29.17	0
9/9/2018 10:30	10.41	202	10.64	18.58	29.17	0

9/9/2018 10:45	11.37	184.7	12.63	19.08	29.17	0
9/9/2018 11:00	12.73	193.5	17.66	19.8	29.16	0
9/9/2018 11:15	11.37	211	10.04	19.49	29.16	0
9/9/2018 11:30	10.26	214.9	10.07	19.84	29.16	0
9/9/2018 11:45	9.25	201.6	10.67	19.92	29.16	0
9/9/2018 12:00	8.15	165.8	21.33	20.74	29.13	0
9/9/2018 12:15	4.776	237.1	40.73	20.73	29.13	0
9/9/2018 12:30	12.56	225.2	18.49	21.67	29.13	0
9/9/2018 12:45	11.6	218	21.45	21.66	29.13	0
9/9/2018 13:00	10.58	230.4	19.35	21.69	29.13	0
9/9/2018 13:15	10.79	234.5	19.73	21.57	29.13	0
9/9/2018 13:30	9.61	231.3	20.87	21.46	29.13	0
9/9/2018 13:45	10	229.2	12.7	21.19	29.13	0
9/9/2018 14:00	10.38	250.1	11.13	21.67	29.12	0
9/9/2018 14:15	8.06	226.8	18.5	22	29.12	0
9/9/2018 14:30	7.664	261.7	18.94	22.15	29.12	0
9/9/2018 14:45	7.199	245	18.81	21.61	29.12	0
9/9/2018 15:00	10.6	231.6	15.31	22.19	29.11	0
9/9/2018 15:15	11.54	230.5	25.46	22.32	29.11	0
9/9/2018 15:30	11.81	247.5	13.05	21.85	29.11	0
9/9/2018 15:45	12.15	234.1	18.45	22.1	29.11	0
9/9/2018 16:00	9.55	261.1	15.83	21.82	29.12	0
9/9/2018 16:15	8.86	260.8	12.22	21.22	29.12	0
9/9/2018 16:30	10.74	264.8	12.08	20.72	29.12	0
9/9/2018 16:45	9.67	259.6	9.13	20.34	29.12	0
9/9/2018 17:00	8.79	263	9.75	20.23	29.1	0
9/9/2018 17:15	7.425	266.5	11.65	20.06	29.1	0
9/9/2018 17:30	7.273	264.1	12.02	19.86	29.1	0
9/9/2018 17:45	6.544	255.8	9.95	19.62	29.1	0
9/9/2018 18:00	4.783	277.6	17.34	19.41	29.12	0
9/9/2018 18:15	4.061	263.1	12.43	19.22	29.12	0
9/9/2018 18:30	3.58	256.5	11.87	19.1	29.12	0
9/9/2018 18:45	3.68	265.5	25.63	18.86	29.12	0
9/9/2018 19:00	2.858	236.9	18.72	18.8	29.12	0
9/9/2018 19:15	2.897	293.9	12.66	18.54	29.12	0
9/9/2018 19:30	3.134	275.6	10.21	18.48	29.12	0
9/9/2018 19:45	2.808	265.8	5.573	18.41	29.12	0
9/9/2018 20:00	4.395	255.4	11.27	18.35	29.14	0
9/9/2018 20:15	10.06	247	14.75	18.14	29.14	0
9/9/2018 20:30	13.09	242.6	10.74	17.84	29.14	0
9/9/2018 20:45	10.99	271.6	21.62	17.23	29.14	0
9/9/2018 21:00	7.663	276.5	8.07	16.47	29.15	0
9/9/2018 21:15	5.677	273.3	11.15	15.24	29.15	0.02
9/9/2018 21:30	7.958	224.1	15.64	14.92	29.15	0.01
9/9/2018 21:45	7.933	199.6	10.04	14.66	29.15	0.02
9/9/2018 22:00	6.781	187.7	13.24	14.42	29.13	0.01
9/9/2018 22:15	6.611	178	13.53	14.21	29.13	0.02

9/9/2018 22:30	6.076	168.1	14.37	14.12	29.13	0.03
9/9/2018 22:45	5.687	142.6	8.71	14.09	29.13	0.03
9/9/2018 23:00	5.183	147.5	20.5	14.08	29.13	0.02
9/9/2018 23:15	6.979	182.7	8.16	14.15	29.13	0.06
9/9/2018 23:30	7.083	187.4	12.07	14.18	29.13	0.05
9/9/2018 23:45	6.335	202.7	12.64	14.21	29.13	0.02
9/10/2018 0:00	6.079	196.6	12.18	14.18	29.13	0.04
9/10/2018 0:15	6.459	187.4	6.746	14.13	29.13	0.03
9/10/2018 0:30	8.85	190.5	8.81	14.05	29.13	0.02
9/10/2018 0:45	7.904	181.2	10.1	13.97	29.13	0
9/10/2018 1:00	7.402	164.4	10.89	13.87	29.14	0
9/10/2018 1:15	7.426	157.5	6.914	13.68	29.14	0
9/10/2018 1:30	5.637	154	14.57	13.59	29.14	0.01
9/10/2018 1:45	4.55	144.7	9.4	13.54	29.14	0
9/10/2018 2:00	4.302	140.8	12.65	13.49	29.13	0
9/10/2018 2:15	4.29	143.8	9.39	13.48	29.13	0
9/10/2018 2:30	3.69	152.9	12.87	13.51	29.13	0
9/10/2018 2:45	4.336	163.8	10.99	13.54	29.13	0
9/10/2018 3:00	4.524	156	7.875	13.5	29.13	0
9/10/2018 3:15	5	153.6	11.14	13.45	29.13	0
9/10/2018 3:30	5.677	145.9	7.519	13.51	29.13	0
9/10/2018 3:45	6.203	145.9	7.16	13.51	29.13	0
9/10/2018 4:00	6.01	153.2	7.515	13.52	29.12	0
9/10/2018 4:15	6.241	160.9	11.74	13.51	29.12	0
9/10/2018 4:30	6.679	189.9	9.44	13.64	29.12	0
9/10/2018 4:45	5.253	166.3	17.93	13.57	29.12	0
9/10/2018 5:00	5.328	162.1	14.71	13.51	29.15	0
9/10/2018 5:15	4.885	139.8	7.004	13.44	29.15	0
9/10/2018 5:30	5.488	167	17.71	13.5	29.15	0
9/10/2018 5:45	5.597	174	13.53	13.56	29.15	0
9/10/2018 6:00	7.598	158.1	5.377	13.36	29.17	0
9/10/2018 6:15	7.51	152.2	5.422	13.23	29.17	0
9/10/2018 6:30	6.029	148.1	7.237	13.21	29.17	0
9/10/2018 6:45	6.425	160.9	5.651	13.16	29.17	0
9/10/2018 7:00	6.396	168.3	13.93	13.58	29.18	0
9/10/2018 7:15	8.37	159.7	8.03	13.44	29.18	0
9/10/2018 7:30	9.27	163.6	6.449	13.82	29.18	0
9/10/2018 7:45	7.466	151.3	8.74	13.79	29.18	0
9/10/2018 8:00	5.667	148.5	8.2	13.67	29.19	0
9/10/2018 8:15	6.104	149.9	6.558	13.94	29.19	0
9/10/2018 8:30	6.874	153.3	7.92	14.31	29.19	0
9/10/2018 8:45	6.779	160.6	18.19	14.88	29.19	0
9/10/2018 9:00	7.433	176.6	16.62	15.46	29.19	0
9/10/2018 9:15	8.53	176.4	13.34	15.57	29.19	0
9/10/2018 9:30	7.322	186.4	11.3	15.47	29.19	0
9/10/2018 9:45	8.44	177.1	18.16	15.74	29.19	0
9/10/2018 10:00	11.4	195.5	9.4	16.08	29.2	0

9/10/2018 10:15	11.41	192.1	8.28	16.48	29.2	0
9/10/2018 10:30	9.64	201	19.43	16.36	29.2	0
9/10/2018 10:45	9.71	215.6	11.32	16.3	29.2	0
9/10/2018 11:00	10.31	217.3	13.62	16.65	29.19	0
9/10/2018 11:15	12.65	219	12.18	16.95	29.19	0
9/10/2018 11:30	13.81	208.1	9.1	17.55	29.19	0
9/10/2018 11:45	12.18	212.6	11.55	17.43	29.19	0
9/10/2018 12:00	12.23	213.5	8.02	17.62	29.19	0
9/10/2018 12:15	10.25	217.1	12.71	17.55	29.19	0
9/10/2018 12:30	9.05	230.9	10.01	17.59	29.19	0
9/10/2018 12:45	9.97	228.5	10.97	17.71	29.19	0
9/10/2018 13:00	10.18	230.5	10.37	17.2	29.17	0
9/10/2018 13:15	9.06	232.2	9.4	17.21	29.17	0
9/10/2018 13:30	7.761	206.2	20.42	17.46	29.17	0
9/10/2018 13:45	14.2	197.2	15.64	16.95	29.17	0.04
9/10/2018 14:00	11.18	199.2	15.82	14.99	29.18	0.01
9/10/2018 14:15	7.049	164.5	20.51	15.02	29.18	0
9/10/2018 14:30	5.599	140.5	10.75	15.26	29.18	0.01
9/10/2018 14:45	5.283	153.1	11.02	15.58	29.18	0
9/10/2018 15:00	7.58	161.3	10.85	15.79	29.19	0
9/10/2018 15:15	9.56	172.9	11.74	16.07	29.19	0
9/10/2018 15:30	10.28	186.2	13.66	15.93	29.19	0
9/10/2018 15:45	9.76	160.3	11.44	15.42	29.19	0
9/10/2018 16:00	9.11	156.8	6.817	15.11	29.17	0
9/10/2018 16:15	7.884	150.1	9.87	15.03	29.17	0
9/10/2018 16:30	8.03	146	11.08	15.22	29.17	0
9/10/2018 16:45	7.562	138.4	12.88	15.23	29.17	0
9/10/2018 17:00	7.838	138.1	13.68	15.24	29.18	0
9/10/2018 17:15	8.07	148.3	8.06	15.19	29.18	0
9/10/2018 17:30	10.17	156	9.41	15.12	29.18	0
9/10/2018 17:45	8.37	160.6	12	15.06	29.18	0
9/10/2018 18:00	8.24	156	7.441	14.88	29.16	0
9/10/2018 18:15	9.56	155.5	7.613	14.72	29.16	0
9/10/2018 18:30	8.6	152.5	7.461	14.56	29.16	0
9/10/2018 18:45	7.853	153.9	9.15	14.48	29.16	0
9/10/2018 19:00	6.564	144	11.27	14.38	29.18	0
9/10/2018 19:15	7.19	171.5	14.73	14.37	29.18	0
9/10/2018 19:30	7.736	160.2	11.65	14.22	29.18	0
9/10/2018 19:45	8.14	153.1	7.12	14.03	29.18	0
9/10/2018 20:00	6.765	149	7.528	13.82	29.19	0
9/10/2018 20:15	7.464	152.7	6.865	13.51	29.19	0
9/10/2018 20:30	6.823	150.5	8.19	13.33	29.19	0
9/10/2018 20:45	8.02	159.2	6.408	13.27	29.19	0
9/10/2018 21:00	7.64	154.5	7.295	13.42	29.17	0
9/10/2018 21:15	8.9	178	13.44	13.51	29.17	0
9/10/2018 21:30	5.957	162.9	21.06	13.1	29.17	0
9/10/2018 21:45	5.394	133.7	9.99	12.99	29.17	0

9/10/2018 22:00	6.82	157.7	12.15	12.86	29.16	0
9/10/2018 22:15	5.089	161.1	16.47	12.78	29.16	0
9/10/2018 22:30	5.343	134.3	7.866	12.74	29.16	0
9/10/2018 22:45	6.317	142.6	7.703	12.91	29.16	0
9/10/2018 23:00	6.546	140	8.84	13.03	29.18	0
9/10/2018 23:15	5.342	138.3	10.05	13.13	29.18	0
9/10/2018 23:30	6.131	149.5	11.22	13.23	29.18	0
9/10/2018 23:45	8.11	158.1	7.459	13.21	29.18	0
9/11/2018 0:00	6.537	163.8	10.47	13.04	29.17	0
9/11/2018 0:15	5.347	146.3	7.899	13.01	29.17	0
9/11/2018 0:30	5.243	134.5	8.8	13.08	29.17	0
9/11/2018 0:45	5.1	146.3	7.321	13.13	29.17	0
9/11/2018 1:00	6.15	156	7.206	13.24	29.16	0
9/11/2018 1:15	7.062	162	5.921	13.22	29.16	0
9/11/2018 1:30	6.421	171.9	9.17	13.05	29.16	0
9/11/2018 1:45	6.295	179.4	6.88	13.1	29.16	0
9/11/2018 2:00	5.451	162.2	12.64	12.92	29.17	0
9/11/2018 2:15	4.853	147.6	8.43	12.77	29.17	0
9/11/2018 2:30	3.464	124.8	9.24	12.73	29.17	0
9/11/2018 2:45	4.16	133.2	5.089	12.79	29.17	0
9/11/2018 3:00	5.529	138.8	4.563	12.9	29.15	0
9/11/2018 3:15	6.52	148.7	6.255	13.05	29.15	0
9/11/2018 3:30	6.565	157.9	9.44	12.99	29.15	0
9/11/2018 3:45	6.44	181.5	11.37	12.88	29.15	0
9/11/2018 4:00	5.809	171.5	13.3	12.66	29.14	0
9/11/2018 4:15	5.306	150.4	5.58	12.53	29.14	0
9/11/2018 4:30	3.57	134.2	27.41	12.57	29.14	0
9/11/2018 4:45	3.115	161.8	35.39	12.56	29.14	0
9/11/2018 5:00	2.524	25.29	46.44	12.68	29.14	0
9/11/2018 5:15	5.221	160.5	7.655	12.67	29.14	0
9/11/2018 5:30	5.548	160.2	8.5	12.73	29.14	0
9/11/2018 5:45	5.415	163.7	10.26	12.66	29.14	0
9/11/2018 6:00	4.936	144.5	7.655	12.67	29.12	0
9/11/2018 6:15	5.369	157.1	8.38	12.76	29.12	0
9/11/2018 6:30	5.167	155.8	8.46	12.8	29.12	0
9/11/2018 6:45	5.345	160.2	8.99	12.79	29.12	0
9/11/2018 7:00	5.48	160.2	8.21	12.78	29.15	0
9/11/2018 7:15	5.992	149	6.525	12.78	29.15	0
9/11/2018 7:30	5.018	148.3	8.73	12.8	29.15	0
9/11/2018 7:45	5.483	158.2	8.17	12.79	29.15	0
9/11/2018 8:00	4.622	167.7	10.79	12.86	29.16	0
9/11/2018 8:15	4.701	142.1	12.63	12.96	29.16	0
9/11/2018 8:30	4.694	151.9	19.12	13.15	29.16	0
9/11/2018 8:45	4.362	149.1	11.24	13.32	29.16	0
9/11/2018 9:00	4.569	178.4	19.6	13.56	29.16	0
9/11/2018 9:15	5.429	180	21.35	13.91	29.16	0
9/11/2018 9:30	5.742	190.5	12.6	14.41	29.16	0

9/11/2018 9:45	7.26	198	13.92	15.15	29.16	0
9/11/2018 10:00	8.55	191	12.76	15.16	29.15	0
9/11/2018 10:15	7.306	187.6	13.72	15.07	29.15	0
9/11/2018 10:30	6.569	212.9	23.77	15.49	29.15	0
9/11/2018 10:45	8.19	204.1	13.75	15.99	29.15	0
9/11/2018 11:00	7.439	215.2	12.04	16.15	29.13	0
9/11/2018 11:15	7.365	292.4	39.22	15.32	29.13	0
9/11/2018 11:30	13.65	275.9	10.4	13.71	29.13	0.13
9/11/2018 11:45	7.058	244.6	15.84	13.02	29.13	0.06
9/11/2018 12:00	4.122	103.8	72.32	13.64	29.15	0
9/11/2018 12:15	4.295	73.06	17.85	13.56	29.15	0
9/11/2018 12:30	5.716	116.3	12.46	14.45	29.15	0
9/11/2018 12:45	5.357	123.5	9.77	14.63	29.15	0
9/11/2018 13:00	7.505	136	6.751	15.09	29.12	0
9/11/2018 13:15	7.712	137.8	9.06	15.56	29.12	0
9/11/2018 13:30	8.05	152.7	8.64	15.02	29.12	0
9/11/2018 13:45	7.235	145.1	13.36	15.11	29.12	0
9/11/2018 14:00	4.97	130	17.98	15.24	29.13	0.02
9/11/2018 14:15	7.073	147.8	15.75	14.87	29.13	0
9/11/2018 14:30	8.61	182.4	21.55	14.14	29.13	0
9/11/2018 14:45	7.433	165.4	13.08	13.73	29.13	0
9/11/2018 15:00	7.767	143.7	12.44	14.27	29.12	0
9/11/2018 15:15	7.633	143.6	12.12	14.52	29.12	0
9/11/2018 15:30	8.7	139.6	12.01	14.91	29.12	0
9/11/2018 15:45	8.41	147.2	12.87	15.16	29.12	0
9/11/2018 16:00	9.28	154.5	9	15.12	29.12	0
9/11/2018 16:15	8.66	165.9	12.55	16.04	29.12	0
9/11/2018 16:30	9.75	165.3	11.31	15.17	29.12	0
9/11/2018 16:45	10.24	161.9	8.96	14.88	29.12	0
9/11/2018 17:00	6.805	174.3	16.37	14.85	29.12	0
9/11/2018 17:15	5.48	178.6	14.58	14.74	29.12	0
9/11/2018 17:30	3.596	150.9	20.44	14.78	29.12	0
9/11/2018 17:45	5.139	143.5	8.86	14.6	29.12	0
9/11/2018 18:00	4.403	146	7.393	14.6	29.11	0
9/11/2018 18:15	6.689	151.8	7.879	14.45	29.11	0
9/11/2018 18:30	8.63	161.6	12.9	14.08	29.11	0
9/11/2018 18:45	10.06	164.6	11.49	13.66	29.11	0
9/11/2018 19:00	6.337	145.2	8.78	13.14	29.11	0
9/11/2018 19:15	5.101	122.7	10.44	12.66	29.11	0
9/11/2018 19:30	6.125	136.8	6.202	12.69	29.11	0
9/11/2018 19:45	5.775	132.5	6.694	12.79	29.11	0
9/11/2018 20:00	4.187	142.3	8.15	12.66	29.12	0
9/11/2018 20:15	4.2	137.2	5.474	12.4	29.12	0
9/11/2018 20:30	4.425	137.9	4.566	12.59	29.12	0
9/11/2018 20:45	5.995	151.3	6.923	12.65	29.12	0
9/11/2018 21:00	4.45	159.7	8.75	12.36	29.12	0
9/11/2018 21:15	2.848	153.9	11.15	12.45	29.12	0

9/11/2018 21:30	1.458	145.3	14.53	12.5	29.12	0
9/11/2018 21:45	2.183	155.5	15.61	12.83	29.12	0
9/11/2018 22:00	1.343	135	6.388	12.82	29.11	0
9/11/2018 22:15	1.162	142.5	7.48	12.81	29.11	0
9/11/2018 22:30	1.357	121	15.64	12.83	29.11	0
9/11/2018 22:45	1.596	100.9	0.584	12.66	29.11	0
9/11/2018 23:00	2.431	100.3	0.961	12.44	29.12	0
9/11/2018 23:15	1.524	121.2	25.01	12.65	29.12	0
9/11/2018 23:30	3.013	174.4	15.82	12.88	29.12	0
9/11/2018 23:45	3.473	170.9	14.96	12.98	29.12	0
9/12/2018 0:00	3.022	169.6	15.02	12.95	29.1	0
9/12/2018 0:15	1.854	171.9	17.86	13.2	29.1	0
9/12/2018 0:30	1.373	194.4	25.76	13	29.1	0
9/12/2018 0:45	0.603	152.3	17.63	12.97	29.1	0
9/12/2018 1:00	3.082	181.4	32.23	12.35	29.12	0
9/12/2018 1:15	3.765	162.3	8.48	12.04	29.12	0
9/12/2018 1:30	3.368	139.3	6.668	12	29.12	0
9/12/2018 1:45	3.692	155.6	19.03	11.87	29.12	0
9/12/2018 2:00	4.53	144.8	11.05	11.79	29.09	0
9/12/2018 2:15	5.188	148.5	15.98	11.74	29.09	0.02
9/12/2018 2:30	5.999	154.8	8.64	11.62	29.09	0.01
9/12/2018 2:45	5.721	138.2	6.833	11.68	29.09	0
9/12/2018 3:00	4.888	135.3	8.4	11.64	29.11	0
9/12/2018 3:15	3.919	130.4	12.96	11.59	29.11	0.01
9/12/2018 3:30	3.358	132.5	9.18	11.59	29.11	0.07
9/12/2018 3:45	2.333	127.8	9.99	11.65	29.11	0.02
9/12/2018 4:00	2.095	130.5	10.69	11.57	29.09	0.02
9/12/2018 4:15	2.693	169.7	26.53	11.55	29.09	0.06
9/12/2018 4:30	3.509	115.7	17.23	11.43	29.09	0.03
9/12/2018 4:45	3.168	118.9	5.616	11.43	29.09	0.02
9/12/2018 5:00	3.1	125.6	7.236	11.4	29.1	0.01
9/12/2018 5:15	4.254	153.9	16.15	11.47	29.1	0
9/12/2018 5:30	3.896	172.7	8.67	11.54	29.1	0
9/12/2018 5:45	5.001	174	13.32	11.51	29.1	0.02
9/12/2018 6:00	4.839	156.8	8.88	11.41	29.11	0
9/12/2018 6:15	3.93	171.6	10.18	11.48	29.11	0
9/12/2018 6:30	4.27	181.4	11.32	11.52	29.11	0
9/12/2018 6:45	4.568	179.8	9.17	11.63	29.11	0
9/12/2018 7:00	3.679	167.9	14.29	11.69	29.1	0
9/12/2018 7:15	4.433	152.8	11.81	11.74	29.1	0
9/12/2018 7:30	5.082	155.9	7.966	11.83	29.1	0
9/12/2018 7:45	5.715	183.6	12.63	11.91	29.1	0
9/12/2018 8:00	5.577	187.3	9.3	11.99	29.13	0
9/12/2018 8:15	6.026	190	7.953	12.15	29.13	0
9/12/2018 8:30	5.281	196.8	8.57	12.48	29.13	0
9/12/2018 8:45	5.654	188	22.79	12.77	29.13	0
9/12/2018 9:00	7.048	186.7	12.77	13.47	29.12	0

9/12/2018 9:15	9.19	179	14.6	14.06	29.12	0
9/12/2018 9:30	10.41	186.2	11	14.21	29.12	0
9/12/2018 9:45	8.48	216.1	16.45	13.65	29.12	0
9/12/2018 10:00	5.724	235.1	15.06	14.05	29.13	0
9/12/2018 10:15	5.701	204.5	14.62	13.9	29.13	0
9/12/2018 10:30	6.172	191.1	12.24	14.58	29.13	0
9/12/2018 10:45	5.706	205.2	29.05	14.32	29.13	0
9/12/2018 11:00	4.441	219.4	13.54	14.65	29.12	0
9/12/2018 11:15	6.02	228.6	12.12	15.12	29.12	0
9/12/2018 11:30	4.355	224.1	18.09	15.68	29.12	0
9/12/2018 11:45	3.497	250.5	34.98	15.56	29.12	0
9/12/2018 12:00	3.406	280.3	27.54	16.18	29.11	0
9/12/2018 12:15	3.011	230.6	47.3	16.85	29.11	0
9/12/2018 12:30	4.109	280.7	17.96	16.29	29.11	0
9/12/2018 12:45	4.718	257.2	17.47	16.34	29.11	0
9/12/2018 13:00	4.851	291.9	13.86	16.4	29.13	0
9/12/2018 13:15	4.443	286	18.84	16.74	29.13	0
9/12/2018 13:30	4.488	257.9	15.48	16.62	29.13	0
9/12/2018 13:45	5.16	252.7	17.85	16.74	29.13	0
9/12/2018 14:00	4.662	241.1	29.64	16.62	29.11	0
9/12/2018 14:15	4.141	278.3	17	16.61	29.11	0
9/12/2018 14:30	4.093	250.7	24.42	16.85	29.11	0
9/12/2018 14:45	4.414	259.6	31.12	16.66	29.11	0
9/12/2018 15:00	6.346	250.6	23.26	16.6	29.1	0
9/12/2018 15:15	8.23	229.7	16.17	16.39	29.1	0
9/12/2018 15:30	8.81	196	9.54	15.7	29.1	0
9/12/2018 15:45	13.72	185.8	8.18	13.84	29.1	0
9/12/2018 16:00	11.03	192.2	7.239	13.54	29.12	0
9/12/2018 16:15	8.85	175.1	17.47	13.42	29.12	0
9/12/2018 16:30	7.288	135.4	10.12	13.46	29.12	0
9/12/2018 16:45	7.523	142.5	7.526	13.47	29.12	0
9/12/2018 17:00	6.444	151.6	11.51	13.57	29.11	0
9/12/2018 17:15	5.934	147.5	11.01	13.24	29.11	0
9/12/2018 17:30	6.166	148.1	7.377	13.01	29.11	0
9/12/2018 17:45	4.823	144.7	8.6	13.04	29.11	0
9/12/2018 18:00	4.221	146.2	6.852	13.02	29.12	0
9/12/2018 18:15	5.481	140.4	7.142	13.06	29.12	0
9/12/2018 18:30	4.126	148.6	6.548	13.02	29.12	0
9/12/2018 18:45	4.367	142.4	5.855	12.95	29.12	0
9/12/2018 19:00	4.74	133.9	5.4	12.95	29.1	0
9/12/2018 19:15	4.516	166.3	22.02	13.08	29.1	0
9/12/2018 19:30	3.843	196.2	14.09	13	29.1	0
9/12/2018 19:45	3.32	189.6	19.03	12.79	29.1	0
9/12/2018 20:00	2.526	137.4	7.36	12.47	29.12	0
9/12/2018 20:15	2.438	131.1	5.054	12.57	29.12	0
9/12/2018 20:30	3.053	130.1	2.677	12.61	29.12	0
9/12/2018 20:45	1.68	149.1	22.3	12.61	29.12	0

9/12/2018 21:00	2.517	165.5	9.5	12.61	29.13	0
9/12/2018 21:15	4.004	179	13.96	12.6	29.13	0
9/12/2018 21:30	3.616	145	16.36	12.45	29.13	0
9/12/2018 21:45	2.79	161.7	14.79	12.47	29.13	0
9/12/2018 22:00	2.838	187.1	14.6	12.51	29.11	0
9/12/2018 22:15	3.445	173.7	12.43	12.64	29.11	0
9/12/2018 22:30	2.661	176.8	10.31	12.48	29.11	0
9/12/2018 22:45	2.276	181.1	13.08	12.31	29.11	0
9/12/2018 23:00	2.492	172.6	12.96	12.37	29.12	0
9/12/2018 23:15	2.447	159.9	7.717	12.22	29.12	0
9/12/2018 23:30	3.533	162.1	6.491	12.13	29.12	0
9/12/2018 23:45	2.722	180.7	15.48	11.93	29.12	0
9/13/2018 0:00	1.383	156.6	29.77	11.78	29.11	0
9/13/2018 0:15	2.339	161.7	14.92	12.02	29.11	0
9/13/2018 0:30	2.403	157.4	11.4	12.12	29.11	0
9/13/2018 0:45	2.263	142.9	5.258	12.14	29.11	0
9/13/2018 1:00	1.852	134.5	5.036	11.95	29.13	0
9/13/2018 1:15	2.656	145.2	4.142	12.18	29.13	0
9/13/2018 1:30	1.484	138.7	1.198	12.22	29.13	0
9/13/2018 1:45	2.494	143	4.997	12.1	29.13	0
9/13/2018 2:00	2.702	141.8	5.648	12.06	29.11	0
9/13/2018 2:15	2.49	141.4	5.333	12.05	29.11	0
9/13/2018 2:30	3.041	150.6	12.84	12.03	29.11	0
9/13/2018 2:45	2.745	162.8	10.62	12.09	29.11	0
9/13/2018 3:00	2.238	157.8	16.84	12.2	29.13	0
9/13/2018 3:15	2.556	154.3	16.71	12.16	29.13	0
9/13/2018 3:30	2.583	175	10.37	12	29.13	0
9/13/2018 3:45	2.987	164.6	6.685	12.09	29.13	0
9/13/2018 4:00	3.328	184.5	11.96	11.95	29.11	0
9/13/2018 4:15	3.36	174.2	8.62	11.9	29.11	0
9/13/2018 4:30	4.099	219.5	6.734	11.4	29.11	0
9/13/2018 4:45	4.384	206.1	7.324	11.18	29.11	0
9/13/2018 5:00	4.341	175.5	20.11	11.18	29.13	0
9/13/2018 5:15	2.786	149.7	5.924	11.29	29.13	0
9/13/2018 5:30	1.351	140.4	3.808	11.35	29.13	0
9/13/2018 5:45	2.076	144.5	2.825	11.39	29.13	0
9/13/2018 6:00	1.742	121	9.14	11.31	29.13	0
9/13/2018 6:15	1.106	130.2	12.19	11.31	29.13	0
9/13/2018 6:30	2.598	162.7	7.998	11.42	29.13	0
9/13/2018 6:45	3.773	163.2	5.055	11.71	29.13	0
9/13/2018 7:00	2.993	170.4	10.55	11.91	29.13	0
9/13/2018 7:15	3.411	151.7	6.471	12.2	29.13	0
9/13/2018 7:30	4.178	151.6	6.674	12.45	29.13	0
9/13/2018 7:45	3.978	142.7	7.598	12.62	29.13	0
9/13/2018 8:00	4.157	138.8	7.969	12.74	29.15	0
9/13/2018 8:15	4.171	145	10.68	12.9	29.15	0
9/13/2018 8:30	4.288	163.4	8.57	13.03	29.15	0

9/13/2018 8:45	3.763	150.5	12.96	13.21	29.15	0
9/13/2018 9:00	3.929	181.8	20.48	13.28	29.17	0
9/13/2018 9:15	3.832	178.9	20.27	13.54	29.17	0
9/13/2018 9:30	3.376	165.7	27.01	13.98	29.17	0
9/13/2018 9:45	4.251	173.7	29.06	14.25	29.17	0
9/13/2018 10:00	6.436	198	20.16	14.33	29.17	0
9/13/2018 10:15	5.696	193.9	13.68	14.67	29.17	0
9/13/2018 10:30	6.877	203.5	14.07	14.87	29.17	0
9/13/2018 10:45	6.541	214.9	22.16	15.1	29.17	0
9/13/2018 11:00	5.964	208.9	22.02	15.42	29.16	0
9/13/2018 11:15	6.043	212.9	20.9	15.54	29.16	0
9/13/2018 11:30	6.322	235.7	16.25	15.84	29.16	0
9/13/2018 11:45	6.617	237.3	26.64	16.2	29.16	0
9/13/2018 12:00	8.47	211.6	23.17	16.2	29.16	0
9/13/2018 12:15	7.016	221.9	23.37	16.21	29.16	0
9/13/2018 12:30	7.456	207.2	18.2	16.37	29.16	0
9/13/2018 12:45	5.91	204.5	18.77	16.71	29.16	0
9/13/2018 13:00	8.23	212.6	12.7	16.62	29.15	0
9/13/2018 13:15	7.41	192.9	17.7	16.83	29.15	0
9/13/2018 13:30	5.813	208.3	20.99	17.1	29.15	0
9/13/2018 13:45	4.319	198.7	46.41	17.34	29.15	0
9/13/2018 14:00	5.067	250.4	10.83	17.05	29.17	0
9/13/2018 14:15	5.992	214.9	16.17	17.18	29.17	0
9/13/2018 14:30	7.019	220.1	15.25	16.96	29.17	0
9/13/2018 14:45	4.087	206.5	23.75	17.26	29.17	0
9/13/2018 15:00	4.692	209.4	18.69	17.27	29.17	0
9/13/2018 15:15	6.315	194.7	9.16	16.98	29.17	0
9/13/2018 15:30	5.619	196.6	11.81	16.82	29.17	0
9/13/2018 15:45	8.14	194.7	9.32	15.89	29.17	0
9/13/2018 16:00	4.18	182.2	17.59	14.89	29.17	0.01
9/13/2018 16:15	2.232	132.2	35.5	15.24	29.17	0
9/13/2018 16:30	3.529	70.87	5.813	14.8	29.17	0
9/13/2018 16:45	1.769	71.58	3.396	15.02	29.17	0
9/13/2018 17:00	1.478	51.15	11.46	15.13	29.16	0
9/13/2018 17:15	1.873	64.89	59.58	15.29	29.16	0
9/13/2018 17:30	3.901	185.9	16.51	15.46	29.16	0
9/13/2018 17:45	2.689	76.03	5.575	14.8	29.16	0
9/13/2018 18:00	2.332	66.65	1.702	14.47	29.18	0
9/13/2018 18:15	1.834	60.45	2.165	14.79	29.18	0
9/13/2018 18:30	0.606	60.65	0.146	14.82	29.18	0
9/13/2018 18:45	4.727	208.9	33.57	14.52	29.18	0
9/13/2018 19:00	7.207	175.8	14.65	13.96	29.18	0
9/13/2018 19:15	4.006	95.6	56.96	13.36	29.18	0
9/13/2018 19:30	4.408	66.85	40.2	13.15	29.18	0
9/13/2018 19:45	9.17	191.8	11.28	13.44	29.18	0.01
9/13/2018 20:00	8.58	187.7	9.92	12.61	29.21	0.06
9/13/2018 20:15	7.171	151.4	32.76	11.89	29.21	0.18

9/13/2018 20:30	5.354	84.2	7.966	11.83	29.21	0.02
9/13/2018 20:45	4.544	77.36	5.105	11.95	29.21	0
9/13/2018 21:00	2.949	73.69	11.33	12.23	29.18	0
9/13/2018 21:15	1.676	58.35	13.44	12.42	29.18	0
9/13/2018 21:30	1.088	69.06	35.65	12.44	29.18	0
9/13/2018 21:45	5.612	151.5	26.57	12.38	29.18	0
9/13/2018 22:00	5.858	99.4	21.51	12.55	29.19	0
9/13/2018 22:15	5.199	150.3	18.33	12.56	29.19	0
9/13/2018 22:30	4.96	142.8	8.8	12.7	29.19	0
9/13/2018 22:45	2.39	98.5	23.81	12.7	29.19	0
9/13/2018 23:00	0.047	27.57	1.228	12.43	29.18	0
9/13/2018 23:15	0.451	35.8	12.04	12.27	29.18	0
9/13/2018 23:30	0.684	148.2	31.6	12.39	29.18	0
9/13/2018 23:45	0.65	72.36	14.74	12.06	29.18	0
9/14/2018 0:00	1.491	97.3	72.6	12.07	29.18	0
9/14/2018 0:15	0.88	202.7	0.328	11.93	29.18	0
9/14/2018 0:30	1.904	150.9	31.9	11.88	29.18	0
9/14/2018 0:45	0.792	126.3	0.973	11.74	29.18	0
9/14/2018 1:00	1.822	157.8	26.95	11.84	29.16	0
9/14/2018 1:15	3.005	158.9	12.72	12.01	29.16	0
9/14/2018 1:30	3.416	172.1	10.88	12.25	29.16	0
9/14/2018 1:45	3.689	171.4	9.72	12.34	29.16	0
9/14/2018 2:00	2.548	155.3	13.18	12.31	29.18	0
9/14/2018 2:15	1.589	138.6	6.628	12.23	29.18	0
9/14/2018 2:30	1.92	128.5	5.035	11.96	29.18	0
9/14/2018 2:45	3.476	168.5	10.99	12.33	29.18	0
9/14/2018 3:00	2.95	166.9	9.65	12.4	29.16	0
9/14/2018 3:15	3.002	171.4	7.834	12.45	29.16	0
9/14/2018 3:30	3.109	176.1	7.554	12.42	29.16	0
9/14/2018 3:45	3.177	165.6	9.83	12.37	29.16	0
9/14/2018 4:00	3.333	179.6	10.99	12.44	29.18	0
9/14/2018 4:15	4.992	203	8.81	12	29.18	0
9/14/2018 4:30	4.575	161.5	18.73	11.87	29.18	0
9/14/2018 4:45	2.81	180.4	6.856	11.95	29.18	0
9/14/2018 5:00	2.982	178.1	7.534	12.04	29.15	0
9/14/2018 5:15	3.657	192.7	10.46	12.12	29.15	0
9/14/2018 5:30	4.389	193.7	7.969	11.88	29.15	0
9/14/2018 5:45	5.699	210.7	13.12	11.8	29.15	0
9/14/2018 6:00	6.229	207.2	13.98	11.73	29.18	0
9/14/2018 6:15	4.71	203.1	11.35	11.72	29.18	0.02
9/14/2018 6:30	4.906	213.7	9.31	11.72	29.18	0
9/14/2018 6:45	3.873	189.8	13.33	11.72	29.18	0.01
9/14/2018 7:00	3.418	163.1	21.06	11.63	29.16	0.03
9/14/2018 7:15	3.205	148.8	22.63	11.7	29.16	0
9/14/2018 7:30	4.161	155.9	14.45	11.79	29.16	0.01
9/14/2018 7:45	5.548	150.4	7.425	11.82	29.16	0
9/14/2018 8:00	5.336	144	10.75	12.17	29.19	0

9/14/2018 8:15	7.012	146.5	8.26	12.31	29.19	0
9/14/2018 8:30	6.716	146.5	7.242	12.62	29.19	0
9/14/2018 8:45	6.852	147.4	9.08	13.15	29.19	0
9/14/2018 9:00	6.88	163.4	22.09	13.25	29.18	0
9/14/2018 9:15	6.154	171.8	18.37	13.37	29.18	0
9/14/2018 9:30	6.637	179.1	13.35	13.34	29.18	0
9/14/2018 9:45	4.327	197.9	23.28	13.54	29.18	0
9/14/2018 10:00	5.306	194.1	17.25	13.66	29.18	0
9/14/2018 10:15	6.301	191.4	15.12	14.52	29.18	0
9/14/2018 10:30	5.887	233.7	15.9	14.36	29.18	0
9/14/2018 10:45	5.547	238.8	14.76	14.43	29.18	0
9/14/2018 11:00	4.731	244.6	14.89	14.64	29.16	0
9/14/2018 11:15	5.25	264	16.63	14.76	29.16	0
9/14/2018 11:30	7.004	275.6	11.57	14.49	29.16	0
9/14/2018 11:45	4.902	280.3	15.75	14.55	29.16	0
9/14/2018 12:00	4.02	276.1	14.33	14.78	29.16	0
9/14/2018 12:15	3.274	254.5	26.86	15.48	29.16	0
9/14/2018 12:30	3.626	267	27.27	16.01	29.16	0
9/14/2018 12:45	3.441	256.9	35.3	16.35	29.16	0
9/14/2018 13:00	5.678	295.8	16.83	16.57	29.15	0
9/14/2018 13:15	4.862	301.1	42.89	16.81	29.15	0
9/14/2018 13:30	5.403	275	14.52	16.76	29.15	0
9/14/2018 13:45	4.308	304.2	24.57	17.06	29.15	0
9/14/2018 14:00	5.551	294.7	17.72	17.07	29.12	0
9/14/2018 14:15	5.124	273.8	25.68	17.14	29.12	0
9/14/2018 14:30	2.815	355.2	21.17	17.11	29.12	0
9/14/2018 14:45	1.983	299.6	34.85	17.3	29.12	0
9/14/2018 15:00	3.672	258.4	20.75	17.22	29.13	0
9/14/2018 15:15	3.317	299	34.64	17.32	29.13	0
9/14/2018 15:30	4.034	268.4	31.8	17.38	29.13	0
9/14/2018 15:45	4.945	237.4	13.38	17.17	29.13	0
9/14/2018 16:00	6.171	288.1	18.87	17.33	29.1	0
9/14/2018 16:15	5.698	287.1	11.59	17.23	29.1	0
9/14/2018 16:30	6.412	271.4	9.41	17.02	29.1	0
9/14/2018 16:45	5.825	261	9.85	16.96	29.1	0
9/14/2018 17:00	6.224	259.3	11.47	16.78	29.11	0
9/14/2018 17:15	6.711	235.6	11.42	16.63	29.11	0
9/14/2018 17:30	11.19	218.3	14.37	14.39	29.11	0.07
9/14/2018 17:45	5.304	194.8	24.42	13.76	29.11	0.01
9/14/2018 18:00	3.221	91	27.85	12.09	29.12	0.01
9/14/2018 18:15	2.287	185.1	34.59	12.72	29.12	0.01
9/14/2018 18:30	0.489	166.2	12.4	12.73	29.12	0
9/14/2018 18:45	2.571	151.3	19	12.74	29.12	0
9/14/2018 19:00	2.797	94.9	21.45	12.03	29.11	0
9/14/2018 19:15	4.5	112.4	7.549	11.98	29.11	0
9/14/2018 19:30	4.545	139.7	31.88	12.07	29.11	0
9/14/2018 19:45	7.45	170.3	20.96	11.94	29.11	0.02

9/14/2018 20:00	5.962	91.8	21.1	11.72	29.12	0
9/14/2018 20:15	3.15	59.65	12.55	11.58	29.12	0.01
9/14/2018 20:30	2.805	124	67.92	11.77	29.12	0
9/14/2018 20:45	5.163	169.4	17	11.77	29.12	0
9/14/2018 21:00	3.572	155.6	4.232	11.64	29.11	0
9/14/2018 21:15	2.892	155.4	8.31	11.8	29.11	0
9/14/2018 21:30	1.748	125.1	3.214	11.74	29.11	0
9/14/2018 21:45	0.778	119.5	3.531	11.65	29.11	0
9/14/2018 22:00	0.657	101.6	1.173	11.56	29.12	0
9/14/2018 22:15	0.425	104.5	0.73	11.45	29.12	0
9/14/2018 22:30	1.19	139.6	36.68	11.51	29.12	0
9/14/2018 22:45	3.981	183.8	12.67	11.77	29.12	0
9/14/2018 23:00	2.198	139.5	39.51	11.35	29.1	0
9/14/2018 23:15	1.568	175.8	17.56	10.91	29.1	0
9/14/2018 23:30	2.628	143	6.724	11.4	29.1	0
9/14/2018 23:45	2.274	157.1	15.9	11.22	29.1	0
9/15/2018 0:00	4.896	149.8	8.46	11.22	29.08	0
9/15/2018 0:15	2.361	137.1	15.69	10.84	29.08	0
9/15/2018 0:30	2.886	144.6	8.07	10.97	29.08	0
9/15/2018 0:45	2.101	147.5	15.92	10.9	29.08	0
9/15/2018 1:00	4.643	157.1	12.35	10.78	29.06	0
9/15/2018 1:15	4.218	143.8	4.272	10.53	29.06	0
9/15/2018 1:30	4.822	140.1	6.315	10.49	29.06	0
9/15/2018 1:45	3.986	146.6	6.861	10.59	29.06	0
9/15/2018 2:00	3.001	147.1	4.941	10.62	29.06	0
9/15/2018 2:15	2.782	155.4	13.99	10.52	29.06	0
9/15/2018 2:30	3.373	137.7	16.9	10.14	29.06	0
9/15/2018 2:45	3.962	136.7	7.453	10.7	29.06	0
9/15/2018 3:00	3.788	138.8	7.403	10.84	29.05	0
9/15/2018 3:15	4.292	158.1	5.075	10.84	29.05	0
9/15/2018 3:30	3.984	165.6	8.14	10.79	29.05	0
9/15/2018 3:45	4.386	173.3	8.12	10.86	29.05	0
9/15/2018 4:00	3.885	171.6	6.979	10.6	29.05	0
9/15/2018 4:15	4.061	173	10.35	10.7	29.05	0
9/15/2018 4:30	4.529	192.7	12.86	10.4	29.05	0
9/15/2018 4:45	5.125	177.1	4.07	10.4	29.05	0
9/15/2018 5:00	4.955	186.6	7.648	10.47	29.04	0
9/15/2018 5:15	4.782	186.5	8.77	10.19	29.04	0
9/15/2018 5:30	4.788	188.1	13.43	10.19	29.04	0
9/15/2018 5:45	4.113	156.5	11.82	10.52	29.04	0
9/15/2018 6:00	4.059	155.8	10.67	10.73	29.04	0
9/15/2018 6:15	3.626	147.7	8.56	10.78	29.04	0
9/15/2018 6:30	3.444	169.1	13.22	10.99	29.04	0
9/15/2018 6:45	3.912	178.2	8.25	11.24	29.04	0
9/15/2018 7:00	4.469	167.6	10.58	11.23	29.05	0
9/15/2018 7:15	3.867	162.7	20.02	11.38	29.05	0
9/15/2018 7:30	3.545	156.8	17.95	11.57	29.05	0

9/15/2018 7:45	3.345	163.6	20.94	11.84	29.05	0
9/15/2018 8:00	3.51	152.4	32.12	12.05	29.06	0
9/15/2018 8:15	3.594	162.6	13.73	12.42	29.06	0
9/15/2018 8:30	3.375	165.5	13.85	12.52	29.06	0
9/15/2018 8:45	2.926	159.5	8.44	12.72	29.06	0
9/15/2018 9:00	2.102	151.3	19.63	13.05	29.05	0
9/15/2018 9:15	2.642	144.4	18.86	13.36	29.05	0
9/15/2018 9:30	3.07	170.8	15.65	13.56	29.05	0
9/15/2018 9:45	4.149	150.1	10.07	14.05	29.05	0
9/15/2018 10:00	5.449	190.1	11.49	14	29.05	0
9/15/2018 10:15	4.16	208.9	8.11	13.88	29.05	0
9/15/2018 10:30	3.707	218.2	7.81	13.92	29.05	0
9/15/2018 10:45	3.642	237.6	10.53	13.97	29.05	0
9/15/2018 11:00	2.617	259.6	9.94	14.19	29.05	0
9/15/2018 11:15	1.999	288.4	21.72	14.45	29.05	0
9/15/2018 11:30	1.014	223.6	42.01	14.55	29.05	0
9/15/2018 11:45	3.292	218.4	36.49	14.48	29.05	0
9/15/2018 12:00	3.167	211.6	21.07	14.51	29.06	0
9/15/2018 12:15	3.529	190.6	20.56	14.77	29.06	0
9/15/2018 12:30	3.472	195.3	19.8	14.89	29.06	0
9/15/2018 12:45	3.484	189.6	18.52	15	29.06	0
9/15/2018 13:00	2.533	200.3	18.87	15.1	29.03	0
9/15/2018 13:15	1.906	254.2	43.39	15.26	29.03	0
9/15/2018 13:30	3.335	134.2	17.19	15.33	29.03	0
9/15/2018 13:45	4.78	157.1	15.35	15.39	29.03	0
9/15/2018 14:00	5.614	184.4	17.2	15.34	29.05	0
9/15/2018 14:15	7.217	187	10.71	15.25	29.05	0
9/15/2018 14:30	7.761	149.5	6.615	14.94	29.05	0
9/15/2018 14:45	6.597	155.6	9.29	14.9	29.05	0
9/15/2018 15:00	6.82	171.5	14.61	15.21	29.04	0
9/15/2018 15:15	7.68	183.2	14.8	14.98	29.04	0
9/15/2018 15:30	7.067	191.2	9.06	14.83	29.04	0
9/15/2018 15:45	5.74	162.2	14.85	14.68	29.04	0
9/15/2018 16:00	6.331	153	7.72	14.47	29.06	0
9/15/2018 16:15	6.839	156	7.195	14.25	29.06	0
9/15/2018 16:30	8.66	155.3	8.32	14.15	29.06	0
9/15/2018 16:45	9.1	174.3	15.19	14.32	29.06	0
9/15/2018 17:00	10.37	188.9	9.17	14.19	29.06	0
9/15/2018 17:15	9.19	196.6	7.859	13.94	29.06	0
9/15/2018 17:30	8.26	194.5	7.047	13.71	29.06	0
9/15/2018 17:45	6.717	182.5	9.14	13.67	29.06	0
9/15/2018 18:00	5.531	172.8	10.93	13.57	29.07	0
9/15/2018 18:15	5.458	162.4	13.39	13.35	29.07	0
9/15/2018 18:30	6.007	159.9	9.17	13.18	29.07	0
9/15/2018 18:45	6.102	162.9	8.78	12.94	29.07	0
9/15/2018 19:00	7.419	167.3	12.16	13.07	29.07	0
9/15/2018 19:15	5.922	183.1	10.97	12.99	29.07	0

9/15/2018 19:30	4.242	148.5	10.11	12.62	29.07	0
9/15/2018 19:45	5.99	155.8	7.369	12.49	29.07	0
9/15/2018 20:00	5.645	166.3	13.25	12.45	29.05	0
9/15/2018 20:15	5.85	152.7	5.975	12.32	29.05	0.01
9/15/2018 20:30	6.366	140.2	6.944	12.47	29.05	0
9/15/2018 20:45	6.402	142.4	6.739	12.35	29.05	0
9/15/2018 21:00	5.667	140.8	6.167	12.26	29.07	0
9/15/2018 21:15	5.403	140.7	6.776	12.18	29.07	0
9/15/2018 21:30	6.174	132	5.539	12.32	29.07	0
9/15/2018 21:45	5.645	120.1	6.749	12.42	29.07	0
9/15/2018 22:00	5.403	130.3	10.48	12.43	29.04	0
9/15/2018 22:15	4.896	132.3	10.3	12.54	29.04	0
9/15/2018 22:30	3.558	158.9	16.31	12.41	29.04	0
9/15/2018 22:45	5.677	154.9	10.47	12.11	29.04	0
9/15/2018 23:00	4.869	127.4	7.663	12.15	29.05	0
9/15/2018 23:15	5.817	128.1	7.922	12.28	29.05	0
9/15/2018 23:30	5.867	138.6	11.22	12.49	29.05	0
9/15/2018 23:45	5.858	145.1	24.32	12.62	29.05	0
9/16/2018 0:00	5.86	163.8	20.45	12.6	29.03	0
9/16/2018 0:15	6.483	173.3	20.7	12.51	29.03	0
9/16/2018 0:30	4.639	138.7	9.84	12.17	29.03	0
9/16/2018 0:45	4.931	130.1	8.39	12.27	29.03	0
9/16/2018 1:00	5.983	129.1	7.74	12.58	29.04	0
9/16/2018 1:15	5.756	122.4	6.624	12.59	29.04	0
9/16/2018 1:30	6.245	135.9	6.997	12.78	29.04	0
9/16/2018 1:45	5.61	126.6	9.11	12.77	29.04	0
9/16/2018 2:00	5.366	141.7	12.73	12.67	29.01	0
9/16/2018 2:15	6.146	138.1	12.87	12.72	29.01	0
9/16/2018 2:30	5.754	144.9	28.79	12.64	29.01	0
9/16/2018 2:45	6.775	141.6	7.893	12.97	29.01	0
9/16/2018 3:00	6.861	157.1	11.54	12.81	29.02	0
9/16/2018 3:15	7.672	134.6	12.11	12.78	29.02	0
9/16/2018 3:30	5.498	124.5	9.21	12.67	29.02	0
9/16/2018 3:45	6.363	135.9	7.237	12.8	29.02	0
9/16/2018 4:00	6.289	136.1	8.62	12.88	28.98	0
9/16/2018 4:15	5.874	134.7	13.08	12.84	28.98	0
9/16/2018 4:30	6.325	166.1	23.61	12.45	28.98	0.01
9/16/2018 4:45	8.14	138.1	11.09	12.11	28.98	0.02
9/16/2018 5:00	7.2	123.8	9.04	11.97	29	0
9/16/2018 5:15	7.631	126.7	8.23	11.95	29	0
9/16/2018 5:30	8.36	126.5	8.49	12.12	29	0
9/16/2018 5:45	8.03	129.2	7.154	12.09	29	0.01
9/16/2018 6:00	8.4	148.3	12.59	11.77	29.01	0.03
9/16/2018 6:15	10.15	143.2	13.11	11.34	29.01	0.03
9/16/2018 6:30	9.59	155.1	28.06	11.35	29.01	0.09
9/16/2018 6:45	10.29	156.7	9.81	11.04	29.01	0.02
9/16/2018 7:00	12.18	155.7	10.55	10.94	29.03	0.01

9/16/2018 7:15	10.56	151.4	14.27	10.72	29.03	0.01
9/16/2018 7:30	6.853	133.6	9.33	10.51	29.03	0.01
9/16/2018 7:45	6.151	130.9	7.427	10.55	29.03	0.01
9/16/2018 8:00	6.25	136.9	9.73	10.76	29.05	0
9/16/2018 8:15	7.642	147.1	9.07	10.97	29.05	0.01
9/16/2018 8:30	7.593	133.9	10.01	11.18	29.05	0
9/16/2018 8:45	8.23	140.1	9.43	11.56	29.05	0
9/16/2018 9:00	7.666	196.7	69.39	11.98	29.09	0.04
9/16/2018 9:15	11.84	217.6	22.65	11.61	29.09	0.08
9/16/2018 9:30	11.47	191.8	12.45	11.55	29.09	0.01
9/16/2018 9:45	10.54	187.2	10.8	10.88	29.09	0.02
9/16/2018 10:00	8.12	170.4	15.81	10.82	29.1	0
9/16/2018 10:15	5.852	137.9	10.43	10.89	29.1	0
9/16/2018 10:30	4.98	150.2	26.67	12.36	29.1	0
9/16/2018 10:45	7.326	183.2	13.48	13.16	29.1	0
9/16/2018 11:00	8.76	170.5	15.13	14.09	29.12	0
9/16/2018 11:15	7.943	174.8	15.22	14.67	29.12	0
9/16/2018 11:30	7.511	180.4	21.11	14.95	29.12	0
9/16/2018 11:45	7.26	178.9	21.05	14.54	29.12	0.02
9/16/2018 12:00	17.48	216.2	13.21	10.77	29.12	0.25
9/16/2018 12:15	8.75	199.6	23.03	11.01	29.12	0.01
9/16/2018 12:30	4.978	150.9	22.02	11.2	29.12	0
9/16/2018 12:45	4.443	162.8	25.73	11.56	29.12	0
9/16/2018 13:00	3.946	116.7	24.07	12.12	29.14	0.01
9/16/2018 13:15	5.172	123.5	20	12.69	29.14	0
9/16/2018 13:30	4.428	121.3	17.44	13.09	29.14	0
9/16/2018 13:45	3.346	120.3	17.93	13.14	29.14	0
9/16/2018 14:00	7.599	208.7	13.6	13.21	29.17	0.08
9/16/2018 14:15	11.82	202.3	16.2	13.67	29.17	0
9/16/2018 14:30	8.36	161.5	17.16	13.99	29.17	0
9/16/2018 14:45	6.614	162.4	16.28	14.61	29.17	0
9/16/2018 15:00	8.01	163.4	12.66	14.37	29.17	0
9/16/2018 15:15	8.08	149.2	10.57	14.17	29.17	0
9/16/2018 15:30	8.45	147.1	9.86	14.34	29.17	0
9/16/2018 15:45	7.001	156.2	10.38	14.31	29.17	0
9/16/2018 16:00	6.943	186.3	8.26	15.12	29.16	0
9/16/2018 16:15	8.24	185.6	11.85	15.74	29.16	0
9/16/2018 16:30	10	190.2	10.62	15.31	29.16	0
9/16/2018 16:45	7.849	168.9	15.56	15.28	29.16	0
9/16/2018 17:00	8.94	182.5	12.48	15.14	29.18	0
9/16/2018 17:15	11.97	215.3	17.75	15.35	29.18	0
9/16/2018 17:30	10.7	214.5	10.78	15.23	29.18	0
9/16/2018 17:45	11.58	201.8	8.65	15.05	29.18	0
9/16/2018 18:00	11.53	217.4	8.07	14.85	29.21	0
9/16/2018 18:15	8.85	223.1	9.08	14.64	29.21	0
9/16/2018 18:30	9.59	206.6	11.32	14.29	29.21	0
9/16/2018 18:45	11.69	216	7.723	14.02	29.21	0

9/16/2018 19:00	9.94	214.3	9.39	13.92	29.23	0
9/16/2018 19:15	7.02	199.1	14.32	13.77	29.23	0
9/16/2018 19:30	8	217.4	14.01	13.72	29.23	0
9/16/2018 19:45	4.718	160	30.76	13.38	29.23	0
9/16/2018 20:00	7.024	170.3	17.08	13.01	29.25	0
9/16/2018 20:15	4.737	195.6	8.38	12.94	29.25	0
9/16/2018 20:30	2.957	167.6	19.88	12.77	29.25	0
9/16/2018 20:45	3.199	160.3	12.04	12.34	29.25	0
9/16/2018 21:00	4.515	158.8	15.43	11.87	29.26	0
9/16/2018 21:15	3.742	132.1	7.326	11.66	29.26	0
9/16/2018 21:30	3.094	134.6	39.12	11.46	29.26	0
9/16/2018 21:45	0.708	95.2	39.33	11.24	29.26	0
9/16/2018 22:00	3.923	169.1	20.29	11.4	29.28	0
9/16/2018 22:15	2.37	131.3	51.66	11.32	29.28	0
9/16/2018 22:30	3.047	115.4	31.31	11.08	29.28	0
9/16/2018 22:45	3.495	122.5	11.91	10.93	29.28	0
9/16/2018 23:00	3.813	126.8	9.48	10.95	29.29	0
9/16/2018 23:15	4.958	141.9	8.16	10.98	29.29	0
9/16/2018 23:30	2.902	151.7	19.61	10.81	29.29	0
9/16/2018 23:45	2.153	146.2	17.13	10.74	29.29	0
9/17/2018 0:00	3.241	143.4	8.43	10.86	29.3	0
9/17/2018 0:15	4.631	143.4	7.611	10.84	29.3	0
9/17/2018 0:30	4.829	134.2	5.607	11.15	29.3	0
9/17/2018 0:45	4.982	137.6	3.591	11.24	29.3	0
9/17/2018 1:00	4.304	132	6.927	11.16	29.3	0
9/17/2018 1:15	4.724	136.5	5.914	11.14	29.3	0
9/17/2018 1:30	4.481	138.5	3.758	10.94	29.3	0
9/17/2018 1:45	3.81	137.1	3.734	10.75	29.3	0
9/17/2018 2:00	2.981	132.3	7.663	10.75	29.3	0
9/17/2018 2:15	2.18	111.5	4.804	10.45	29.3	0
9/17/2018 2:30	1.882	114.7	5.55	10.49	29.3	0
9/17/2018 2:45	1.719	113.8	0.897	10.33	29.3	0
9/17/2018 3:00	0.354	113.7	0.118	10.15	29.28	0
9/17/2018 3:15	0.072	113.7	0.014	10.03	29.28	0
9/17/2018 3:30	0.68	42.45	11.89	9.7	29.28	0
9/17/2018 3:45	2.794	30.49	2.3	9.69	29.28	0
9/17/2018 4:00	0.493	30.94	0.093	9.66	29.28	0
9/17/2018 4:15	0.293	32.47	0.123	9.61	29.28	0
9/17/2018 4:30	0.416	34.39	3.915	9.21	29.28	0
9/17/2018 4:45	0.5	38.18	20.92	9.22	29.28	0
9/17/2018 5:00	1.319	19.26	1.198	9.39	29.3	0
9/17/2018 5:15	1.783	16.91	11.32	9.51	29.3	0
9/17/2018 5:30	2.038	22.94	0.688	9.6	29.3	0
9/17/2018 5:45	0.641	23.58	0.07	9.17	29.3	0
9/17/2018 6:00	0.21	23.58	0.063	8.94	29.29	0
9/17/2018 6:15	0.551	358.3	15.71	9.1	29.29	0
9/17/2018 6:30	0.194	344.7	0.015	8.98	29.29	0

9/17/2018 6:45	0.358	344.8	0.08	8.92	29.29	0
9/17/2018 7:00	0.018	344.8	0.002	9.37	29.32	0
9/17/2018 7:15	0.798	344.8	0.019	9.73	29.32	0
9/17/2018 7:30	0.501	0.415	18.32	9.84	29.32	0
9/17/2018 7:45	0.562	33.23	1.098	10.03	29.32	0
9/17/2018 8:00	0.431	32.7	0.108	10.01	29.32	0
9/17/2018 8:15	0.595	38.75	3.31	10.24	29.32	0
9/17/2018 8:30	0.772	38.86	6.679	10.36	29.32	0
9/17/2018 8:45	2.859	18.83	7.797	11.13	29.32	0
9/17/2018 9:00	3.092	38.91	11.63	11.69	29.31	0
9/17/2018 9:15	3.624	348.1	23.2	12.22	29.31	0
9/17/2018 9:30	4.192	349.1	18.05	12.9	29.31	0
9/17/2018 9:45	5.318	4.7	19.9	13.01	29.31	0
9/17/2018 10:00	6.307	45.88	12.16	13.17	29.3	0
9/17/2018 10:15	7.993	33.7	10.32	13.64	29.3	0
9/17/2018 10:30	8.44	26.68	12.19	13.75	29.3	0
9/17/2018 10:45	5.944	35.41	20.73	14.18	29.3	0
9/17/2018 11:00	7.186	21.94	24.97	14.25	29.32	0
9/17/2018 11:15	4.086	355.4	39.51	14.37	29.32	0
9/17/2018 11:30	7.227	30.21	17.09	14.75	29.32	0
9/17/2018 11:45	4.736	336.7	28.72	14.68	29.32	0
9/17/2018 12:00	4.245	304.5	26.69	15.09	29.31	0
9/17/2018 12:15	6.392	356.6	37.68	15.53	29.31	0
9/17/2018 12:30	7.286	38.54	12.54	14.95	29.31	0
9/17/2018 12:45	5.261	349.1	31.38	15.75	29.31	0
9/17/2018 13:00	4.561	16.61	41.2	16	29.29	0
9/17/2018 13:15	6.003	38.56	11.69	15.23	29.29	0
9/17/2018 13:30	6.367	7.663	32.16	15.37	29.29	0
9/17/2018 13:45	4.548	340.1	14.29	15.58	29.29	0
9/17/2018 14:00	4.238	310.1	13.68	15.95	29.28	0
9/17/2018 14:15	5.409	313.3	35.92	16.77	29.28	0
9/17/2018 14:30	6.652	334.3	28.46	16.94	29.28	0
9/17/2018 14:45	5.386	331.3	30.47	17.37	29.28	0
9/17/2018 15:00	6.274	333.7	21.09	17.11	29.25	0
9/17/2018 15:15	7.288	328.9	26.03	17.02	29.25	0
9/17/2018 15:30	8.45	324.9	18.54	17.1	29.25	0
9/17/2018 15:45	7.945	346.9	29.17	17.1	29.25	0
9/17/2018 16:00	7.663	322.8	14.48	17.1	29.26	0
9/17/2018 16:15	9.04	316.3	14.56	16.8	29.26	0
9/17/2018 16:30	9.11	312.7	11.23	16.79	29.26	0
9/17/2018 16:45	9.75	313.4	9.96	16.45	29.26	0
9/17/2018 17:00	8.66	322.7	7.724	16.17	29.26	0
9/17/2018 17:15	8.5	320.5	7.922	15.87	29.26	0
9/17/2018 17:30	9.5	325.6	6.177	15.53	29.26	0
9/17/2018 17:45	8.56	323.1	5.154	15.14	29.26	0
9/17/2018 18:00	6.772	318.6	9.45	14.73	29.26	0
9/17/2018 18:15	7.647	306.6	7.677	14.19	29.26	0

9/17/2018 18:30	6.979	309.2	9.67	13.84	29.26	0
9/17/2018 18:45	6.58	309.2	10.12	13.49	29.26	0
9/17/2018 19:00	5.462	321.2	18.83	13.37	29.26	0
9/17/2018 19:15	5.183	348.1	26.19	12.94	29.26	0
9/17/2018 19:30	5.649	18.23	24.81	12.84	29.26	0
9/17/2018 19:45	4.603	10.4	18.56	12.43	29.26	0
9/17/2018 20:00	4.774	4.238	18.09	12.42	29.28	0
9/17/2018 20:15	6.454	11.89	15.68	12.53	29.28	0
9/17/2018 20:30	6.021	16.55	19.63	12.19	29.28	0
9/17/2018 20:45	5.65	38.32	23.85	11.55	29.28	0
9/17/2018 21:00	6.915	36.73	10.96	11.14	29.27	0
9/17/2018 21:15	7.366	32.38	14.54	11.21	29.27	0
9/17/2018 21:30	6.87	30.88	15.99	10.95	29.27	0
9/17/2018 21:45	7.212	25.09	12.36	10.83	29.27	0
9/17/2018 22:00	8.57	28.99	13.56	10.7	29.27	0
9/17/2018 22:15	7.055	40.06	10.22	10.44	29.27	0
9/17/2018 22:30	6.357	39.8	12.98	10.23	29.27	0
9/17/2018 22:45	5.034	26.87	24.16	10.36	29.27	0
9/17/2018 23:00	6.198	39.06	17.25	10.21	29.27	0
9/17/2018 23:15	6.571	38.97	16.94	10.15	29.27	0
9/17/2018 23:30	7.543	38.22	12.09	10.03	29.27	0
9/17/2018 23:45	6.742	34.59	13.96	10.05	29.27	0
9/18/2018 0:00	6.756	46.79	8.57	9.84	29.26	0
9/18/2018 0:15	7.82	40.23	9.12	9.9	29.26	0
9/18/2018 0:30	8.63	36.01	6.414	9.89	29.26	0
9/18/2018 0:45	8.01	32.39	7.583	9.8	29.26	0
9/18/2018 1:00	6.871	36.21	6.845	9.26	29.28	0
9/18/2018 1:15	7.442	32.64	9.39	9.04	29.28	0
9/18/2018 1:30	7.91	24.55	6	9.06	29.28	0
9/18/2018 1:45	6.3	29.89	13.33	8.81	29.28	0
9/18/2018 2:00	6.422	29.51	10.65	8.87	29.28	0
9/18/2018 2:15	6.454	35.5	17.06	8.91	29.28	0
9/18/2018 2:30	6.539	42.92	13.82	9.03	29.28	0
9/18/2018 2:45	5.205	56.12	10.51	8.73	29.28	0
9/18/2018 3:00	3.64	59.41	14.28	8.43	29.27	0
9/18/2018 3:15	2.59	67.18	12.82	8.51	29.27	0
9/18/2018 3:30	0.557	52.73	1.666	8.31	29.27	0
9/18/2018 3:45	0.544	27.43	65.67	8.45	29.27	0
9/18/2018 4:00	1.843	47.39	11.4	8.13	29.29	0
9/18/2018 4:15	3.256	47	14.47	7.803	29.29	0
9/18/2018 4:30	3.442	49.74	10.46	7.585	29.29	0
9/18/2018 4:45	2.923	61.11	13.92	7.848	29.29	0
9/18/2018 5:00	1.95	31.43	23.27	8.11	29.27	0
9/18/2018 5:15	1.653	35.63	9.47	8.26	29.27	0
9/18/2018 5:30	1.692	348.1	5.935	7.834	29.27	0
9/18/2018 5:45	0.366	276.3	18.81	7.839	29.27	0
9/18/2018 6:00	0.919	247.4	26.39	8.07	29.3	0

9/18/2018 6:15	1.9	345.6	7.81	7.931	29.3	0
9/18/2018 6:30	2.229	24.19	16.11	8.24	29.3	0
9/18/2018 6:45	1.351	35.29	0.705	8.11	29.3	0
9/18/2018 7:00	0.992	35.42	1.038	8.86	29.31	0
9/18/2018 7:15	2.601	27.35	9.13	9.16	29.31	0
9/18/2018 7:30	4.107	25.04	12.12	9.24	29.31	0
9/18/2018 7:45	2.497	12.73	15.2	9.44	29.31	0
9/18/2018 8:00	2.702	30.98	15.46	9.97	29.31	0
9/18/2018 8:15	3.91	35.23	9.04	10.06	29.31	0
9/18/2018 8:30	5.735	31.35	10.62	10.22	29.31	0
9/18/2018 8:45	5.49	25.81	10.68	10.72	29.31	0
9/18/2018 9:00	4.502	23.74	20.85	11.07	29.29	0
9/18/2018 9:15	4.52	38.39	10.02	11.53	29.29	0
9/18/2018 9:30	5.769	31.89	12.9	11.74	29.29	0
9/18/2018 9:45	4.6	32.26	12.4	12.08	29.29	0
9/18/2018 10:00	5.349	35.6	12.68	12.43	29.28	0
9/18/2018 10:15	5.382	41.45	12.26	12.57	29.28	0
9/18/2018 10:30	6.456	25.72	10.02	12.85	29.28	0
9/18/2018 10:45	4.729	32.45	16.39	13.13	29.28	0
9/18/2018 11:00	3.798	9.54	23.44	13.93	29.3	0
9/18/2018 11:15	4.277	22.78	41.21	14.3	29.3	0
9/18/2018 11:30	3.78	320.1	41.11	14.77	29.3	0
9/18/2018 11:45	5.165	327.6	27.87	14.7	29.3	0
9/18/2018 12:00	3.84	359.2	49.43	15.18	29.29	0
9/18/2018 12:15	4.258	18	18.06	15.34	29.29	0
9/18/2018 12:30	5.111	2.17	34.51	15.74	29.29	0
9/18/2018 12:45	3.709	334.9	50.76	16.04	29.29	0
9/18/2018 13:00	5.734	330.4	45.5	16.41	29.28	0
9/18/2018 13:15	7.775	340.2	30.27	16.32	29.28	0
9/18/2018 13:30	7.367	322.7	12.79	16.96	29.28	0
9/18/2018 13:45	6.917	317.3	11.79	16.93	29.28	0
9/18/2018 14:00	7.98	323.9	13.79	16.95	29.27	0
9/18/2018 14:15	5.619	349.9	25.83	16.87	29.27	0
9/18/2018 14:30	6.234	348.9	21.55	17.08	29.27	0
9/18/2018 14:45	5.281	342.2	16.97	17.34	29.27	0
9/18/2018 15:00	6.928	341.9	22.65	17.4	29.24	0
9/18/2018 15:15	5.642	359.5	30.14	17.74	29.24	0
9/18/2018 15:30	6.094	10.61	19.17	17.53	29.24	0
9/18/2018 15:45	5.971	341.6	21.31	17.77	29.24	0
9/18/2018 16:00	6.199	355.4	24.68	17.83	29.23	0
9/18/2018 16:15	6.916	342.8	22.05	17.67	29.23	0
9/18/2018 16:30	8.4	323.5	7.055	17.44	29.23	0
9/18/2018 16:45	7.913	329.1	7.583	17.23	29.23	0
9/18/2018 17:00	6.772	322	7.29	16.89	29.25	0
9/18/2018 17:15	6.934	314.6	8.01	16.44	29.25	0
9/18/2018 17:30	7.459	313	6.501	16.08	29.25	0
9/18/2018 17:45	7.486	309.6	5.93	15.61	29.25	0

9/18/2018 18:00	7.657	315	4.156	15.14	29.25	0
9/18/2018 18:15	7.233	316.3	3.008	14.66	29.25	0
9/18/2018 18:30	7.323	316.1	4.941	14.56	29.25	0
9/18/2018 18:45	6.559	322.2	11.52	14.4	29.25	0
9/18/2018 19:00	3.917	358.4	21.87	14.29	29.27	0
9/18/2018 19:15	4.191	12.88	15.31	14.09	29.27	0
9/18/2018 19:30	6.457	23.74	14.18	13.41	29.27	0
9/18/2018 19:45	7.195	33.9	6.324	12.92	29.27	0
9/18/2018 20:00	8.58	28.81	4.2	12.91	29.26	0
9/18/2018 20:15	8.25	29.37	3.563	12.92	29.26	0
9/18/2018 20:30	6.141	34.78	3.096	12.47	29.26	0
9/18/2018 20:45	6.474	30.24	2.454	12.14	29.26	0
9/18/2018 21:00	6.716	28.85	4.707	11.74	29.25	0
9/18/2018 21:15	7.24	22.89	5.333	11.66	29.25	0
9/18/2018 21:30	6.597	17.8	6.77	11.34	29.25	0
9/18/2018 21:45	6.088	28.19	4.664	10.9	29.25	0
9/18/2018 22:00	4.487	46.39	19.13	10.56	29.23	0
9/18/2018 22:15	2.118	65.63	10.43	10.51	29.23	0
9/18/2018 22:30	2.307	57.25	4.715	11.33	29.23	0
9/18/2018 22:45	2.354	83.9	12.37	11.36	29.23	0
9/18/2018 23:00	1.348	183.8	21.27	11.65	29.23	0
9/18/2018 23:15	1.362	29.69	24.68	11.82	29.23	0
9/18/2018 23:30	1.412	14.47	8.56	11.58	29.23	0
9/18/2018 23:45	1.312	42.45	6.385	10.98	29.23	0
9/19/2018 0:00	2.545	41.1	7.588	11.14	29.23	0
9/19/2018 0:15	2.915	28.38	2.518	10.22	29.23	0
9/19/2018 0:30	3.214	40.61	6.666	10.05	29.23	0
9/19/2018 0:45	1.876	49.86	18.66	10.06	29.23	0
9/19/2018 1:00	2.25	86.2	4.2	9.89	29.23	0
9/19/2018 1:15	0.402	88.2	1.041	9.97	29.23	0
9/19/2018 1:30	0.438	66.15	0.317	10.17	29.23	0
9/19/2018 1:45	0.233	74.03	2.753	10.57	29.23	0
9/19/2018 2:00	0.584	73.71	1.476	9.38	29.26	0
9/19/2018 2:15	1.393	74.44	1.521	9.24	29.26	0
9/19/2018 2:30	2.553	96.9	14.61	10.07	29.26	0
9/19/2018 2:45	2.63	112.8	5.929	9.71	29.26	0
9/19/2018 3:00	2.314	107.1	8.07	9.3	29.24	0
9/19/2018 3:15	2.734	126.1	5.789	9.98	29.24	0
9/19/2018 3:30	1.428	140.3	3.757	10.11	29.24	0
9/19/2018 3:45	3.062	189	14.47	9.79	29.24	0
9/19/2018 4:00	2.815	196.5	17.01	9.1	29.26	0
9/19/2018 4:15	2.125	149.7	18.76	8.98	29.26	0
9/19/2018 4:30	1.651	104.2	4.463	8.87	29.26	0
9/19/2018 4:45	0.287	97.9	0.136	9.08	29.26	0
9/19/2018 5:00	1.144	98.1	0.183	9.23	29.26	0
9/19/2018 5:15	0.796	98	0.108	9.08	29.26	0
9/19/2018 5:30	1.543	140.8	46.5	8.99	29.26	0

9/19/2018 5:45	3.982	183.1	13.07	8.77	29.26	0
9/19/2018 6:00	2.379	158.8	5.591	8.94	29.27	0
9/19/2018 6:15	2.229	110.1	15.95	8.94	29.27	0
9/19/2018 6:30	3.208	94.1	2.921	8.74	29.27	0
9/19/2018 6:45	2.723	108.7	3.074	8.63	29.27	0
9/19/2018 7:00	1.411	116.4	14.6	9.72	29.27	0
9/19/2018 7:15	3.032	153.5	5.953	10.39	29.27	0
9/19/2018 7:30	4.328	200.2	10.36	9.67	29.27	0
9/19/2018 7:45	5.03	187.5	9.16	9.8	29.27	0
9/19/2018 8:00	4.98	160.8	9.86	10.52	29.28	0
9/19/2018 8:15	4.891	162.9	11.39	11.56	29.28	0
9/19/2018 8:30	4.835	187.6	12.68	11.35	29.28	0
9/19/2018 8:45	4.44	148.6	17.74	12.21	29.28	0
9/19/2018 9:00	3.973	166.5	24.85	12.25	29.29	0
9/19/2018 9:15	3.797	196.6	13.19	12.42	29.29	0
9/19/2018 9:30	3.561	154.8	20.25	13.66	29.29	0
9/19/2018 9:45	3.852	161.2	20.63	13.69	29.29	0
9/19/2018 10:00	5.158	211.6	12.34	13.61	29.27	0
9/19/2018 10:15	4.492	202.6	20.16	13.97	29.27	0
9/19/2018 10:30	4.726	209	14.5	14.32	29.27	0
9/19/2018 10:45	3.48	192.8	20.97	15	29.27	0
9/19/2018 11:00	3.388	196.5	27.85	15.35	29.28	0
9/19/2018 11:15	3.397	188.5	33.68	15.91	29.28	0
9/19/2018 11:30	4.375	204.1	34.1	16.05	29.28	0
9/19/2018 11:45	4.751	199.8	32.48	16.59	29.28	0
9/19/2018 12:00	4.185	217.8	43.17	16.68	29.25	0
9/19/2018 12:15	4.904	265.2	16.33	16.87	29.25	0
9/19/2018 12:30	3.424	268	29.75	17.04	29.25	0
9/19/2018 12:45	5.457	312	17.69	16.23	29.25	0
9/19/2018 13:00	5.648	303.4	27.36	17.14	29.26	0
9/19/2018 13:15	7.188	297.2	17.74	17.57	29.26	0
9/19/2018 13:30	9.2	282.4	15.11	17.62	29.26	0
9/19/2018 13:45	8.59	282.9	17.29	17.59	29.26	0
9/19/2018 14:00	6.866	273.5	31.53	17.77	29.26	0
9/19/2018 14:15	5.785	253.6	42.21	17.81	29.26	0
9/19/2018 14:30	4.831	257.7	31.45	18.01	29.26	0
9/19/2018 14:45	6.259	223.9	27.67	18.28	29.26	0
9/19/2018 15:00	7.877	252.7	11.11	17.98	29.24	0
9/19/2018 15:15	5.72	244.3	28.98	18.16	29.24	0
9/19/2018 15:30	6.222	256.7	18.86	18.17	29.24	0
9/19/2018 15:45	7.024	266.6	17.67	18.12	29.24	0
9/19/2018 16:00	7.161	257.9	18.13	17.91	29.23	0
9/19/2018 16:15	7.114	241.8	13.69	17.88	29.23	0
9/19/2018 16:30	7.911	232.5	14.84	17.61	29.23	0
9/19/2018 16:45	7.911	231.4	10.6	17.56	29.23	0
9/19/2018 17:00	7.834	232.8	11.17	17.23	29.24	0
9/19/2018 17:15	7.127	247.3	13.83	16.66	29.24	0

9/19/2018 17:30	6.756	253	6.18	16.31	29.24	0
9/19/2018 17:45	6.389	256.7	7.392	16.12	29.24	0
9/19/2018 18:00	4.604	261.6	5.517	16.1	29.25	0
9/19/2018 18:15	4.418	268.8	6.485	16.08	29.25	0
9/19/2018 18:30	7.13	252.8	7.889	15.83	29.25	0
9/19/2018 18:45	6.617	254.2	6.485	15.38	29.25	0
9/19/2018 19:00	5.538	251.7	6.046	15.22	29.25	0
9/19/2018 19:15	4.508	259.1	10.52	14.99	29.25	0
9/19/2018 19:30	5.553	257.5	9.06	14.78	29.25	0
9/19/2018 19:45	5.811	231.2	17.94	14.52	29.25	0
9/19/2018 20:00	7.203	202.2	11.8	14.06	29.28	0
9/19/2018 20:15	5.924	204.8	8.22	13.44	29.28	0
9/19/2018 20:30	3.765	220.6	11.92	13.37	29.28	0
9/19/2018 20:45	3.95	242.1	14.1	13.02	29.28	0
9/19/2018 21:00	2.732	237.8	9.18	12.83	29.28	0.02
9/19/2018 21:15	0.712	243.4	15.94	12.61	29.28	0.01
9/19/2018 21:30	0.62	48.09	5.104	12.41	29.28	0.01
9/19/2018 21:45	2.136	60.05	2.645	12.1	29.28	0.01
9/19/2018 22:00	1.263	49.22	5.615	12.09	29.26	0.03
9/19/2018 22:15	0.373	93	2.823	12.08	29.26	0.04
9/19/2018 22:30	0.358	93.8	0.384	12.05	29.26	0.01
9/19/2018 22:45	0.803	90.8	2.205	12.07	29.26	0
9/19/2018 23:00	0.275	93	2.348	12.09	29.28	0
9/19/2018 23:15	2.285	140.3	15.79	12.14	29.28	0
9/19/2018 23:30	2.71	134.4	7.336	12.19	29.28	0
9/19/2018 23:45	2.603	133.2	10.28	12.18	29.28	0
9/20/2018 0:00	3.55	54.16	14.25	11.85	29.26	0.01
9/20/2018 0:15	4.678	51.09	22.63	11.41	29.26	0
9/20/2018 0:30	2.764	50.34	30.37	11.34	29.26	0
9/20/2018 0:45	7.733	35.37	12.86	11.17	29.26	0
9/20/2018 1:00	5.959	28.24	5.328	11.05	29.29	0.06
9/20/2018 1:15	2.284	44	22.04	11.01	29.29	0.02
9/20/2018 1:30	3.908	75.76	10.86	10.94	29.29	0.02
9/20/2018 1:45	4.825	93.1	9.43	10.92	29.29	0.02
9/20/2018 2:00	5.769	114.5	8.8	10.9	29.27	0.03
9/20/2018 2:15	6.529	107.8	18.25	10.99	29.27	0.01
9/20/2018 2:30	5.698	130.7	9.5	11.2	29.27	0.01
9/20/2018 2:45	6.57	113.3	36.47	10.94	29.27	0
9/20/2018 3:00	7.16	150.5	8.31	10.84	29.28	0.03
9/20/2018 3:15	5.47	147.4	11.6	10.7	29.28	0.01
9/20/2018 3:30	1.84	81.6	18.25	10.71	29.28	0
9/20/2018 3:45	4.161	139.3	11.62	10.63	29.28	0
9/20/2018 4:00	3.019	120.9	19.6	10.63	29.29	0
9/20/2018 4:15	4.066	131.3	17.19	10.57	29.29	0.01
9/20/2018 4:30	1.929	85.7	13.61	10.54	29.29	0
9/20/2018 4:45	2.011	109.6	5.117	10.47	29.29	0
9/20/2018 5:00	2.776	56.91	11.38	10.55	29.32	0

9/20/2018 5:15	3.631	65.81	6.218	10.46	29.32	0
9/20/2018 5:30	4.096	79.18	5.225	10.4	29.32	0
9/20/2018 5:45	3.52	73.21	4.493	10.39	29.32	0
9/20/2018 6:00	3.16	83	4.944	10.36	29.33	0
9/20/2018 6:15	3.291	99.5	11.31	10.5	29.33	0
9/20/2018 6:30	3.526	126.3	7.235	10.66	29.33	0
9/20/2018 6:45	2.13	95.2	22.37	10.72	29.33	0
9/20/2018 7:00	2.478	66.54	9.37	10.55	29.33	0
9/20/2018 7:15	3.404	103.2	10.91	10.51	29.33	0
9/20/2018 7:30	3.302	155.8	23.94	10.69	29.33	0
9/20/2018 7:45	5.581	189.7	18.71	10.89	29.33	0
9/20/2018 8:00	6.465	156.7	8.34	10.99	29.33	0
9/20/2018 8:15	6.319	143.8	7.925	11.09	29.33	0
9/20/2018 8:30	4.904	140	6.59	11.21	29.33	0
9/20/2018 8:45	4.547	136.2	9.24	11.26	29.33	0
9/20/2018 9:00	3.292	109.4	23.43	11.35	29.36	0
9/20/2018 9:15	4.618	100.9	8.97	11.45	29.36	0
9/20/2018 9:30	4.323	99.5	9.28	11.81	29.36	0
9/20/2018 9:45	4.626	99.6	8.94	11.78	29.36	0
9/20/2018 10:00	3.76	120.6	17.15	12.72	29.34	0
9/20/2018 10:15	4.185	96.5	23.04	12.7	29.34	0
9/20/2018 10:30	5.448	98.8	13.72	12.59	29.34	0
9/20/2018 10:45	4.671	97.4	10.53	12.59	29.34	0
9/20/2018 11:00	5.264	134.1	17.7	13.32	29.34	0
9/20/2018 11:15	5.085	133.3	18.24	13.86	29.34	0
9/20/2018 11:30	4.505	126.1	47.91	14.16	29.34	0
9/20/2018 11:45	3.921	198.2	23.64	14.19	29.34	0
9/20/2018 12:00	4.154	205.2	22.02	14.81	29.31	0
9/20/2018 12:15	3.788	158.1	33.74	15.29	29.31	0
9/20/2018 12:30	5.114	184	34.51	15.5	29.31	0
9/20/2018 12:45	6.49	189.5	23.61	15.68	29.31	0
9/20/2018 13:00	4.038	191.5	30.65	15.63	29.29	0
9/20/2018 13:15	4.955	197.8	29.66	15.76	29.29	0
9/20/2018 13:30	4.806	195.3	17.96	15.97	29.29	0
9/20/2018 13:45	2.576	219.1	47.68	16.17	29.29	0
9/20/2018 14:00	2.927	238.8	23.44	16.61	29.3	0
9/20/2018 14:15	3.18	289.1	23.46	16.46	29.3	0
9/20/2018 14:30	4.644	261.7	20.41	16.55	29.3	0
9/20/2018 14:45	6.991	284.2	12.86	16.45	29.3	0
9/20/2018 15:00	6.962	285.7	11.34	16.21	29.3	0
9/20/2018 15:15	5.368	274.1	10.56	16.14	29.3	0
9/20/2018 15:30	4.844	293.7	11.86	15.98	29.3	0
9/20/2018 15:45	3.257	300.4	10.77	15.94	29.3	0
9/20/2018 16:00	1.114	304.6	10.2	16.11	29.3	0
9/20/2018 16:15	2.538	43.07	24.56	16.08	29.3	0
9/20/2018 16:30	3.211	74.08	7.614	15.74	29.3	0
9/20/2018 16:45	3.142	77.05	1.227	15.6	29.3	0

9/20/2018 17:00	2.611	77.79	8.52	15.68	29.27	0
9/20/2018 17:15	1.934	80.4	4.535	15.72	29.27	0
9/20/2018 17:30	2.56	88.8	7.512	15.6	29.27	0
9/20/2018 17:45	1.577	89.6	1.295	15.43	29.27	0
9/20/2018 18:00	2.24	97.7	4.502	15.27	29.29	0
9/20/2018 18:15	2.377	107.3	12.91	15.14	29.29	0
9/20/2018 18:30	1.713	134.1	0.274	15.24	29.29	0
9/20/2018 18:45	1.769	132.7	2.694	15.06	29.29	0
9/20/2018 19:00	0.946	106.5	1.794	14.76	29.27	0
9/20/2018 19:15	0.779	138.7	43.39	14.77	29.27	0
9/20/2018 19:30	3.117	200.3	10.65	14.87	29.27	0
9/20/2018 19:45	5.83	152.7	10.02	14.6	29.27	0
9/20/2018 20:00	5.314	133.3	11.2	14.36	29.27	0
9/20/2018 20:15	4.764	126	9.39	14.3	29.27	0
9/20/2018 20:30	5.175	138.9	11.82	14.47	29.27	0
9/20/2018 20:45	5.578	161.6	7.264	14.55	29.27	0
9/20/2018 21:00	6.071	163.8	8.17	14.63	29.28	0
9/20/2018 21:15	5.454	169.4	10.41	14.55	29.28	0
9/20/2018 21:30	6.517	144.6	6.683	14.49	29.28	0
9/20/2018 21:45	6.497	149.5	6.841	14.71	29.28	0
9/20/2018 22:00	5.673	189.3	14.91	14.44	29.27	0
9/20/2018 22:15	6.265	189.7	20.56	14.03	29.27	0
9/20/2018 22:30	6.151	165.3	13.58	13.89	29.27	0
9/20/2018 22:45	6.698	169.5	11.82	13.89	29.27	0
9/20/2018 23:00	7.196	151.7	7.136	14.06	29.27	0
9/20/2018 23:15	7.115	157.1	4.084	14.17	29.27	0
9/20/2018 23:30	7.102	156.4	5.386	14.12	29.27	0
9/20/2018 23:45	7.548	150.8	5.407	14.12	29.27	0
9/21/2018 0:00	7.252	149.8	4.17	14	29.26	0
9/21/2018 0:15	6.031	143.5	9.04	13.83	29.26	0
9/21/2018 0:30	5.993	134.8	7.393	14.16	29.26	0
9/21/2018 0:45	6.23	133.1	6.106	14.19	29.26	0
9/21/2018 1:00	6.525	137.9	6.602	14.24	29.25	0
9/21/2018 1:15	7.171	140.3	5.947	14.42	29.25	0
9/21/2018 1:30	7.891	140.2	7.227	14.57	29.25	0
9/21/2018 1:45	7.884	135.2	5.946	14.68	29.25	0
9/21/2018 2:00	6.177	140.3	6.743	14.76	29.23	0
9/21/2018 2:15	7.415	151.6	4.733	14.6	29.23	0
9/21/2018 2:30	7.222	160.2	7.075	14.14	29.23	0
9/21/2018 2:45	6	150	5.839	14.14	29.23	0
9/21/2018 3:00	4.069	148.1	5.946	14.03	29.23	0
9/21/2018 3:15	5.866	136.9	7.042	14.06	29.23	0
9/21/2018 3:30	6.974	136.8	5.475	14.22	29.23	0
9/21/2018 3:45	5.456	153.9	12.99	14.22	29.23	0
9/21/2018 4:00	4.556	171.4	9.48	14.24	29.22	0
9/21/2018 4:15	4.337	160	10.96	14.08	29.22	0
9/21/2018 4:30	4.876	147.8	6.773	14.07	29.22	0

9/21/2018 4:45	4.742	160.2	10.97	14.24	29.22	0
9/21/2018 5:00	4.939	170.4	11.1	14.41	29.21	0
9/21/2018 5:15	5.527	152.4	9.52	14.31	29.21	0
9/21/2018 5:30	4.878	148.9	31.37	14.09	29.21	0
9/21/2018 5:45	4.006	144	15.86	14.11	29.21	0
9/21/2018 6:00	5.009	159.7	11.88	14.04	29.19	0
9/21/2018 6:15	4.242	163.6	10.48	14.03	29.19	0
9/21/2018 6:30	3.764	161.6	10.34	13.84	29.19	0
9/21/2018 6:45	5.143	150.7	9.13	13.92	29.19	0
9/21/2018 7:00	4.059	155.1	14.48	14.63	29.18	0
9/21/2018 7:15	4.497	163.4	16.15	14.35	29.18	0
9/21/2018 7:30	4.769	149.6	8.08	14.63	29.18	0
9/21/2018 7:45	5.418	151	10.02	15.13	29.18	0
9/21/2018 8:00	6.619	133	6.084	15.62	29.19	0
9/21/2018 8:15	5.995	133.3	7.192	16.03	29.19	0
9/21/2018 8:30	7.086	131.7	7.039	16.48	29.19	0
9/21/2018 8:45	6.037	142.6	9.36	17.09	29.19	0
9/21/2018 9:00	5.879	144.5	10.98	17.3	29.16	0
9/21/2018 9:15	5.677	147.7	12.76	17.64	29.16	0
9/21/2018 9:30	5.73	166.9	27.84	17.94	29.16	0
9/21/2018 9:45	5.642	190.1	18.04	17.93	29.16	0
9/21/2018 10:00	5.205	174.2	23.96	18.08	29.16	0
9/21/2018 10:15	6.076	186.5	16.48	18.39	29.16	0
9/21/2018 10:30	5.467	187.9	24.71	18.65	29.16	0
9/21/2018 10:45	6.61	183.4	28.01	18.77	29.16	0
9/21/2018 11:00	7.253	182.6	22.19	19.29	29.12	0
9/21/2018 11:15	6.995	221.4	14.21	18.81	29.12	0
9/21/2018 11:30	7.077	223.4	17.16	18.87	29.12	0
9/21/2018 11:45	5.679	216.1	14.92	19.31	29.12	0
9/21/2018 12:00	6.497	211.1	21.32	19.35	29.11	0
9/21/2018 12:15	6.208	229.3	20.9	19.34	29.11	0
9/21/2018 12:30	4.885	185	37.78	19.81	29.11	0
9/21/2018 12:45	4.301	228.4	62.13	20.39	29.11	0
9/21/2018 13:00	5.907	240.2	20.19	20.23	29.1	0
9/21/2018 13:15	8.7	226.3	9.49	20.02	29.1	0
9/21/2018 13:30	6.824	246.7	19.26	20.05	29.1	0
9/21/2018 13:45	5.17	233.9	21.78	20.35	29.1	0
9/21/2018 14:00	7.048	228.9	20.13	20.49	29.1	0
9/21/2018 14:15	7.109	251.5	19.29	20.26	29.1	0
9/21/2018 14:30	8.23	221.3	14.77	20.23	29.1	0
9/21/2018 14:45	7.09	233.6	12.01	20.11	29.1	0
9/21/2018 15:00	6.491	247.9	11.53	20.11	29.07	0
9/21/2018 15:15	5.227	245.6	21.62	20.35	29.07	0
9/21/2018 15:30	5.187	259.1	17.54	20.31	29.07	0
9/21/2018 15:45	6.935	247.6	15.57	20.16	29.07	0
9/21/2018 16:00	8.4	252	11.49	19.69	29.07	0
9/21/2018 16:15	7.018	246.9	11.19	19.42	29.07	0

9/21/2018 16:30	8.88	245.6	7.339	19.09	29.07	0
9/21/2018 16:45	8.97	248.9	9.07	18.87	29.07	0
9/21/2018 17:00	4.407	250.1	15.09	18.73	29.06	0
9/21/2018 17:15	4.76	197.4	70.52	18.36	29.06	0
9/21/2018 17:30	5.205	132	7.915	17.58	29.06	0
9/21/2018 17:45	6.329	130.5	7.451	17.4	29.06	0.01
9/21/2018 18:00	7.605	142.4	6.889	17.25	29.03	0
9/21/2018 18:15	8.96	135.9	7.53	17.33	29.03	0
9/21/2018 18:30	8.22	135.6	10.74	17.36	29.03	0
9/21/2018 18:45	5.359	146.4	6.827	17.24	29.03	0
9/21/2018 19:00	3.946	137.6	5.81	17.03	29.05	0
9/21/2018 19:15	5.061	147.4	5.574	17.19	29.05	0
9/21/2018 19:30	5.559	154.7	6.769	17.15	29.05	0
9/21/2018 19:45	5.859	154.6	10.5	17.15	29.05	0
9/21/2018 20:00	5.523	157	11.88	17.28	29.06	0
9/21/2018 20:15	5.822	179.5	24.32	16.95	29.06	0
9/21/2018 20:30	3.427	180.1	24.36	16.05	29.06	0.01
9/21/2018 20:45	3.293	179.5	10.4	16.33	29.06	0.01
9/21/2018 21:00	2.543	146.3	12.83	16.16	29.04	0
9/21/2018 21:15	3.866	153.6	11.65	15.54	29.04	0.02
9/21/2018 21:30	5.305	150.6	10.27	14.92	29.04	0
9/21/2018 21:45	4.582	145.5	8.46	14.72	29.04	0.01
9/21/2018 22:00	7.974	178.1	14.51	14.74	29.06	0.02
9/21/2018 22:15	5.454	160.4	12.19	14.41	29.06	0.03
9/21/2018 22:30	7.744	174.1	11.62	14.33	29.06	0.02
9/21/2018 22:45	7.001	167.6	11.78	14.26	29.06	0.02
9/21/2018 23:00	7.176	146.9	6.713	14.14	29.07	0.02
9/21/2018 23:15	7.913	138.4	8.66	14.1	29.07	0
9/21/2018 23:30	5.697	148.1	12.09	14.14	29.07	0.01
9/21/2018 23:45	5.808	155.2	11.04	14.2	29.07	0
9/22/2018 0:00	5.952	191	17.15	14.5	29.07	0.01
9/22/2018 0:15	5.997	188.6	9.02	14.42	29.07	0
9/22/2018 0:30	8.83	186.6	10.58	14.5	29.07	0.01
9/22/2018 0:45	7.155	176	14.1	14.37	29.07	0
9/22/2018 1:00	8.55	176.2	7.074	14.49	29.08	0
9/22/2018 1:15	7.823	168.5	9.64	14.45	29.08	0
9/22/2018 1:30	7.274	163.6	11.6	14.32	29.08	0
9/22/2018 1:45	3.823	142.8	21.63	14.36	29.08	0
9/22/2018 2:00	3.848	153.1	11.66	14.21	29.07	0
9/22/2018 2:15	3.714	151.5	10.35	14.06	29.07	0
9/22/2018 2:30	8.12	174.2	10.63	14.76	29.07	0
9/22/2018 2:45	10.18	182.7	8.83	14.98	29.07	0
9/22/2018 3:00	7.452	161.2	11.87	14.57	29.06	0
9/22/2018 3:15	7.7	164.4	15.45	14.51	29.06	0
9/22/2018 3:30	7.958	180.2	10.01	14.79	29.06	0
9/22/2018 3:45	6.176	206.9	11.92	14.7	29.06	0.01
9/22/2018 4:00	6.55	179.7	17.19	14.05	29.05	0

9/22/2018 4:15	9.47	185.6	9.69	13.69	29.05	0.01
9/22/2018 4:30	7.475	157.6	22.95	13.27	29.05	0
9/22/2018 4:45	5.84	133.2	8.45	13.14	29.05	0
9/22/2018 5:00	6.51	124.1	7.079	13.22	29.06	0
9/22/2018 5:15	6.947	152	11.61	13.51	29.06	0
9/22/2018 5:30	8.76	183	11.38	13.94	29.06	0
9/22/2018 5:45	9.47	180.8	9.63	13.86	29.06	0
9/22/2018 6:00	6.601	162.3	13.38	13.44	29.08	0
9/22/2018 6:15	12.65	183.9	10.46	13.47	29.08	0.01
9/22/2018 6:30	12.16	182.4	8.64	13.17	29.08	0
9/22/2018 6:45	8.17	160	13.05	12.96	29.08	0
9/22/2018 7:00	9.73	156.9	10.03	12.93	29.08	0
9/22/2018 7:15	12.13	170.4	10.1	13.08	29.08	0
9/22/2018 7:30	10.57	174.7	9.19	13.05	29.08	0
9/22/2018 7:45	8.22	168.3	9.37	13.23	29.08	0
9/22/2018 8:00	7.615	162.7	15.72	13.36	29.07	0
9/22/2018 8:15	6.94	150.9	10.65	13.35	29.07	0
9/22/2018 8:30	6.637	147.2	11	13.75	29.07	0
9/22/2018 8:45	9.77	176.9	14.93	14.39	29.07	0
9/22/2018 9:00	9.94	177.7	10.55	14.64	29.08	0
9/22/2018 9:15	12.6	181.5	10.21	14.8	29.08	0
9/22/2018 9:30	11.1	179.6	8.63	15.15	29.08	0
9/22/2018 9:45	11.43	184.7	8.75	15.22	29.08	0
9/22/2018 10:00	12.04	182.2	9.54	15.68	29.11	0
9/22/2018 10:15	12.5	184.4	10.69	16.19	29.11	0
9/22/2018 10:30	13.74	189.5	8.21	16.33	29.11	0
9/22/2018 10:45	14.53	196.2	11.95	16.33	29.11	0
9/22/2018 11:00	15.85	201.8	10.62	15.55	29.09	0
9/22/2018 11:15	13.1	187.9	10.15	15.61	29.09	0
9/22/2018 11:30	15.33	187.8	10.01	15.93	29.09	0
9/22/2018 11:45	14.27	177.8	8.91	15.86	29.09	0
9/22/2018 12:00	12.74	187.7	9.07	15.83	29.12	0
9/22/2018 12:15	11.67	193.6	8.78	15.02	29.12	0.02
9/22/2018 12:30	10.42	197.5	10.11	14.87	29.12	0
9/22/2018 12:45	10.18	191.4	8.95	15.07	29.12	0.01
9/22/2018 13:00	8.18	206.3	10.13	15.3	29.11	0.01
9/22/2018 13:15	7.6	196.5	10.01	15.64	29.11	0
9/22/2018 13:30	7.034	190.1	8.22	15.56	29.11	0.01
9/22/2018 13:45	11.5	204.2	15.19	15.88	29.11	0
9/22/2018 14:00	13.48	210.8	9.96	16.44	29.11	0
9/22/2018 14:15	14.98	209.4	11.1	16.79	29.11	0
9/22/2018 14:30	12.07	205.5	10.43	17.22	29.11	0
9/22/2018 14:45	15.77	209.9	8.96	17.4	29.11	0
9/22/2018 15:00	15.67	215.8	10.13	17.63	29.12	0
9/22/2018 15:15	15.7	210.4	8.24	17.49	29.12	0
9/22/2018 15:30	15.94	214.4	8.65	17.47	29.12	0
9/22/2018 15:45	18.09	217.9	9.77	16.81	29.12	0.01

9/22/2018 16:00	19.11	217.5	10.01	15.88	29.13	0
9/22/2018 16:15	20.72	224.6	10.08	15.46	29.13	0
9/22/2018 16:30	18.91	217	9.6	14.57	29.13	0
9/22/2018 16:45	15.33	212.4	9.47	14.44	29.13	0
9/22/2018 17:00	13.67	198.7	11.04	14.4	29.17	0
9/22/2018 17:15	13.13	207.1	9.22	14.61	29.17	0
9/22/2018 17:30	14.59	201.4	11.46	14.64	29.17	0
9/22/2018 17:45	13.1	204.7	11.76	14.62	29.17	0
9/22/2018 18:00	16.78	206.9	9.48	14.63	29.19	0
9/22/2018 18:15	13.17	199.6	11.14	14.51	29.19	0
9/22/2018 18:30	13.6	204.8	7.416	14.24	29.19	0
9/22/2018 18:45	14.34	194.4	8.05	14.12	29.19	0
9/22/2018 19:00	13.19	186.6	8.68	14.02	29.19	0
9/22/2018 19:15	10.67	167.3	10.55	13.62	29.19	0
9/22/2018 19:30	10.92	182.8	8.81	13.42	29.19	0
9/22/2018 19:45	8.69	160.6	13.73	12.77	29.19	0
9/22/2018 20:00	9.17	165.1	7.65	12.26	29.22	0
9/22/2018 20:15	8.07	148.5	13.73	12.07	29.22	0
9/22/2018 20:30	7.16	144.9	9.9	11.86	29.22	0
9/22/2018 20:45	9.2	155.9	8.7	11.69	29.22	0
9/22/2018 21:00	9.45	153.2	5.571	11.5	29.22	0
9/22/2018 21:15	7.873	151	6.575	11.44	29.22	0
9/22/2018 21:30	7.347	148.1	6.522	11.23	29.22	0
9/22/2018 21:45	7.25	148.4	6.27	11.04	29.22	0
9/22/2018 22:00	7.12	145.9	7.147	10.89	29.23	0
9/22/2018 22:15	8.96	154	5.274	10.83	29.23	0
9/22/2018 22:30	11.07	159.9	5.631	11.01	29.23	0
9/22/2018 22:45	11.2	158.3	6.543	11.02	29.23	0
9/22/2018 23:00	9.31	159.3	7.271	10.95	29.24	0
9/22/2018 23:15	8.94	158.3	7.763	11.01	29.24	0
9/22/2018 23:30	9.46	154.6	6.247	11.05	29.24	0
9/22/2018 23:45	10.48	159.8	5.936	11.18	29.24	0
9/23/2018 0:00	10.5	159.5	6.657	11.28	29.25	0
9/23/2018 0:15	9.96	153.9	6.914	11.32	29.25	0
9/23/2018 0:30	9.36	153	7.553	11.41	29.25	0
9/23/2018 0:45	9.43	156.9	7.302	11.46	29.25	0
9/23/2018 1:00	8.62	152.1	6.428	11.46	29.24	0
9/23/2018 1:15	8.57	167.2	16.27	11.48	29.24	0
9/23/2018 1:30	6.523	176	13.03	11.55	29.24	0
9/23/2018 1:45	5.212	173.4	11.99	11.46	29.24	0
9/23/2018 2:00	6.344	180.3	14.95	11.47	29.25	0
9/23/2018 2:15	7.579	177.6	12.88	11.38	29.25	0
9/23/2018 2:30	8.85	189.6	8.85	10.83	29.25	0.01
9/23/2018 2:45	9.61	169.5	12.4	10.33	29.25	0
9/23/2018 3:00	8	145.4	10.1	10.22	29.28	0
9/23/2018 3:15	6.162	132.6	7.881	10.17	29.28	0
9/23/2018 3:30	6.672	125.7	7.641	10.08	29.28	0

9/23/2018 3:45	6.234	128	7.935	10.04	29.28	0.01
9/23/2018 4:00	6.441	140.9	8.65	10.02	29.29	0.01
9/23/2018 4:15	6.369	131.6	9.07	10.03	29.29	0
9/23/2018 4:30	5.209	133	9.04	9.99	29.29	0.01
9/23/2018 4:45	6.087	141.7	10.24	10.04	29.29	0
9/23/2018 5:00	4.869	138.4	8.76	10.09	29.29	0
9/23/2018 5:15	3.933	120.6	6.777	9.98	29.29	0.01
9/23/2018 5:30	4.555	130.1	6.832	10	29.29	0
9/23/2018 5:45	5.536	144.3	4.533	10.06	29.29	0.01
9/23/2018 6:00	5.842	156.5	11.51	10.07	29.31	0
9/23/2018 6:15	4.089	166.3	13.58	10.16	29.31	0
9/23/2018 6:30	0.737	96.9	14.11	10.03	29.31	0
9/23/2018 6:45	1.786	115.2	29.73	10.13	29.31	0
9/23/2018 7:00	3.839	149.5	8.36	10.11	29.33	0
9/23/2018 7:15	5.731	144.8	6.209	10.12	29.33	0
9/23/2018 7:30	5.779	137.6	8.32	10.16	29.33	0
9/23/2018 7:45	4.756	134.1	7.082	10.26	29.33	0
9/23/2018 8:00	3.659	151.6	9.94	10.31	29.34	0
9/23/2018 8:15	3.011	129.1	15.56	10.22	29.34	0
9/23/2018 8:30	3.76	120.7	5.778	10.21	29.34	0
9/23/2018 8:45	4.251	127	5.38	10.52	29.34	0
9/23/2018 9:00	4.201	125.7	8.02	11.02	29.35	0
9/23/2018 9:15	4.522	127.3	11.83	11.28	29.35	0
9/23/2018 9:30	4.879	147	14.72	12.23	29.35	0
9/23/2018 9:45	5.234	161.3	33.27	12.71	29.35	0
9/23/2018 10:00	4.599	153.2	22.94	13.31	29.36	0
9/23/2018 10:15	3.38	200.7	58.52	13.3	29.36	0
9/23/2018 10:30	5.825	180.7	20.89	13.06	29.36	0
9/23/2018 10:45	4.993	178.7	33.86	13.69	29.36	0
9/23/2018 11:00	6.872	198.2	17.96	13.79	29.35	0
9/23/2018 11:15	4.738	196.6	24.69	13.94	29.35	0
9/23/2018 11:30	5.493	218.9	31.08	14.07	29.35	0
9/23/2018 11:45	3.419	184.4	30.43	14.2	29.35	0
9/23/2018 12:00	5.358	226.3	21.13	14.45	29.36	0
9/23/2018 12:15	7.686	178.7	32.56	14.86	29.36	0
9/23/2018 12:30	7.841	186.3	15.4	14.68	29.36	0
9/23/2018 12:45	7.508	181.8	31.89	15.18	29.36	0
9/23/2018 13:00	6.928	198.3	27.54	15.28	29.35	0
9/23/2018 13:15	5.855	186.6	34.42	14.86	29.35	0
9/23/2018 13:30	6.444	222.7	21.53	14.79	29.35	0
9/23/2018 13:45	5.942	227.1	23.4	15.18	29.35	0
9/23/2018 14:00	4.682	251.1	23.49	15.12	29.33	0
9/23/2018 14:15	3.382	252.3	32.37	15.35	29.33	0
9/23/2018 14:30	3.626	190.8	42.08	15.39	29.33	0
9/23/2018 14:45	1.903	90.9	21.18	15.37	29.33	0
9/23/2018 15:00	2.807	66.43	8.14	14.91	29.35	0
9/23/2018 15:15	2.585	50.55	4.805	14.7	29.35	0

9/23/2018 15:30	2.105	53.59	5.448	14.71	29.35	0
9/23/2018 15:45	1.606	66.33	11.18	14.75	29.35	0
9/23/2018 16:00	3.154	95.5	1.196	14.57	29.32	0
9/23/2018 16:15	2.28	101	6.36	15.18	29.32	0
9/23/2018 16:30	1.329	84.7	10.27	14.98	29.32	0
9/23/2018 16:45	0.03	89.1	2.231	15.29	29.32	0
9/23/2018 17:00	1.63	225.6	9.54	15.92	29.34	0
9/23/2018 17:15	2.157	276.6	22.15	15.8	29.34	0
9/23/2018 17:30	2.144	10.73	34.79	15.03	29.34	0
9/23/2018 17:45	3.618	26.5	4.736	14.07	29.34	0
9/23/2018 18:00	4.445	11.71	5.733	13.69	29.33	0
9/23/2018 18:15	2.788	14.57	3.748	13.52	29.33	0
9/23/2018 18:30	2.737	27.15	5.023	13.02	29.33	0
9/23/2018 18:45	4.419	46.29	7.347	12.36	29.33	0
9/23/2018 19:00	3.727	41.06	6.323	11.98	29.33	0
9/23/2018 19:15	3.634	35.85	12.7	11.82	29.33	0
9/23/2018 19:30	4.419	31.66	2.561	11.26	29.33	0
9/23/2018 19:45	5.165	35.4	3.449	11.1	29.33	0
9/23/2018 20:00	3.908	44.66	5.897	11.28	29.34	0
9/23/2018 20:15	2.117	54.49	5.173	11.62	29.34	0
9/23/2018 20:30	0.485	52.57	0.309	11.79	29.34	0
9/23/2018 20:45	1.006	52.6	0.116	11.64	29.34	0
9/23/2018 21:00	1.643	56.16	6.127	11.39	29.35	0
9/23/2018 21:15	3.184	77.02	4.905	11.48	29.35	0
9/23/2018 21:30	2.851	75.15	3.538	10.9	29.35	0
9/23/2018 21:45	1.151	78.9	1.52	11.06	29.35	0
9/23/2018 22:00	1.832	102.5	21.14	11.4	29.35	0
9/23/2018 22:15	1.277	129.6	0.13	11.6	29.35	0
9/23/2018 22:30	0.47	129.3	0.215	10.89	29.35	0
9/23/2018 22:45	0.828	18.04	41.38	10.61	29.35	0
9/23/2018 23:00	1.197	326.4	44.34	10.17	29.36	0
9/23/2018 23:15	2.899	226.2	13.23	9.29	29.36	0
9/23/2018 23:30	4.869	213.8	8.25	9.14	29.36	0
9/23/2018 23:45	4.364	204.1	7.918	8.98	29.36	0
9/24/2018 0:00	0.646	157.1	60.27	8.91	29.38	0
9/24/2018 0:15	0.118	0.096	0.041	8.34	29.38	0
9/24/2018 0:30	0.133	0.096	0.034	8.16	29.38	0
9/24/2018 0:45	0.109	33.19	1.05	8.47	29.38	0
9/24/2018 1:00	1.5	44.7	3.392	8.68	29.36	0
9/24/2018 1:15	2.586	81.7	9.89	8.55	29.36	0
9/24/2018 1:30	2.102	90.6	1.872	8.97	29.36	0
9/24/2018 1:45	1.769	91.3	0.23	9.52	29.36	0
9/24/2018 2:00	2.857	125.1	26.15	9.66	29.39	0
9/24/2018 2:15	4.245	148.6	1.792	9.99	29.39	0
9/24/2018 2:30	3.938	150.9	4.039	9.91	29.39	0
9/24/2018 2:45	4.298	154.1	4.776	9.69	29.39	0
9/24/2018 3:00	0.977	127.1	14.13	9.37	29.39	0

9/24/2018 3:15	0.135	97.9	0.062	9.82	29.39	0
9/24/2018 3:30	1.311	328.7	13.96	9.83	29.39	0
9/24/2018 3:45	1.547	339	20.49	9.5	29.39	0
9/24/2018 4:00	1.219	20	0.26	8.85	29.38	0
9/24/2018 4:15	1.274	22.03	0.362	9.16	29.38	0
9/24/2018 4:30	2.098	29.83	2.402	9.02	29.38	0
9/24/2018 4:45	1.178	33.41	0.124	9.16	29.38	0
9/24/2018 5:00	0.203	33.42	0.072	9.1	29.4	0
9/24/2018 5:15	0.269	30.66	1.245	9.18	29.4	0
9/24/2018 5:30	1.451	13.83	10.84	8.75	29.4	0
9/24/2018 5:45	1.631	7.782	2.165	8.51	29.4	0
9/24/2018 6:00	1.376	9.9	0.155	8.38	29.39	0
9/24/2018 6:15	1.534	35.8	3.263	8.42	29.39	0
9/24/2018 6:30	2.086	47.49	2.058	8.67	29.39	0
9/24/2018 6:45	1.72	46.62	0.199	8.8	29.39	0
9/24/2018 7:00	0.408	47.56	0.382	9.48	29.43	0
9/24/2018 7:15	0.426	66.48	6.665	10.2	29.43	0
9/24/2018 7:30	0.781	72.99	0.808	10.47	29.43	0
9/24/2018 7:45	0.373	72.15	4.467	11.07	29.43	0
9/24/2018 8:00	2.522	34.51	22.17	11.03	29.44	0
9/24/2018 8:15	1.868	43.24	11.47	11.01	29.44	0
9/24/2018 8:30	1.071	41.22	17.06	11.79	29.44	0
9/24/2018 8:45	2.143	34.1	12.13	11.69	29.44	0
9/24/2018 9:00	2.096	39.13	18.3	12.21	29.43	0
9/24/2018 9:15	1.429	30.63	11.14	12.8	29.43	0
9/24/2018 9:30	1.974	16.64	25.24	13.11	29.43	0
9/24/2018 9:45	1.453	334.3	33.45	13.69	29.43	0
9/24/2018 10:00	1.404	311	29.65	14.2	29.45	0
9/24/2018 10:15	3.411	353.2	24.97	14.52	29.45	0
9/24/2018 10:30	7.286	25.2	13.22	14.93	29.45	0
9/24/2018 10:45	9.41	34.71	14.08	15.09	29.45	0
9/24/2018 11:00	10.72	34.72	13.2	15.25	29.45	0
9/24/2018 11:15	10.55	36.68	14.61	15.6	29.45	0
9/24/2018 11:30	9.25	23.99	20.11	15.7	29.45	0
9/24/2018 11:45	10.68	33.13	15.03	15.86	29.45	0
9/24/2018 12:00	10.86	25.93	19.92	16.07	29.44	0
9/24/2018 12:15	10.03	24.14	18.58	16.36	29.44	0
9/24/2018 12:30	7.479	3.597	20.36	16.44	29.44	0
9/24/2018 12:45	8.84	2.871	19.53	16.79	29.44	0
9/24/2018 13:00	8.96	342.3	28.2	16.86	29.44	0
9/24/2018 13:15	8.6	317	14.39	17.54	29.44	0
9/24/2018 13:30	11.03	325.8	15.72	17.41	29.44	0
9/24/2018 13:45	9.34	340.3	13.3	17.58	29.44	0
9/24/2018 14:00	10.09	341.2	17.7	17.59	29.42	0
9/24/2018 14:15	8.02	341.9	20.52	17.88	29.42	0
9/24/2018 14:30	7.568	0.049	22.81	17.88	29.42	0
9/24/2018 14:45	8.51	350.3	22.36	17.78	29.42	0

9/24/2018 15:00	7.177	351.4	20.72	17.67	29.43	0
9/24/2018 15:15	6.925	6.15	20.32	17.67	29.43	0
9/24/2018 15:30	7.809	347.7	18.47	17.62	29.43	0
9/24/2018 15:45	6.956	354	18.94	17.58	29.43	0
9/24/2018 16:00	10.93	318.1	6.049	17.4	29.43	0
9/24/2018 16:15	8.54	342.5	16.45	17.28	29.43	0
9/24/2018 16:30	10.26	358.4	13.99	17.02	29.43	0
9/24/2018 16:45	10.1	347.5	12.2	16.88	29.43	0
9/24/2018 17:00	9.83	345.8	9.77	16.63	29.41	0
9/24/2018 17:15	6.914	340.5	16.53	16.47	29.41	0
9/24/2018 17:30	7.356	323	7.376	16.01	29.41	0
9/24/2018 17:45	6.15	315.4	8.94	15.64	29.41	0
9/24/2018 18:00	5.397	322.5	11.28	15.13	29.41	0
9/24/2018 18:15	5.405	317.2	13.93	14.57	29.41	0
9/24/2018 18:30	6.208	318.9	15.43	14.5	29.41	0
9/24/2018 18:45	5.462	331.2	13.34	14.21	29.41	0
9/24/2018 19:00	4.592	349.7	16.31	13.77	29.43	0
9/24/2018 19:15	5.44	351.1	21.81	13.73	29.43	0
9/24/2018 19:30	6.561	354.1	19.59	13.79	29.43	0
9/24/2018 19:45	7.977	357.6	14.88	13.57	29.43	0
9/24/2018 20:00	7.236	15.18	17.67	13.32	29.43	0
9/24/2018 20:15	7.904	25.83	10.59	12.93	29.43	0
9/24/2018 20:30	7.795	27.79	10.11	12.74	29.43	0
9/24/2018 20:45	7.515	23.85	8.93	12.62	29.43	0
9/24/2018 21:00	8.1	28.25	5.311	12.19	29.45	0
9/24/2018 21:15	8.47	22.02	9.75	12.47	29.45	0
9/24/2018 21:30	8.2	20.68	11.85	12.5	29.45	0
9/24/2018 21:45	6.408	30.18	9.38	11.8	29.45	0
9/24/2018 22:00	6.91	35.67	7.814	11.5	29.45	0
9/24/2018 22:15	7.493	43.51	8.81	11.68	29.45	0
9/24/2018 22:30	6.71	52.21	10.82	11.67	29.45	0
9/24/2018 22:45	5.498	46.42	11.97	11.8	29.45	0
9/24/2018 23:00	4.912	47.82	9.28	11.29	29.42	0
9/24/2018 23:15	5.455	33.04	8.08	11.03	29.42	0
9/24/2018 23:30	2.731	37.71	8.71	10.8	29.42	0
9/24/2018 23:45	0.73	36.16	9.67	10.76	29.42	0
9/25/2018 0:00	2.624	44.54	12.25	10.45	29.43	0
9/25/2018 0:15	2.969	46.6	12.06	10.21	29.43	0
9/25/2018 0:30	2.596	76.65	8.17	9.47	29.43	0
9/25/2018 0:45	4.491	51.57	6.804	9.09	29.43	0
9/25/2018 1:00	5.28	16.34	15.02	8.97	29.45	0
9/25/2018 1:15	4.654	19.96	10.14	9.51	29.45	0
9/25/2018 1:30	5.303	8.11	8.13	9.2	29.45	0
9/25/2018 1:45	3.039	22.58	8.32	9	29.45	0
9/25/2018 2:00	1.477	32.31	2.649	8.42	29.45	0
9/25/2018 2:15	2.511	78.33	21.41	8.42	29.45	0
9/25/2018 2:30	2.03	99.7	25.52	8.6	29.45	0

9/25/2018 2:45	0.854	61.49	1.361	8.76	29.45	0
9/25/2018 3:00	0.553	48.39	18.26	8.67	29.45	0
9/25/2018 3:15	1.554	14.63	1.446	8.75	29.45	0
9/25/2018 3:30	1.946	18.33	6.756	9.12	29.45	0
9/25/2018 3:45	0.56	119.4	66.18	8.91	29.45	0
9/25/2018 4:00	1.203	8.87	30.83	8.35	29.44	0
9/25/2018 4:15	3.939	32.82	9.62	8.23	29.44	0
9/25/2018 4:30	2.744	38.84	10.21	7.746	29.44	0
9/25/2018 4:45	2.448	79.67	10.91	7.726	29.44	0
9/25/2018 5:00	3.762	66.85	9.9	8.16	29.45	0
9/25/2018 5:15	2.548	31.43	12.22	8.46	29.45	0
9/25/2018 5:30	1.773	17.29	3.156	8.2	29.45	0
9/25/2018 5:45	3.554	20.33	5.233	7.421	29.45	0
9/25/2018 6:00	3.703	4.924	8.52	7.037	29.43	0
9/25/2018 6:15	2.284	344.3	11	7.139	29.43	0
9/25/2018 6:30	3.459	17.43	7.343	6.99	29.43	0
9/25/2018 6:45	4.69	21.73	6.034	6.948	29.43	0
9/25/2018 7:00	4.258	25.24	5.279	6.953	29.45	0
9/25/2018 7:15	4.133	24.46	5.693	6.96	29.45	0
9/25/2018 7:30	4.137	24.74	8.01	7.548	29.45	0
9/25/2018 7:45	3.218	36.4	6.089	7.569	29.45	0
9/25/2018 8:00	3.122	26.3	7.442	7.956	29.43	0
9/25/2018 8:15	3.374	19.62	6.974	8.42	29.43	0
9/25/2018 8:30	2.675	39.22	23.96	9	29.43	0
9/25/2018 8:45	3.359	58.09	8.49	9.34	29.43	0
9/25/2018 9:00	3.787	28.78	12.6	10.45	29.45	0
9/25/2018 9:15	3.582	35.01	13.92	11.27	29.45	0
9/25/2018 9:30	0.851	316.5	41.65	12.98	29.45	0
9/25/2018 9:45	2.876	34.49	22.1	13.33	29.45	0
9/25/2018 10:00	3.449	8.73	23.16	13.87	29.44	0
9/25/2018 10:15	7.352	18.08	12.94	14.52	29.44	0
9/25/2018 10:30	10.7	27.59	10.84	14.52	29.44	0
9/25/2018 10:45	9.79	20.44	15.25	14.68	29.44	0
9/25/2018 11:00	10.64	22.72	13.14	15.03	29.46	0
9/25/2018 11:15	11.17	22.97	10.85	15.31	29.46	0
9/25/2018 11:30	9.13	26.33	12.5	15.82	29.46	0
9/25/2018 11:45	10.51	25.24	10.65	16.23	29.46	0
9/25/2018 12:00	8.5	19.13	14.98	16.63	29.44	0
9/25/2018 12:15	9.11	26.16	11.98	17.17	29.44	0
9/25/2018 12:30	9.24	30.73	11.27	17.31	29.44	0
9/25/2018 12:45	10.15	27.69	11.23	17.53	29.44	0
9/25/2018 13:00	10.27	31.07	8.24	17.74	29.43	0
9/25/2018 13:15	8.88	31.96	12.93	17.95	29.43	0
9/25/2018 13:30	9.03	29.45	11.09	18.36	29.43	0
9/25/2018 13:45	10.08	25.38	10.22	18.42	29.43	0
9/25/2018 14:00	8.51	24.13	11.1	18.56	29.42	0
9/25/2018 14:15	9.04	32.18	11.75	18.76	29.42	0

9/25/2018 14:30	9.12	17.41	11.69	18.91	29.42	0
9/25/2018 14:45	8.85	18.69	15.29	19.03	29.42	0
9/25/2018 15:00	8.55	20.83	14.21	19.08	29.41	0
9/25/2018 15:15	9.74	11.04	12.74	19.15	29.41	0
9/25/2018 15:30	9.48	13.85	14.5	18.99	29.41	0
9/25/2018 15:45	9.12	9.64	10.86	18.9	29.41	0
9/25/2018 16:00	9.2	6.59	12.9	18.92	29.4	0
9/25/2018 16:15	8.97	16.19	10.81	18.71	29.4	0
9/25/2018 16:30	8.98	12.77	13.11	18.54	29.4	0
9/25/2018 16:45	8.46	7.998	12.44	18.51	29.4	0
9/25/2018 17:00	8.85	4.606	11.7	18.38	29.4	0
9/25/2018 17:15	6.885	351.9	12.41	18.24	29.4	0
9/25/2018 17:30	5.944	352.4	14.03	17.81	29.4	0
9/25/2018 17:45	5.208	4.718	14.18	17.09	29.4	0
9/25/2018 18:00	5.424	5.177	19.57	16.47	29.38	0
9/25/2018 18:15	5.747	357.4	16.56	16.05	29.38	0
9/25/2018 18:30	7.726	358.6	12.72	15.89	29.38	0
9/25/2018 18:45	9.18	13.83	11.58	15.58	29.38	0
9/25/2018 19:00	11.06	17.4	8.42	15.3	29.4	0
9/25/2018 19:15	9.15	20.58	9.37	15.01	29.4	0
9/25/2018 19:30	9.19	23.61	10.8	14.78	29.4	0
9/25/2018 19:45	10.81	24.31	9.54	14.49	29.4	0
9/25/2018 20:00	11.28	28.7	7.013	14.06	29.4	0
9/25/2018 20:15	9.62	25.19	6.106	13.72	29.4	0
9/25/2018 20:30	9.73	24.44	8.92	13.86	29.4	0
9/25/2018 20:45	12.41	20.93	9.84	13.77	29.4	0
9/25/2018 21:00	11.27	23.1	9.45	13.62	29.4	0
9/25/2018 21:15	11.94	25.53	9.73	13.48	29.4	0
9/25/2018 21:30	10.34	28.16	9.5	13.37	29.4	0
9/25/2018 21:45	10.3	26.73	8.42	13.09	29.4	0
9/25/2018 22:00	9.41	29.42	6.847	12.89	29.38	0
9/25/2018 22:15	10.49	28.41	10.06	12.9	29.38	0
9/25/2018 22:30	10.05	29.29	7.529	12.72	29.38	0
9/25/2018 22:45	9.42	35.22	7.642	12.29	29.38	0
9/25/2018 23:00	9.27	35.05	7.906	12.11	29.41	0
9/25/2018 23:15	9.6	34.8	7.951	12.02	29.41	0
9/25/2018 23:30	8.74	36.16	6.542	12.07	29.41	0
9/25/2018 23:45	7.272	28.65	9.04	11.91	29.41	0
9/26/2018 0:00	6.991	40.26	6.093	11.46	29.39	0
9/26/2018 0:15	6.674	32.9	10.51	11.3	29.39	0
9/26/2018 0:30	4.783	31.42	6.906	11.11	29.39	0
9/26/2018 0:45	5.402	31.23	6.588	10.91	29.39	0
9/26/2018 1:00	5.283	46.32	6.177	10.6	29.39	0
9/26/2018 1:15	3.736	57.69	8.63	10.61	29.39	0
9/26/2018 1:30	2.78	67.13	5.505	10.76	29.39	0
9/26/2018 1:45	3.939	38.42	5.555	11.01	29.39	0
9/26/2018 2:00	3.041	21.54	3.39	10.59	29.39	0

9/26/2018 2:15	3.653	17.35	4.132	10.47	29.39	0
9/26/2018 2:30	2.971	17.67	1.645	10.56	29.39	0
9/26/2018 2:45	2.945	20.27	6.367	10.52	29.39	0
9/26/2018 3:00	2.538	18.22	1.911	10.04	29.39	0
9/26/2018 3:15	2.629	25.83	4.149	9.87	29.39	0
9/26/2018 3:30	2.781	32.97	2.12	9.64	29.39	0
9/26/2018 3:45	2.859	29.19	3.56	9.53	29.39	0
9/26/2018 4:00	2.882	37.22	6.303	9.24	29.4	0
9/26/2018 4:15	2.804	32.98	8.06	9.31	29.4	0
9/26/2018 4:30	3.746	45.02	3.498	9.23	29.4	0
9/26/2018 4:45	2.009	45.32	2.226	9.47	29.4	0
9/26/2018 5:00	1.283	46.63	0.056	9.72	29.41	0
9/26/2018 5:15	1.282	46.63	0.056	9.94	29.41	0
9/26/2018 5:30	1.587	46.61	0.077	9.98	29.41	0
9/26/2018 5:45	3.294	38.59	8.83	9.55	29.41	0
9/26/2018 6:00	2.896	27.75	2.525	9.26	29.38	0
9/26/2018 6:15	2.799	47.34	8.79	8.29	29.38	0
9/26/2018 6:30	4.51	26.6	5.615	7.678	29.38	0
9/26/2018 6:45	4.638	18.68	8.35	8.4	29.38	0
9/26/2018 7:00	2.071	25.16	16.57	8.24	29.4	0
9/26/2018 7:15	3.656	34.62	4.46	7.932	29.4	0
9/26/2018 7:30	3.176	17.14	12.07	8.28	29.4	0
9/26/2018 7:45	2.748	23.08	10.61	8.65	29.4	0
9/26/2018 8:00	3.715	31.13	9.23	8.64	29.41	0
9/26/2018 8:15	2.87	25.26	7.185	9.68	29.41	0
9/26/2018 8:30	3.05	31.47	17.49	10.35	29.41	0
9/26/2018 8:45	3.171	35.2	10.86	10.16	29.41	0
9/26/2018 9:00	4.425	34.76	7.506	10.87	29.39	0
9/26/2018 9:15	3.36	33.92	10.67	11.21	29.39	0
9/26/2018 9:30	3.742	34.98	9.33	11.99	29.39	0
9/26/2018 9:45	4.752	35.49	8.8	12.23	29.39	0
9/26/2018 10:00	3.73	52.88	12.77	12.82	29.4	0
9/26/2018 10:15	3.021	58.95	12.29	13.62	29.4	0
9/26/2018 10:30	3.105	62.81	16.8	14.6	29.4	0
9/26/2018 10:45	3.184	45.46	12.06	15.06	29.4	0
9/26/2018 11:00	4.193	48.31	9.26	15.55	29.4	0
9/26/2018 11:15	3.938	48.02	11.75	15.65	29.4	0
9/26/2018 11:30	4.395	43.93	17.97	16.33	29.4	0
9/26/2018 11:45	4.89	31.57	13.58	16.63	29.4	0
9/26/2018 12:00	3.961	321.2	49.28	17.3	29.37	0
9/26/2018 12:15	6.963	280.2	9.71	17	29.37	0
9/26/2018 12:30	5.64	280.3	14.58	17.28	29.37	0
9/26/2018 12:45	4.829	302.8	17.42	17.8	29.37	0
9/26/2018 13:00	5.652	5.263	35.82	17.67	29.36	0
9/26/2018 13:15	7.603	29.83	11.9	17.59	29.36	0
9/26/2018 13:30	9.32	25.57	9.04	17.88	29.36	0
9/26/2018 13:45	8.36	10.29	12.28	18.44	29.36	0

9/26/2018 14:00	5.147	4.603	13	19.29	29.35	0
9/26/2018 14:15	5.518	36.2	11.26	19.29	29.35	0
9/26/2018 14:30	6.799	32.15	7.992	19.25	29.35	0
9/26/2018 14:45	6.292	36.99	12.4	19.07	29.35	0
9/26/2018 15:00	7.991	25.29	9.98	19.3	29.36	0
9/26/2018 15:15	10.03	24.62	8.39	19.01	29.36	0
9/26/2018 15:30	9.68	27.19	7.805	18.97	29.36	0
9/26/2018 15:45	8.15	18.73	10.63	19.18	29.36	0
9/26/2018 16:00	8.71	15.45	12.49	19.19	29.32	0
9/26/2018 16:15	9.19	18.57	9.34	19.15	29.32	0
9/26/2018 16:30	10.08	16.77	8.34	19.01	29.32	0
9/26/2018 16:45	10.94	18.21	9.07	18.8	29.32	0
9/26/2018 17:00	8.56	14.59	12.06	18.84	29.32	0
9/26/2018 17:15	7.285	3.971	21.86	18.9	29.32	0
9/26/2018 17:30	5.053	6.253	15	18.62	29.32	0
9/26/2018 17:45	6.934	11.31	10.01	17.67	29.32	0
9/26/2018 18:00	9.05	22.68	6.156	17.01	29.33	0
9/26/2018 18:15	8.08	33.23	5.681	16.59	29.33	0
9/26/2018 18:30	7.393	19.96	5.674	16.26	29.33	0
9/26/2018 18:45	7.133	25.33	7.835	15.97	29.33	0
9/26/2018 19:00	7.042	35.49	7.744	15.87	29.3	0
9/26/2018 19:15	7.09	30.78	6.076	15.32	29.3	0
9/26/2018 19:30	7.208	20.78	8.16	15.34	29.3	0
9/26/2018 19:45	6.944	12.43	7.41	14.99	29.3	0
9/26/2018 20:00	11.53	23.03	7.621	15.55	29.32	0
9/26/2018 20:15	11.79	30.08	8.03	15.32	29.32	0
9/26/2018 20:30	10.55	40.34	6.611	14.79	29.32	0
9/26/2018 20:45	8.37	38.85	9.1	14.67	29.32	0
9/26/2018 21:00	6.019	26.4	10.75	14.43	29.32	0
9/26/2018 21:15	7.622	33.37	6.302	14.27	29.32	0
9/26/2018 21:30	5.136	40.37	7.928	13.28	29.32	0
9/26/2018 21:45	7.373	46.99	6.443	13.62	29.32	0
9/26/2018 22:00	6.722	43.58	8.76	14.19	29.32	0
9/26/2018 22:15	5.976	37.52	6.075	14.23	29.32	0
9/26/2018 22:30	5.243	41.83	10.39	15.29	29.32	0
9/26/2018 22:45	4.724	49.86	11	15.28	29.32	0
9/26/2018 23:00	2.968	243.6	83.6	13.45	29.29	0
9/26/2018 23:15	6.598	239.1	5.823	12.97	29.29	0
9/26/2018 23:30	5.669	239.4	5.227	13.36	29.29	0
9/26/2018 23:45	3.33	267.8	21.33	13.32	29.29	0
9/27/2018 0:00	5.06	303.3	18.7	12.93	29.31	0
9/27/2018 0:15	3.958	340.5	23.06	12.75	29.31	0
9/27/2018 0:30	1.006	53.84	0.599	11.64	29.31	0
9/27/2018 0:45	1.816	52.01	1.592	12.15	29.31	0
9/27/2018 1:00	1.399	47.21	1.313	12.1	29.3	0
9/27/2018 1:15	1.053	46.4	0.083	11.92	29.3	0
9/27/2018 1:30	0.841	42.36	8.34	11.9	29.3	0

9/27/2018 1:45	1.7	21.31	2.17	11.43	29.3	0
9/27/2018 2:00	2.769	26.99	4.685	11.46	29.31	0
9/27/2018 2:15	3.541	35.27	8.56	11.53	29.31	0
9/27/2018 2:30	3.519	36.54	9.12	11.35	29.31	0
9/27/2018 2:45	2.433	43.98	15.34	11.63	29.31	0
9/27/2018 3:00	2.05	77.06	2.804	11.83	29.29	0
9/27/2018 3:15	3.023	62.85	4.5	11.51	29.29	0
9/27/2018 3:30	3.045	48.21	16.96	11.16	29.29	0
9/27/2018 3:45	4.054	25.28	7.297	10.78	29.29	0
9/27/2018 4:00	4.687	34.17	5.616	10.27	29.28	0
9/27/2018 4:15	5.263	15.33	6.614	9.58	29.28	0
9/27/2018 4:30	6.364	27.53	7.661	9.67	29.28	0
9/27/2018 4:45	6.22	25.49	8.4	9.51	29.28	0
9/27/2018 5:00	5.245	26.87	7.518	9.67	29.27	0
9/27/2018 5:15	5.238	26.04	6.278	9.78	29.27	0
9/27/2018 5:30	5.753	31	6.789	9.87	29.27	0
9/27/2018 5:45	6.713	32.97	7.526	9.9	29.27	0
9/27/2018 6:00	5.859	30.73	8.51	9.89	29.26	0
9/27/2018 6:15	4.762	21.56	13.51	9.85	29.26	0
9/27/2018 6:30	5.959	30.85	7.597	9.62	29.26	0
9/27/2018 6:45	6.311	27.78	9.2	9.65	29.26	0
9/27/2018 7:00	5.699	41.41	7.51	9.48	29.26	0
9/27/2018 7:15	6.181	48.15	9.05	9.5	29.26	0
9/27/2018 7:30	6.579	35.96	11.17	9.58	29.26	0
9/27/2018 7:45	5.678	24.41	8.19	9.75	29.26	0
9/27/2018 8:00	4.998	28.46	7.615	10.18	29.26	0
9/27/2018 8:15	5.077	23.46	6.249	10.79	29.26	0
9/27/2018 8:30	3.54	12.39	8.82	11.59	29.26	0
9/27/2018 8:45	1.597	322.8	65.63	12.69	29.26	0
9/27/2018 9:00	1.259	228.7	18.35	13.59	29.26	0
9/27/2018 9:15	1.039	97	43.78	14.88	29.26	0
9/27/2018 9:30	1.912	99.2	57.37	15.29	29.26	0
9/27/2018 9:45	3.508	61.01	19.85	14.75	29.26	0
9/27/2018 10:00	6.519	34.5	10.17	14.83	29.23	0
9/27/2018 10:15	7.901	29.26	9.01	15.11	29.23	0
9/27/2018 10:30	6.699	28.41	12.31	16.2	29.23	0
9/27/2018 10:45	7.08	27.83	13.34	17.44	29.23	0
9/27/2018 11:00	7.299	29.49	14.49	18.25	29.23	0
9/27/2018 11:15	8.52	41.26	10.71	18.22	29.23	0
9/27/2018 11:30	9.9	22.29	17.01	19.13	29.23	0
9/27/2018 11:45	11.31	12.99	14.51	19.58	29.23	0
9/27/2018 12:00	12.22	19.13	12.31	19.33	29.21	0
9/27/2018 12:15	12.1	25.61	8.68	19.5	29.21	0
9/27/2018 12:30	10.88	20.44	13.18	19.95	29.21	0
9/27/2018 12:45	9.76	20.7	15.73	20.54	29.21	0
9/27/2018 13:00	11.31	19.53	10.74	20.28	29.2	0
9/27/2018 13:15	10.39	12.48	17.25	20.96	29.2	0

9/27/2018 13:30	9.91	359.3	19.06	21.02	29.2	0
9/27/2018 13:45	10.2	6.806	17.26	21.21	29.2	0
9/27/2018 14:00	10.58	9.65	14.9	21.14	29.18	0
9/27/2018 14:15	11.44	7.036	13.56	20.96	29.18	0
9/27/2018 14:30	9.36	7.836	12.51	21.26	29.18	0
9/27/2018 14:45	9.34	12.03	11.28	21.33	29.18	0
9/27/2018 15:00	8.44	15.13	11.24	21.34	29.16	0
9/27/2018 15:15	7.518	17.47	14.02	21.38	29.16	0
9/27/2018 15:30	8.65	18.08	9.98	21.17	29.16	0
9/27/2018 15:45	8.01	16.43	11.75	21.12	29.16	0
9/27/2018 16:00	7.53	11.82	8.47	21.07	29.13	0
9/27/2018 16:15	7.973	21.1	13.09	20.92	29.13	0
9/27/2018 16:30	6.87	22.98	6.365	20.74	29.13	0
9/27/2018 16:45	5.163	14.3	13.16	20.77	29.13	0
9/27/2018 17:00	7.178	11.9	8.76	20.26	29.11	0
9/27/2018 17:15	6.859	15.35	7.436	20.14	29.11	0
9/27/2018 17:30	4.888	340.7	17.66	19.94	29.11	0
9/27/2018 17:45	6.118	5.763	14.08	18.97	29.11	0
9/27/2018 18:00	6.841	3.13	14.72	18.54	29.11	0
9/27/2018 18:15	7.63	352.6	15.03	18.57	29.11	0
9/27/2018 18:30	6.965	5.459	15.13	18.19	29.11	0
9/27/2018 18:45	9.12	16.28	8.81	17.85	29.11	0
9/27/2018 19:00	9.36	23.65	8.83	17.43	29.11	0
9/27/2018 19:15	10.29	15.04	9.01	17.46	29.11	0
9/27/2018 19:30	9.91	25.79	9.87	17.22	29.11	0
9/27/2018 19:45	9.85	26.74	10.86	16.92	29.11	0
9/27/2018 20:00	9.22	30.54	8.6	16.78	29.11	0
9/27/2018 20:15	10.08	25.46	8.95	16.8	29.11	0
9/27/2018 20:30	8.7	36.86	9.99	16.32	29.11	0
9/27/2018 20:45	8.78	37.45	7.461	15.95	29.11	0
9/27/2018 21:00	8.3	36.92	6.8	15.75	29.12	0
9/27/2018 21:15	6.294	29.41	7.378	15.74	29.12	0
9/27/2018 21:30	7.316	26.07	6.819	15.76	29.12	0
9/27/2018 21:45	7.371	27.77	8.26	15.65	29.12	0
9/27/2018 22:00	7.992	23.19	8.3	15.28	29.11	0
9/27/2018 22:15	9.56	36.75	8.93	14.9	29.11	0
9/27/2018 22:30	11.85	30	8.07	14.4	29.11	0
9/27/2018 22:45	11.05	33.26	9.74	14.25	29.11	0
9/27/2018 23:00	9.36	33.68	8.98	14.06	29.1	0
9/27/2018 23:15	9.79	35.16	9.3	13.93	29.1	0
9/27/2018 23:30	8.48	28.74	7.788	13.59	29.1	0
9/27/2018 23:45	8.6	33.83	7.818	13.29	29.1	0
9/28/2018 0:00	8.23	26.12	8.41	13.16	29.11	0
9/28/2018 0:15	6.727	24.58	4.54	13.12	29.11	0
9/28/2018 0:30	7.666	29.44	7.061	13.13	29.11	0
9/28/2018 0:45	8	29.75	7.622	12.9	29.11	0
9/28/2018 1:00	6.474	24.98	8.02	12.81	29.12	0

9/28/2018 1:15	7.107	26.03	7.593	12.83	29.12	0
9/28/2018 1:30	8.23	25.66	10.36	12.62	29.12	0
9/28/2018 1:45	7.653	27.13	8.25	12.5	29.12	0
9/28/2018 2:00	7.186	23.67	8.69	12.45	29.09	0
9/28/2018 2:15	9.59	30.89	9.88	12.5	29.09	0
9/28/2018 2:30	11.8	35.68	9.13	12.45	29.09	0
9/28/2018 2:45	9.25	34.4	7.452	12.35	29.09	0
9/28/2018 3:00	7.381	27.99	8.64	12.39	29.09	0
9/28/2018 3:15	7.007	27.76	8.81	12.14	29.09	0
9/28/2018 3:30	6.535	26.99	8.48	11.93	29.09	0
9/28/2018 3:45	3.581	30.59	11.94	11.82	29.09	0
9/28/2018 4:00	2.946	44.84	9.15	11.62	29.08	0
9/28/2018 4:15	4.583	34.98	12.25	11.51	29.08	0
9/28/2018 4:30	8.11	40.11	6.672	11.45	29.08	0
9/28/2018 4:45	8.98	33.6	7.004	11.39	29.08	0
9/28/2018 5:00	8.61	32.82	9.44	11.9	29.06	0
9/28/2018 5:15	6.169	15.14	14.25	12.08	29.06	0
9/28/2018 5:30	3.791	14.5	21.46	12.56	29.06	0
9/28/2018 5:45	7.038	33.42	8.6	12.6	29.06	0
9/28/2018 6:00	6.785	31.73	10.41	12.7	29.08	0
9/28/2018 6:15	10.02	28.11	9.62	12.57	29.08	0
9/28/2018 6:30	11.4	31.53	10.5	13.09	29.08	0
9/28/2018 6:45	11.45	33.21	9.5	13.37	29.08	0
9/28/2018 7:00	11.3	24.49	8.74	13.74	29.06	0
9/28/2018 7:15	10.52	26.35	11.64	14.08	29.06	0
9/28/2018 7:30	8.2	32	9.5	14.41	29.06	0
9/28/2018 7:45	8.74	24.33	9.54	14.47	29.06	0
9/28/2018 8:00	8.79	24.22	8.37	14.81	29.06	0
9/28/2018 8:15	9.82	24.83	9.27	15.02	29.06	0
9/28/2018 8:30	7.661	33.96	7.709	15.54	29.06	0
9/28/2018 8:45	4.715	27.42	13.12	16.09	29.06	0
9/28/2018 9:00	4.951	29.87	9.37	16.18	29.07	0
9/28/2018 9:15	4.838	32.48	10.02	16.58	29.07	0
9/28/2018 9:30	4.581	31.07	6.663	17.03	29.07	0
9/28/2018 9:45	6.419	29.88	6.409	17.21	29.07	0
9/28/2018 10:00	5.068	39.85	12.36	17.79	29.03	0
9/28/2018 10:15	3.639	42.31	10.46	18.32	29.03	0
9/28/2018 10:30	3.504	27.38	16.91	19.49	29.03	0
9/28/2018 10:45	4.309	30.53	13.88	19.57	29.03	0
9/28/2018 11:00	4.93	35.62	10.29	20	29.02	0
9/28/2018 11:15	5.911	27.1	7.9	20.43	29.02	0
9/28/2018 11:30	6.621	26.88	6.091	20.97	29.02	0
9/28/2018 11:45	7.974	27.5	7.251	21.31	29.02	0
9/28/2018 12:00	6.565	28.76	11.96	21.71	29	0
9/28/2018 12:15	7.007	34.03	10.02	21.83	29	0
9/28/2018 12:30	7.347	31.24	9.38	22.16	29	0
9/28/2018 12:45	7.57	30.71	11.1	22.41	29	0

9/28/2018 13:00	7.65	29.62	12.87	22.7	28.99	0
9/28/2018 13:15	11.03	28.25	10.91	22.88	28.99	0
9/28/2018 13:30	10.04	15.23	12.82	23.21	28.99	0
9/28/2018 13:45	10.39	15.36	11.06	23.66	28.99	0
9/28/2018 14:00	9.4	22.35	11.69	23.8	28.97	0
9/28/2018 14:15	9.09	14.22	12.62	24.16	28.97	0
9/28/2018 14:30	12.71	11.71	12.21	24.02	28.97	0
9/28/2018 14:45	10.76	17.08	13.99	24	28.97	0
9/28/2018 15:00	10.44	13.3	11.69	24.15	28.97	0
9/28/2018 15:15	10.59	11.53	11.04	24.05	28.97	0
9/28/2018 15:30	10.72	13.15	11.82	24	28.97	0
9/28/2018 15:45	10.99	8.76	9.91	23.92	28.97	0
9/28/2018 16:00	10.01	8.69	11.89	23.84	28.94	0
9/28/2018 16:15	9.16	10.14	12.28	23.72	28.94	0
9/28/2018 16:30	8.87	4.909	11.2	23.56	28.94	0
9/28/2018 16:45	8.05	359.3	13.44	23.39	28.94	0
9/28/2018 17:00	7.622	1.596	15.16	23.14	28.94	0
9/28/2018 17:15	6.2	339.7	10.92	22.72	28.94	0
9/28/2018 17:30	7.058	347.3	10.31	22.4	28.94	0
9/28/2018 17:45	7.256	356	16.03	21.74	28.94	0
9/28/2018 18:00	7.376	5.103	11.15	21.2	28.92	0
9/28/2018 18:15	8.91	12.92	9.8	20.95	28.92	0
9/28/2018 18:30	6.267	28.63	12.56	20.07	28.92	0
9/28/2018 18:45	6.787	32.23	12.64	19.54	28.92	0
9/28/2018 19:00	6.325	36.56	10.35	18.76	28.9	0
9/28/2018 19:15	7.53	33.11	8.46	18.38	28.9	0
9/28/2018 19:30	7.729	34.34	7.339	18.19	28.9	0
9/28/2018 19:45	8.98	35.63	5.75	18.15	28.9	0
9/28/2018 20:00	8.4	30.9	5.113	18.26	28.9	0
9/28/2018 20:15	8.77	33.63	6.507	17.97	28.9	0
9/28/2018 20:30	9.67	34.05	9.07	17.65	28.9	0
9/28/2018 20:45	11.32	27.35	9.32	17.74	28.9	0
9/28/2018 21:00	11.86	26.99	9.84	17.8	28.89	0
9/28/2018 21:15	11.03	29.33	10.84	17.53	28.89	0
9/28/2018 21:30	9.63	26.47	11.07	17.13	28.89	0
9/28/2018 21:45	9.21	29.3	6.72	16.64	28.89	0
9/28/2018 22:00	8.04	25.64	7.284	16.41	28.91	0
9/28/2018 22:15	6.385	28.1	10.28	15.96	28.91	0
9/28/2018 22:30	7.258	33.48	7.309	15.81	28.91	0
9/28/2018 22:45	5.446	27.18	7.23	15.41	28.91	0
9/28/2018 23:00	5.952	25.47	5.725	15.33	28.9	0
9/28/2018 23:15	6.52	28.69	5.506	15.13	28.9	0
9/28/2018 23:30	5.285	26.93	8.06	14.98	28.9	0
9/28/2018 23:45	5.174	31.73	9.67	14.81	28.9	0
9/29/2018 0:00	6.231	28.68	24.34	14.6	28.91	0
9/29/2018 0:15	4.636	20.34	12.55	14.66	28.91	0
9/29/2018 0:30	4.523	17.22	7.248	14.54	28.91	0

9/29/2018 0:45	3.734	12.37	4.93	14.33	28.91	0
9/29/2018 1:00	4.509	22.2	7.441	14.37	28.9	0
9/29/2018 1:15	4.879	22.33	5.144	14.17	28.9	0
9/29/2018 1:30	4.726	19.15	8.13	13.92	28.9	0
9/29/2018 1:45	5.711	11.61	7.031	13.86	28.9	0
9/29/2018 2:00	4.943	21.19	6.331	13.84	28.89	0
9/29/2018 2:15	4.39	25.94	3.137	13.58	28.89	0
9/29/2018 2:30	4.594	18	5.454	13.69	28.89	0
9/29/2018 2:45	3.715	17.41	10.9	13.78	28.89	0
9/29/2018 3:00	4.549	32.55	6.548	12.97	28.9	0
9/29/2018 3:15	4.551	18.85	4.993	13.08	28.9	0
9/29/2018 3:30	3.841	25.43	4.577	13.39	28.9	0
9/29/2018 3:45	3.447	29.09	2.446	13.65	28.9	0
9/29/2018 4:00	3.171	28.55	2.668	13.32	28.88	0
9/29/2018 4:15	4.152	13.04	6.868	13.49	28.88	0
9/29/2018 4:30	3.301	26.46	16.65	13.2	28.88	0
9/29/2018 4:45	2.218	12.73	15.54	12.52	28.88	0
9/29/2018 5:00	3.835	11.23	8.4	12.61	28.91	0
9/29/2018 5:15	4.807	21.12	6.104	12.11	28.91	0
9/29/2018 5:30	4.008	22.85	5.354	12.47	28.91	0
9/29/2018 5:45	2.406	34.95	4.364	12.86	28.91	0
9/29/2018 6:00	0.79	21.76	3.134	12.46	28.9	0
9/29/2018 6:15	0.85	350.3	60.34	12.65	28.9	0
9/29/2018 6:30	4.357	223	8.96	11.77	28.9	0
9/29/2018 6:45	0.597	115.7	57.3	11.58	28.9	0
9/29/2018 7:00	3.474	186.7	14.46	11.76	28.94	0
9/29/2018 7:15	2.795	200.4	13.25	12.29	28.94	0
9/29/2018 7:30	2.837	147.7	34.75	12.81	28.94	0
9/29/2018 7:45	4.368	179.6	12.18	12.79	28.94	0
9/29/2018 8:00	5.682	182.6	9.26	13.02	28.94	0
9/29/2018 8:15	5.6	191	17.86	13.68	28.94	0
9/29/2018 8:30	3.748	210.6	10.62	13.63	28.94	0
9/29/2018 8:45	4.882	201.8	16.75	14.18	28.94	0
9/29/2018 9:00	5.563	209.1	10.09	14.09	28.97	0
9/29/2018 9:15	5.942	205.8	8.65	13.68	28.97	0
9/29/2018 9:30	4.889	205.9	11.33	13.87	28.97	0
9/29/2018 9:45	3.876	196.5	10.58	14.28	28.97	0
9/29/2018 10:00	3.035	188.6	19.77	14.77	28.97	0
9/29/2018 10:15	4.081	211.7	12.16	14.76	28.97	0
9/29/2018 10:30	3.968	207.2	16.79	15.24	28.97	0
9/29/2018 10:45	3.673	224	10.64	15.34	28.97	0
9/29/2018 11:00	3.749	289.9	21.06	15.84	28.96	0
9/29/2018 11:15	3.415	263.4	26.14	16.43	28.96	0
9/29/2018 11:30	3.347	268.3	49.68	16.51	28.96	0
9/29/2018 11:45	3.916	256.9	36.19	17.38	28.96	0
9/29/2018 12:00	4.739	280.4	18.04	17.5	28.97	0
9/29/2018 12:15	5.518	270.1	18.97	17.67	28.97	0

9/29/2018 12:30	6.152	266.6	21.17	17.88	28.97	0
9/29/2018 12:45	5.462	232.5	30.55	18.13	28.97	0
9/29/2018 13:00	6.496	214.4	36.67	18.29	28.98	0
9/29/2018 13:15	6.297	233.5	18.56	18.12	28.98	0
9/29/2018 13:30	5.408	241.1	25.94	18.02	28.98	0
9/29/2018 13:45	6.71	255.6	13.93	17.83	28.98	0
9/29/2018 14:00	7.537	245.5	16.69	18.07	28.96	0
9/29/2018 14:15	9.17	231.8	12.12	18.05	28.96	0
9/29/2018 14:30	9.94	234.5	10.15	17.82	28.96	0
9/29/2018 14:45	11.01	220.7	12.56	17.73	28.96	0
9/29/2018 15:00	10	209	12.79	17.59	28.99	0
9/29/2018 15:15	8.15	197.6	9.55	17.66	28.99	0
9/29/2018 15:30	10.6	203.6	15.09	17.86	28.99	0
9/29/2018 15:45	9.51	223.7	12.85	18.07	28.99	0
9/29/2018 16:00	9.58	222.3	10.76	17.81	28.98	0
9/29/2018 16:15	7.429	214.7	13.24	17.68	28.98	0
9/29/2018 16:30	7.853	215.2	10.1	17.57	28.98	0
9/29/2018 16:45	7.962	201.1	6.965	17.19	28.98	0
9/29/2018 17:00	6.977	206.4	10.74	17.04	29.01	0
9/29/2018 17:15	6.587	208	8.2	16.9	29.01	0
9/29/2018 17:30	6.017	194.5	7.881	16.71	29.01	0
9/29/2018 17:45	5.667	189.3	7.798	16.46	29.01	0
9/29/2018 18:00	5.253	175.8	11.61	16.2	29.01	0
9/29/2018 18:15	6.014	178.5	7.099	16.18	29.01	0
9/29/2018 18:30	4.254	144.3	7.902	15.71	29.01	0
9/29/2018 18:45	4.478	158.6	10.46	15.64	29.01	0
9/29/2018 19:00	4.56	135.8	12.72	15.63	29.03	0
9/29/2018 19:15	3.577	125	4.89	15.56	29.03	0
9/29/2018 19:30	4.986	139	6.758	15.43	29.03	0
9/29/2018 19:45	5.265	138.8	5.999	15.14	29.03	0
9/29/2018 20:00	4.245	134.6	4.581	14.79	29.03	0
9/29/2018 20:15	4.845	136.7	8.44	14.64	29.03	0
9/29/2018 20:30	3.983	117.9	7.312	14.48	29.03	0
9/29/2018 20:45	2.895	92	9.45	14.39	29.03	0
9/29/2018 21:00	2.507	83.2	4.95	14.54	29.03	0
9/29/2018 21:15	3.478	106.3	5.84	14.74	29.03	0
9/29/2018 21:30	3.459	94.8	5.303	14.61	29.03	0.01
9/29/2018 21:45	1.39	91.1	0.289	14.29	29.03	0
9/29/2018 22:00	1.187	94.4	2.135	14.52	29.02	0
9/29/2018 22:15	2.217	78.8	20.19	14.35	29.02	0
9/29/2018 22:30	2.707	40.95	10.79	13.67	29.02	0.01
9/29/2018 22:45	2.681	12.61	13.76	13.53	29.02	0.01
9/29/2018 23:00	4.711	334	14.84	13.63	29	0
9/29/2018 23:15	5.604	309.2	9.12	13.47	29	0
9/29/2018 23:30	4.339	278.6	3.668	13.84	29	0
9/29/2018 23:45	0.626	272.4	16.12	13.38	29	0
9/30/2018 0:00	0.154	41.25	4.055	12.99	29.01	0

9/30/2018 0:15	2.123	65.73	20.74	12.89	29.01	0
9/30/2018 0:30	1.022	69.08	74.28	12.91	29.01	0
9/30/2018 0:45	3.877	292.7	4.258	13.08	29.01	0
9/30/2018 1:00	2.41	304.3	2.517	13.12	29.04	0
9/30/2018 1:15	0.183	335.3	18.39	12.84	29.04	0
9/30/2018 1:30	3.178	95.7	12.32	12.49	29.04	0
9/30/2018 1:45	4.624	102.5	5.76	12.27	29.04	0
9/30/2018 2:00	3.015	123	8.57	12.58	29.03	0
9/30/2018 2:15	4.244	180.7	32.01	12.95	29.03	0
9/30/2018 2:30	5.148	182.5	24.53	12.68	29.03	0
9/30/2018 2:45	2.783	129.7	17.7	12.55	29.03	0
9/30/2018 3:00	2.447	102.3	4.761	12.17	29.03	0
9/30/2018 3:15	1.873	117	19.49	12.32	29.03	0
9/30/2018 3:30	2.896	152.6	9.35	12.58	29.03	0
9/30/2018 3:45	2.278	154.1	12.82	12.55	29.03	0
9/30/2018 4:00	2.932	114	6.126	12.59	29.03	0
9/30/2018 4:15	1.789	168.4	38.91	12.88	29.03	0
9/30/2018 4:30	3.645	158.5	7.862	13.42	29.03	0
9/30/2018 4:45	4.994	154.9	7.63	12.97	29.03	0
9/30/2018 5:00	4.246	139.4	6.647	12.76	29	0
9/30/2018 5:15	3.243	165.3	16.06	13.26	29	0
9/30/2018 5:30	4.447	172.5	11.61	13.85	29	0
9/30/2018 5:45	5.54	166.8	11.6	13.63	29	0
9/30/2018 6:00	4.852	185.2	13.71	13.92	29.03	0
9/30/2018 6:15	4.823	190.4	13.77	14.13	29.03	0
9/30/2018 6:30	4.96	174.7	14.86	14.37	29.03	0
9/30/2018 6:45	4.925	157.6	7.228	13.9	29.03	0
9/30/2018 7:00	5.23	170.7	7.693	14.1	29.04	0
9/30/2018 7:15	6.328	162.8	7.614	13.98	29.04	0
9/30/2018 7:30	6.686	152.9	5.701	14.02	29.04	0
9/30/2018 7:45	7.331	147.2	7.113	14.34	29.04	0
9/30/2018 8:00	6.941	144.3	8.09	14.37	29.04	0
9/30/2018 8:15	7.06	145	8.46	14.47	29.04	0
9/30/2018 8:30	6.756	144.4	9.34	14.68	29.04	0
9/30/2018 8:45	7.152	161.1	8.81	14.78	29.04	0
9/30/2018 9:00	7.341	157.9	6.829	14.73	29.04	0
9/30/2018 9:15	6.489	152.6	8.65	14.98	29.04	0
9/30/2018 9:30	7.027	158.2	6.937	15.06	29.04	0
9/30/2018 9:45	7.485	156.2	8.86	15.17	29.04	0
9/30/2018 10:00	7.736	153.1	8.23	15.57	29.03	0.01
9/30/2018 10:15	7.228	155.2	10.54	16.05	29.03	0
9/30/2018 10:30	7.735	147.9	11.66	16.04	29.03	0
9/30/2018 10:45	8.04	155.2	10.31	15.83	29.03	0
9/30/2018 11:00	7.712	161	11.4	15.86	29.04	0
9/30/2018 11:15	8.41	153.4	11.07	16.22	29.04	0
9/30/2018 11:30	7.941	152.7	10.04	16.18	29.04	0
9/30/2018 11:45	8.22	155.2	10.22	16.34	29.04	0

9/30/2018 12:00	9.31	137.3	11.4	16.4	29.02	0
9/30/2018 12:15	7.611	138	12.85	16.77	29.02	0
9/30/2018 12:30	8.89	138.5	12.61	17.03	29.02	0
9/30/2018 12:45	8.65	136.7	10.96	17.33	29.02	0
9/30/2018 13:00	8.71	154.4	9.82	17.01	29.03	0
9/30/2018 13:15	5.591	170.6	40.33	16.82	29.03	0
9/30/2018 13:30	6.942	194.6	15.56	16.73	29.03	0
9/30/2018 13:45	5.026	163.2	25.41	16.59	29.03	0
9/30/2018 14:00	4.803	136.2	12.75	16.41	29.02	0
9/30/2018 14:15	4.574	128.3	7.611	16.22	29.02	0
9/30/2018 14:30	5.978	134.5	9.63	16.22	29.02	0
9/30/2018 14:45	5.882	146.3	8.47	16.49	29.02	0
9/30/2018 15:00	6.44	151.2	9.65	16.92	29.03	0
9/30/2018 15:15	7.393	147.5	9.8	17.03	29.03	0
9/30/2018 15:30	5.939	143	9.63	17.06	29.03	0
9/30/2018 15:45	6.141	147.4	11.2	17.32	29.03	0
9/30/2018 16:00	7.464	145.6	7.961	17.3	29.02	0
9/30/2018 16:15	6.208	142.8	10.56	17.2	29.02	0
9/30/2018 16:30	9.41	145.5	9.77	17.13	29.02	0
9/30/2018 16:45	10.15	145.5	11.74	16.95	29.02	0
9/30/2018 17:00	10.24	146.6	8.67	16.83	29.02	0
9/30/2018 17:15	8.01	146.6	8.63	16.53	29.02	0
9/30/2018 17:30	7.687	146.7	8.7	16.06	29.02	0
9/30/2018 17:45	7.384	144.8	8.61	15.68	29.02	0
9/30/2018 18:00	6.834	171.1	12.56	15.11	29.04	0
9/30/2018 18:15	12.81	217.5	20.16	14.34	29.04	0.02
9/30/2018 18:30	5.362	220.9	22.86	13.55	29.04	0
9/30/2018 18:45	2.96	85.8	10.42	12.98	29.04	0
9/30/2018 19:00	4.698	97.5	16.15	13.15	29.03	0.01
9/30/2018 19:15	4.083	110.6	11.19	13.2	29.03	0
9/30/2018 19:30	7.162	147.4	7.675	13.48	29.03	0
9/30/2018 19:45	7.667	135.8	6.769	13.66	29.03	0
9/30/2018 20:00	7.645	133.6	9.22	13.83	29.01	0
9/30/2018 20:15	7.579	125.2	9.41	13.92	29.01	0
9/30/2018 20:30	7.564	116.7	8.93	14.09	29.01	0
9/30/2018 20:45	7.939	131.6	13.01	14.25	29.01	0
9/30/2018 21:00	6.711	131.6	12.21	14.46	28.99	0
9/30/2018 21:15	5.382	135.1	12.91	14.73	28.99	0
9/30/2018 21:30	6.576	167.3	11.17	14.61	28.99	0
9/30/2018 21:45	8.18	149.9	9.33	14.73	28.99	0
9/30/2018 22:00	7.65	148.1	17.69	15.03	28.99	0
9/30/2018 22:15	7.721	156.2	9.49	14.73	28.99	0
9/30/2018 22:30	7.71	151.7	10.05	14.73	28.99	0
9/30/2018 22:45	7.993	178.2	16.58	14.55	28.99	0
9/30/2018 23:00	9.19	200.2	12.07	14.08	29	0
9/30/2018 23:15	7.594	144.2	29.64	13.74	29	0
9/30/2018 23:30	7.769	128.8	8.57	13.45	29	0

Meteorological Data

9/30/2018 23:45	8.59	121.4	9.45	13.45	29	0
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APPENDIX D

Area 5 Top Deck Report

CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

Third Quarter 2018



Department of Natural Resources and Parks
Solid Waste Division

November 2018
Printed on recycled paper

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**AREA 5 TOP DECK MONITORING
QUARTERLY REPORT**

THIRD QUARTER 2018

I. REPORT OVERVIEW

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

II. LEACHATE MONITORING

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

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

**TABLE 1
CEDAR HILLS REGIONAL LANDFILL LEACHATE PRODUCTION for THIRD QUARTER of 2018**

Year	Leachate	Surface Area of Refuse	Refuse In Place	Precipitation	Flow			
					(MG/yr)	(Acres)	(lbs)	(in/yr)
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	130.62	353.12*	64,559,586,994	30.84	369,901	11,994	0.0020	0.00007

2018: Precipitation, leachate and refuse in place through 3rd Quarter of 2018

* 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 2018 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 2018, KCSWD staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A. During the third quarter, erosion control measures continued to be implemented and/or maintained to mitigate runoff effects from on-going construction activities at the landfill.

In addition to KCSWD inspections, inspections were performed twice this quarter by Public Health – Seattle & King County (PHSKC) this quarter. Inspections by PHSKC occurred on August 29 and September 28, 2018. 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 2018 surface emission monitoring was conducted from September 14 through October 4, 2018. There were no exceedances of regulatory criteria observed during the Serpentine Walk.

The results from the third quarter of 2018 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 2018 by KCSWD staff, or by PHSKC personnel.

Settlement Monitoring

Settlement of Area 5 is evaluated both through visual inspections and through topographic surveys at control points on the top deck. Due to the preparation work for the closure of Area 7 and the opening on Area 8, all previously surveyed control points in Area 5 have now been covered. New locations are currently being evaluated as survey control points in order to continue settlement monitoring within Area 5.

Tables 2 and 3 at the conclusion of this report show historical monitoring point elevations and settlement estimates for Area 5, respectively.

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 third quarter of 2018. This was due to a multiple factors including low precipitation throughout the third 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 third quarter of 2018.

V. CONCLUSION

Stormwater samples for the Area 5 Top Deck were unable to be collected during the third quarter of 2018 due to a lack of sufficient precipitation during the quarter. This observation was in line with historical regional precipitation levels for the summer months. Therefore, no determinations can be made regarding Area 5's third quarter 2018 stormwater runoff with respect to exceedances of water quality criteria or benchmarks, nor can comparisons be made with background surface water flow (from SW-S1), and leachate effluent (from LS-API).

The inspection reports for the third quarter of 2018 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 settlement survey data for third quarter of 2018. 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.

TABLE 2
CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for 3rd QUARTER of 2018

A5SM-1 ^a		A5SM-2 ^b		A5SM-3 ^c		PMX20074 ^d	
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	--	--
--	--	7/2/2015	760.96	7/2/2015	777.38	--	--
--	--	10/27/2015	760.62	10/27/2015	777.12	--	--
--	--	2/3/2016	760.35	2/3/2016	776.83	--	--
--	--	4/12/2016	760.35	4/12/2016	776.87	--	--
--	--	7/11/2016	760.15	7/11/2016	776.68	--	--
--	--	12/21/2016	759.85	12/21/2016	776.43	--	--
--	--	5/31/2017	759.56	5/31/2017	776.23	--	--
--	--	8/28/2017	759.38	--	--	--	--
--	--	11/27/2017	759.28	--	--	--	--
--	--	2/15/2018	759.10	--	--	--	--

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

^b A5SM-2 Destroyed by Area 8 excavation stockpile spring of 2018.

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

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

TABLE 3

CEDAR HILLS REGIONAL LANDFILL AREA 5 SETTLEMENT for 3rd QUARTER of 2018

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
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
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
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
PMX2007-4	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
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	0.70	0.46
	Feet/Month	0.33	0.19	0.15	0.14	0.11	0.09	0.06	0.09	0.04	0.06	0.06	0.04

Figures



LEGEND:
 ○ ACTIVE MONITORING STATION

AERIAL FLOWN SEPTEMBER 2014

DATE	REVISION	BY

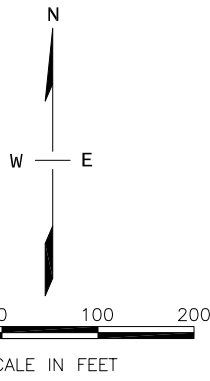


KING COUNTY DEPARTMENT OF
 NATURAL RESOURCES AND PARKS
 SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL
 SETTLEMENT MONITORING LOCATIONS

APPROVED VOO DATE Feb 2014
 RECOMMENDED _____ DATE _____
 DESIGNED _____ DRAWN _____
 PROJECT NO. _____ SURVEY NO. _____ SHEET 1 OF 1
S:\CAD\CEDARHIL\annual report monitoring\vol\01 annual settlements2014.dwg

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



AREA 5 TOP DECK STORMWATER MONITORING STATION

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

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

LEGEND:
 STORMWATER MONITORING STATION

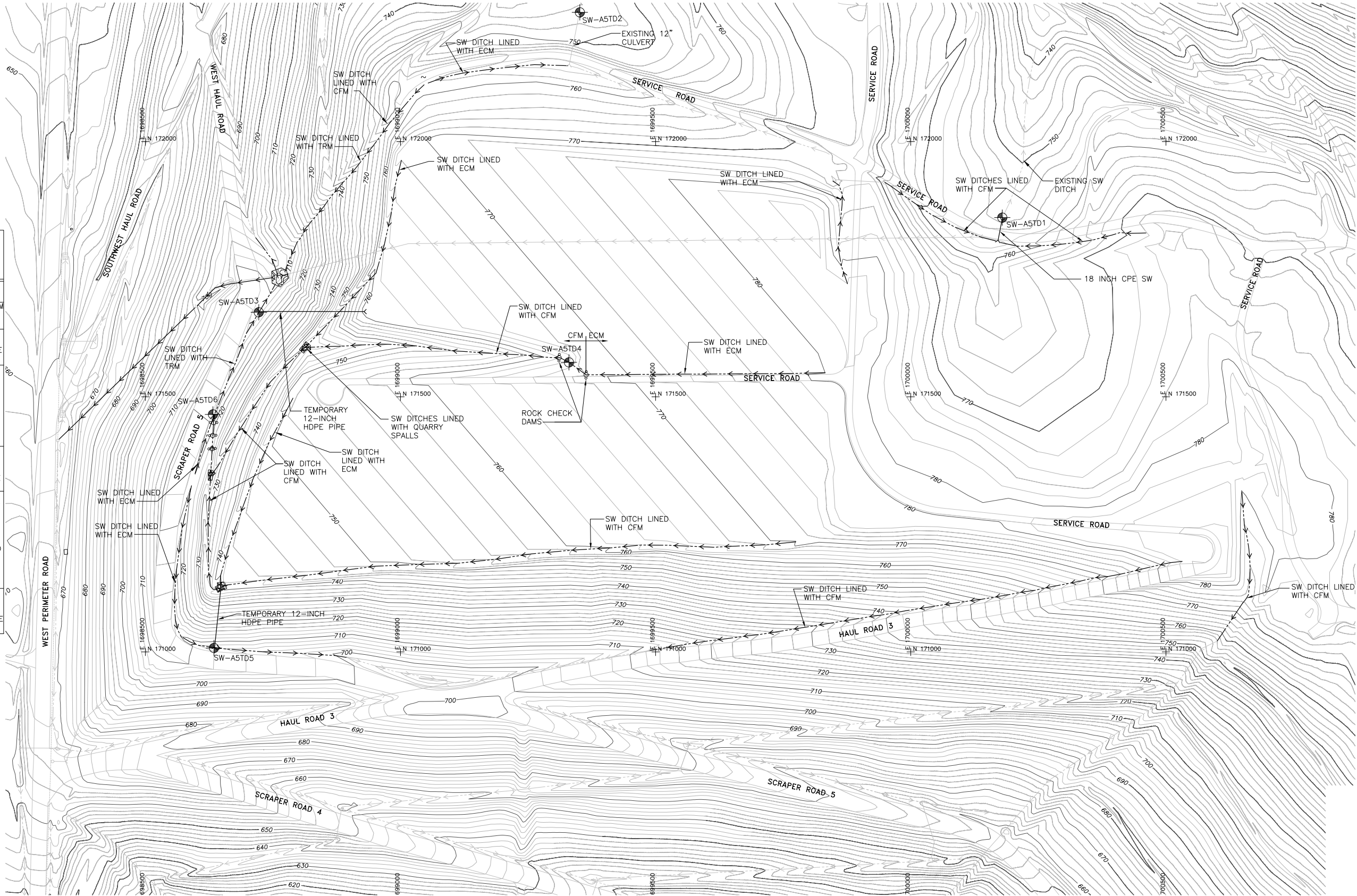


Figure 2
**Area 5 Top Deck
 Stormwater Monitoring Stations**

Appendix A:
Inspection Reports

SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry

Date: 7/30/18

Location: CEDAR HILLS Ambient Temperature (°F) 92 Weather Condition: Hot

ACTION CODES

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

Item No.	Action Code(s)	Area Code(s) (See below or over for map)		Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
		Area	Map	G	F	P		
1	A1	F (2,3)				X	Pipe penetration leaked onto Area 7 toe liner cover. The acculated leachate smells badly and the stormwater ditch needs vactoring, a flush of water and revactoring.	
2	D5	F (5)				X	Construction debris accumulated on cover system of south slope of Are 7. Needs removing. Contractor requested several times to remove construction debris.	
3	B5	F (4)			X		Trailer deadline washout rack berm needs repair.	
4	D1	H (3)			X		Sand filter top layer needs silt removal. On the Contractor's list to accomplish.	
5	C14	E (6)			X		Fire suppression water tower needs exterior cleaning.	

6	C12	G 5			X	Accumulating litter behind truck deadline
7		B(3&4)			X	The North Stormwater ponds are being drained by Operations. Contractor is to clean both ponds to remove the accumulated muck.
					X	There is a lot of accumulated garbage on the south side of Area 7 cover liner and even more collected in the stormwater ditch at the toe of Area 7.

AREA CODES (for Cedar Hills)

G = Good

F = Fair

P = Poor

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

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

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

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

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

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

Overall site description day of site inspection: There are areas of improvement that are needed. 1) Area 7 green cover liner, (south side), needs debris clearing badly. 2) The leachate spills at the toe of Area 7 needs another round of vactoring to remove accumulated leachate at the toe. 3) The storm drains around the backside of the Shops Building need maintenance, several drain line are blocked and the inlet socks require replacing. 4) Blown litter starting to accumulated behind the truck deadline behind the Shops building. 5) There is a lot of accumulated litter on the south side of Area 7 cover liner that needs to be collected.

Photos and their description taken during the site inspection can be located at: P:\SWPublic\CHL_Public\CH_Monthly Site Inspections\SW Inspections\SW Inspection 18\7July

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

<i>Category number:</i>	Action to be Completed. Suggested Remedy:
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SWPPP Modifications Necessary? (circle Y or N)
If Y, log changes in Appendix I of SWPPP.

Potential Pollutant Sources Y / N

Site Map Y / N

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

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

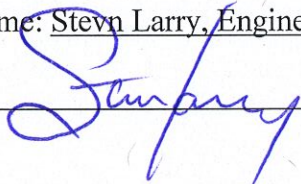
- The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*
 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

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

Printed name: Stevn Larry, Engineer II

Signature: _____



Date: _____

7/30/2018

DULY AUTHORIZED REPRESENTATIVE

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

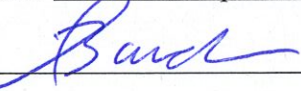
- The site is in compliance with the terms and conditions of the SWPPP and the ISGP.*
 The site is NOT in compliance with the terms and conditions of the SWPPP and the ISGP.*

* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this SWPPP 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 information to determine compliance with the Industrial Stormwater General Permit. Based on my inquiry of the person or persons who are responsible for stormwater management at my facility, this SWPPP is, to the best of my knowledge and belief, true, accurate, and complete, and in full compliance with Permit Conditions S3 and S8, including the correct Best Management Practices from the applicable Stormwater Management Manual. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager

Signature: _____



Date: _____

7/30/2018

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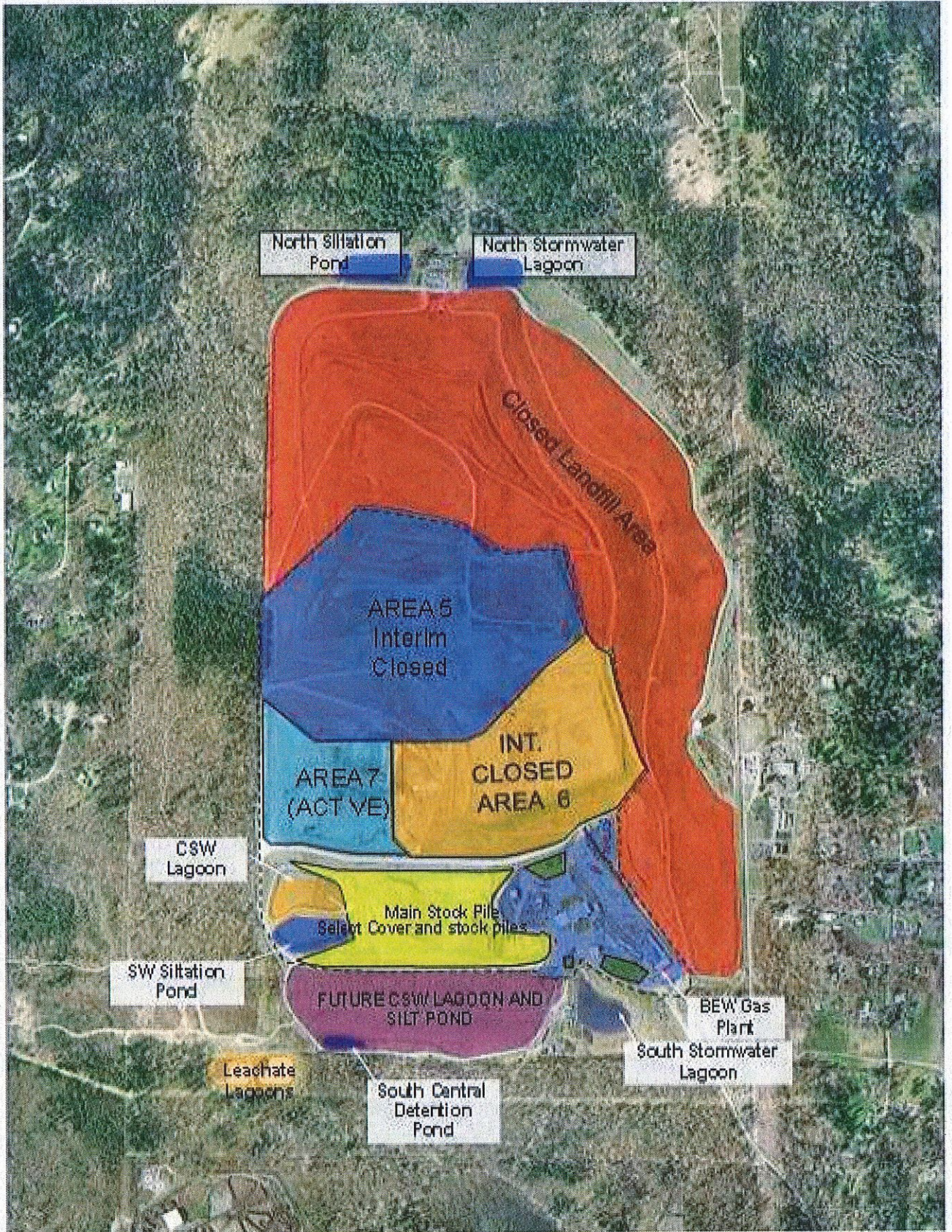
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SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

Inspected By: Stevn Larry

Date: 8/29/18

Location: CEDAR HILLS Ambient Temperature (°F) 83 Weather Condition: Clear

ACTION CODES

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

Item No.	Action Code(s)	Area Code(s) (See below or over for map)		Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
		Area	Map	G	F	P		
1	B5(a)	E2				X	Pipe penetration leaked onto Area 7 west facing slope. Gas line not connected by contractor to the main header. The line cap is off and leaking leachate. Contractor to make the repairs.	
2	C6 & F1	E&F (4)				X	There is a lot of accumulated garbage on the south side of Area 7 cover liner and even more collected in the stormwater ditch at the toe of Area 7.	
3	D1	B(4)			X		The North Stormwater has dark color, smelly water back flowing into the pond. An investigation of the fluid is being conducted and to determine the source of the back flow.	

--	--	--	--	--	--	--	--	--

AREA CODES (for Cedar Hills)

G = Good

F = Fair

P = Poor

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

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

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

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

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

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

Overall site description day of site inspection: There are areas of improvement that are needed. 1) Area 7 green cover liner, (east side), needs windblown debris clearing badly. 2) The leachate spills along the west facing side of Area 7 will be repaired by the contractor who created the issue. 3) The storm drains around the backside of the Shops Building need maintenance, several drain line are blocked and the inlet socks require replacing. 4) There is a backflow of dark colored stinky water into the North Stormwater lagoon. An investigation is underway to determine its makeup, Storm vs leachate and what is the source.

Photos and their description taken during the site inspection can be located at: P:\SWPublic\CHL_Public\CH_Monthly Site Inspections\SW Inspections\SW Inspection 18\8 August

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

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

Potential Pollutant Sources **Y / N**

Site Map **Y / N**

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

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

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

* Immediately notify Environmental Compliance Coordinator

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

Printed name: Stevn Larry, Engineer II

Signature:  Date: 8/30/18

DULY AUTHORIZED REPRESENTATIVE

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

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

* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this SWPPP 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 information to determine compliance with the Industrial Stormwater General Permit. Based on my inquiry of the person or persons who are responsible for stormwater management at my facility, this SWPPP is, to the best of my knowledge and belief, true, accurate, and complete, and in full compliance with Permit Conditions S3 and S8, including the correct Best Management Practices from the applicable Stormwater Management Manual. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager

Signature:  Date: 8/30/18

1 | 2 | 3 | 4 | 5 | 6 | 7

A

B

C

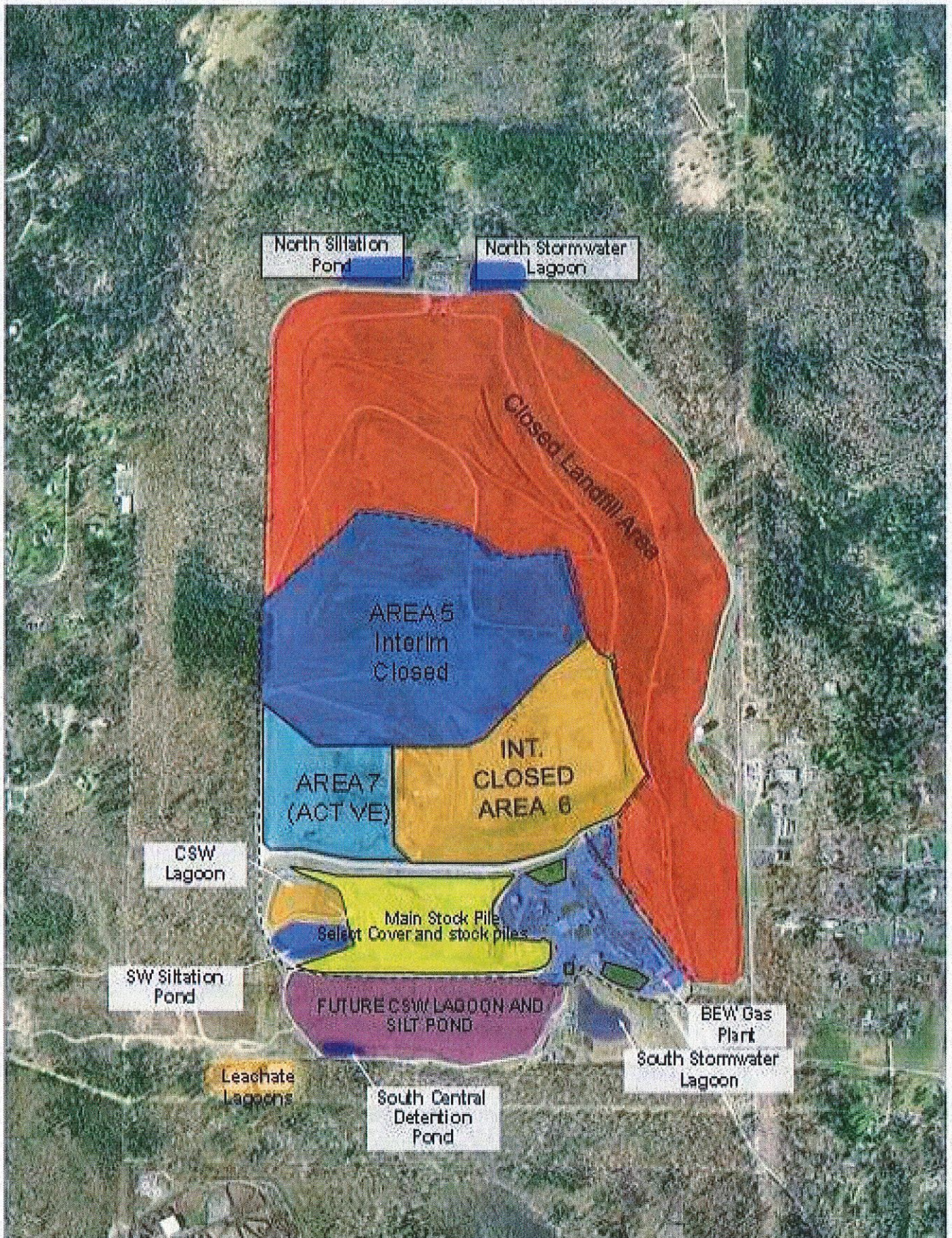
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SOLID WASTE DIVISION

Landfill Facility Site Inspections

Type – Permit Compliance

 Inspected By: Stevn Larry

 Date: 9/13/18

 Location: CEDAR HILLS

 Ambient Temperature (°F) 54

 Weather Condition: O'cast & heavy rains

ACTION CODES

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

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map		Status			State Reason if "Fair or Poor"	Date Corrective Action Implemented
				G	F	P		
1	1A		F2		X		Pipe penetration on Area 7 south slope "green liner" pipe supports have fallen over and the unsupported pipes are placing stress on the cover and could cause the liner to tear.	
2	D3		(F&G)-2		X		Accumulating garbage in the stormwater ditch along the west haul road of Area 7.	
3	D3		(F&G)-2			X	Surface water ditch erosion and channel scour. Ditch needs large rock to stabilize the channel.	
4	C12		(D&E)-2		X		Accumulating litter along the LFG lines along the West haul road.	

5	E1		F3 & E1		X		Dirty road surface along scraper road 5 and off of the fill. Trucks are bypassing the wheel wash.
6	D1		G3		X		Rapid sand filter needs new sand, the old 8" top layer has been removed and the sand has not been replaced.
7	E3		F3		X		Scraper road 5 road shoulder rilling beginning.
8	C6		F (2-3)		X		Multiple cover liner breaks along the toe of Area 7.

AREA CODES (for Cedar Hills)

G = Good

F = Fair

P = Poor

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

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

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

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

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

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

Overall site description day of site inspection: There are areas of improvement that are needed. 1) Area 7 green cover liner, at the toe, has several tears in the liner that require patching. 2) Windblown debris clearing needed along the LFG lines along the west haul road. 3) The stormwater ditch along the west haul road is badly scoured and needs rock to prevent undermining the haul road. 4) Dirty road surfaces off of the fill, truck drivers are bypassing the wheel wash and are tracking mud down the hill. 5) Pipe supports along Area 7 green cover liner are overturned and not supporting the pipes. The unsupported pipes and supports are placing a strain on the cover liner. 6) Road shoulder rilling occurring along the new scraper road 5. 7) Litter accumulating in the west side stormwater ditch along the haul road needs clearing. 8) The new stormwater conveyance channels along the slopes of area 7's west side need armoring with plastic and rock to prevent blowouts..

Photos and their description taken during the site inspection can be located at: P:\SWPublic\CHL_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 18\9 September

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

SWPPP Modifications Necessary? (circle **Y** or **N**) Potential Pollutant Sources **Y** / **N** Site Map **Y** / **N**
If Y, log changes in Appendix I of SWPPP.

INSPECTION REPORT SIGNATURE PAGE

INSPECTOR / QUALIFIED PERSONNEL

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

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

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

* Immediately notify Environmental Compliance Coordinator

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

Printed name: Stevn Larry, Engineer II

Signature:  Date: 9/13/2018

DULY AUTHORIZED REPRESENTATIVE

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


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

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

* Immediately notify Environmental Compliance Coordinator

I certify under penalty of law that this SWPPP 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 information to determine compliance with the Industrial Stormwater General Permit. Based on my inquiry of the person or persons who are responsible for stormwater management at my facility, this SWPPP is, to the best of my knowledge and belief, true, accurate, and complete, and in full compliance with Permit Conditions S3 and S8, including the correct Best Management Practices from the applicable Stormwater Management Manual. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed name: Bill Berni, Operations Manager

Signature:  Date: 9/13/18

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B

C

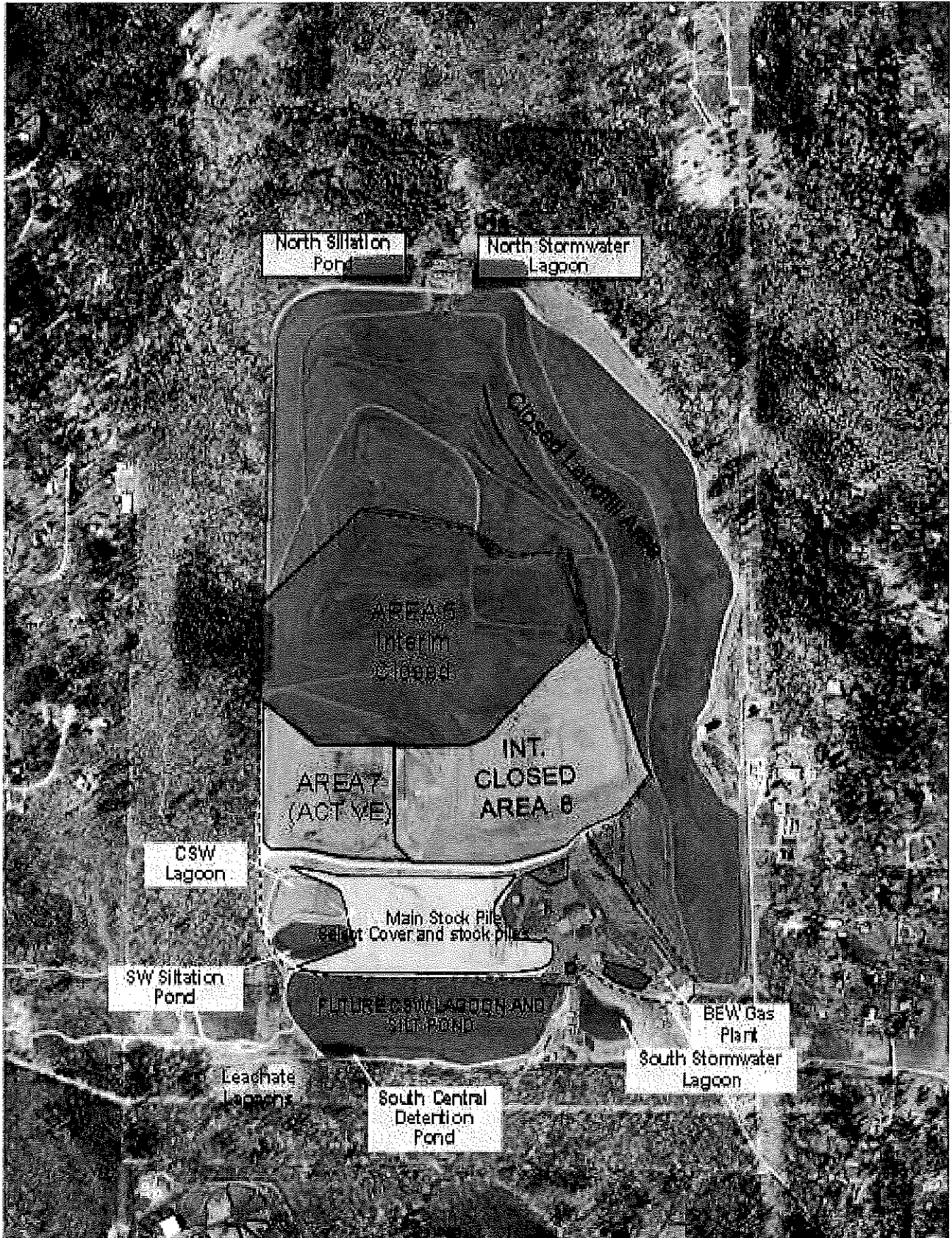
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H



SOLID WASTE INSPECTION REPORT

PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566	PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)
ESTABLISHMENT INFORMATION: CEDAR HILLS SANITARY LAND CEDAR HILLS SANITARY LAND 16645 228TH AV SE MAPLE VALLEY, WA 98038 206-296-4385 Program Record: PR0015736	INSPECTION INFORMATION: Date of Inspection: Wednesday, August 29, 2018 Time In: 1:05 pm Time Out: 2:40 pm Inspector: Darshan Dhillon Result: COMPLETE

VIOLATIONS OBSERVED (if any)

OVERALL INSPECTION COMMENTS:

ACTIONS AND RECOMMENDATIONS

- 1.1 Records of health and safety meetings were not available at the time of inspection. Please email Records of health and safety meetings and training sessions to public Health Solid Waste Program by September 5th, 2018.
- 1.2 It was recorded in the unacceptable waste report that excessive liquid was noted in loads tipped at The Cedar Hills landfill. Please send an email to Public Health Solid Waste Program describing why these loads were allowed to be tipped with excessive liquids.
- 1.3 Weekly inspection records were not available at the time of inspection. Please email weekly inspection records to Public Health Solid Waste Program by September 5, 2018.
- 1.4. It was discussed in the weekly construction meeting of 8/29/2018 that waste hauling vehicles are being driven at higher than posted speed. Please post electronic signs to monitor vehicle speeds to ensure that waste hauling vehicles are driven at posted speeds. Signs needs to be posted by Friday August 31, 2018.

OBSERVATIONS

- 2.1 East leachate lagoon still under construction and still waiting for dipole leak detection schedule.
- 2.2 New sand has been brought in to replace old sand in the sand filter.
- 2.3 Groundwater monitoring wells have been secured with pad locks.
- 2.4 Erosion of stock piles slopes are being stabilized with vegetation and rip rap.
- 2.5 No Landfill Gas odors were detected.
- 2.6 Dust is being controlled with spraying water on the access roads.
- 2.7 Seepage dewatering pumps have been installed in area 8. However, power has not been provided to pumps yet.
- 2.8 Compacted Soil Liner (CSL) is being installed on the slopes of Area 8. CSW will be finished by the end of next week.
- 2.9 Workers were wearing required PPE.
- 2.10 Aeration pumps were operating in west leachate lagoon.

Dhillon D.

Darshan S. Dhillon
H&EI III

Scott Barden
Assistant Operations Manager

PIC Phone #: 206-263-8863

Email: scott.barden@kingcounty.gov

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

Out=out of compliance

OUT

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

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

Annual Report

- 0828-Annual report due April 1st

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

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

Design Criteria New MSWLF expansion 173-351-300

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

Groundwater sampling and analysis requirements WAC 173-351-410

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

Liquids Restrictions

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

MSLF Groundwater reporting WAC 173-351-415

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

MSLF Leachate Managementfor Surface Impoundments WAC 173-350-330

Design Standards - Surface Impoundments

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

Ground Water monitoring requirement for surface impoundment and tanks

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

OUT

Operating standards - Surface Impoundments and tanks

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

Operating Criteria WAC 173-351-200

Access Restriction

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

Air Criteria

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

Cover Material Requirements

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

Disease Vectors Controlled

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

Explosive Gases Control

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

Incoming Waste Management

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

Performance Standards

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

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

Performance Standards for groundwater monitoring

System Design

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

Permit Requirements

- 0863-Permit Required

Plan of Operation

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

Record Keeping

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

Run-on/runoff Control Systems

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

Surface Water Requirements

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

SOLID WASTE INSPECTION REPORT

<p>PUBLIC HEALTH - SEATTLE & KING COUNTY Downtown Office 401 - 5th Ave., Ste 1100 Seattle, WA 98104 206-263-9566</p>	<p>PURPOSE OF VISIT: Routine Inspection/Field Review of a Municipal Landfill establishment (PE=1006)</p>
<p>ESTABLISHMENT INFORMATION:</p> <p>CEDAR HILLS SANITARY LAND CEDAR HILLS SANITARY LAND 16645 228TH AV SE MAPLE VALLEY, WA 98038 206-296-4385</p> <p>Program Record: PR0015736</p>	<p>INSPECTION INFORMATION:</p> <p>Date of Inspection: Friday, September 28, 2018</p> <p>Time In: 1:45 pm Time Out: 3:35 pm</p> <p>Inspector: Darshan Dhillon</p> <p>Result: COMPLETE</p>

VIOLATIONS OBSERVED (if any)

OVERALL INSPECTION COMMENTS:

1.0 ACTIONS AND RECOMMENDATIONS:

1.1 Empty garbage trucks & trailers returning after tipping were not going through wheel wash pond.

Please ensure that trucks and trailers, after tipping, go through the wheel wash to remove contaminated soil.

1.2 A portion of active face of the landfill was not properly covered and birds were scavenging through the garbage. Ensure that all active face area (not being used for active tipping id covered to prevent birds and rodents from scavenging.

2.0 OBSERVATIONS:

2.1 Leak detection test has been completed on the west leachate lagoon. Two leaks were detected both leaks have been repaired.

2.2 In order to relay the dipole current through the leachate pond liner the anchor trench has been dug out to expose the buried liner. The liner needed to be isolated to transmit dipole current through the liner.

2.3 Sand from the sand filter has been scraped off and removed to replace it with new sand ASTM C-33 type sand. New sand has been brought in to replace the existing used sand.

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

2.5 Traffic safety measures have been in place to ensure workers safety at site. Speed signs have been posted and being observed.

2.6 Liner has been installed all around sides of the area 8 and a layer of sand being installed on top of black HDPL liner.

2.7. Area 8 pit is being dewatered and seepage is being removed on a continuous basis.

2.8 Stock piles on top of area 6 has been hydro seeded to protect it from erosion.

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

2.10 Workers were wearing required PPE.

2.11 All wells were secured with padlocks.

2.12 Perimeter fence has been kept in good repair.

2.13 Daily inspection records have been maintained and available for inspections.

2.14 Safety reminders have been provided to workers at the beginning of each shift.

Johnathan

Darshan S. Dhillon
HEI III

Scott Barden
Assistant Manager Operations

PIC Phone #: 206-263-8863

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Cedar Hills Area 5 Maintenance

for the period 07/01/2018 to 09/30/2018

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	0000019766	CLOSED	Monthly Gas System PM	07/23/2018	N
	CHAREA5	0000019766	CLOSED	Monthly Stormwater PM	07/23/2018	N
	CHAREA5	0000019766	CLOSED	Monthly Cover System PM	07/23/2018	N
	CHAREA5	0000019902	CLOSED	Monthly Gas System PM	08/16/2018	N
	CHAREA5	0000019902	CLOSED	Monthly Stormwater PM	08/16/2018	N
	CHAREA5	0000019902	CLOSED	Monthly Cover System PM	08/16/2018	N
	CHAREA5	0000020036	CLOSED	Monthly Gas System PM	09/21/2018	N
	CHAREA5	0000020036	CLOSED	Monthly Stormwater PM	09/21/2018	N
	CHAREA5	0000020036	CLOSED	Monthly Cover System PM	09/21/2018	N
	CHAREA5E	0000019692	CLOSED	Monthly Header PM	07/18/2018	N
	CHAREA5E	0000019799	CLOSED	Monthly Header PM	08/15/2018	N
	CHAREA5E	0000019960	CLOSED	Monthly Header PM	09/17/2018	N
	CHAREA5W	0000019691	CLOSED	Monthly Header PM	07/18/2018	N
	CHAREA5W	0000019798	CLOSED	Monthly Header PM	08/14/2018	N
	CHAREA5W	0000019959	CLOSED	Monthly Header PM	09/13/2018	N

Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 07/01/2018 to 09/30/2018

Click the blue 'Y' to see notes

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

	Cedar Hills	0000039944	CLOSED	PMM	07/03/2018	N
	Cedar Hills	0000040213	CLOSED	PMM	08/13/2018	N
	Cedar Hills	0000040356	CLOSED	PMM	09/06/2018	N

Trash Racks

	Cedar Hills	0000039862	CLOSED	PMW	07/16/2018	Y
	Cedar Hills	0000039863	CLOSED	PMW	07/03/2018	N
	Cedar Hills	0000039864	CLOSED	PMW	07/12/2018	Y
	Cedar Hills	0000040036	CLOSED	PMW	07/23/2018	N
	Cedar Hills	0000040084	CLOSED	PMW	08/03/2018	N
	Cedar Hills	0000040159	CLOSED	PMW	08/07/2018	N
	Cedar Hills	0000040212	CLOSED	PMW	08/13/2018	N
	Cedar Hills	0000040270	CLOSED	PMW	08/24/2018	N
	Cedar Hills	0000040332	CLOSED	PMW	08/27/2018	N
	Cedar Hills	0000040355	CLOSED	PMW	09/06/2018	Y
	Cedar Hills	0000040463	CLOSED	PMW	09/10/2018	Y
	Cedar Hills	0000040504	CLOSED	PMW	09/21/2018	N
	Cedar Hills	0000040593	CLOSED	PMW	09/28/2018	N

Ditches

	Cedar Hills	0000039862	CLOSED	PMW	07/16/2018	Y
	Cedar Hills	0000039863	CLOSED	PMW	07/03/2018	N
	Cedar Hills	0000039864	CLOSED	PMW	07/12/2018	Y
	Cedar Hills	0000039944	CLOSED	PMM	07/03/2018	N
	Cedar Hills	0000040036	CLOSED	PMW	07/23/2018	N
	Cedar Hills	0000040084	CLOSED	PMW	08/03/2018	N
	Cedar Hills	0000040159	CLOSED	PMW	08/07/2018	N
	Cedar Hills	0000040212	CLOSED	PMW	08/13/2018	N
	Cedar Hills	0000040213	CLOSED	PMM	08/13/2018	N
	Cedar Hills	0000040270	CLOSED	PMW	08/24/2018	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000040332	CLOSED	PMW	08/27/2018	N
	Cedar Hills	0000040355	CLOSED	PMW	09/06/2018	Y
	Cedar Hills	0000040356	CLOSED	PMM	09/06/2018	N
	Cedar Hills	0000040463	CLOSED	PMW	09/10/2018	Y
	Cedar Hills	0000040504	CLOSED	PMW	09/21/2018	N
	Cedar Hills	0000040593	CLOSED	PMW	09/28/2018	N

Ponds/Lagoons

	Cedar Hills	0000039862	CLOSED	PMW	07/16/2018	Y
	Cedar Hills	0000039863	CLOSED	PMW	07/03/2018	N
	Cedar Hills	0000039864	CLOSED	PMW	07/12/2018	Y
	Cedar Hills	0000040036	CLOSED	PMW	07/23/2018	N
	Cedar Hills	0000040084	CLOSED	PMW	08/03/2018	N
	Cedar Hills	0000040159	CLOSED	PMW	08/07/2018	N
	Cedar Hills	0000040212	CLOSED	PMW	08/13/2018	N
	Cedar Hills	0000040270	CLOSED	PMW	08/24/2018	N
	Cedar Hills	0000040332	CLOSED	PMW	08/27/2018	N
	Cedar Hills	0000040355	CLOSED	PMW	09/06/2018	Y
	Cedar Hills	0000040463	CLOSED	PMW	09/10/2018	Y
	Cedar Hills	0000040504	CLOSED	PMW	09/21/2018	N
	Cedar Hills	0000040593	CLOSED	PMW	09/28/2018	N

General

	Cedar Hills	0000039862	CLOSED	PMW	07/16/2018	Y
	Cedar Hills	0000039863	CLOSED	PMW	07/03/2018	N
	Cedar Hills	0000039864	CLOSED	PMW	07/12/2018	Y
	Cedar Hills	0000040036	CLOSED	PMW	07/23/2018	N
	Cedar Hills	0000040084	CLOSED	PMW	08/03/2018	N
	Cedar Hills	0000040159	CLOSED	PMW	08/07/2018	N
	Cedar Hills	0000040212	CLOSED	PMW	08/13/2018	N
	Cedar Hills	0000040270	CLOSED	PMW	08/24/2018	N
	Cedar Hills	0000040332	CLOSED	PMW	08/27/2018	N
	Cedar Hills	0000040355	CLOSED	PMW	09/06/2018	Y
	Cedar Hills	0000040463	CLOSED	PMW	09/10/2018	Y
	Cedar Hills	0000040504	CLOSED	PMW	09/21/2018	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000040593	CLOSED	PMW	09/28/2018	N

Leachate System

CHPS1	0000039818	CLOSED	PMW	07/16/2018	N
CHPS1	0000039819	CLOSED	PMW	07/03/2018	N
CHPS1	0000039820	CLOSED	PMW	07/09/2018	N
CHPS1	0000040028	CLOSED	PMW	07/23/2018	N
CHPS1	0000040095	CLOSED	PMW	07/30/2018	N
CHPS1	0000040130	CLOSED	PMW	08/06/2018	N
CHPS1	0000040237	CLOSED	PMW	08/13/2018	N
CHPS1	0000040258	CLOSED	PMW	08/20/2018	N
CHPS1	0000040309	CLOSED	PMW	08/26/2018	N
CHPS1	0000040380	CLOSED	PMW	09/05/2018	N
CHPS1	0000040479	CLOSED	PMW	09/11/2018	N
CHPS1	0000040522	CLOSED	PMW	09/18/2018	N
CHPS1	0000040576	CLOSED	PMW	09/26/2018	N
CHPS2	0000039815	CLOSED	PMW	07/16/2018	N
CHPS2	0000039816	CLOSED	PMW	07/03/2018	N
CHPS2	0000040027	CLOSED	PMW	07/23/2018	N
CHPS2	0000040094	CLOSED	PMW	07/30/2018	N
CHPS2	0000040129	CLOSED	PMW	08/06/2018	N
CHPS2	0000040235	CLOSED	PMW	08/13/2018	N
CHPS2	0000040257	CLOSED	PMW	08/20/2018	N
CHPS2	0000040308	CLOSED	PMW	08/26/2018	N
CHPS2	0000040378	CLOSED	PMW	09/05/2018	N
CHPS2	0000040478	CLOSED	PMW	09/11/2018	N
CHPS2	0000040521	CLOSED	PMW	09/18/2018	N
CHPS2	0000040577	CLOSED	PMW	09/26/2018	N
CHPS3	0000039809	CLOSED	PMW	07/16/2018	N
CHPS3	0000039810	CLOSED	PMW	07/03/2018	N
CHPS3	0000039811	CLOSED	PMW	07/09/2018	N
CHPS3	0000040025	CLOSED	PMW	07/23/2018	N
CHPS3	0000040092	CLOSED	PMW	07/30/2018	N
CHPS3	0000040127	CLOSED	PMW	08/06/2018	N

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	CHPS3	0000040231	CLOSED	PMW	08/13/2018	N
	CHPS3	0000040255	CLOSED	PMW	08/20/2018	N
	CHPS3	0000040306	CLOSED	PMW	08/26/2018	N
	CHPS3	0000040374	CLOSED	PMW	09/05/2018	N
	CHPS3	0000040477	CLOSED	PMW	09/11/2018	N
	CHPS3	0000040519	CLOSED	PMW	09/18/2018	N
	CHPS3	0000040579	CLOSED	PMW	09/26/2018	N
	CHPS4	0000039807	CLOSED	PMW	07/03/2018	Y
	CHPS4	0000039808	CLOSED	PMW	07/09/2018	Y
	CHPS4	0000039981	CLOSED	PMW	07/16/2018	N
	CHPS4	0000040024	CLOSED	PMW	07/23/2018	Y
	CHPS4	0000040088	CLOSED	PMW	07/30/2018	N
	CHPS4	0000040126	CLOSED	PMW	08/06/2018	Y
	CHPS4	0000040229	CLOSED	PMW	08/13/2018	Y
	CHPS4	0000040254	CLOSED	PMW	08/20/2018	Y
	CHPS4	0000040305	CLOSED	PMW	08/26/2018	N
	CHPS4	0000040371	CLOSED	PMW	09/05/2018	N
	CHPS4	0000040480	CLOSED	PMW	09/11/2018	Y
	CHPS4	0000040518	CLOSED	PMW	09/18/2018	N
	CHPS4	0000040580	CLOSED	PMW	09/26/2018	N
	LEPS	0000039797	CLOSED	PMW	07/16/2018	N
	LEPS	0000039799	CLOSED	PMW	07/09/2018	N
	LEPS	0000039801	CLOSED	PMW	07/03/2018	N
	LEPS	0000039802	CLOSED	PMW	07/09/2018	N
	LEPS	0000039952	CLOSED	PMM	07/02/2018	Y
	LEPS	0000039952	CLOSED	PMM	07/02/2018	Y
	LEPS	0000040021	CLOSED	PMW	07/23/2018	Y
	LEPS	0000040022	CLOSED	PMW	07/23/2018	N
	LEPS	0000040090	CLOSED	PMW	07/30/2018	N
	LEPS	0000040123	CLOSED	PMW	08/06/2018	Y
	LEPS	0000040224	CLOSED	PMW	08/13/2018	Y
	LEPS	0000040225	CLOSED	PMM	08/13/2018	Y
	LEPS	0000040252	CLOSED	PMW	08/20/2018	N
	LEPS	0000040253	CLOSED	PMW	08/20/2018	Y
	LEPS	0000040304	CLOSED	PMW	08/26/2018	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	LEPS	0000040369	CLOSED	PMW	09/05/2018	N
	LEPS	0000040370	CLOSED	PMM	09/05/2018	Y
	LEPS	0000040472	CLOSED	PMW	09/11/2018	N
	LEPS	0000040474	CLOSED	PMW	09/11/2018	N
	LEPS	0000040523	CLOSED	PMW	09/18/2018	N
	LEPS	0000040574	CLOSED	PMW	09/26/2018	N

Landfill Cover

	CHAPONDS	0000019764	CLOSED	PMV	07/23/2018	N
	CHAPONDS	0000019900	CLOSED	PMV	08/16/2018	N
	CHAPONDS	0000020034	CLOSED	PMV	09/21/2018	N
	CHAREA4	0000019765	CLOSED	PMV	07/23/2018	N
	CHAREA4	0000019901	CLOSED	PMV	08/16/2018	N
	CHAREA4	0000020035	CLOSED	PMV	09/21/2018	N
	CHAREA5	0000019766	CLOSED	PMV	07/23/2018	N
	CHAREA5	0000019902	CLOSED	PMV	08/16/2018	N
	CHAREA5	0000020036	CLOSED	PMV	09/21/2018	N
	CHAREA6	0000019767	CLOSED	PMV	07/23/2018	N
	CHAREA6	0000019903	CLOSED	PMV	08/16/2018	N
	CHAREA6	0000020037	CLOSED	PMV	09/21/2018	N
	CHAREAS23	0000019769	CLOSED	PMV	07/23/2018	N
	CHAREAS23	0000019905	CLOSED	PMV	08/16/2018	N
	CHAREAS23	0000020039	CLOSED	PMV	09/21/2018	N
	CHCENTRALPIT	0000019770	CLOSED	PMV	07/23/2018	N
	CHCENTRALPIT	0000019906	CLOSED	PMV	08/16/2018	N
	CHCENTRALPIT	0000020040	CLOSED	PMV	09/21/2018	N
	CHEMH	0000019771	CLOSED	PMV	07/23/2018	N
	CHEMH	0000019907	CLOSED	PMV	08/16/2018	N
	CHEMH	0000020041	CLOSED	PMV	09/21/2018	N
	CHNFLARESTN	0000019775	CLOSED	PMV	07/23/2018	N
	CHNFLARESTN	0000019911	CLOSED	PMV	08/16/2018	N
	CHNFLARESTN	0000020045	CLOSED	PMV	09/21/2018	N
	CHSEPA	0000019772	CLOSED	PMV	07/23/2018	N
	CHSEPA	0000019908	CLOSED	PMV	08/16/2018	N
	CHSEPA	0000020042	CLOSED	PMV	09/21/2018	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHSSWA	0000019773	CLOSED	PMV	07/23/2018	N
	CHSSWA	0000019909	CLOSED	PMV	08/16/2018	N
	CHSSWA	0000020043	CLOSED	PMV	09/21/2018	N
	CHSTOCKPILE	0000019763	CLOSED	PMV	07/23/2018	N
	CHSTOCKPILE	0000019899	CLOSED	PMV	08/16/2018	N
	CHSTOCKPILE	0000020033	CLOSED	PMV	09/21/2018	N
	CHSWMH	0000019774	CLOSED	PMV	07/23/2018	N
	CHSWMH	0000019910	CLOSED	PMV	08/16/2018	N
	CHSWMH	0000020044	CLOSED	PMV	09/21/2018	N

Landfill Gas

CHAREA5E	0000019702	CLOSED	PMW	07/06/2018	N
CHAREA5E	0000019747	CLOSED	PMW	07/19/2018	N
CHAREA5E	0000019836	CLOSED	PMW	08/07/2018	N
CHAREA5E	0000019883	CLOSED	PMW	08/27/2018	N
CHAREA5E	0000019970	CLOSED	PMW	09/07/2018	N
CHAREA5E	0000020017	CLOSED	PMW	09/20/2018	N
CHAREA5W	0000019703	CLOSED	PMW	07/05/2018	N
CHAREA5W	0000019748	CLOSED	PMW	07/18/2018	N
CHAREA5W	0000019837	CLOSED	PMW	08/07/2018	N
CHAREA5W	0000019884	CLOSED	PMW	08/27/2018	N
CHAREA5W	0000019971	CLOSED	PMW	09/05/2018	N
CHAREA5W	0000020018	CLOSED	PMW	09/19/2018	N
CHAREA6	0000019688	CLOSED	PMW	07/12/2018	N
CHAREA6	0000019740	CLOSED	PMW	07/24/2018	N
CHAREA6	0000019795	CLOSED	PMW	08/02/2018	N
CHAREA6	0000019874	CLOSED	PMW	08/24/2018	N
CHAREA6	0000019956	CLOSED	PMW	09/05/2018	N
CHAREA6	0000020009	CLOSED	PMW	09/26/2018	N
CHAREAS23	0000019648	CLOSED	PMW	07/10/2018	N
CHAREAS23	0000019719	CLOSED	PMW	07/31/2018	N
CHAREAS23	0000019781	CLOSED	PMW	08/02/2018	N
CHAREAS23	0000019851	CLOSED	PMW	08/29/2018	N
CHAREAS23	0000019917	CLOSED	PMW	09/11/2018	N
CHAREAS23	0000019987	CLOSED	PMW	09/18/2018	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHCMH	0000019707	CLOSED	PMW	07/02/2018	N
	CHCMH	0000019707	CLOSED	PMW	07/08/2018	N
	CHCMH	0000019707	CLOSED	PMW	07/09/2018	N
	CHCMH	0000019749	CLOSED	PMW	07/15/2018	N
	CHCMH	0000019749	CLOSED	PMW	07/16/2018	N
	CHCMH	0000019749	CLOSED	PMW	07/23/2018	N
	CHCMH	0000019841	CLOSED	PMW	08/01/2018	N
	CHCMH	0000019841	CLOSED	PMW	08/02/2018	N
	CHCMH	0000019841	CLOSED	PMW	08/08/2018	N
	CHCMH	0000019885	CLOSED	PMW	08/22/2018	N
	CHCMH	0000019885	CLOSED	PMW	08/23/2018	N
	CHCMH	0000019885	CLOSED	PMW	08/29/2018	N
	CHCMH	0000019975	CLOSED	PMW	09/03/2018	N
	CHCMH	0000019975	CLOSED	PMW	09/04/2018	N
	CHCMH	0000019975	CLOSED	PMW	09/11/2018	N
	CHCMH	0000020019	CLOSED	PMW	09/17/2018	N
	CHCMH	0000020019	CLOSED	PMW	09/18/2018	N
	CHCMH	0000020019	CLOSED	PMW	09/24/2018	N
	CHEMH	0000019776	CLOSED	PMW	07/12/2018	N
	CHEMH	0000019777	CLOSED	PMW	07/25/2018	N
	CHEMH	0000019835	CLOSED	PMW	08/13/2018	N
	CHEMH	0000019882	CLOSED	PMW	08/28/2018	N
	CHEMH	0000020016	CLOSED	PMW	09/12/2018	N
	CHEMH	0000020055	CLOSED	PMW	09/29/2018	N
	CHSEPA	0000019650	CLOSED	PMW	07/05/2018	N
	CHSEPA	0000019712	CLOSED	PMW	07/17/2018	N
	CHSEPA	0000019786	CLOSED	PMW	08/03/2018	N
	CHSEPA	0000019846	CLOSED	PMW	08/24/2018	N
	CHSEPA	0000019930	CLOSED	PMW	09/06/2018	N
	CHSEPA	0000020001	CLOSED	PMW	09/18/2018	N

Landfill Roads

CHACTIVEAREA	0000019754	CLOSED	PMR	07/23/2018	N
CHACTIVEAREA	0000019890	CLOSED	PMR	08/16/2018	N
CHACTIVEAREA	0000020024	CLOSED	PMR	09/21/2018	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHMAINGATE	0000019755	CLOSED	PMR	07/23/2018	N
	CHMAINGATE	0000019891	CLOSED	PMR	08/16/2018	N
	CHMAINGATE	0000020025	CLOSED	PMR	09/21/2018	N
	CHPSR	0000019756	CLOSED	PMR	07/23/2018	N
	CHPSR	0000019892	CLOSED	PMR	08/16/2018	N
	CHPSR	0000020026	CLOSED	PMR	09/21/2018	N
	CHSTOCKPILE	0000019763	CLOSED	PMR	07/23/2018	N
	CHSTOCKPILE	0000019899	CLOSED	PMR	08/16/2018	N
	CHSTOCKPILE	0000020033	CLOSED	PMR	09/21/2018	N

Landfill Roads

Sweeper	0	see Equipment Operator Spreadsheet	NA	0	N
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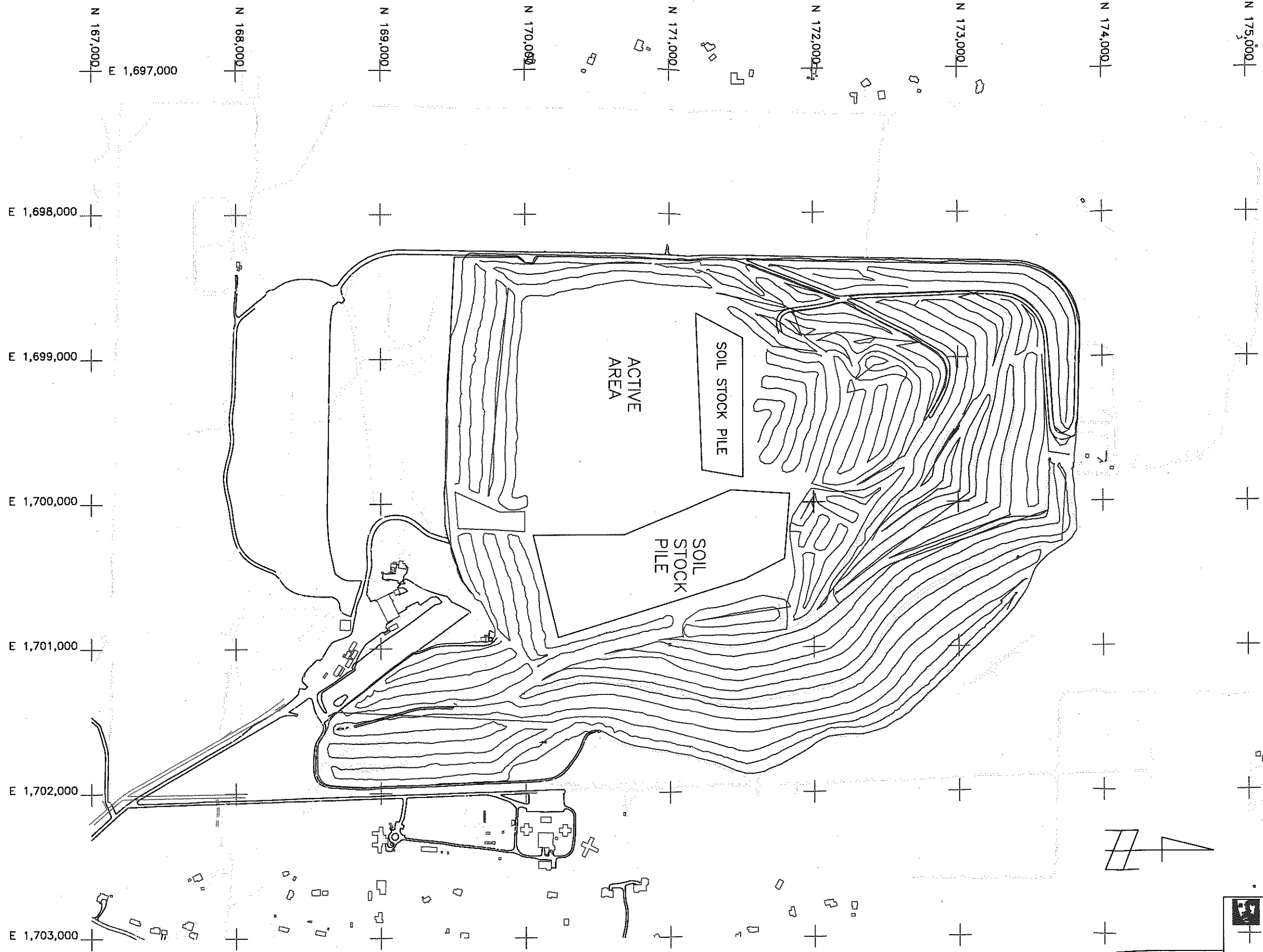
Equipment

Click the word 'Equipment' to see Work Order Numbers

Appendix B:
Gas Monitoring Reports

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

OCTOBER 2018
 Scale 1"=800'



KING COUNTY DEPARTMENT OF NATURAL RESOURCES
 AND PARKS
 Christie True, Director
 SOLID WASTE DIVISION
**CEDAR HILLS QUARTERLY
 GAS EMISSIONS MONITORING**

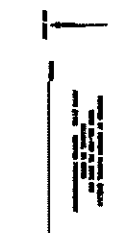
APPROVED _____ DATE 10-10-18
 RECOMMENDED _____ DATE _____
 DESIGNED PJM DRAWN PJM
 PROJECT NO. _____ SURVEY NO. _____ SHEET 1 OF 1

DATE	REVISION	BY

KING COUNTY SOLID WASTE
 201 S JACKSON ST. SUITE 701
 SEATTLE, WA. 98104-3885



CEDAR HILLS REGIONAL LANDFILL
 SCALE: 1" = 800'
 CONTOUR INTERVAL: 5 FT.
 DATE OF PHOTOGRAPHY: 9-17-18




PERMANENTLY MARKED
 3/10/18 11:11 AM
 DRAWING ON FILE
 (01/25/2018)

NO. 10-18-01
 SHEET 1 / 1

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

TECHNICIAN COPY



WO#: 0000019912
 Date In: 08/28/2018 11:21
 Date Promised: 08/29/2018 11:21
 Date Out: 00:00

WO Status: A Last WO#: 0000019889
 WO Priority: Last WO Date: 07/30/2018
 Track DnTime: Y Operator: WG

Equipment: CEDAR HILLS License: na

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

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

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
I	A - SET AN ANNUAL DATE	07/15/2019	Annual Inspection
Q	0 - MONTHS	09/30/2018	Quarterly Inspection
S	0 - MONTHS	01/15/2019	Scheduled Inspection
X	0 - MONTHS	09/10/2018	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	764	0.00000	
PMQ BS	PM Service PMQ per list Billable Scheduled, Target	0	763 <i>JP</i>	0.00000	
PMQ BS	PM Service PMQ per list Billable Scheduled, Target	0	750 <i>RB</i>	0.00000	

NOTES

Work Order Task List

Repair Code: PMQ BS
 Equipment: CEDAR HILLS
 Work Order: 0000019912

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					

Rusty

9-21-18 - 8 hrs

9-28-18 - 4 hrs

10-3-18 - 5 hrs.

DS

9-28-18 5 HRS

JA

9-25 10hrs


9-26 10hrs

9-27 6 hrs

10-4 8.5hrs

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

TECHNICIAN COPY



WO#: 0000019766
 Date In: 07/10/2018 07:15
 Date Promised: 07/11/2018 07:15
 Date Out: 00:00
 WO Status: A Last WO#: 0000019632
 WO Priority: Last WO Date: 06/01/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREAS License: na

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

Tire Size 1: GVW: 0
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Hills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 5
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	07/10/2018	Gas System
T	0 - MONTHS	07/10/2018	Stormwater
V	0 - MONTHS	07/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	762 JD	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	762 JD	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
 CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies	✓				

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies	✓				


PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies	✓				

DATE: 7-23

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

TECHNICIAN COPY



WO#: 0000019902
 Date In: 07/30/2018 10:26
 Date Promised: 07/31/2018 10:26
 Date Out: 00:00

WO Status: A Last WO#: 0000019766
 WO Priority: Last WO Date: 07/10/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA5 License: na

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

Tire Size 1:	GVW: 0
Tire Size 2:	EAC: 24
Transmission:	Department: 7572:Waste Water, LF Gas
Fuel Type1:	Company: Gas King County Landfill Gas
Fuel Type2:	Site: 20:20- Cedar Hills
Fuel Type3:	Monitor Group:
Oil Capacity: 0.000	Comments:
Fuel Cap1: 0.000	CH Area 5
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	07/10/2018	Gas System
T	0 - MONTHS	07/10/2018	Stormwater
V	0 - MONTHS	07/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	750 RB	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	750 RB	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	750 RB	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
 CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	/				
Gas Visually inspect disposal system	/				
Gas Verify daily odor log is current	/				
Gas Note any deficiencies	/				

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds					
Gas Visually inspect lagoons					
Gas Visually inspect catch basins					
Gas Visually inspect control structures	/				
Gas Visually inspect conveyance pipes	/				
Gas Note any deficiencies	/				


PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	/				
Gas Visually inspect refuse					
Gas Visually inspect cover	/				
Gas Visually inspect erosion	/				
Gas Note any deficiencies	/				

DATE: 8/13/18

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

TECHNICIAN COPY



WO#: 0000020036
 Date In: 08/29/2018 13:26
 Date Promised: 08/30/2018 13:26
 Date Out: 00:00

WO Status: A Last WO#: 0000019902
 WO Priority: Last WO Date: 07/30/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREAS License: na

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

Tire Size 1:	GVW: 0
Tire Size 2:	EAC: 24
Transmission:	Department: 7572:Waste Water, LF Gas
Fuel Type1:	Company: Gas King County Landfill Gas
Fuel Type2:	Site: 20:20- Cedar Hills
Fuel Type3:	Monitor Group:
Oil Capacity: 0.000	Comments:
Fuel Cap1: 0.000	CH Area 5
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	09/10/2018	Gas System
T	0 - MONTHS	09/10/2018	Stormwater
V	0 - MONTHS	09/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	763 <i>PP</i>	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	763 <i>PP</i>	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763 <i>PP</i>	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
 CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies					

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies					


PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies					

DATE: 9/21

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

TECHNICIAN COPY



WO#: 0000019665
 Date In: 07/05/2018 09:24
 Date Promised: 07/06/2018 09:24
 Date Out: 00:00
 WO Status: A Last WO#: 0000019537
 WO Priority: Last WO Date: 05/31/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA5TD License: na

Location: 20 Color:
 Year: 2010 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZGS: Landfill Gas - not classified

Tire Size 1:	GVW:	0
Tire Size 2:	EAC:	24
Transmission:	Department:	7572:Waste Water, LF Gas
Fuel Type1:	Company:	Gas King County Landfill Gas
Fuel Type2:	Site:	20:20- Cedar Hills
Fuel Type3:	Monitor Group:	
Oil Capacity: 0.000	Comments:	
Fuel Cap1: 0.000	CH Area 5	
Fuel Cap2: 0.000		

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	07/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763 <i>N</i>	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV BS
 Equipment: CHAREA5TD
 Work Order: 0000019665


Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	—				
	2	Gas- Ck for damage @ flare station inlet	—				
	3	Gas- Ck collection field pipe integrity	—				
	4	Gas- Ck collection field pipe alignment	—				
	5	Gas- Ck for damage @ possible stress pts	—				
	6	Gas- Ck for damage at vertical pipes	—				
	7	Gas- Ck for damage at well heads	—				
	8	Gas- Ck for gas leaks with TVA 1000	—				
	9	Gas- Ck for settlement/ponding	—				
	10	Gas- Ck surface water conveyance system	—				
	11	Gas- Ck and open vault covers	—				
	12	Gas- Exercise field and header valves	—				
	13	Gas- Ck flex hoses and connections	—				
	14	Gas- Ck for erosion	—				
	15	Gas- Ck for vegetation	—				
	16	Gas- Ck cover system	—				
	17	Gas- Ck for refuse/litter	—				
	18	Gas- Note any deficiencies	—				

7/25

ZOM

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

TECHNICIAN COPY



WO#: 0000019811
 Date In: 07/30/2018 08:45
 Date Promised: 07/31/2018 08:45
 Date Out: 00:00

WO Status: A Last WO#: 0000019665
 WO Priority: Last WO Date: 07/05/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA5TD License: na

Location: 20 Color:
 Year: 2010 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZG6S: Landfill Gas - not classified

Tire Size 1:	GVW: 0
Tire Size 2:	EAC: 24
Transmission:	Department: 7572:Waste Water, LF Gas
Fuel Type1:	Company: Gas King County Landfill Gas
Fuel Type2:	Site: 20:20- Cedar Hills
Fuel Type3:	Monitor Group:
Oil Capacity: 0.000	Comments:
Fuel Cap1: 0.000	CH Area 5
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	08/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

Work Order Task List


Repair Code: PMV 85
 Equipment: CHAREA5TD
 Work Order: 0000019811

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	✓				
	2	Gas- Ck for damage @ flare station inlet	✓				
	3	Gas- Ck collection field pipe integrity	✓				
	4	Gas- Ck collection field pipe alignment	✓				
	5	Gas- Ck for damage @ possible stress pts	✓				
	6	Gas- Ck for damage at vertical pipes	✓				
	7	Gas- Ck for damage at well heads	✓				
8-23	8	Gas- Ck for gas leaks with TVA 1000	✓				
	9	Gas- Ck for settlement/ponding	✓				
	10	Gas- Ck surface water conveyance system	✓				
	11	Gas- Ck and open vault covers	✓				
	12	Gas- Exercise field and header valves	✓				
	13	Gas- Ck flex hoses and connections	✓				
	14	Gas- Ck for erosion	✓				
	15	Gas- Ck for vegetation	✓				
	16	Gas- Ck cover system	✓				
	17	Gas- Ck for refuse/litter	✓				
	18	Gas- Note any deficiencies	✓				

1/2 hr

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

TECHNICIAN COPY



WO#: 0000019942
 Date In: 08/29/2018 08:51
 Date Promised: 08/30/2018 08:51
 Date Out: 00:00

WO Status: A Last WO#: 0000019811
 WO Priority: Last WO Date: 07/30/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA5TD License: na

Location: 20 Color:
 Year: 2010 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZGS: Landfill Gas - not classified

Tire Size 1:	GVW:	0
Tire Size 2:	EAC:	24
Transmission:	Department:	7572:Waste Water, LF Gas
Fuel Type1:	Company:	Gas King County Landfill Gas
Fuel Type2:	Site:	20:20- Cedar Hills
Fuel Type3:	Monitor Group:	
Oil Capacity: 0.000	Comments:	
Fuel Cap1: 0.000	CH Area 5	
Fuel Cap2: 0.000		

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	10/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 JD	0.00000	Gas

NOTES

Work Order Task List


Repair Code: PMV B5
 Equipment: CHAREA5TD
 Work Order: 0000019942

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	✓				
	2	Gas- Ck for damage @ flare station inlet	✓				
	3	Gas- Ck collection field pipe integrity	✓				
	4	Gas- Ck collection field pipe alignment	✓				
	5	Gas- Ck for damage @ possible stress pts	✓				
	6	Gas- Ck for damage at vertical pipes	✓				
	7	Gas- Ck for damage at well heads	✓				
9-13	8	Gas- Ck for gas leaks with TVA 1000	✓				
	9	Gas- Ck for settlement/ponding	✓				
	10	Gas- Ck surface water conveyance system	✓				
	11	Gas- Ck and open vault covers	✓				
	12	Gas- Exercise field and header valves	✓				
	13	Gas- Ck flex hoses and connections	✓				
	14	Gas- Ck for erosion	✓				
	15	Gas- Ck for vegetation	✓				
	16	Gas- Ck cover system	✓				
	17	Gas- Ck for refuse/litter	✓				
	18	Gas- Note any deficiencies	✓				

1/2 W

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

TECHNICIAN COPY



WO#: 0000019767
 Date In: 07/10/2018 07:16
 Date Promised: 07/11/2018 07:16
 Date Out: 00:00
 WO Status: A Last WO#: 0000019740
 WO Priority: Last WO Date: 07/05/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA6 License: na

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

Tire Size 1: GVW: 0
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Hills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 6
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
PM SERVICE					
Type	Cycle		Next Due	Description	
G	0 - MONTHS		07/10/2018	Gas System	
S	0 - MONTHS		07/28/2018	Scheduled Inspection	
T	0 - MONTHS		07/10/2018	Stormwater	
V	0 - MONTHS		07/10/2018	Cover System	
W	W - WEEKS		07/14/2018	Weekly Inspection	

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
REPAIRS			
RTY	Description		Status MID Est. Labor Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target		0 762 JD 0.00000 Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target		0 762 JD 0.00000 Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target		0 762 JD 0.00000 Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
 CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	✓				
Gas Visually inspect disposal system	✓				
Gas Verify daily odor log is current	✓				
Gas Note any deficiencies	✓				

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	✓				
Gas Visually inspect lagoons	✓				
Gas Visually inspect catch basins	✓				
Gas Visually inspect control structures	✓				
Gas Visually inspect conveyance pipes	✓				
Gas Note any deficiencies	✓				


PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	✓				
Gas Visually inspect refuse	✓				
Gas Visually inspect cover	✓				
Gas Visually inspect erosion	✓				
Gas Note any deficiencies	✓				

DATE: 7-23

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

TECHNICIAN COPY



WO#: 0000019903
 Date In: 07/30/2018 10:28
 Date Promised: 07/31/2018 10:28
 Date Out: 00:00

WO Status: A Last WO#: 0000019874
 WO Priority: Last WO Date: 07/30/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA6 License: na

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

Tire Size 1:	GVW: 0
Tire Size 2:	EAC: 24
Transmission:	Department: 7572:Waste Water, LF Gas
Fuel Type1:	Company: Gas King County Landfill Gas
Fuel Type2:	Site: 20:20- Cedar Hills
Fuel Type3:	Monitor Group:
Oil Capacity: 0.000	Comments:
Fuel Cap1: 0.000	CH Area 6
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD
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PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	07/10/2018	Gas System
S	0 - MONTHS	08/28/2018	Scheduled Inspection
T	0 - MONTHS	07/10/2018	Stormwater
V	0 - MONTHS	07/10/2018	Cover System
W	W - WEEKS	07/28/2018	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	750 RB	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	750 RB	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	750 RB	0.00000	Gas

NOTES

For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
 CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	/				
Gas Visually inspect disposal system	/				
Gas Verify daily odor log is current	/				
Gas Note any deficiencies	/				

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds					
Gas Visually inspect lagoons					
Gas Visually inspect catch basins					
Gas Visually inspect control structures	/				
Gas Visually inspect conveyance pipes	/				
Gas Note any deficiencies	/				


PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	/				
Gas Visually inspect refuse					
Gas Visually inspect cover	/				
Gas Visually inspect erosion	/				
Gas Note any deficiencies	/				

DATE: 8/16/18

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

TECHNICIAN COPY



WO#: 0000020037
 Date In: 08/29/2018 13:27
 Date Promised: 08/30/2018 13:27
 Date Out: 00:00

WO Status: A Last WO#: 0000020009
 WO Priority: Last WO Date: 08/29/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA6 License: na

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

Tire Size 1:	GVW: 0
Tire Size 2:	EAC: 24
Transmission:	Department: 7572:Waste Water, LF Gas
Fuel Type1:	Company: Gas King County Landfill Gas
Fuel Type2:	Site: 20:20- Cedar Hills
Fuel Type3:	Monitor Group:
Oil Capacity: 0.000	Comments:
Fuel Cap1: 0.000	CH Area 6
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
G	0 - MONTHS	09/10/2018	Gas System
S	0 - MONTHS	08/28/2018	Scheduled Inspection
T	0 - MONTHS	09/10/2018	Stormwater
V	0 - MONTHS	09/10/2018	Cover System
W	W - WEEKS	08/25/2018	Weekly Inspection

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMG BS	PM Service PM Gas System Billable Scheduled, Target	0	763 <i>MP</i>	0.00000	Gas
PMT BS	PM Service PM Stormwater Billable Scheduled, Target	0	763 <i>MP</i>	0.00000	Gas
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763 <i>MP</i>	0.00000	Gas

NOTES

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For CHAREA4, CHAREA5, CHAREA6, CHAREA7, CHAREAS23,
 CHCENTRALPIT, CHEMH, CHSEPA, CHSSWA, CHSWMH (10)

PMG BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect collection system	/				
Gas Visually inspect disposal system	/				
Gas Verify daily odor log is current	/				
Gas Note any deficiencies					

PMT BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect ponds	/				
Gas Visually inspect lagoons	/				
Gas Visually inspect catch basins	/				
Gas Visually inspect control structures	/				
Gas Visually inspect conveyance pipes	/				
Gas Note any deficiencies					


PMV BS

Task	OK	Adjust	Repair	Replace	Comments
Gas Visually inspect vegetation	/				
Gas Visually inspect refuse	/				
Gas Visually inspect cover	/				
Gas Visually inspect erosion	/				
Gas Note any deficiencies					

DATE: 9/21

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

TECHNICIAN COPY



WO#: 0000019693
 Date In: 07/05/2018 09:57
 Date Promised: 07/06/2018 09:57
 Date Out: 00:00

WO Status: A Last WO#: 0000019518
 WO Priority: Last WO Date: 05/31/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA6TD License: na

Location: 20 Color:
 Year: 2010 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZGS: Landfill Gas - not classified

Tire Size 1: GVW: 0
 Tire Size 2: EAC: 24
 Transmission: Department: 7572:Waste Water, LF Gas
 Fuel Type1: Company: Gas King County Landfill Gas
 Fuel Type2: Site: 20:20- Cedar Hills
 Fuel Type3: Monitor Group:
 Oil Capacity: 0.000 Comments:
 Fuel Cap1: 0.000 CH Area 6
 Fuel Cap2: 0.000

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	06/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	750 RB	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV 85
 Equipment: CHAREA6TD
 Work Order: 0000019693


Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

7/5/18

~~40~~ min.
30

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

TECHNICIAN COPY



WO#: 0000019800
 Date In: 07/30/2018 08:34
 Date Promised: 07/31/2018 08:34
 Date Out: 00:00

WO Status: A Last WO#:0000019693
 WO Priority: Last WO Date: 07/01/2018
 Track DownTime: Y Operator: WG

Equipment: CHAREA6TD License: na

Location: 20 Color:
 Year: 2010 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZGS: Landfill Gas - not classified

Tire Size 1:	GVW: 0
Tire Size 2:	EAC: 24
Transmission:	Department: 7572:Waste Water, LF Gas
Fuel Type1:	Company: Gas King County Landfill Gas
Fuel Type2:	Site: 20:20- Cedar Hills
Fuel Type3:	Monitor Group:
Oil Capacity: 0.000	Comments:
Fuel Cap1: 0.000	CH Area 6
Fuel Cap2: 0.000	

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	08/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	763 <i>[Signature]</i>	0.00000	Gas

NOTES

Work Order Task List


Repair Code: PMV BS
 Equipment: CHAREA6TD
 Work Order: 0000019800

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	/				
	2	Gas- Ck for damage @ flare station inlet	/				
	3	Gas- Ck collection field pipe integrity	/				
	4	Gas- Ck collection field pipe alignment	/				
	5	Gas- Ck for damage @ possible stress pts	/				
	6	Gas- Ck for damage at vertical pipes	/				
	7	Gas- Ck for damage at well heads	/				
	8	Gas- Ck for gas leaks with TVA 1000	/				
	9	Gas- Ck for settlement/ponding	/				
	10	Gas- Ck surface water conveyance system	/				
	11	Gas- Ck and open vault covers	/				
8/10	12	Gas- Exercise field and header valves	/				
	13	Gas- Ck flex hoses and connections	/				
	14	Gas- Ck for erosion	/				
	15	Gas- Ck for vegetation	/				
	16	Gas- Ck cover system	/				
	17	Gas- Ck for refuse/litter	/				
	18	Gas- Note any deficiencies	/				

20m

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

TECHNICIAN COPY



WO#: 0000019961
 Date In: 08/29/2018 09:26
 Date Promised: 08/30/2018 09:26
 Date Out: 00:00

WO Status: A Last WO#: 0000019800
 WO Priority: Last WO Date: 07/30/2018
 Track Downtime: Y Operator: WG

Equipment: CHAREA6TD License: na
 Location: 20 Color:
 Year: 2010 Serial: na
 Make: UD Engine:
 Model: UD
 Class: ZZZZZZZ6S: Landfill Gas - not classified

Tire Size 1:	GVW:	0
Tire Size 2:	EAC:	24
Transmission:	Department:	7572:Waste Water, LF Gas
Fuel Type1:	Company:	Gas King County Landfill Gas
Fuel Type2:	Site:	20:20- Cedar Hills
Fuel Type3:	Monitor Group:	
Oil Capacity: 0.000	Comments:	
Fuel Cap1: 0.000	CH Area 6	
Fuel Cap2: 0.000		

METERS

WO Meter	Reading	Override?	Eq Meter	Actual	LTD

PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	09/10/2018	Cover System

WARRANTY INFORMATION

Type	Cycle	Date Expires	Description

REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMV BS	PM Service PM Cover System Billable Scheduled, Target	0	762 <i>JD</i>	0.00000	Gas

NOTES

Work Order Task List

Repair Code: PMV BS
 Equipment: CHAREA6TD
 Work Order: 0000019961

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
	1	Gas- Visually inspect Header	✓				
	2	Gas- Ck for damage @ flare station inlet	✓				
	3	Gas- Ck collection field pipe integrity	✓				
	4	Gas- Ck collection field pipe alignment	✓				
	5	Gas- Ck for damage @ possible stress pts	✓				
	6	Gas- Ck for damage at vertical pipes	✓				
	7	Gas- Ck for damage at well heads	✓				
9-28	8	Gas- Ck for gas leaks with TVA 1000					
	9	Gas- Ck for settlement/ponding	✓				
	10	Gas- Ck surface water conveyance system	✓				
	11	Gas- Ck and open vault covers	✓				
	12	Gas- Exercise field and header valves	✓				
	13	Gas- Ck flex hoses and connections	✓				
	14	Gas- Ck for erosion	✓				
	15	Gas- Ck for vegetation	✓				
	16	Gas- Ck cover system	✓				
	17	Gas- Ck for refuse/litter	✓				
	18	Gas- Note any deficiencies	✓				

1/2 hr