

# **KING COUNTY CEDAR HILLS REGIONAL LANDFILL QUARTERLY ENVIRONMENTAL MONITORING REPORT**

**First Quarter 2019**



**King County**

Department of  
Natural Resources and Parks  
**Solid Waste Division**

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**May 2019**

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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 <sup>st</sup> <input checked="" type="checkbox"/> 2 <sup>nd</sup> <input type="checkbox"/> 3 <sup>rd</sup> <input type="checkbox"/> 4 <sup>th</sup> <input type="checkbox"/> YEAR <u>2019</u>	Reference (section, subsection)	Included in this report	Location – page # or appendix #
<b>Quarterly Groundwater Reports: 173-351-415 (2) plus the referenced section</b>			
Statistical calculations and summaries			
Descriptive statistics	420, (1)	<input type="checkbox"/>	
Statistical tests	420, (2)	<input checked="" type="checkbox"/>	8, 25, 31
Notification of statistical increase (if applicable)	420, (4)	<input type="checkbox"/>	
Notification of concentrations above Chapter 173-200 WAC criteria (if any)	430, (4)	<input checked="" type="checkbox"/>	20
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"/>	21, 22, 28
Explanation of greater than 5% (or 10%) difference if needed	430, (5a)	<input checked="" type="checkbox"/>	4
Trilinear diagrams	430, (5b)	<input checked="" type="checkbox"/>	23, 24 29, 30
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"/>	
<b>Annual Groundwater Reports: 173-351-415 (1) YEAR</b>			
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"/>	
<b>For Quarterly and Annual Reports</b>			
Stamped by a licensed professional	RCW 18.220	<input checked="" type="checkbox"/>	

  
Signature of Report Author

May 31, 2019  
Date

Cedar Hills Regional Landfill  
Landfill

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## CERTIFICATION

### Quarterly Report Groundwater Evaluation Report Certification

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

<b>Name:</b> Laura Belt, P.E.	<b>Title:</b> Supervising Engineer, Facility Engineering and Science Section	<b>Date:</b> May 22, 2019
<b>Mailing Address:</b> Solid Waste Division King County Department of Natural Resources & Parks 201 South Jackson Street, Suite 701 Seattle, WA 98104-3855		<b>Telephone Number:</b> 206-477-5215
<b>Signature:</b> 		



EXPIRES 8-10-19



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

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# **King County Cedar Hills Regional Landfill**

## **Summary of Quarterly Environmental Monitoring**

### **First Quarter of 2019**

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

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

#### **1.0 Quarterly Results and Analysis**

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

##### **1.1 Groundwater**

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

##### **1.1.1 Regional Aquifer**

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

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

Groundwater elevations and potentiometric surfaces are within historical ranges and reflect seasonal responses to precipitation. The Potentiometric Surface Map and Groundwater Flow Analysis Report can be found in Appendix A. Elevations measured this quarter conform to the current hydrogeologic model. Groundwater samples were analyzed for both dissolved and total metal fractions 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 most recent 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, wells designated for quarterly were sampled, and are listed in Table 1.

## Analytical Results

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

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59, MW-66, MW-81, MW-83, MW-84, MW-93, MW-94	MW-68*, MW-69, MW-72, MW-74, MW-75, MW-80, MW-85, MW-87

\*Also exceeded Primary Federal Ground Water Quality Criteria

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

	Upgradient and Crossgradient	Downgradient
Quarterly Sampled Wells	MW-59	MW-68, MW-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-93	MW-68, 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-94	---

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

## Trilinear Diagrams and Ion Balance

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

## Prediction Limits

Intra-well upper prediction limits (UPLs) are calculated annually and have been updated with data collected through the end of 2018. Calculated prediction limits and analytical results for Appendix I parameters are presented in Table 5 and summarized below.

	Upgradient and Crossgradient	Downgradient
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Quarterly Sampled Wells	MW-84 (Total Barium)	MW-72 Total Barium, MW-74 Total Arsenic
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Monitoring wells MW-72, MW-74, and MW-84 have been entered into retesting protocol.

### **Volatile Detections**

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

Cis-1,2.-dichloroethene was detected in monitoring well MW-59 and;

Trichloroethene (TCE) was detected in monitoring wells MW-83 and MW-94.

These upgradient well detections are consistent with past data and continuing migration from QCF. Other VOC detections included carbon disulfide in MW-59, acetone in MW-68 and MW-85, and chloromethane in MW-68.

### **1.1.2 Perched Zones**

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

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

Groundwater elevations measured during the quarter in the Perched Zones are within historical ranges. Samples were collected from three EPZ monitoring wells (MW-30A, MW-47, and MW-62). MW-101 near the former SSWA was also sampled. Groundwater quality data from Perched Zones wells collected during the first quarter of 2019 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. Sampling of these wells will begin during second quarter of 2019.

#### **MW-105**

MW-105 was installed on the south side of the east leachate lagoon to have a monitoring well in the shallowest perched groundwater zone to provide early leak detection. If specific conductance shows a statistically significant increasing trend, or exceeds 500 µmhos/cm specific conductance (whichever condition is triggered first), then additional sampling (per the SAP) will be conducted and results assessed with respect to potential leakage from the lagoon. This quarter MW-105 had a specific conductivity of 135 µmhos/cm.

### **Analytical Results**

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

### **Trilinear Diagrams and Ion Balance**

Trilinear plots for EPZ well samples are all within the calcium-magnesium-bicarbonate hydrochemical facie, consistent with past samples (Figure 7). Ion balance calculations (Table 8) indicate no analytical error (> 10%) in any perched wells in the EPZ wells. Sample results from monitoring well MW-101 had a 10 percent difference between the cations and anions resulting from the alkalinity being lower than historical results. An inquiry has been made with the King County Environmental Laboratory as to why this alkalinity result was lower than previous quarters. The trilinear plot for the SSWA well samples (Figure 8) shows that the calcium-magnesium-bicarbonate hydrochemical facie are consistent with past samples.



**Prediction Limits**

As with the regional data, perched zone prediction limits are derived from cumulative data through the end of 2018. Calculated prediction limits for Appendix I parameters along with analytical results are presented in Table 9.

MW-30A had a nitrate UPL exceedances this quarter. MW-101 exceeded the UPL for nitrate. No retesting protocols were performed since these wells are already being evaluated under a Remediation Investigation and Feasibility Study of the East Perched Zone (EPZ RI/FS). 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. All analytes are consistent with past analyses and known impacts.

## **1.2 Stormwater**

### **1.2.1 CHRLF ISGP**

CHRLF stormwater discharge is authorized by an Industrial Stormwater General Permit (ISGP) issued by the Washington State Department of Ecology (Ecology). The permit defines discharge benchmarks, applicable to all facilities, and effluent limits, applicable specifically to landfills. These values are listed in Table 13. Sampling stations SW-N4, SW-SL3, and SW-GS1 (see Figure 2) are the designated points for comparison to permit benchmarks and effluent limits.

As per the ISGP for CHRLF, turbidity was not measured during the first quarter of 2019 at stations SW-SL3, SW-GS1, 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 first quarter of 2019 are listed in Table 12. There were no recorded exceedances this quarter (Table 14). 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 several turbidity exceedances during the first quarter of 2019 (Table 14). Copies of required stormwater reports submitted to Ecology are included in Appendix B.

### **1.3 Landfill Gas**

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

#### **1.3.1 Compliance Probe Network**

A network of compliance probes 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 first quarter of 2019 are located in Appendix B.

One compliance probe, GP-39, had a methane detection during the first quarter of 2019 with 1% by volume methane.

#### **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 (on map with compliance probes) and monitoring results for the interior probes during the first quarter of 2019 can be viewed in Appendix B.

#### **1.3.3 On-Site Building Monitoring**

As required by WAC 173-351-200, gas concentrations are monitored inside facility structures. Structures are monitored quarterly for methane. No detections of methane occurred this quarter. The location map and monitoring results for facility gas monitoring during the first quarter of 2019 are presented in Appendix B.

#### **1.3.4 Supplemental Migration Monitoring**

Detections above the regulatory limit in LFG probe GP-33C in September of 2011 prompted actions including: monitoring frequency increases; operational adjustments to increase LFG recovery rates; off-site structure monitoring; and, preparation of a response plan. Operational review resulted in modifications to enhance extraction from unlined areas and under liner spaces that could potentially act as gas conveyance pathways. The plan resulted in installation of thirteen (13) borings targeting the potential zone of LFG migration in the native sediments. Eight (8) borings serve as LFG extraction wells and five (5) borings as monitoring probes. The extraction wells and migration probes are monitored twice a month. This quarter, no methane was detected at levels above the detection limit. The location map and supplemental monitoring results are included in Appendix B.

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

## **2.0 Analytical Methods**

Groundwater quality is evaluated by comparison of analysis results to regulatory standards, geochemical analysis, and statistical evaluation. Water quality analytical results for stormwater runoff discharged from the landfill site are compared to the benchmarks 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 15). Stormwater monitoring results are compared to the ISGP Benchmark and Effluent Limits Criteria and CSWGP Benchmarks (Table 13).

### **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

$\kappa$  = 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.

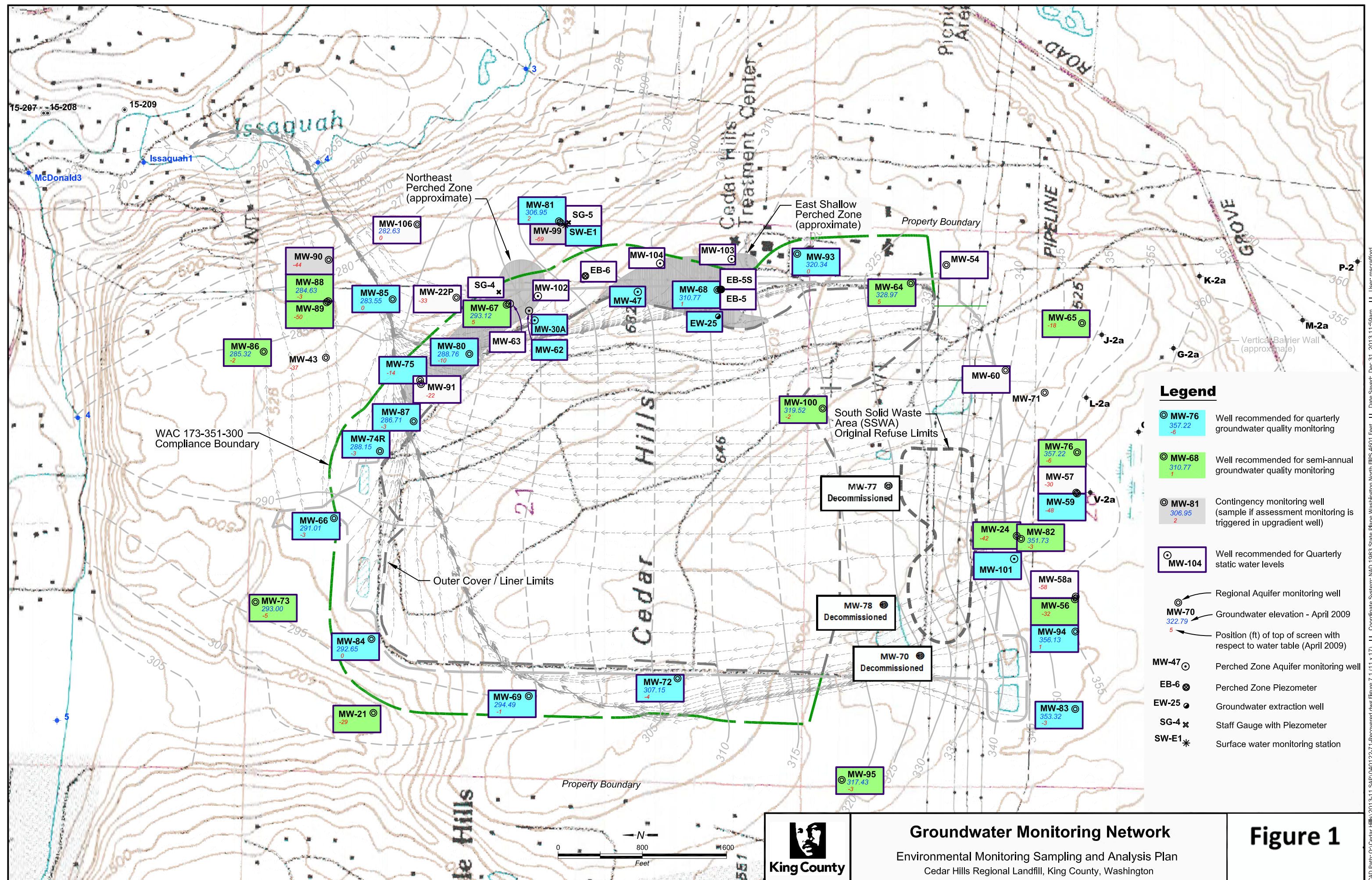
The LLOQ is a performance based methodology that tests known standards repeatedly to create a calibration curve for a specific method. Commonly, the lowest concentration of the (linear) calibration curve is set as the LLOQ. However, in some cases the LLOQ may be greater than the baseline curve concentration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

### **2.4.2 Analytical Uncertainty and Data Review**

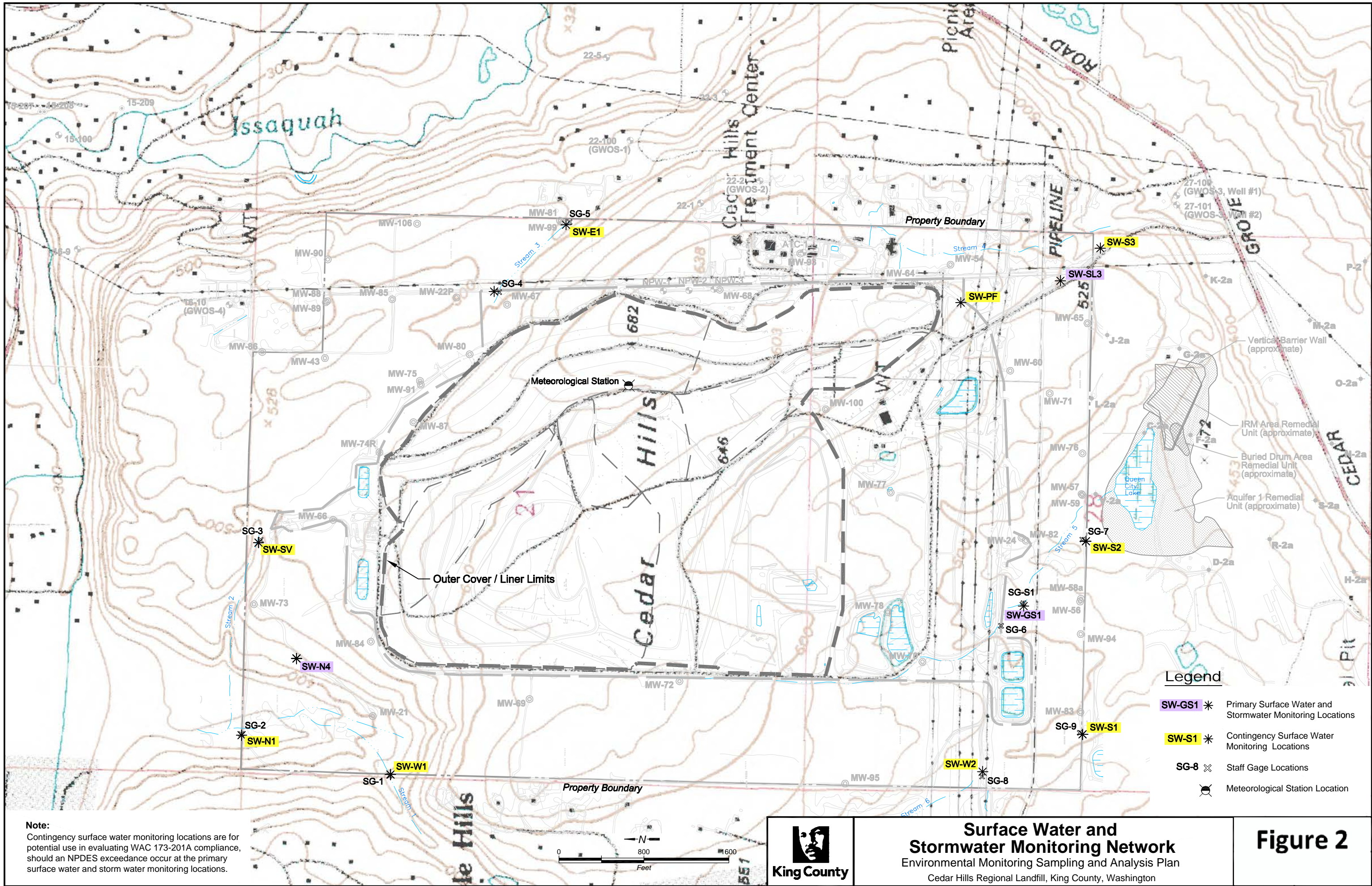
An important consideration when reviewing and evaluating analytical data is to examine the uncertainty associated with the measurement of each analyte. When a UPL or groundwater quality criteria exceedance, and the detection limit are similar in magnitude, uncertainty inherent in low level concentration 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.

# TABLES AND FIGURES

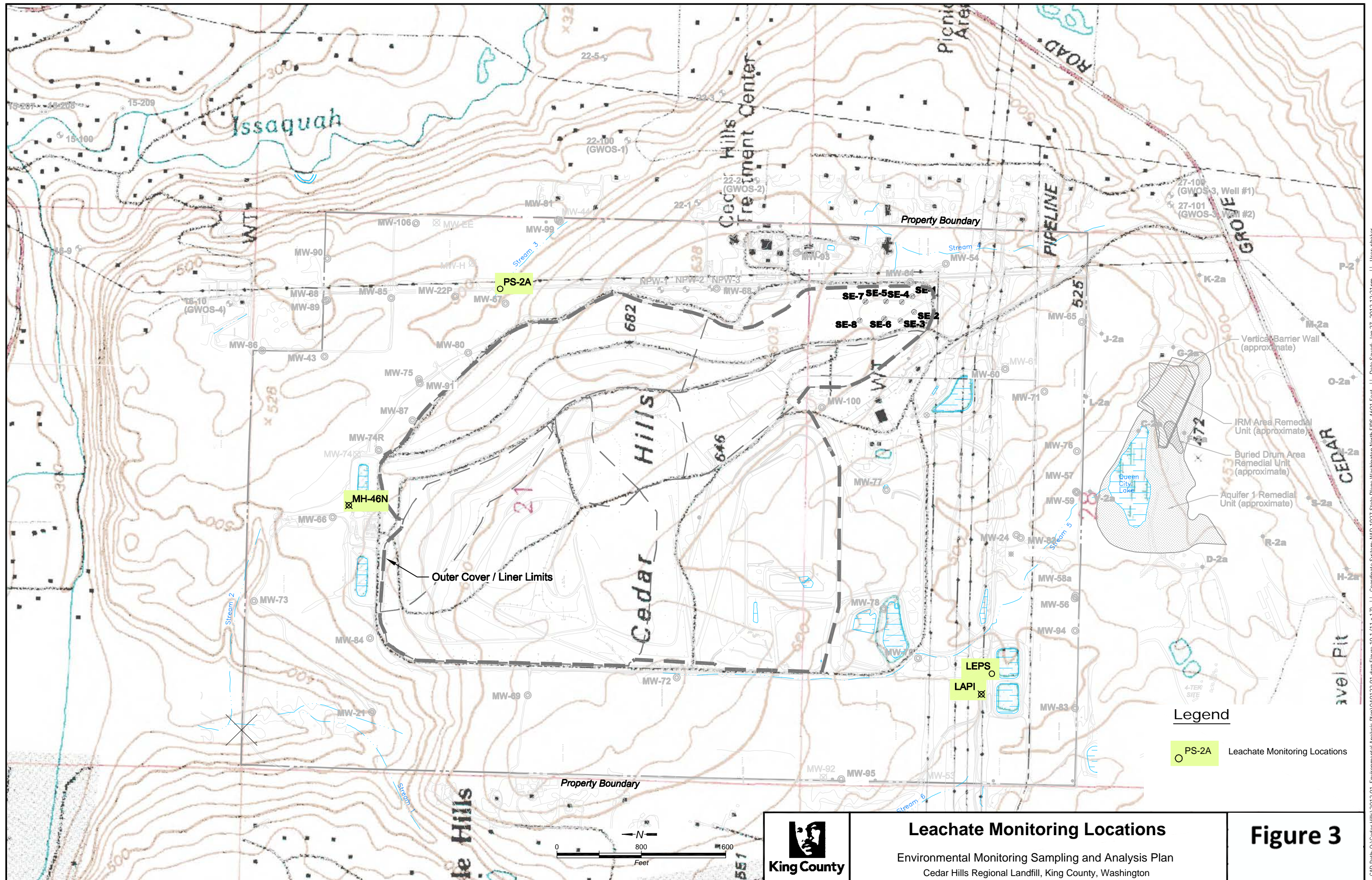














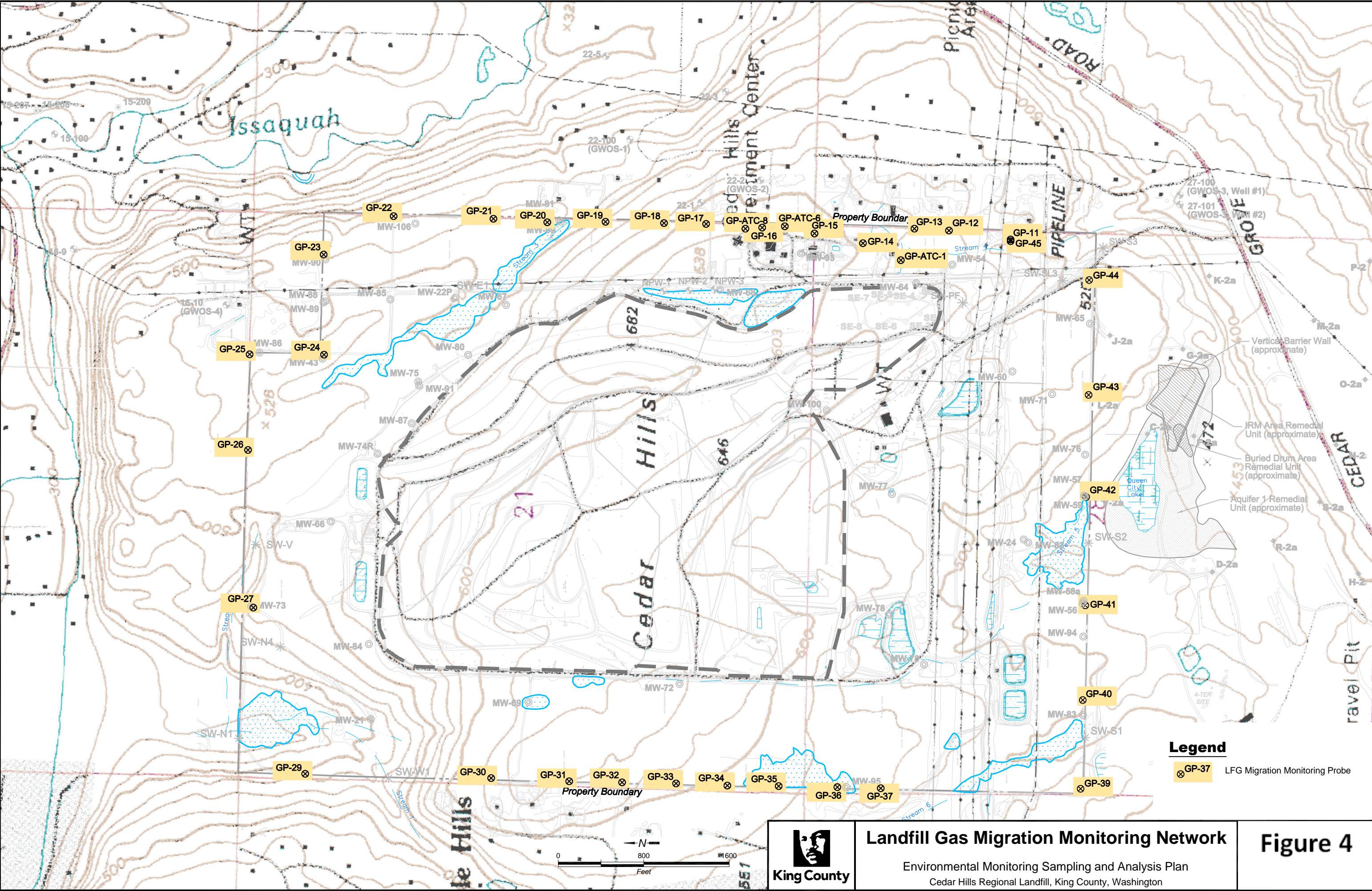




Table 1  
CEDAR HILLS REGIONAL LANDFILL GROUNDWATER MONITORING WELLS

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
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.

Table 1 (continued)  
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-88 (Downgradient)	4	239	9/13/01	Water Table	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities. Conversion from quarterly to semiannual sampling does not have significant effect on intrawell statistics.
MW-89 (Downgradient)	4	291	11/12/01	Deep	Detection		Quarterly	Semi-annual	Provides limited monitoring of north end facilities in deep Regional Aquifer. Continue monitoring in place of MW-43. 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
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.
<b>East Main Hill Perched Zones</b>									
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.
<b>South Solid Waste Area Perched Zone</b>									
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 1<sup>ST</sup> QUARTER 2019**

Well ID	Zone	Date	Planned Activity	Sample ID	Comment
Static Water Levels	NA	1/17/19	Groundwater Elevation Measurement	--	North half of landfill.
Static Water Levels	NA	1/17/19	Groundwater Elevation Measurement	--	South half of landfill.
Static Water Levels	NA	1/17/19	Groundwater Elevation Measurement	--	East perched zone.
MW-21	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-22	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-24	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-25	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-27A	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-28	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-29	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-30A	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-30A	Perched	1/11/19	Groundwater Sampling Event	W30A190111-	
MW-30A	Perched	1/11/19	Groundwater Sampling Event	W30A190111F	Field Blank
MW-41D	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-41S	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-43	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-45	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-47	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-47	Perched	1/11/19	Groundwater Sampling Event	W47-190111-	
MW-48	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-50	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-54	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-55	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-56	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-57	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-58A	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-59	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-59	Regional	1/8/19	Groundwater Sampling Event	W59-190108-	
MW-60	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-62	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-62	Perched	1/11/19	Groundwater Sampling Event	W62-190111-	
MW-63	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-64	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-65	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-66	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-66	Regional	1/8/19	Groundwater Sampling Event	W66-190108-	
MW-67	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-68	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-68	Regional	1/10/19	Groundwater Sampling Event	W68-190110-	
MW-69	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-69	Regional	1/10/19	Groundwater Sampling Event	W69-190110-	
MW-72	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-72	Regional	1/8/19	Groundwater Sampling Event	W72-190108-	
MW-73	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-74	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-74	Regional	1/10/19	Groundwater Sampling Event	W74R190110-	
MW-75	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-75	Regional	1/9/19	Groundwater Sampling Event	W75-190109-	
MW-76	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-79	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-80	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-80	Regional	1/10/19	Groundwater Sampling Event	W80-181019-	
MW-80	Regional	1/10/19	Groundwater Sampling Event	W80-181019D	Field Duplicate
MW-81	Regional	1/17/19	Groundwater Elevation Measurement	NA	

**TABLE 2 (continued)**  
**CEDAR HILLS REGIONAL LANDFILL**  
**GROUNDWATER MONITORING ACTIVITIES 1<sup>ST</sup> QUARTER 2019**

<b>Well ID</b>	<b>Zone</b>	<b>Date</b>	<b>Planned Activity</b>	<b>Sample ID</b>	<b>Comment</b>
MW-81	Regional	1/9/19	Groundwater Sampling Event	W81-190109-	
MW-82	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-83	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-83	Regional	1/9/19	Groundwater Sampling Event	W83-190109-	
MW-84	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-84	Regional	1/8/19	Groundwater Sampling Event	W84-190108-	
MW-85	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-85	Regional	1/9/19	Groundwater Sampling Event	W85-190109-	
MW-86	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-87	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-87	Regional	1/9/19	Groundwater Sampling Event	W87-190109-	
MW-88	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-89	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-90	Regional	1/17/19	Groundwater Elevation Measurement	NA	
MW-91	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-93	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-93	Perched	1/10/19	Groundwater Sampling Event	W93-190110-	
MW-94	Perched	1/17/19	Groundwater Elevation Measurement	NA	
MW-94	Perched	1/9/19	Groundwater Sampling Event	W94-190109-	
MW-95	Perched	1/17/19	Groundwater Elevation Measurement	NA	

**Table 3**  
**CEDAR HILLS REGIONAL LANDFILL**  
**REGIONAL AQUIFER GROUNDWATER QUALITY STANDARD EXCEEDANCES**  
(Data Collected from January 1, 2019 to March 31, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
<b>Upgradient and Crossgradient Wells</b>					
pH (Field)	pH Units	MW-94	1/9/2019	W94-190109-	6.39
Arsenic, Total	mg/L	MW-59	1/8/2019	W59-190108-	0.000567
		MW-66	1/8/2019	W66-190108-	0.00069
		MW-81	1/9/2019	W81-190109-	0.000531
		MW-83	1/9/2019	W83-190109-	0.000421
		MW-84	1/8/2019	W84-190108-	0.000326
		MW-93	1/10/2019	W93-190110-	0.00132
		MW-94	1/9/2019	W94-190109-	0.000143
Iron, Dissolved	mg/L	MW-59	1/8/2019	W59-190108-	4.28
Manganese, Dissolved	mg/L	MW-59	1/8/2019	W59-190108-	0.136
		MW-93	1/10/2019	W93-190110-	0.201
<b>Downgradient Wells</b>					
Arsenic, Total	mg/L	MW-68	1/10/2019	W68-190110-	0.0243
		MW-69	1/10/2019	W69-190110-	0.00232
		MW-72	1/8/2019	W72-190108-	0.000277
		MW-74	1/10/2019	W74R190110-	0.00145
		MW-75	1/9/2019	W75-190109-	0.000464
		MW-80	1/10/2019	W80-190110-	0.0037
		MW-85	1/9/2019	W85-190109-	0.000727
		MW-87	1/9/2019	W87-190109-	0.000915
Iron, Dissolved	mg/L	MW-68	1/10/2019	W68-190110-	0.621
		MW-69	1/10/2019	W69-190110-	1.11
		MW-72	1/8/2019	W72-190108-	2.85
		MW-75	1/9/2019	W75-190109-	2.39
		MW-80	1/10/2019	W80-190110-	2.1
		MW-87	1/9/2019	W87-190109-	4.83
Manganese, Dissolved	mg/L	MW-68	1/10/2019	W68-190110-	0.307
		MW-69	1/10/2019	W69-190110-	0.265
		MW-72	1/8/2019	W72-190108-	0.381
		MW-75	1/9/2019	W75-190109-	0.207
		MW-80	1/10/2019	W80-190110-	0.335
		MW-87	1/9/2019	W87-190109-	0.548 D

See Data Qualifier List for Qualifier Information.

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



Data Collected from January 1, 2019 to March 31, 2019

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

Data Collected from January 1, 2019 to March 31, 2019

Site ID Date		Quarterly Downgradient to Waste Cells and North End Facilities																							
		MW-68 1/10/19			MW-69 1/10/19			MW-72 1/8/19			MW-74 1/10/19			MW-75 1/9/19			MW-80 1/10/19			MW-85 1/9/19			MW-87 1/9/19		
Cations	Molecular Weight	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH		6.9			7.5			6.9			6.9			7.1			6.7			7.0			6.9		
Conductance		282.4			326.8			356.6			520.0			371.1			311.1			356.1			534.6		
TDSobs		164.0			196.0			216.0			302.0			238.0			191.0			213.0			372.0		
Calcium	40.1	27.5	1.37	44.3	34.3	1.71	48.8	33.5	1.67	43.8	45.6	2.28	39.5	31.8	1.59	39.6	31.0	1.55	46.5	33.2	1.66	43.5	47.4	2.37	41.7
Magnesium	24.3	15.2	1.25	40.4	16.1	1.32	37.8	19.7	1.62	42.5	35.0	2.88	50.0	22.8	1.88	46.8	15.8	1.30	39.1	20.5	1.69	44.3	31.5	2.59	45.7
Potassium	39.1	1.7	0.04	1.4	1.8	0.045	1.3	2.0	0.050	1.3	2.1	0.05	1.0	2.0	0.05	1.3	1.7	0.043	1.3	1.7	0.043	1.1	2.4	0.062	1.1
Sodium	23.0	9.1	0.39	12.7	8.7	0.377	10.7	8.2	0.36	9.4	12.6	0.55	9.5	9.2	0.40	10.0	7.9	0.34	10.4	9.8	0.425	11.1	10.6	0.46	8.1
Iron	55.8	0.62	0.022	0.72	1.11	0.040	1.1	2.85	0.10	2.7	0.005	0.000179	0.003	2.39	0.09	2.14	2.10	0.075	2.3	0.005	0.000179	0.0047	4.83	0.17	3.0
Manganese	54.9	0.31	0.011	0.36	0.27	0.010	0.3	0.38	0.014	0.4	0.0001	1.82E-06	0.00003	0.21	0.007536	0.19	0.34	0.012	0.37	0.0001	1.82E-06	0.00005	0.55	0.020	0.4
Ammonia-N	14.0	0.02	0.001	0.041	0.02	0.001178	0.034	0.02	0.001121	0.029	0.001	7.14E-05	0.001	0.009	0.000657	0.016	0.02	0.001471	0.044	0.001	7.14E-05	0.0019	0.018	0.001299	0.023
<b>Total Cations (meq/L)</b>		<b>3.1</b>			<b>3.5</b>			<b>3.8</b>			<b>5.8</b>			<b>4.0</b>			<b>3.3</b>			<b>3.8</b>			<b>5.7</b>		
<b>Anions</b>																									
Alkalinity, Total		125.0			137.0			129.0			211.0			108.0			114.0			132.0			104.0		
Carbonate	60.0	0.065	0.002181	0.08	0.26	0.008658	0.26	0.06301	0.0021	0.06	0.11	0.003597	0.07	0.08	0.002541	0.07	0.038	0.001255	0.04	0.08497	0.002833	0.08	0.046	0.001544	0.029
Bicarbonate	61.0	152.37	2.50	86.4	166.61	2.73	81.8	157.25	2.58	72.3	257.20	4.22	76.6	131.61	2.16	58.9	139.0	2.28	73.3	160.87	2.64	72.4	126.79	2.08	39.2
Chloride	35.5	2.9	0.082	2.8	3.7	0.11	3.2	6.4	0.179957	5.0	22.0	0.62	11.3	10.3	0.29	7.9	4.5	0.13	4.1	10.8	0.30	8.4	12.4	0.35	6.6
Nitrate-N	14.0	0.005	0.000357	0.012	0.005	0.000357	0.011	0.005	0.000357	0.010	0.34	0.023988	0.44	0.005	0.000357	0.010	0.01	0.000357	0.01	0.11	0.007925	0.2	0.005	0.000357	0.007
Sulfate	96.1	14.8	0.31	10.7	23.7	0.49	14.8	38.7	0.81	22.6	30.7	0.64	11.6	58.1	1.21	33.0	33.7	0.70	22.6	33.2	0.69	19.0	138.0	2.87	54.2
<b>Total Anions (meq/L)</b>		<b>2.9</b>			<b>3.3</b>			<b>3.6</b>			<b>5.5</b>			<b>3.7</b>			<b>3.1</b>			<b>3.6</b>			<b>5.3</b>		
<b>Total Ions (meq/L)</b>		<b>6.0</b>			<b>6.8</b>			<b>7.4</b>			<b>11.3</b>			<b>7.7</b>			<b>6.4</b>			<b>7.5</b>			<b>11.0</b>		
<b>Cation/Anion Ratio</b>		<b>1.07</b>			<b>1.05</b>			<b>1.07</b>			<b>1.05</b>			<b>1.10</b>			<b>1.07</b>			<b>1.05</b>			<b>1.07</b>		
<b>Percent Difference</b>		<b>3.4</b>			<b>2.5</b>			<b>3.4</b>			<b>2.3</b>			<b>4.5</b>			<b>3.4</b>			<b>2.3</b>			<b>3.4</b>		
<b>Trilinear Diagram Data</b>																									
sum (Ca, Mg, Na+K)		3.06			3.46			3.70			5.76			3.91			3.24			3.81			5.48		
Calcium				44.83			49.48			45.16			39.52			40.53			47.81			43.47			43.16
Magnesium				40.86			38.30			43.79			50.02			47.93			40.18			44.26			47.30
Sodium + Potassium				14.30			12.21			11.04			10.47			11.54			12.00			12.27			9.54
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )		2.89			3.34			3.57			5.48			3.66			3.11			3.64			5.30		
Sulfate				10.67			14.78			22.60			11.67			33.05			22.58			19.01			54.18
Chloride				2.82			3.15			5.05			11.33			7.94			4.07			8.38			6.60
Bicarbonate + Carbonate				86.51			82.07			72.35			77.01			59.01			73.35			72.61			39.22

Figure 5. Trilinear Diagram Upgradient and Crossgradient Regional Wells

Cedar Hills Regional Landfill

First Quarter 2019

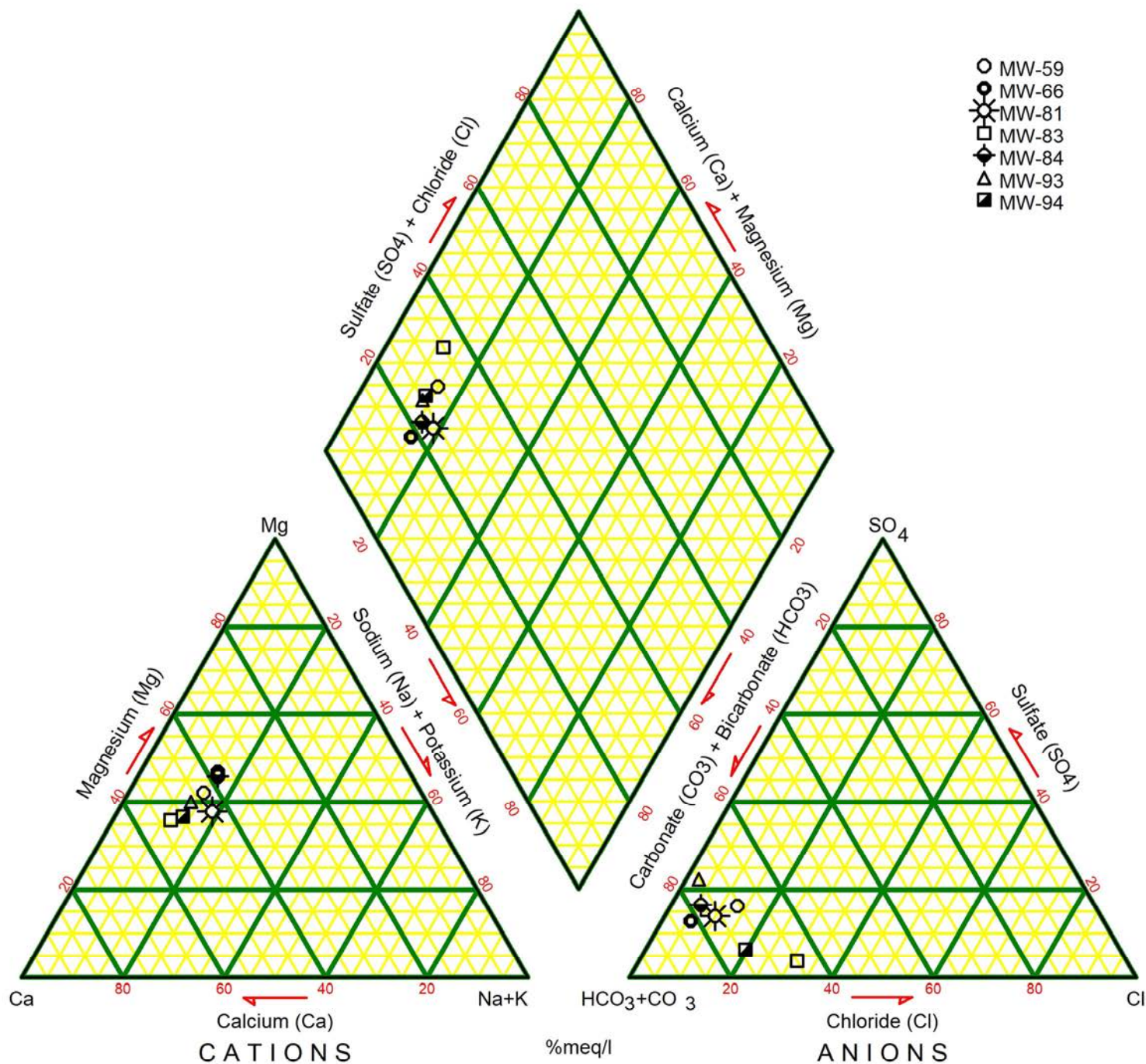


Figure 6. Trilinear Diagram Downgradient Regional Wells

Cedar Hills Regional Landfill

First Quarter 2019

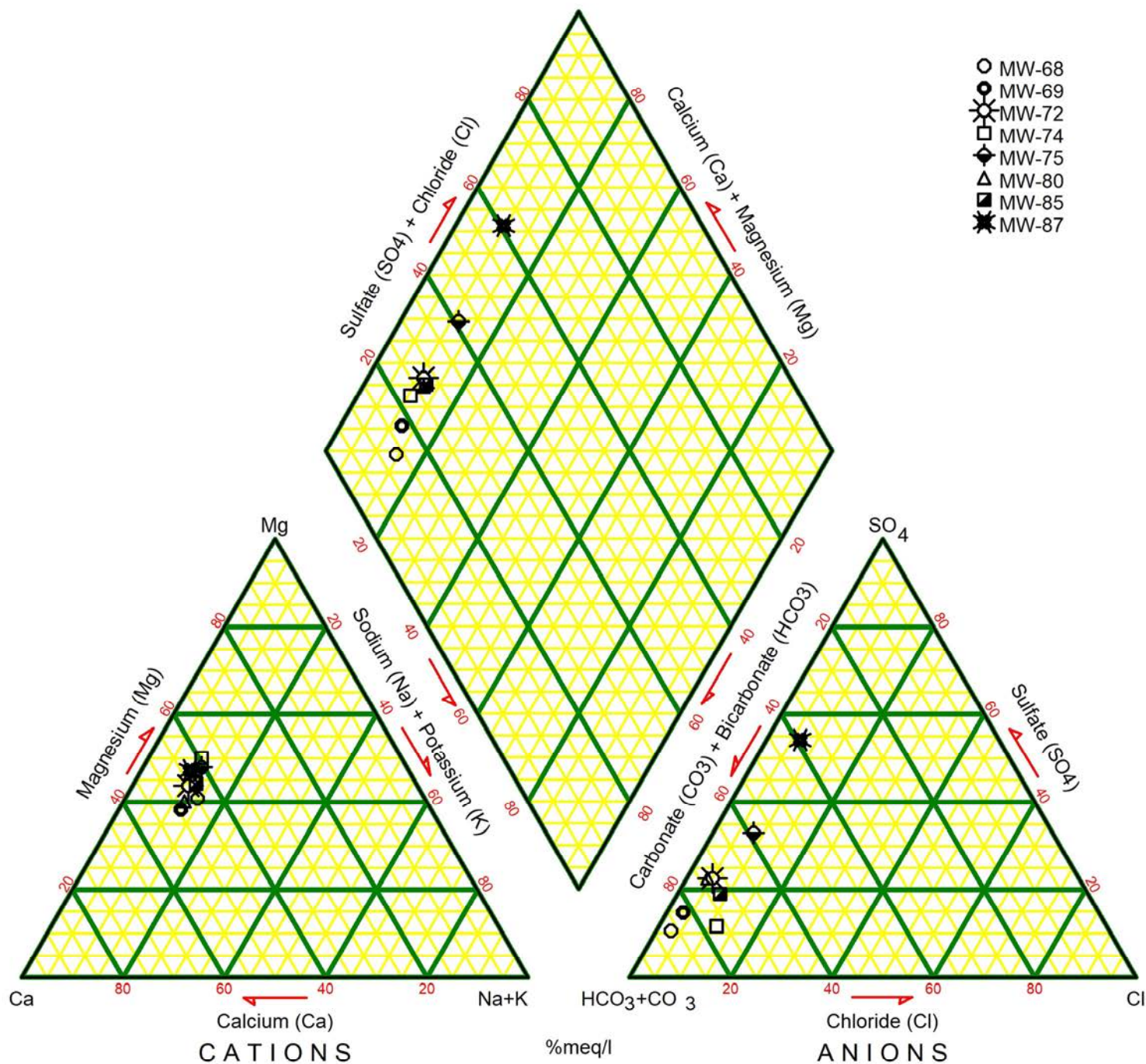




TABLE 5  
CEDAR HILLS REGIONAL LANDFILL REGIONAL AQUIFER QUARTERLY MONITORING WELLS  
SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES AND RESULTS  
(Data Collected from January 1, 2019 to March 31, 2019)

Parameter		Total Antimony	Total Arsenic	Total Barium	Total Beryllium	Total Cadmium	Total Chromium	Total Cobalt	Total Copper	Total Lead	Total Nickel	Total Selenium	Total Silver	Total Thallium	Total Vanadium	Total Zinc	Nitrate as N	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
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	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	0.000567	0.00452	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000581	0.000101	0.000226	< 0.0005	< 0.00004	< 0.0001	0.000115	0.00235	0.014	1.25	< 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	0.861	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00069	0.0044	< 0.0001	< 0.00005	0.0002	< 0.00005	< 0.0002	< 0.0001	0.000211	0.000993	< 0.00004	< 0.0001	0.000815	0.00104	0.417	< 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	1.731459782	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000531	0.0031	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.000574	< 0.0001	0.000122	0.000857	< 0.00004	< 0.0001	0.00171	0.000556	1.51	< 0.1	< 0.1	< 0.1	< 0.01
MW-83	Limit	0.001	0.001	0.0115	0.001	0.002	0.005	0.003	0.00601	0.001	0.01	0.001	0.003	0.001	0.002	0.004	4.68	0.2	0.2	2.87	0.02
	Result	< 0.0003	0.000421	0.0109	< 0.0001	< 0.00005	< 0.0002	0.000351	0.00545	< 0.0001	0.00249	< 0.0005	< 0.00004	< 0.0001	0.000991	0.000652	2.7	< 0.1	< 0.1	1.66	< 0.01
MW-84	Limit	0.001	0.001	0.0044	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.004	0.680	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000326	0.00494	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.000291	0.000986	< 0.00004	< 0.0001	0.000518	< 0.0005	0.145	< 0.1	< 0.1	< 0.1	< 0.01
MW-93	Limit	0.001	0.001430965	0.0095	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00231	0.0112	0.18	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.00132	0.0076	< 0.0001	< 0.00005	< 0.0002	0.0000832	0.000228	< 0.0001	0.00024	< 0.0005	< 0.00004	< 0.0001	0.00217	0.0024	0.014	< 0.1	< 0.1	< 0.1	< 0.01
MW-94	Limit	0.001	0.001	0.0054	0.001	0.002	0.005	0.003	0.0051	0.001	0.01	0.001	0.003	0.001	0.002	0.004	2.72	0.2	0.2	3.81	0.02
	Result	< 0.0003	0.000143	0.0022	< 0.0001	< 0.00005	0.000375	0.0001	0.0011	< 0.0001	0.000527	< 0.0005	< 0.00004	< 0.0001	0.00119	< 0.0005	1.48	< 0.1	< 0.1	2.31	< 0.01
Downgradient Wells																					
MW-68	Limit	0.001	0.499	0.0191	0.001	0.002	0.005	0.003	0.0072851	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	0.024	0.0110	< 0.0001	< 0.00005	0.000302	0.000221	0.00111	< 0.0001	0.000623	< 0.0005	< 0.00004	< 0.0001	0.000624	0.000901	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-69	Limit	0.001	0.004	0.0142	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.002	0.0112	0.076	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.002	0.0123	< 0.0001	< 0.00005	0.000203	< 0.00005	< 0.0002	< 0.0001	0.000161	< 0.0005	< 0.00004	< 0.0001	0.0002	0.000651	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-72	Limit	0.001	0.001	0.0162	0.001	0.002	0.005	0.003	0.00331	0.00104	0.01	0.001	0.003	0.001	0.002	0.0257499	0.15	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000	0.0163	< 0.0001	< 0.00005	0.00153	< 0.00005	0.0007	0.000173	0.000363	< 0.0005	< 0.00004	< 0.0001	0.0002	0.00517	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-74	Limit	0.001	0.001	0.0166	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	0.0015	0.0132	< 0.0001	< 0.00005	0.000242	< 0.00005	0.000488	< 0.0001	0.00102	0.000639	< 0.00004	< 0.0001	0.0011	0.000889	0.336	< 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	0.05	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.000	0.0125	< 0.0001	< 0.00005	< 0.0002	< 0.00005	0.001	< 0.0001	< 0.0001	< 0.0005	< 0.00004	< 0.0001	< 0.000075	0.000714	< 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	0.0137	< 0.0001	< 0.00005	0.000292	< 0.00005	< 0.0002	< 0.0001	0.000233	< 0.0005	< 0.00004	< 0.0001	0.0002	< 0.0005	< 0.01	< 0.1	< 0.1	< 0.1	< 0.01
MW-85	Limit	0.001	0.001	0.0072	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	0.00684	< 0.0001	< 0.00005	< 0.0002	< 0.00005	< 0.0002	< 0.0001	0.00029	0.000943	< 0.00004	< 0.0001	0.0011	0.000533	0.111	< 0.1	< 0.1	< 0.1	< 0.01
MW-87	Limit	0.001	0.059	0.0392	0.001	0.002	0.005	0.003	0.00347	0.001	0.01	0.001	0.003	0.001	0.005	0.004	0.0803	0.2	0.2	0.2	0.02
	Result	< 0.0003	0.001	0.0256	< 0.0001	< 0.00005	< 0.0002	0.000129	< 0.0002	< 0.0001	0.000137	< 0.0005	< 0.00004	< 0.0001	0.0001	< 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 January 1, 2019 to March 31, 2019)

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
<b>Upgradient and Crossgradient Wells</b>				
Carbon Disulfide	MW-59	1/8/2019	W59-190108-	0.101 JT
cis-1,2,-Dichloroethene	MW-59	1/8/2019	W59-190108-	1.25
Trichloroethene	MW-83	1/9/2019	W83-190109-	1.66
	MW-94	1/9/2019	W94-190109-	2.31
<b>Downgradient Wells</b>				
Acetone	MW-68	1/10/2019	W68-190110-	10.8
	MW-85	1/9/2019	W85-190109-	4.16 JT
Chloromethane	MW-68	1/10/2019	W68-190110-	0.285 JT

**TABLE 7**  
**CEDAR HILLS REGIONAL LANDFILL**  
**PERCHED ZONES GROUNDWATER QUALITY STANDARD EXCEEDANCES**  
(Data Collected from January 1, 2019 to March 31, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value
<b>East Perched Zone Wells</b>					
pH (Field)	pH Units	MW-30A	1/11/2019	W30A190111-	6.43
		MW-62	1/11/2019	W62-190111-	6.39
1,1-Dichloroethane	µg/L	MW-30A	1/11/2019	W30A190111-	1.34
Arsenic, Total	mg/L	MW-30A	1/11/2019	W30A190111-	0.000602
		MW-47	1/11/2019	W47-190111-	0.00242
		MW-62	1/11/2019	W62-190111-	0.000206
Iron, Dissolved	mg/L	MW-47	1/11/2019	W47-190111-	4.28
Manganese, Dissolved	mg/L	MW-47	1/11/2019	W47-190111-	1.78 D
Nitrate	mg/L	MW-30A	1/11/2019	W30A190111-	17
Vinyl Chloride	µg/L	MW-47	1/11/2019	W47-190111-	6.12
<b>South Solid Waste Area Perched Wells</b>					
pH (Field)	pH Units	None.			
Arsenic, Total	mg/L	MW-101	1/11/2019	W101190111-	0.00749
Iron, Dissolved	mg/L	MW-101	1/11/2019	W101190111-	0.727
Manganese, Dissolved	mg/L	MW-101	1/11/2019	W101190111-	1.16 D
Vinyl Chloride	µg/L	MW-101	1/11/2019	W101190111-	0.409

See Data Qualifier List for Qualifier Information.

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

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

Data Collected from January 1, 2019 to March 31, 2019

			East Perched Zone												SSWA		
			MW-30A 1/11/19			MW-47 1/11/19			MW-62 1/11/19			SW-E1 1/30/19			MW-101 1/11/19		
Cations	Molecular Weight	n	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)	mg/L	meq/L	%(meq)
pH			6.4			6.8			6.4			6.7			6.8		
Conductance			287			730			140			42			390		
TDSobs			210			705			107			45			298		
Calcium	40.1	2	21.9	1.09	39.1	147.0	7.34	50.7	13.0	0.65	46.3	4.3	0.213	52.8	55.0	2.74	43.9
Magnesium	24.3	2	11.9	0.98	35.1	72.0	5.92	40.9	3.2	0.27	19.0	0.9	0.078	19.3	32.0	2.63	42.2
Potassium	39.1	1	1.5	0.038	1.37	5.3	0.14	0.93	0.75	0.019	1.38	0.371	0.00949	2.35	2.7	0.070	1.1
Sodium	23.0	1	15.7	0.68	24.4	19.8	0.86	5.9	10.7	0.47	33.3	2.34	0.102	25.2	16.8	0.731	11.7
Iron	55.8	2	0.005	0.000179	0.0064	4.3	0.15	1.1	0.011	0.0004	0.029	0.025	0.001	0.2	0.7	0.026	0.4
Manganese	54.9	2	0.00005	1.82E-06	0.00007	1.8	0.06	0.4	0.0004	1.34E-05	0.0010	0.007	0.00024	0.06	1.2	0.042	0.68
Ammonia-N	14.0	1	0.0010	7.14E-05	0.0026	0.043	0.003	0.021	0.0010	7.14E-05	0.005	0.002	0.00016	0.04	0.008	0.000557	0.009
<b>Total Cations (meq/L)</b>				<b>2.79</b>			<b>14.48</b>			<b>1.40</b>			<b>0.40</b>			<b>6.25</b>	
<b>Anions</b>																	
Alkalinity, Total			66.9			642			43.9			13.4			248		
Carbonate	60.0	2	0.011	0.000361	0.013	0.27	0.008898	0.07	0.006	0.000216	0.016	0.0038	0.00013	0.03	0.098	0.0033	0.06
Bicarbonate	61.0	1	81.60	1.34	49.4	782.7	12.8	97.7	53.54	0.88	66.8	16.34	0.26783	74.5	302.36	4.95597	97.1
Chloride	35.5	1	1.0	0.029	1.1	5.8	0.2	1.24	2.90	0.082	6.23	1.73	0.0488	13.6	2.5	0.06967	1.4
Nitrate-N	14.0	1	17.0	1.21	44.8	0.005	0.000357	0.003	2.11	0.15	11.5	0.17	0.01221	3.4	0.1	0.004426	0.09
Sulfate	96.1	2	6.2	0.13	4.7	6.3	0.131	1.00	9.73	0.20	15.4	1.5	0.0304	8.5	3.3	0.068084	1.3
<b>Total Anions (meq/L)</b>				<b>2.71</b>			<b>13.13</b>			<b>1.31</b>			<b>0.36</b>			<b>5.10</b>	
<b>Total Ions (meq/L)</b>				<b>5.5</b>			<b>27.6</b>			<b>2.7</b>			<b>0.8</b>			<b>11.3</b>	
<b>Cation/Anion Ratio</b>				<b>1.03</b>			<b>1.10</b>			<b>1.07</b>			<b>1.12</b>			<b>1.22</b>	
<b>Percent Difference</b>				<b>1.5</b>			<b>4.9</b>			<b>3.2</b>			<b>5.8</b>			<b>10</b>	
<b>Trilinear Diagram Data</b>																	
sum (Ca, Mg, Na+K)				2.79			14.26			1.40			0.40			6.18	
Calcium					39.1			51.5			46.36			52.99			44.42
Magnesium					35.1			41.6			19.00			19.34			42.62
Sodium + Potassium					25.8			7.0			34.64			27.67			12.95
sum (SO <sub>4</sub> , Cl, HCO <sub>3</sub> +CO <sub>3</sub> )				1.50			13.13			1.16			0.35			5.10	
Sulfate					8.6			1.0			17.4			8.8			1.3
Chloride					1.9			1.2			7.0			14.1			1.4
Bicarbonate + Carbonate					89.5			97.8			75.5			77.2			97.3



Figure 7. Trilinear Diagram East Perched Zone Wells

Cedar Hills Regional Landfill

First Quarter 2019

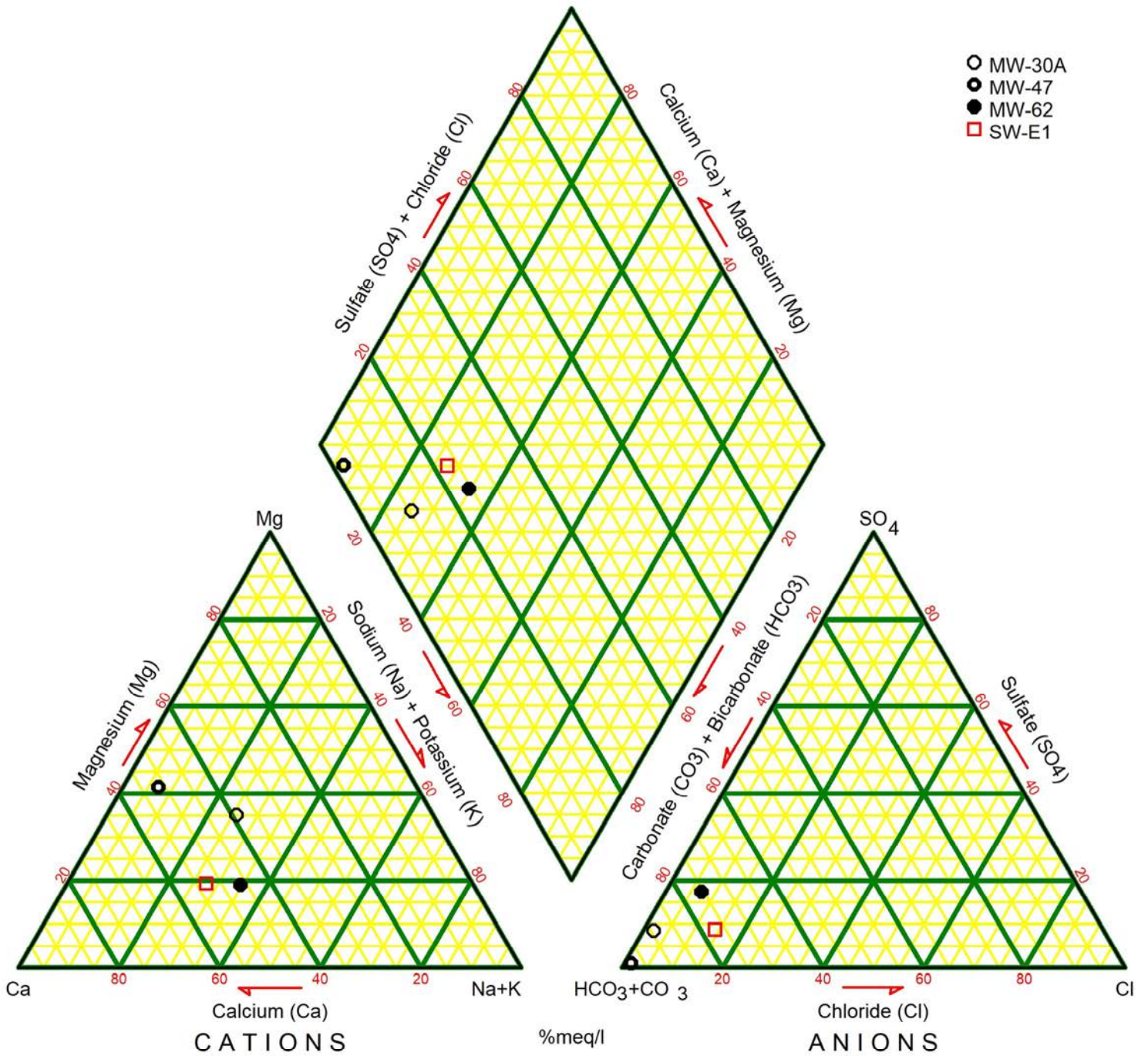
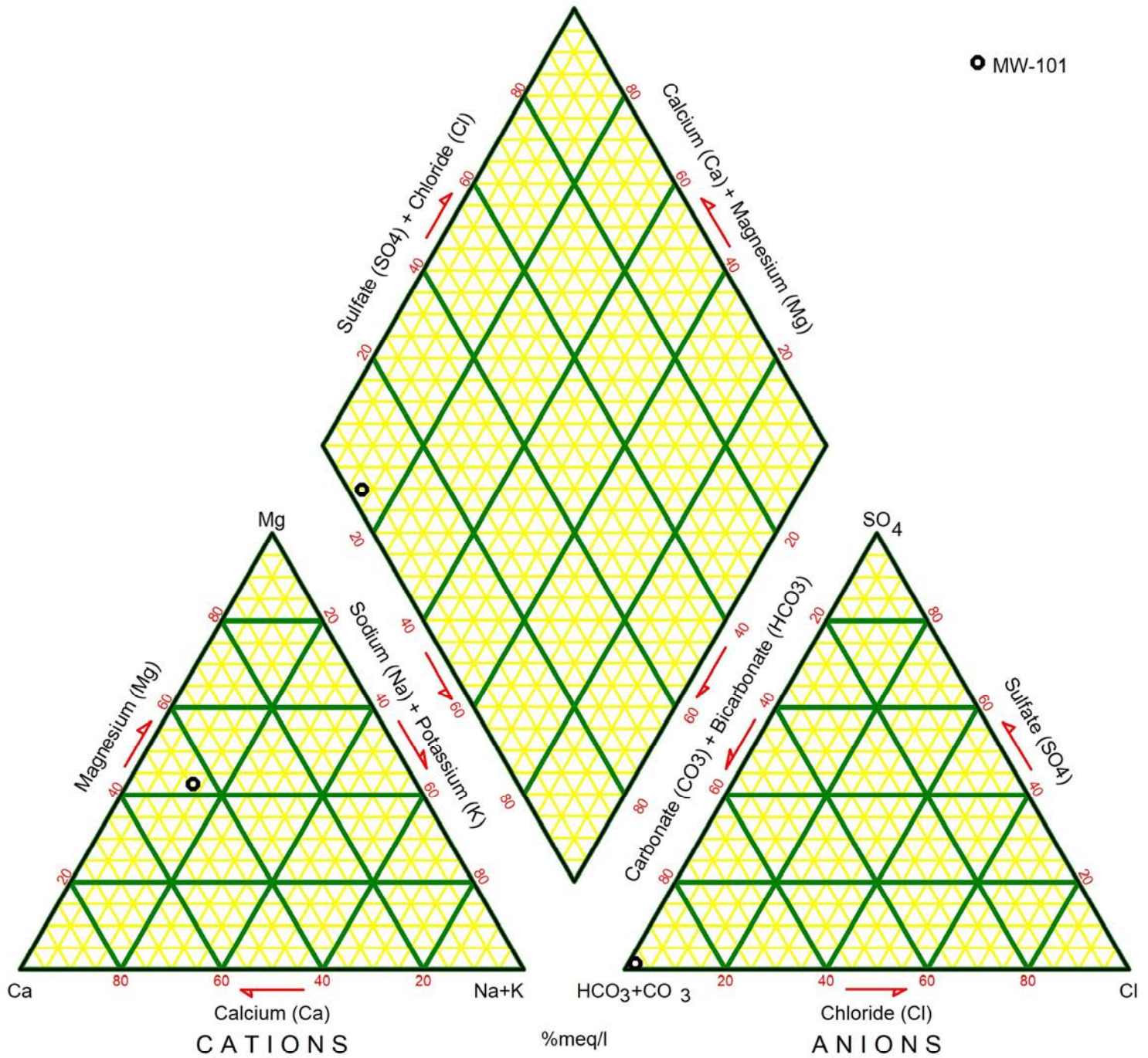


Figure 8. Trilinear Diagram SSW Area Perched Zones Wells

Cedar Hills Regional Landfill

First Quarter 2019

● MW-101



**TABLE 9**  
**CEDAR HILLS REGIONAL LANDFILL PERCHED ZONES MONITORING WELLS**  
**SUMMARY OF WAC 173-351 APPENDIX I INTRAWELL PREDICTION LIMIT VALUES**  
(Data Collected from January 1, 2019 - March 31, 2019)

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
<b>East Perched Zone Wells</b>																								
MW-30A	Limit	0.001	0.001	0.0077	0.001	0.002	0.005	0.003	0.0103	0.001	0.01	0.001	0.003	0.001	0.00331	0.0188	16	6.50	0.20	0.23	11.86	0.20	1.57	0.03
	Result	< 0.0003	0.0006	0.0036	< 0.0001	< 0.00005	0.0008	< 0.00005	0.000473	< 0.0001	0.000724	< 0.0005	< 0.00004	< 0.0001	0.00247	0.001320	<b>17</b>	1.34	< 0.1	< 0.1	1.41	< 0.1	0.56	< 0.01
MW-47	Limit	0.001	0.0113	0.0466	0.001	0.002	0.005	0.003	0.0105	0.00143	0.01	0.001	0.003	0.001	0.00307	0.168	0.05	1.01	0.20	0.44	6.75	0.41	0.23	8.54
	Result	< 0.0003	0.0024	0.042	< 0.0001	< 0.00005	< 0.0002	0.000386	< 0.0002	< 0.0001	0.0023	< 0.0005	< 0.00004	< 0.0001	0.000236	< 0.0005	< 0.01	0.64	< 0.1	0.11	1.68	< 0.1	< 0.1	6.12
MW-62	Limit	0.001	0.001	0.0037	0.001	0.002	0.005	0.003	0.002	0.001	0.01	0.001	0.003	0.001	0.00212	0.004	7.7	11.97	0.20	0.20	16.05	0.21	0.47	0.09
	Result	< 0.0003	0.000206	0.00206	< 0.0001	< 0.00005	0.000373	0.000098	0.000495	< 0.0001	0.000477	< 0.0005	< 0.00004	< 0.0001	0.000898	0.000893	2.11	0.5	< 0.1	< 0.1	1.22	< 0.1	0.113	< 0.01
<b>South Solid Waste Area Wells</b>																								
MW-101	Limit	0.001	0.014	0.0363	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	0.24	0.20	0.20	0.93
	Result	< 0.0003	0.00749	0.0174	< 0.0001	< 0.00005	0.000556	0.00027	0.000663	0.000181	0.00382	< 0.0005	< 0.00004	< 0.0001	0.000553	0.0017	<b>0.062</b>	0.12	< 0.1	0.13	0.17	< 0.1	< 0.1	0.41

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

**TABLE 10**  
**CEDAR HILLS REGIONAL LANDFILL**  
**PERCHED ZONES VOLATILE ORGANIC COMPOUND DETECTIONS**  
(Data Collected from January 1, 2019 - March 31, 2019)

Analyte	Site ID	Date	Sample ID	Sample Value (ug/L)
<b>East Perched Zone Wells</b>				
1,1-Dichloroethane	MW-30A	1/11/2019	W30A190111-	1.34
	MW-47	1/11/2019	W47-190111-	0.638
	MW-62	11/11/2019	W62-190111-	0.5
1,2-Dichloroethane	MW-47	1/11/2019	W47-190111-	0.114 JT
Chloroethane	MW-47	1/11/2019	W47-190111-	0.254
Chloromethane	MW-47	1/11/2019	W47-190111-	0.254 JT
cis-1,2,-Dichloroethene	MW-47	1/11/2019	W47-190111-	1.68
	MW-30A	1/11/2019	W30A190111-	1.41
	MW-62	1/11/2019	W62-190111-	1.22
Dichlorodifluoromethane	MW-47	1/11/2019	W47-190111-	3.9
Trichloroethene	MW-30A	1/11/2019	W30A190111-	0.558
	MW-62	1/11/2019	W62-190111-	0.113 JT
Vinyl Chloride	MW-47	1/11/2019	W47-190111-	6.12
<b>South Solid Waste Area Perched Wells</b>				
1,1-Dichloroethane	MW-101	1/11/2019	W101190111-	0.123 JT
1,2-Dichloroethane	MW-101	1/11/2019	W101190111-	0.127 JT
cis-1,2,-Dichloroethene	MW-101	1/11/2019	W101190111-	0.165 JT
Chloroethane	MW-101	1/11/2019	W101190111-	0.162 JT
Vinyl Chloride	MW-101	1/11/2019	W101190111-	0.409

See Data Qualifier List for Qualifier Information.



**TABLE 11**  
**CEDAR HILLS REGIONAL LANDFILL**  
**VOLATILE ORGANIC COMPOUND DETECTIONS IN BLANKS**

(Data Collected from January 1, 2019 - March 31, 2019 )

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
2-Butanone	FIELD BLANK	01/11/19	W30A190111F	1.43 JT
Acetone	FIELD BLANK	01/11/19	W30A190111F	5.8
Chloroform	FIELD BLANK	01/11/19	W30A190111F	0.676
Toluene	FIELD BLANK	1/11/2019	W30A190111F	0.42 JT

See Data Qualifier List for Qualifier Information.

Analyte	Site ID	Date	Sample ID	Sample Value (µg/L)
Acetone	VOA TRIP BLANK	01/11/19	VTRP190109X	4.29

**Table 12**  
**CEDAR HILLS REGIONAL LANDFILL**  
**STORM AND SURFACE WATER MONITORING ACTIVITIES 1<sup>ST</sup> QUARTER 2019**

<b>Station ID</b>	<b>Date</b>	<b>Planned Activity</b>	<b>Sample ID</b>	<b>Comment</b>
SW-GS1	1/2/2019	NPDES Permit Sample	SGS1190102P	
SW-N4	1/2/2019	NPDES Permit Sample	SN4-190102P	
SW-SL3	1/2/2019	NPDES Permit Sample	SSL3190102P	
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	1/30/2019	East Perched Zone SW Monitoring	SE1-190130Q	
Stream Gauges	1/7/2019	Monthly Stream Gauge Level Measurement	--	
Stream Gauges	2/6/2019	Monthly Stream Gauge Level Measurement	--	

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

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

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

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

**CONSTRUCTION STORMWATER GENERAL PERMIT**  
**BENCHMARKS**

Parameter	Units	Minimum Sampling Frequency	Benchmark
Turbidity	NTU	Weekly	25

**TABLE 14**  
**CEDAR HILLS REGIONAL LANDFILL**  
**STORMWATER PERMIT CRITERIA EXCEEDANCES**  
(Data Collected from January 1, 2019 - March 31, 2019)

**SUMMARY OF ISGP EXCEEDANCES**

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

\* ISGP - Industrial General Stormwater Permit

**SUMMARY OF CSWGP EXCEEDANCES**

Parameter	Units	Sampling Location	Date	Value	Permit Limit	Type
Turbidity	NTU	C1	1/4/2019	52.9	25	Benchmark
Turbidity	NTU	C1	1/23/2019	97.1	25	Benchmark
Turbidity	NTU	C1	2/15/2019	40	25	Benchmark
Turbidity	NTU	C1	2/19/2019	55.2	25	Benchmark
Turbidity	NTU	C1	3/1/2019	38.9	25	Benchmark
Turbidity	NTU	C3	1/2/2019	45	25	Benchmark
Turbidity	NTU	C3	1/4/2019	46.3	25	Benchmark
Turbidity	NTU	C4 / CHL	1/2/2019	28	25	Benchmark

\* CSWGP - Construction Stormwater General Permit



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

			Ground Water
	Analyte	CAS No.	Quality Criteria
			Criterion*
I.	PRIMARY AND SECONDARY CONTAMINANTS AND RADIONUCLIDES		
	A. Primary Contaminants		
	Barium	7440-39-3	1.0
	Cadmium	7440-43-9	0.005
	Chromium	7440-47-3	0.05
	Lead	7439-92-1	0.015
	Mercury	7439-97-6	0.002
	Selenium	7782-49-2	0.01
	Silver	7440-22-4	0.05
	Fluoride	16984-48-8	4.0
	Nitrate	14797-55-8	10.0
	Endrin	72-20-8	0.2
	Methoxychlor	72-43-5	40
	1,1,1-Trichloroethane	71-55-6	200
	2,4-D	94-75-7	70
	2,4,5-TP	93-72-1	100
	Total Coliforms		1/100
	B. Secondary Standards		
	Copper	7440-50-8	1.0
	Iron	7439-89-6	0.3
	Manganese	7439-96-5	0.05
	Zinc	7440-66-6	5.0
	Chloride	16887-00-6	250
	Sulfate	14808-79-8	250
	Total Dissolved Solids		500
	Foaming Agents		0.5
	pH	12408-02-5	6.5-8.5
	Corrosivity		non-corrosive
	Color		15
	Odor-Threshold		3
	C. Radionuclides and Radioactivity		
	Gross Alpha particle activity		15
	Gross Beta particle activity		50
	Tritium	10028-17-8	20,000
	Strontium	7440-24-6	8
	Radium 226 & Radium 228		5
	Radium 226	13982-63-3	3
II.	CARCINOGENS		
	1,1-Dichloroethane	75-34-3	1
	1,2-Dichloroethane	107-06-2	0.5
	1,2-Dichloropropane	78-87-5	0.6
	1,2-Dimethylhydrazine	540-73-8	60
	1,2-Diphenylhydrazine	122-66-7	0.09
	1,3-Dichloropropene tot.	542-75-6	0.2
	1,4-Dichlorobenzene	106-46-7	4
	1,4-Dioxane	123-91-1	7
	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	0.0000006
	2,4,6-Trichlorophenol	88-06-2	4.0
	2,4-Dinitrotoluene	121-14-2	0.1
	2,4-Toluenediamine	95-80-7	0.002
	2,6-Dinitrotoluene	606-20-2	0.1
	2-Methoxy-5-nitroaniline	99-59-2	2.0
	2-Methylaniline	95-53-4	0.2
	2-Methylaniline hydrochloride	636-21-5	0.5
	3,3'-Dichlorobenzidine	91-94-1	0.2
	3,3'-Dimethoxybenzidine	119-90-4	6.0
	3,3-Dimethylbenzidine	119-93-7	0.007
	4,4'-Methylene bis(N,N'-dimethyl) aniline	101-61-1	2.0
	4-Chloro-2-methyl aniline	95-69-2	0.1
	4-Chloro-2-methyl aniline hydrochloride	3165-93-3	0.2
	Acrylamide	79-06-1	0.02
	Acrylonitrile	107-13-1	0.07
	Aldrin	309-00-2	0.005
	Aniline	62-53-3	14
	Aramite	140-57-8	3
	Arsenic	7440-38-2	0.00005
	Azobenzene	103-33-3	0.7
	Benzene	71-43-2	1

**Table 15 (continued)**  
**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 16**  
**CEDAR HILLS REGIONAL LANDFILL**  
**LAB DATA REVIEW - SUSPECT DATA**  
(Data Collected from January 1, 2019 - March 31, 2019)

Parameter	Units	Well ID	Sample Date	Sample ID	Sample Value	Cause of Unuseability
2-Butanone	µg/L	MW-30A	01/11/19	W30A190111F	1.43 JT	Blank Contamination
Acetone	µg/L	MW-30A	01/11/19	W30A190111F	5.8	Blank Contamination
Acetone	µg/L	VOA Trip Blank	01/08/19	VTRP190109X	5.29	Blank Contamination
Chloroform	µg/L	MW-30A	01/11/19	W30A190111F	0.676	Blank Contamination
Chloromethane	µg/L	MW-30A	01/11/19	W30A190111F	0.42 JT	Blank Contamination
Copper, Total	mg/L	MW-30A	01/11/19	W30A190111F	0.000625	Blank Contamination

See Data Qualifier List for Qualifier Information.

# **APPENDIX A**

## **Potentiometric Surface Maps and Aquifer Flow Calculations**

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## 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

May 1, 2019

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

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

RE: Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations  
First Quarter 2019 Results – Regional Aquifer  
Cedar Hills Regional Landfill, King County, Washington  
Project No. 1033379 – Task 02.14.137.20

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The King County Water and Land Resources Division (WLR Division) submits this memorandum report on groundwater conditions during the first quarter of 2019 for the Cedar Hills Regional Landfill (landfill), in accordance with the *Proposal for Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations* (WLR Division, 2019). King County Solid Waste Division (SWD) personnel measured regional aquifer groundwater elevations at the landfill on January 7, 2019. These measurements were received by the WLR Division on March 3, 2019 and were used to:

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

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

### ***Groundwater Elevation Data***

SWD collected regional aquifer groundwater level measurements at 41 monitoring wells during the first quarter of 2019. 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 A-1 lists the well identifications, locations, well details, measured groundwater levels, and calculated groundwater elevations for the regional aquifer. A total of 23 wells had measured water levels within ten feet of the top of the screened interval and were used for potentiometric surface mapping purposes.

Figure A-1 shows well locations, groundwater elevations at the 23 selected wells, groundwater potentiometric surface contours, and interpreted groundwater flow direction in the regional aquifer for the January 7, 2019 measurement event.

### ***Direction of Groundwater Flow***

Figure A-1 shows interpreted groundwater potentiometric surface contours and groundwater flow directions in the regional aquifer, based on the January 7, 2019 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:

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

$v$  = Groundwater velocity [L/t]

$n_{eff}$  = Effective porosity [dimensionless]

$K$  = Hydraulic conductivity [L/t]

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

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 A-2 presents a summary of the groundwater parameters used to calculate a groundwater velocity from the first quarter 2019 data. The hydraulic gradient was greatest under the southern portion of the landfill and smallest under the northern portion. On January 7, 2019, average horizontal groundwater velocity within the regional aquifer ranged from 0.01 feet per day (ft/d) under the southern portion of the landfill to 2.3 ft/d under the central portion of the landfill.

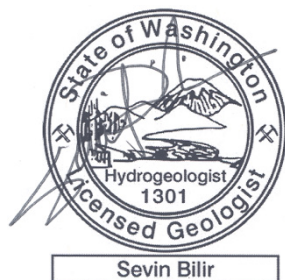
## References

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

KCWLR Division. 2019. *Proposal for 2019 Potentiometric Groundwater Surface Maps & Groundwater Velocity Calculations*; King County Closed Landfills (Cedar Falls, Enumclaw, Hobart and Vashon Island) and Cedar Hills Regional Landfill. January 31.

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](mailto: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 A-1: Groundwater Elevations – First Quarter 2019
- Table A-2: Groundwater Parameters – First Quarter 2019
- Figure A-1: Groundwater Potentiometric Surface Map – First Quarter 2019 – Regional Aquifer



**Table A-1: Groundwater Elevations – First Quarter 2019**

Cedar Hills Regional Landfill  
King County, Washington

King County, Washington							January 7, 2019	
	Well Identification	Easting (ft)	Northing (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-60	1701154.47	167873.20	567.15	334.81	325.81	228.35	338.80
	MW-64	1701980.27	168772.19	596.55	334.03	320.23	265.65	330.90
	MW-66	1699750.19	174250.32	531.28	294.39	280.59	238.99	292.29
	MW-67	1701776.69	172610.65	516.43	297.80	284.00	220.27	296.16
	MW-68	1701917.32	170609.35	647.07	311.29	292.29	331.65	315.42
	MW-69	1698061.86	172400.20	653.69	293.57	279.97	355.83	297.86
	MW-72	1698229.92	170987.71	671.87	303.63	294.03	360.79	311.08
	MW-73	1698954.95	174995.59	485.70	288.11	278.81	191.74	293.96
	MW-74R	1700386.85	173813.79	531.26	289.90	280.40	240.30	290.96
	MW-76	1700376.23	167193.13	491.71	351.06	341.56	135.02	356.69
	MW-81	1702568.87	172113.99	493.66	309.19	300.19	183.73	309.93
	MW-82	1699553.72	167725.31	474.85	348.88	339.38	125.13	349.72
	MW-83	1697939.89	167212.27	496.81	350.19	340.69	145.54	351.27
	MW-84	1698602.89	173894.54	530.80	292.46	282.96	236.29	294.51
	MW-85	1701828.95	173694.52	531.76	282.56	273.06	246.32	285.44
	MW-86	1701331.25	174917.90	536.04	283.43	274.63	249.93	286.11
	MW-87	1700670.27	173493.76	537.31	283.68	274.38	248.15	289.16
	MW-88	1701807.87	174303.06	513.68	281.52	272.22	227.49	286.19
	MW-93	1702259.35	169851.24	632.15	319.87	310.07	308.00	324.15
	MW-94	1698674.21	167210.22	495.51	357.22	348.52	142.66	352.85
MW-95	1697265.32	169426.92	571.54	314.60	305.90	251.02	320.52	
MW-100	1700791.72	169610.46	620.32	319.06	309.06	297.59	322.73	
MW-106	1702536.99	173461.69	475.47	280.04	270.04	190.56	284.91	
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	125.21	295.45
	MW-22P	1701844.34	173088.17	517.09	236.02	231.22	232.18	284.91
	MW-24	1699582.39	167767.76	475.99	286.76	281.76	145.20	330.79
	MW-43	1701274.23	174327.14	547.06	245.63	235.63	263.44	283.62
	MW-54	1702154.28	168435.53	580.43	250.25	228.25	278.28	302.15
	MW-56	1698980.77	167214.82	480.33	323.15	313.15	127.63	352.70
	MW-57	1699993.32	167201.99	456.64	326.65	311.65	102.10	354.54
	MW-58A	1699006.59	167207.16	479.27	270.05	260.05	149.08	330.19
	MW-59	1699983.91	167193.44	457.13	285.08	275.08	123.85	333.28
	MW-65	1701602.10	167146.55	545.83	317.71	308.91	209.10	336.73
	MW-75	1701059.70	173432.42	532.40	271.10	261.00	245.52	286.88
	MW-80	1701309.78	172964.99	530.41	279.17	269.67	238.97	291.44
	MW-89	1701799.57	174319.44	512.82	229.20	219.90	232.05	280.77
	MW-90	1702203.13	174300.67	502.22	235.16	226.16	221.61	280.61
	MW-91	1701023.09	173423.94	532.02	260.81	240.71	246.78	285.24
	MW-99	1702556.06	172098.73	493.64	221.77	212.77	200.21	293.43
	WS-NPW-1	1701906.96	171138.99	646.33	282.80	267.90	332.33	314.00
	WS-NPW-3	1701922.88	170663.28	645.81	285.00	273.90	330.56	315.25

**Notes:**

MSL Mean sea level

Water level measurements made by KCSWD personnel.

Northing &amp; Easting coordinates are Washington State Plane Grid System.

Elevations reported in feet above Mean Sea Level based on the National Geodetic Vertical Datum, 1929.

DRY No water was detected in well or water level measured in well was below screen bottom.

**Table A-2: Groundwater Parameters – First Quarter 2019**

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	0.007	24%	0.172	NNE, NE
	Maximum	4.20E-02	120	0.007	24%	3.44	
	Mean	2.10E-02	60	0.007	24%	1.72	
Central	Minimum	2.10E-03	6	0.009	24%	0.23	N, NNW
	Maximum	4.20E-02	120	0.009	24%	4.5	
	Mean	2.10E-02	60	0.009	24%	2.3	
Southern	Minimum	6.40E-06	0.018	0.015	26%	0.001	N, NNE, NNW
	Maximum	6.40E-04	1.8	0.015	26%	0.102	
	Mean	6.40E-05	0.18	0.015	26%	0.010	

**Notes:**

Horizontal hydraulic conductivity values and effective porosity values from *Potentiometric Groundwater Surface Mapping and Groundwater Velocity Calculation – Cedar Hills Landfill (Aspect, 2010)*.

Hydraulic gradients measured from the potentiometric surface map shown on Figure A-1.

Mean hydraulic conductivity values are the geometric mean of the high and low values.

NNE, north-northeast; NNW, north-northwest; NE, northeast; N, north.



# **APPENDIX B**

## **Field and Analytical Test Results**

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## Groundwater Field and Analytical Data

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 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	1/7/2019	643.61			
MW-100	1/7/2019	620.32	297.59	322.73	
MW-101	1/7/2019	474.72	31.45	443.27	
MW-102	1/7/2019	552.48	44.04	508.44	
MW-103	1/7/2019	639.08	11.68	627.4	
MW-104	1/7/2019	629.68	28.06	601.62	
MW-105	1/7/2019	521.23	19.19	502.04	
MW-106	1/7/2019	475.47	190.56	284.91	
MW-21	1/7/2019	420.66	125.21	295.45	
MW-22	1/7/2019	517.09	232.18	284.91	
MW-24	1/7/2019	475.99	145.2	330.79	
MW-25	1/7/2019	474.41	5.34	469.07	Water in annulus.
MW-27A	1/7/2019	584.23	54.78	529.45	Water in annulus.
MW-28	1/7/2019	527.75	21.31	506.44	
MW-29	1/7/2019	532.92	8.87	524.05	
MW-30A	1/7/2019	568.43	29.45	538.98	Water in annulus.
MW-41D	1/7/2019	462.32	25.36	436.96	Runoff creating channel in the road.
MW-41S	1/7/2019	462.44	4.21	458.23	
MW-43	1/7/2019	547.06	263.44	283.62	
MW-45	1/7/2019	488.4	13.26	475.14	Needs plug.
MW-47	1/7/2019	634.6	16.99	617.61	
MW-48	1/7/2019	594.49	42.51	551.98	
MW-50	1/7/2019	637.02	29.73	607.29	
MW-54	1/7/2019	580.43	278.28	302.15	
MW-55	1/7/2019	652.29	28.77	623.52	
MW-56	1/7/2019	480.33	127.63	352.7	
MW-57	1/7/2019	456.64	102.1	354.54	Water in annulus
MW-58A	1/7/2019	479.27	149.08	330.19	Needs plug
MW-59	1/7/2019	457.13	123.85	333.28	Water in annulus. Earwigs present.
MW-60	1/7/2019	567.15	228.35	338.80	
MW-62	1/7/2019	556.21	49.59	506.62	
MW-63	1/7/2019	515.88	9.11	506.77	
MW-64	1/7/2019	596.55	265.65	330.9	
MW-65	1/7/2019	545.83	209.1	336.73	
MW-66	1/7/2019	531.28	238.99	292.29	

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 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-67	1/7/2019	516.43	220.27	296.16	
MW-68	1/7/2019	647.07	331.65	315.42	
MW-69	1/7/2019	653.69	355.83	297.86	
MW-72	1/7/2019	671.87	360.79	311.08	
MW-73	1/7/2019	485.7	191.74	293.96	
MW-74	1/7/2019	531.26	240.3	290.96	
MW-75	1/7/2019	532.4	245.52	286.88	
MW-76	1/7/2019	491.71	135.02	356.69	Road rutting Needs to be fixed
MW-79	1/7/2019	459.17			
MW-80	1/7/2019	530.41	238.97	291.44	
MW-81	1/7/2019	493.66	183.73	309.93	
MW-82	1/7/2019	474.85	125.13	349.72	
MW-83	1/7/2019	496.81	145.54	351.27	
MW-84	1/7/2019	530.8	236.29	294.51	
MW-85	1/7/2019	531.76	246.32	285.44	Insects in annulus.
MW-86	1/7/2019	536.04	249.93	286.11	
MW-87	1/7/2019	537.31	248.15	289.16	
MW-88	1/7/2019	513.68	227.49	286.19	
MW-89	1/7/2019	512.82	232.05	280.77	
MW-90	1/7/2019	502.22	221.61	280.61	
MW-91	1/7/2019	532.02	246.78	285.24	
MW-93	1/7/2019	632.15	308	324.15	
MW-94	1/7/2019	495.51	142.66	352.85	
MW-95	1/7/2019	571.54	251.02	320.52	
MW-98	1/7/2019	503.73	14.09	489.64	Insects in annulus.
MW-99	1/7/2019	493.64	200.21	293.43	
MW-EB5	1/7/2019	645.36	36.53	608.83	
MW-EB5S	1/7/2019	645.77	7.45	638.32	
MW-EB6	1/7/2019	589.61	25.73	563.88	
WS-NPW-1	1/7/2019	646.33	332.33	314	
WS-NPW-3	1/7/2019	645.81	330.56	315.25	



Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 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	1/11/2019	W101190111-	6.82	390	10.2	2.5			2.27
MW-30A	1/11/2019	W30A190111-	6.43	286.7	11.1	0.75	9.85	294.2	1.41
MW-47	1/11/2019	W47-190111-	6.84	730	11.5	22			0.45
MW-59	1/8/2019	W59-190108-	6.62	207.7	9.48	5	0.7	-35.3	5.73
MW-62	1/11/2019	W62-190111-	6.39	140	9.7	3			2.65
MW-66	1/8/2019	W66-190108-	7.16	218.6	9.71	2.8	5.29	239.9	0.45
MW-68	1/9/2019	W68-190110-	6.94	282.4	10.07	4	0.76	11.5	3.39
MW-69	1/10/2019	W69-190110-	7.5	326.8	9.39	5.25	0.8	-78.5	1.18
MW-72	1/8/2019	W72-190108-	6.91	356.6	9.97	5	1.4	20.4	54.9
MW-74	1/10/2019	W74R190110-	6.93	520	9.84	3.2	4.79	213.5	7.54
MW-75	1/9/2019	W75-190109-	7.07	371.1	9.52	4	0.78	-23.7	0.56
MW-80	1/10/2019	W80-190110-	6.74	311.1	9.62	5	0.74	-47.4	0.45
MW-80	1/10/2019	W80-190110D	6.93	520	9.84	3.2	4.79	213.5	7.54
MW-81	1/9/2019	W81-190109-	7.25	160	9.69	3.25	5.62	277.1	0.25
MW-83	1/9/2019	W83-190109-	6.55	651	10.45	4.2	0.68	258.1	0.31
MW-84	1/8/2019	W84-190108-	6.88	202.6	9.43	3.5	1.61	290.7	0.5
MW-85	1/9/2019	W85-190109-	7.03	356.1	9.3	3.5	3.04	258.7	0.36
MW-87	1/9/2019	W87-190109-	6.87	534.6	10.42	3.25	0.75	-14.2	3.05
MW-93	1/10/2019	W93-190110-	7.2	318.5	10.83	5	0.99	253.7	0.45
MW-94	1/9/2019	W94-190109-	6.39	276.4	9.42	2.2	3.44	247.1	0.81
FIELD BLANK	1/11/2019	W30A190111F	9.52	2.1	13.6				

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill --Groundwater Conventional Analytical Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Alkalinity, Total (CaCO <sub>3</sub> ) (mg/L)	Ammonia, (NH <sub>3</sub> ) (mg/L)	Chloride (mg/L)	Nitrate- Nitrogen, (NO <sub>3</sub> as N) (mg/L)	Specific Conductance (umhos/cm)	Sulfate (SO <sub>4</sub> ) (mg/L)	Total Dissolved Solids (mg/L)	Total Organic Carbon (mg/L)	Total Solids (mg/L)	Suspended Solids (mg/L)
MW-30A	1/11/2019	W30A190111-	66.9	0.002 U	1.03	17	267	6.16	210	0.63 T	222	0.5 T
MW-47	1/11/2019	W47-190111-	642	0.0425	5.78	0.01 U	1110	6.28	705	3.94	723	8.6
MW-59	1/8/2019	W59-190108-	67.6	0.0062 T	8.92	0.014 T	186	15	125	0.89 T	134	3.5
MW-62	1/11/2019	W62-190111-	43.9	0.002 U	2.9	2.11	134	9.73	107 H	0.82 T	105	0.5 U
MW-66	1/8/2019	W66-190108-	87.9	0.002 U	4.32	0.417	210	13.2	132	0.5 U	133	0.7 T
MW-68	1/10/2019	W68-190110-	125	0.0177	2.89	0.01 U	273	14.8	164	0.5 U	171	2.6
MW-69	1/10/2019	W69-190110-	137	0.0165	3.73	0.01 U	306	23.7	196	0.5 U	201	1.5
MW-72	1/8/2019	W72-190108-	129	0.0157	6.38	0.01 U	331	38.7	216	0.5 U	245	19.4
MW-74	1/10/2019	W74R190110-	211	0.002 U	22	0.336	512	30.7	302	0.6 T	310	1.12
MW-75	1/9/2019	W75-190109-	108	0.0092 T	10.3	0.01 U	347	58.1	238	0.5 U	247	2.8
MW-80	1/10/2019	W80-190110-	114	0.0206	4.49	0.01 U	304	33.7	191	0.5 U	199	3.1
MW-80	1/10/2019	W80-190110D	114	0.0228	4.47	0.01 U	299	33.5	193	0.5 U	199	2.9
MW-81	1/9/2019	W81-190109-	54.5	0.002 U	5.01	1.51	154	9.58	106	0.5 U	107	1 U
MW-83	1/9/2019	W83-190109-	204	0.0028 T	69.3	2.7	604	11.4	400	9.33	429	0.5 U
MW-84	1/8/2019	W84-190108-	77.6	0.002 U	4.13	0.145	192	15.8	124	0.5 U	129	0.5 U
MW-85	1/9/2019	W85-190109-	132	0.002 U	10.8	0.111	342	33.2	213	0.5 U	218	0.5 U
MW-87	1/9/2019	W87-190109-	104	0.0182	12.4	0.01 U	494	138	372	0.5 U	391	3.5
MW-93	1/10/2019	W93-190110-	122	0.0531	2.82	0.014 T	307	35	201	0.5 U	205	0.5 U
MW-94	1/9/2019	W94-190109-	94.5	0.002 U	17.9	1.48	267	7.74	170	2.36	179	0.5 U
MW-101	1/11/2019	W101190111-	248	0.0078 T	2.47	0.062	442	3.27	298	4.19	311	1.8
FIELD BLANK	1/11/2019	W30A190111F	1 U	0.002 U	0.05 U	0.01 U	1.4 T	0.1 U	10 U	0.5 U	10 U	0.5 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill -- Groundwater Metals Analytical Data  
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Antimony, dissolved	Antimony, total	Arsenic, dissolved	Arsenic, total	Barium, dissolved	Barium, total	Beryllium, dissolved	Beryllium, total	Cadmium, dissolved	Cadmium, total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-30A	1/11/2019	W30A190111-	0.0003 U	0.0003 U	0.00055	0.000602	0.00363	0.00359	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-47	1/11/2019	W47-190111-	0.0003 U	0.0003 U	0.00242	0.00242	0.0415	0.042	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-59	1/8/2019	W59-190108-	0.0003 U	0.0003 U	0.000408	0.000567	0.00399	0.00452	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-62	1/11/2019	W62-190111-	0.0003 U	0.0003 U	0.000175	0.000206	0.00156	0.00206	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-66	1/8/2019	W66-190108-	0.0003 U	0.0003 U	0.000675	0.00069	0.00424	0.00443	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-68	1/10/2019	W68-190110-	0.0003 U	0.0003 U	0.00969	0.0243	0.0103	0.011	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-69	1/10/2019	W69-190110-	0.0003 U	0.0003 U	0.00218	0.00232	0.0116	0.0123	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-72	1/8/2019	W72-190108-	0.0003 U	0.0003 U	7.22E-05	0.000277	0.0114	0.0163	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-74	1/10/2019	W74R190110-	0.0003 U	0.0003 U	0.000369	0.00145	0.0113	0.0132	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-75	1/9/2019	W75-190109-	0.0003 U	0.0003 U	0.000488	0.000464	0.0118	0.0125	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-80	1/10/2019	W80-190110-	0.0003 U	0.0003 U	0.00359	0.0037	0.0137	0.0137	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-80	1/10/2019	W80-190110D	0.0003 U	0.0003 U	0.00359	0.00367	0.0136	0.0137	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-81	1/9/2019	W81-190109-	0.0003 U	0.0003 U	0.000496	0.000531	0.00296	0.00308	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-83	1/9/2019	W83-190109-	0.0003 U	0.0003 U	0.000408	0.000421	0.0105	0.0109	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-84	1/8/2019	W84-190108-	0.0003 U	0.0003 U	0.000321	0.000326	0.00456	0.00494	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-85	1/9/2019	W85-190109-	0.0003 U	0.0003 U	0.000699	0.000727	0.00634	0.00684	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-87	1/9/2019	W87-190109-	0.0003 U	0.0003 U	0.000478	0.000915	0.0245	0.0256	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-93	1/10/2019	W93-190110-	0.0003 U	0.0003 U	0.00131	0.00132	0.00711	0.0076	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-94	1/9/2019	W94-190109-	0.0003 U	0.0003 U	0.000122	0.000143	0.00216	0.00216	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-101	1/11/2019	W101190111-	0.0003 U	0.0003 U	0.0112	0.00749	0.018	0.0174	0.0001 U	0.0001 U	5E-05 U	5E-05 U
FIELD BLANK	1/11/2019	W30A190111F	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 January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill -- Groundwater Metals Analytical Data  
 Contact Person: Sandy Jimenez (206) 477-5224

			Calcium, dissolved	Calcium, total	Chromium, dissolved	Chromium total	Cobalt, dissolved	Cobalt, total	Copper, dissolved	Copper, total	Iron, dissolved	Iron, total
Site	Date	Sample ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-30A	1/11/2019	W30A190111-	21.9	21.3	0.00066	0.000759	5E-05 U	5E-05 U	0.0002 U	0.000473	0.01 U	0.0742
MW-47	1/11/2019	W47-190111-	147	143	0.0002 U	0.0002 U	0.000397	0.000386	0.0002 U	0.0002 U	4.28	4.34
MW-59	1/8/2019	W59-190108-	17.5	17	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000581	4.28	4.92
MW-62	1/11/2019	W62-190111-	13	12.5	0.000206	0.000373	6.22E-05	9.8E-05	0.000232	0.000495	0.0114	0.131
MW-66	1/8/2019	W66-190108-	17.4	17	0.0002 U	0.0002	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0304
MW-68	1/10/2019	W68-190110-	27.5	26.8	0.0002 U	0.000302	0.000209	0.000221	0.0002 U	0.00111	0.621	0.98
MW-69	1/10/2019	W69-190110-	34.3	34	0.0002 U	0.000203	5E-05 U	5E-05 U	0.0002 U	0.0002 U	1.11	1.18
MW-72	1/8/2019	W72-190108-	33.5	33.1	0.0002 U	0.00153	5E-05 U	5E-05 U	0.0002 U	0.000664	2.85	9.9
MW-74	1/10/2019	W74R190110-	45.6	44.8	0.0002 U	0.000242	5E-05 U	5E-05 U	0.000216	0.000488	0.01 U	0.725
MW-75	1/9/2019	W75-190109-	31.8	31.3	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.001	2.39	2.25
MW-80	1/10/2019	W80-190110-	31	30.6	0.0002 U	0.000292	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.1	2.17
MW-80	1/10/2019	W80-190110D	31	30.3	0.000468 J	0.000408	5E-05 U	5E-05 U	0.0002 U	0.0002 U	2.12	2.15
MW-81	1/9/2019	W81-190109-	13.8	13.8	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000574	0.01 U	0.01 U
MW-83	1/9/2019	W83-190109-	72	71.1	0.0002 U	0.0002 U	0.000345	0.000351	0.00505	0.00545	0.01 U	0.01 U
MW-84	1/8/2019	W84-190108-	16.3	16	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	1/9/2019	W85-190109-	33.2	33	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.0002 U	0.01 U	0.0205
MW-87	1/9/2019	W87-190109-	47.4	47.9	0.0002 U	0.0002 U	0.000129	0.000129	0.0002 U	0.0002 U	4.83	5.18
MW-93	1/10/2019	W93-190110-	31.4	31.3	0.0002 U	0.0002 U	7.69E-05	8.32E-05	0.0002 U	0.000228	0.01 U	0.0127
MW-94	1/9/2019	W94-190109-	28.2	27.6	0.0002 U	0.000375	8.28E-05	0.0001	0.000974	0.0011	0.01 U	0.0378
MW-101	1/11/2019	W101190111-	55	49.3	0.0002 U	0.000556	0.000212	0.00027	0.0002 U	0.000663	0.727	1
FIELD BLANK	1/11/2019	W30A190111F	0.05 U	0.05 U	0.0002 U	0.0002 U	5E-05 U	5E-05 U	0.0002 U	0.000625	0.01 U	0.01 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill -- Groundwater Metals Analytical Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Lead, dissolved (mg/L)	Lead, total (mg/L)	Magnesium, dissolved (mg/L)	Magnesium, total (mg/L)	Manganese, dissolved (mg/L)	Manganese, total (mg/L)	Mercury, dissolved (mg/L)	Mercury, total (mg/L)
MW-30A	1/11/2019	W30A190111-	0.0001 U	0.0001 U	11.9	11.8	0.0001 U	0.00129	5E-05 U	5E-05 U
MW-47	1/11/2019	W47-190111-	0.0001 U	0.0001 U	72	70.8	1.78 D	1.73	5E-05 U	5E-05 U
MW-59	1/8/2019	W59-190108-	0.0001 U	0.000101	10.4	10.3	0.136	0.142	5E-05 U	5E-05 U
MW-62	1/11/2019	W62-190111-	0.0001 U	0.0001 U	3.23	3.29	0.000369	0.00324	5E-05 U	5E-05 U
MW-66	1/8/2019	W66-190108-	0.0001 U	0.0001 U	13.1	13.3	0.0001 U	0.000655	5E-05 U	5E-05 U
MW-68	1/10/2019	W68-190110-	0.0001 U	0.0001 U	15.2	15	0.307	0.306	5E-05 U	5E-05 U
MW-69	1/10/2019	W69-190110-	0.0001 U	0.0001 U	16.1	16.4	0.265	0.274	5E-05 U	5E-05 U
MW-72	1/8/2019	W72-190108-	0.0001 U	0.000173	19.7	20	0.381	0.51	5E-05 U	5E-05 U
MW-74	1/10/2019	W74R190110-	0.0001 U	0.0001 U	35	34.2	0.0001 U	0.0119	5E-05 U	5E-05 U
MW-75	1/9/2019	W75-190109-	0.0001 U	0.0001 U	22.8	22.8	0.207	0.187	5E-05 U	5E-05 U
MW-80	1/10/2019	W80-190110-	0.0001 U	0.0001 U	15.8	16	0.335	0.332	5E-05 U	5E-05 U
MW-80	1/10/2019	W80-190110D	0.0001 U	0.0001 U	15.9	15.7	0.338	0.331	5E-05 U	5E-05 U
MW-81	1/9/2019	W81-190109-	0.0001 U	0.0001 U	7.29	7.59	0.0001 U	0.0001 U	5E-05 U	5E-05 U
MW-83	1/9/2019	W83-190109-	0.0001 U	0.0001 U	29.8	29.2	0.000811	0.0264	5E-05 U	5E-05 U
MW-84	1/8/2019	W84-190108-	0.0001 U	0.0001 U	11.8	11.9	0.000709	0.00061	5E-05 U	5E-05 U
MW-85	1/9/2019	W85-190109-	0.0001 U	0.0001 U	20.5	20.6	0.0001 U	0.000485	5E-05 U	5E-05 U
MW-87	1/9/2019	W87-190109-	0.0001 U	0.0001 U	31.5	32	0.548 D	0.543	5E-05 U	5E-05 U
MW-93	1/10/2019	W93-190110-	0.0001 U	0.0001 U	16.4	16.6	0.201	0.201	5E-05 U	5E-05 U
MW-94	1/9/2019	W94-190109-	0.0001 U	0.0001 U	12.6	12.6	0.000289	0.00132	5E-05 U	5E-05 U
MW-101	1/11/2019	W101190111-	0.0001 U	0.000181	32	29.2	1.16 D	0.802	5E-05 U	5E-05 U
FIELD BLANK	1/11/2019	W30A190111F	0.0001 U	0.0001 U	0.05 U	0.05 U	0.0001 U	0.0001 U	5E-05 U	5E-05 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill -- Groundwater Metals Analytical Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Nickel, dissolved	Nickel, total	Potassium, dissolved	Potassium, total	Selenium, dissolved	Selenium, total	Silver, dissolved	Silver, total
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-30A	1/11/2019	W30A190111-	0.000633	0.000724	1.5	1.51	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-47	1/11/2019	W47-190111-	0.00228	0.0023	5.28	5.11	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-59	1/8/2019	W59-190108-	0.000124	0.000226	1.15	1.17	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-62	1/11/2019	W62-190111-	0.000314	0.000477	0.754	0.757	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-66	1/8/2019	W66-190108-	0.000186	0.000211	1.16	1.17	0.00104	0.000993	4E-05 U	4E-05 U
MW-68	1/10/2019	W68-190110-	0.000511	0.000623	1.71	1.68	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-69	1/10/2019	W69-190110-	0.000136	0.000161	1.77	1.8	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-72	1/8/2019	W72-190108-	0.000223	0.000363	1.97	1.99	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-74	1/10/2019	W74R190110-	0.000863	0.00102	2.14	2.1	0.000698	0.000639	4E-05 U	4E-05 U
MW-75	1/9/2019	W75-190109-	0.0001 U	0.0001 U	2	1.99	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-80	1/10/2019	W80-190110-	0.000176	0.000233	1.7	1.7	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-80	1/10/2019	W80-190110D	0.000401 J	0.000261	1.71	1.67	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-81	1/9/2019	W81-190109-	0.000105	0.000122	0.835	0.859	0.000878	0.000857	4E-05 U	4E-05 U
MW-83	1/9/2019	W83-190109-	0.00227	0.00249	3.87	3.82	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-84	1/8/2019	W84-190108-	0.000275	0.000291	1.18	1.19	0.000887	0.000986	4E-05 U	4E-05 U
MW-85	1/9/2019	W85-190109-	0.000171	0.00029	1.67	1.68	0.00103	0.000943	4E-05 U	4E-05 U
MW-87	1/9/2019	W87-190109-	0.000139	0.000137	2.42	2.45	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-93	1/10/2019	W93-190110-	0.000192	0.00024	1.53	1.55	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-94	1/9/2019	W94-190109-	0.000505	0.000527	2.17	2.2	0.0005 U	0.0005 U	4E-05 U	4E-05 U
MW-101	1/11/2019	W101190111-	0.00314	0.00382	2.72	2.61	0.0005 U	0.0005 U	4E-05 U	4E-05 U
FIELD BLANK	1/11/2019	W30A190111F	0.0001 U	0.0001 U	0.1 U	0.1 U	0.0005 U	0.0005 U	4E-05 U	4E-05 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill -- Groundwater Metals Analytical Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Sodium, dissolved (mg/L)	Sodium, total (mg/L)	Thallium, dissolved (mg/L)	Thallium, total (mg/L)	Vanadium, dissolved (mg/L)	Vanadium, total (mg/L)	Zinc, dissolved (mg/L)	Zinc, total (mg/L)
MW-30A	1/11/2019	W30A190111-	15.7	15.7	0.0001 U	0.0001 U	0.00227	0.00247	0.000868	0.00132
MW-47	1/11/2019	W47-190111-	19.8	19	0.0001 U	0.0001 U	0.000194	0.000236	0.000719	0.0005 U
MW-59	1/8/2019	W59-190108-	6.24	6.26	0.0001 U	0.0001 U	7.5E-05 U	0.000115	0.00114	0.00235
MW-62	1/11/2019	W62-190111-	10.7	10.4	0.0001 U	0.0001 U	0.0007	0.000898	0.0005 U	0.000893
MW-66	1/8/2019	W66-190108-	7.37	7.45	0.0001 U	0.0001 U	0.000713	0.000815	0.0005 U	0.00104
MW-68	1/10/2019	W68-190110-	9.06	8.77	0.0001 U	0.0001 U	0.000255	0.000624	0.0005 U	0.000901
MW-69	1/10/2019	W69-190110-	8.67	8.67	0.0001 U	0.0001 U	0.000133	0.000244	0.0005 U	0.000651
MW-72	1/8/2019	W72-190108-	8.24	8.24	0.0001 U	0.0001 U	7.5E-05 U	0.000165	0.00117	0.00517
MW-74	1/10/2019	W74R190110-	12.6	12.4	0.0001 U	0.0001 U	0.000596	0.00112	0.0005 U	0.000889
MW-75	1/9/2019	W75-190109-	9.21	9.17	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.0005 U	0.000714
MW-80	1/10/2019	W80-190110-	7.93	7.93	0.0001 U	0.0001 U	8.26E-05	0.00016	0.0005 U	0.0005 U
MW-80	1/10/2019	W80-190110D	8.1	7.94	0.0001 U	0.0001 U	8.32E-05	0.000132	0.0005 U	0.0005 U
MW-81	1/9/2019	W81-190109-	6.31	6.51	0.0001 U	0.0001 U	0.00163	0.00171	0.000514	0.000556
MW-83	1/9/2019	W83-190109-	15.7	15.2	0.0001 U	0.0001 U	0.000905	0.000991	0.000524	0.000652
MW-84	1/8/2019	W84-190108-	6.97	6.94	0.0001 U	0.0001 U	0.000491	0.000518	0.0005 U	0.0005 U
MW-85	1/9/2019	W85-190109-	9.77	9.63	0.0001 U	0.0001 U	0.000958	0.00105	0.0005 U	0.000533
MW-87	1/9/2019	W87-190109-	10.6	10.7	0.0001 U	0.0001 U	7.5E-05 U	0.000149	0.0005 U	0.0005 U
MW-93	1/10/2019	W93-190110-	9.45	9.47	0.0001 U	0.0001 U	0.00203	0.00217	0.00129	0.00236
MW-94	1/9/2019	W94-190109-	7.46	7.39	0.0001 U	0.0001 U	0.00105	0.00119	0.0005 U	0.0005 U
MW-101	1/11/2019	W101190111-	16.8	18	0.0001 U	0.0001 U	0.00018	0.000553	0.000535	0.0017
FIELD BLANK	1/11/2019	W30A190111F	0.1 U	0.1 U	0.0001 U	0.0001 U	7.5E-05 U	7.5E-05 U	0.0005 JU	0.0005 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill --- Groundwater VOAs Analytical Data  
Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-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	1/11/2019	W30A190111-	0.25 U	0.1 U	0.1 U	0.1 U	1.34	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-47	1/11/2019	W47-190111-	0.25 U	0.1 U	0.1 U	0.1 U	0.638	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.114 JT
MW-59	1/8/2019	W59-190108-	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-62	1/11/2019	W62-190111-	0.25 U	0.1 U	0.1 U	0.1 U	0.5	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U
MW-66	1/8/2019	W66-190108-	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	1/10/2019	W68-190110-	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	1/10/2019	W69-190110-	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	1/8/2019	W72-190108-	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	1/10/2019	W74R190110-	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	1/9/2019	W75-190109-	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	1/10/2019	W80-190110-	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	1/10/2019	W80-190110D	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	1/9/2019	W81-190109-	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	1/9/2019	W83-190109-	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	1/8/2019	W84-190108-	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	1/9/2019	W85-190109-	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	1/9/2019	W87-190109-	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	1/10/2019	W93-190110-	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	1/9/2019	W94-190109-	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	1/11/2019	W101190111-	0.25 U	0.1 U	0.1 U	0.1 U	0.123 JT	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.127 JT
FIELD BLANK	1/11/2019	W30A190111F	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	1/7/2019	VTRP190108X	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	1/7/2019	VTRP190108Y	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	1/8/2019	VTRP190109X	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	1/8/2019	VTRP190109Y	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	1/9/2019	VTRP190110X	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	1/9/2019	VTRP190110Y	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	1/10/2019	VTRP190111X	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	1/10/2019	VTRP190111Y	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 January 1, 2019 to March 31, 2019  
Cedar Hills Landfill --- Groundwater VOAs Analytical Data  
Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-Dichloro propane	1,4-Dichloro benzene	2-Butanone	2-Hexanone	4-Methyl-2-Pentanone	Acetone	Acrylonitrile	Benzene	Bromochloro methane	Bromochloro methane	Bromoform
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
MW-30A	1/11/2019	W30A190111-	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
MW-47	1/11/2019	W47-190111-	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
MW-59	1/8/2019	W59-190108-	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
MW-62	1/11/2019	W62-190111-	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
MW-66	1/8/2019	W66-190108-	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
MW-68	1/10/2019	W68-190110-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	10.8	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-69	1/10/2019	W69-190110-	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
MW-72	1/8/2019	W72-190108-	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
MW-74	1/10/2019	W74R190110-	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
MW-75	1/9/2019	W75-190109-	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
MW-80	1/10/2019	W80-190110-	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
MW-80	1/10/2019	W80-190110D	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
MW-81	1/9/2019	W81-190109-	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
MW-83	1/9/2019	W83-190109-	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
MW-84	1/8/2019	W84-190108-	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
MW-85	1/9/2019	W85-190109-	0.1 U	0.1 U	1 U	0.5 U	2.5 U	4.16 JT	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
MW-87	1/9/2019	W87-190109-	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
MW-93	1/10/2019	W93-190110-	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
MW-94	1/9/2019	W94-190109-	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
MW-101	1/11/2019	W101190111-	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
FIELD BLANK	1/11/2019	W30A190111F	0.1 U	0.1 U	1.43 JT	0.5 U	2.5 U	5.8	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
VOA TRIP BLANK	1/7/2019	VTRP190108X	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
VOA TRIP BLANK	1/7/2019	VTRP190108Y	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
VOA TRIP BLANK	1/8/2019	VTRP190109X	0.1 U	0.1 U	1 U	0.5 U	2.5 U	5.29	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U
VOA TRIP BLANK	1/8/2019	VTRP190109Y	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
VOA TRIP BLANK	1/9/2019	VTRP190110X	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
VOA TRIP BLANK	1/9/2019	VTRP190110Y	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
VOA TRIP BLANK	1/10/2019	VTRP190111X	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
VOA TRIP BLANK	1/10/2019	VTRP190111Y	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

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill --- Groundwater VOAs Analytical Data  
Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Bromome thane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chlorodibro momethane	Chloroethane	Chloroform	Chlorom ethane	cis-1,2- Dichloroe thane	cis-1,3- Dichloroprop ene	Dibromom ethane
			ug/l 74-83-9	ug/l 75-15-0	ug/l 56-23-5	ug/l 108-90-7	ug/l 124-48-1	ug/l 75-00-3	ug/l 67-66-3	ug/l 74-87-3	ug/l 156-59-2	ug/l 10061-01-5	ug/l 74-95-3
MW-30A	1/11/2019	W30A190111-	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	1.41	0.25 U	0.1 U
MW-47	1/11/2019	W47-190111-	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.254	0.1 U	0.254 JT	1.68	0.25 U	0.1 U
MW-59	1/8/2019	W59-190108-	0.1 U	0.101 JT	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	1.25	0.25 U	0.1 U
MW-62	1/11/2019	W62-190111-	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	1.22	0.25 U	0.1 U
MW-66	1/8/2019	W66-190108-	0.1 U	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
MW-68	1/10/2019	W68-190110-	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.285 JT	0.1 U	0.25 U	0.1 U
MW-69	1/10/2019	W69-190110-	0.1 U	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
MW-72	1/8/2019	W72-190108-	0.1 U	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
MW-74	1/10/2019	W74R190110-	0.1 U	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
MW-75	1/9/2019	W75-190109-	0.1 U	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
MW-80	1/10/2019	W80-190110-	0.1 U	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
MW-80	1/10/2019	W80-190110D	0.1 U	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
MW-81	1/9/2019	W81-190109-	0.1 U	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
MW-83	1/9/2019	W83-190109-	0.1 U	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
MW-84	1/8/2019	W84-190108-	0.1 U	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
MW-85	1/9/2019	W85-190109-	0.1 U	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
MW-87	1/9/2019	W87-190109-	0.1 U	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
MW-93	1/10/2019	W93-190110-	0.1 U	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
MW-94	1/9/2019	W94-190109-	0.1 U	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
MW-101	1/11/2019	W101190111-	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.162 JT	0.1 U	0.25 U	0.165 JT	0.25 U	0.1 U
FIELD BLANK	1/11/2019	W30A190111F	0.1 U	0.1 U	0.25 U	0.1 U	0.5 U	0.1 U	0.676	0.42 JT	0.1 U	0.25 U	0.1 U
VOA TRIP BLANK	1/7/2019	VTRP190108X	0.1 U	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
VOA TRIP BLANK	1/7/2019	VTRP190108Y	0.1 U	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
VOA TRIP BLANK	1/8/2019	VTRP190109X	0.1 U	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
VOA TRIP BLANK	1/8/2019	VTRP190109Y	0.1 U	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
VOA TRIP BLANK	1/9/2019	VTRP190110X	0.1 U	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
VOA TRIP BLANK	1/9/2019	VTRP190110Y	0.1 U	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
VOA TRIP BLANK	1/10/2019	VTRP190111X	0.1 U	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
VOA TRIP BLANK	1/10/2019	VTRP190111Y	0.1 U	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

## Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data  
 Contact Person: Sedy Jimenez (206) 477-5224

Site	Date	Sample ID	Dichlorodifluoromethane	Ethylbenzene	M & P Xylene	Methyl Iodide	Methylene Chloride	O-Xylene	Styrene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene
			ug/l 75-71-8	ug/l 100-41-4	ug/l MPX	ug/l 74-88-4	ug/l 75-09-2	ug/l 95-47-6	ug/l 100-42-5	ug/l 127-18-4	ug/l 108-88-3	ug/l 156-60-5
MW-30A	1/11/2019	W30A190111-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-47	1/11/2019	W47-190111-	3.9	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-59	1/8/2019	W59-190108-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-62	1/11/2019	W62-190111-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-66	1/8/2019	W66-190108-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-68	1/10/2019	W68-190110-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-69	1/10/2019	W69-190110-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-72	1/8/2019	W72-190108-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-74	1/10/2019	W74R190110-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-75	1/9/2019	W75-190109-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-80	1/10/2019	W80-190110-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-80	1/10/2019	W80-190110D	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-81	1/9/2019	W81-190109-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-83	1/9/2019	W83-190109-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-84	1/8/2019	W84-190108-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-85	1/9/2019	W85-190109-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-87	1/9/2019	W87-190109-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-93	1/10/2019	W93-190110-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-94	1/9/2019	W94-190109-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
MW-101	1/11/2019	W101190111-	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
FIELD BLANK	1/11/2019	W30A190111F	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2019	VTRP190108X	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/7/2019	VTRP190108Y	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/8/2019	VTRP190109X	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/8/2019	VTRP190109Y	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/9/2019	VTRP190110X	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/9/2019	VTRP190110Y	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/10/2019	VTRP190111X	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/10/2019	VTRP190111Y	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill --- Groundwater VOAs Analytical Data  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Trans-1,3- Dichloropropene	Trans-1,4- Dichloro-2- Butene	Trichlor oethene	Trichlorofluor omethane	Vinyl Acetate	Vinyl Chloride
			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
MW-30A	1/11/2019	W30A190111-	0.5 U	5 U	0.558	0.1 U	0.1 U	0.01 U
MW-47	1/11/2019	W47-190111-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	6.12
MW-59	1/8/2019	W59-190108-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-62	1/11/2019	W62-190111-	0.5 U	5 U	0.113 JT	0.1 U	0.1 U	0.01 U
MW-66	1/8/2019	W66-190108-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-68	1/10/2019	W68-190110-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-69	1/10/2019	W69-190110-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-72	1/8/2019	W72-190108-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-74	1/10/2019	W74R190110-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-75	1/9/2019	W75-190109-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-80	1/10/2019	W80-190110-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-80	1/10/2019	W80-190110D	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-81	1/9/2019	W81-190109-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-83	1/9/2019	W83-190109-	0.5 U	5 U	1.66	0.1 U	0.1 U	0.01 U
MW-84	1/8/2019	W84-190108-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-85	1/9/2019	W85-190109-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-87	1/9/2019	W87-190109-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-93	1/10/2019	W93-190110-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
MW-94	1/9/2019	W94-190109-	0.5 U	5 U	2.31	0.1 U	0.1 U	0.01 U
MW-101	1/11/2019	W101190111-	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.409
FIELD BLANK	1/11/2019	W30A190111F	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/7/2019	VTRP190108X	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/7/2019	VTRP190108Y	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/8/2019	VTRP190109X	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/8/2019	VTRP190109Y	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/9/2019	VTRP190110X	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/9/2019	VTRP190110Y	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/10/2019	VTRP190111X	0.5 U	5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/10/2019	VTRP190111Y	0.5 U	5 U	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 January 1, 2019 to March 31, 2019

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

Contact Person: Sendy Jimenez (206) 477-5224

Staff Gage	Location	Date	Reference Elevation Staff Gage 0' (msl)	Reference Elevation Top of Peizo (msl)	Depth to Water (Peizometer) (feet)	Staff Gage Reading (feet)	Surface Water Elevation (msl)
SW-G1	SW-W1	1/7/2019	415.38	418.84		0.68	416.06
SW-G1	SW-W1	2/6/2019	415.38	418.84		0.64	416.02
SW-G1	SW-W1	3/14/2019	415.38	418.84		0.68	416.06
SW-G2	SW-N1	1/7/2019	355.68	358.21		0.72	356.40
SW-G2	SW-N1	2/6/2019	355.68	358.21		0.48	356.16
SW-G2	SW-N1	3/14/2019	355.68	358.21		0.7	356.38
SW-G3	SW -V	1/7/2019	466.46	469.88		0.2	466.66
SW-G3	SW -V	2/6/2019	466.46	469.88	5.1		464.78
SW-G3	SW -V	3/14/2019	466.46	469.88		0.1	466.56
SW-G4	Upstream of SW-E1	1/7/2019	502.41	505.85		0.45	502.86
SW-G4	Upstream of SW-E1	2/6/2019	502.41	505.85		0.33	502.74
SW-G4	Upstream of SW-E1	3/14/2019	502.41	505.85		0.42	502.83
SW-G5	SW-E1	1/7/2019	486.92	490.34		0.66	487.58
SW-G5	SW-E1	2/6/2019	486.92	490.34		0.58	487.50
SW-G5	SW-E1	3/14/2019	486.92	490.34		0.67	487.59
SW-G6	Upstream of SW-GS1	1/7/2019	490.72	494.12		0.9	491.62
SW-G6	Upstream of SW-GS1	2/6/2019	490.72	494.12	2.99		491.13
SW-G6	Upstream of SW-GS1	3/14/2019	490.72	494.12	2.79		491.33
SW-G7	SW-S2	1/7/2019	453.03	456.41		1.1	454.13
SW-G7	SW-S2	2/6/2019	453.03	456.41		0.74	453.77
SW-G7	SW-S2	3/14/2019	453.03	456.41		0.76	453.79
SW-G8	Upstream of SW-S1	1/7/2019	510.61	515.56		0.61	511.22
SW-G8	Upstream of SW-S1	2/6/2019	510.61	515.56		0.46	511.07
SW-G8	Upstream of SW-S1	3/14/2019	510.61	515.56		0.7	511.31
SW-G9	SW-S1	1/7/2019	490.93	494.35		0.78	491.71
SW-G9	SW-S1	2/6/2019	490.93	494.35		0.68	491.61
SW-G9	SW-S1	3/14/2019	490.93	494.35		0.82	491.75

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---Surface Water Field Parameters  
 Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature	Turbidity	Oxygen, Dissolved
			(std. Units)	(umho/cm)	(°C)	(NTU)	(mg/L)
SW-E1	1/30/2019	SE1-190130Q	6.67	41.8	3.82	8.85	6.7
SW-GS1	1/2/2019	SGS1190102P	7.43	111.6	5.23	--	11.64
SW-N4	1/2/2019	SN4-190102P	7.45	81.7	13.41	--	12.11
SW-SL3	1/2/2019	SSL3190102P	7.24	128.3	5.28	--	10.78

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---Surface Water ISGP Analytes  
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Ammonia, (NH3) (mg/L)	Biological Oxygen Demand (mg/L)	Total Suspended Solids (mg/L)	Zinc, total (mg/L)
SW-GS1	1/2/2019	SGS1190102P	0.0067 T	2 U	0.8 T	0.00326
SW-N4	1/2/2019	SN4-190102P	0.0652	2 U	1	0.0337
SW-SL3	1/2/2019	SSL3190102P	0.0131	2 U	4.8	0.0105



Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---Surface Water VOAs Analytes

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	4-Methyl- phenol	Alpha Terpineol	Benzoic Acid	Phenol
			106-44-5 (ug/L)	98-55-5 (ug/L)	65-85-0 (ug/L)	108-95-2 (ug/L)
SW-GS1	1/2/2019	SGS1190102P	0.481 U	0.481 U	9.62 U	0.481 U
SW-N4	1/2/2019	SN4-190102P	0.485 U	0.485 U	9.71 U	0.485 U
SW-SL3	1/2/2019	SSL3190102P	0.485 U	0.485 U	9.71 U	0.485 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---SW-E1 Analytical Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2- TETRACHLOR OETHANE	1,1,1- TRICHLOR OETHANE	1,1,2,2- TETRACHLOR OETHANE	1,1,2- TRICHLORO ETHANE	1,1- DICHLORO ETHANE	1,1- DICHLORO ETHENE	1,2,3- TRICHLOROP ROPANE	1,2- DIBROMO- 3- CHLOROPR OPANE	1,2- DIBROMO ETHANE	1,2- DICHLOROB ENZENE	1,2- DICHLOROE THANE	1,2- DICHLOROP ROPANE	1,4- DICHLOROB ENZENE	2-BUTANONE
			630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	96-18-4	96-12-8	106-93-4	95-50-1	107-06-2	78-87-5	106-46-7	78-93-3
			ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N	ug/l N
SW-E1	1/30/2019	SE1-190130Q	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---SW-E1 Analytical Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	2-HEXANONE	4-METHYL-2-PENTANONE	ACETONE	ACRYLONITRILE	ALKALINITY, TOTAL (AS CaCO3)	AMMONIA AS N	ANTIMONY	ANTIMONY	ARSENIC	ARSENIC	BARIUM	BARIUM	BENZENE
			591-78-6	108-10-1	67-64-1	107-13-1	ALK	7664-41-7	7440-36-0	7440-36-0	7440-38-2	7440-38-2	7440-39-3	7440-39-3	71-43-2
			ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	ug/l
			N	N	N	N	N	N	D	T	D	T	D	T	N
SW-E1	1/30/2019	SE1-190130Q	0.5 U	2.5 U	2.5 U	0.035 U	13.4	0.0022 T	0.0003 U	0.0003 U	0.000133	0.000625	0.00277	0.0144	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---SW-E1 Analytical Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	BERYLLIUM	BERYLLIUM	BROMOCHLOR	BROMODICHLO	BROMOFORM	BROMOME	CADMIUM	CADMIUM	CALCIUM	CALCIUM	CARBON	CARBON	CHLORIDE
			7440-41-7	7440-41-7	74-97-5	75-27-4	75-25-2	74-83-9	7440-43-9	7440-43-9	7440-70-2	7440-70-2	75-15-0	56-23-5	16887-00-6
			mg/l	mg/l	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	mg/l
D			D	T	N	N	N	N	D	T	D	T	N	N	N
SW-E1	1/30/2019	SE1-190130Q	0.0001 U	0.0001 U	0.1 U	0.25 U	0.5 U	0.1 U	5E-05 U	5E-05 U	4.27	4.88	0.1 U	0.25 U	1.73

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---SW-E1 Analytical Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	CHLOROB ENZENE	CHLORODIBROM OMETHANE	CHLOROE THANE	CHLOROFORM	CHLOROME THANE	CHROMIUM	CHROMIUM	CIS-1,2- DICHLOROE THENE	CIS-1,3- DICHLORO PROPENE	COBALT	COBALT	COPPER	COPPER	DIBROMOM ETHANE
			108-90-7 ug/l N	124-48-1 ug/l N	75-00-3 ug/l N	67-66-3 ug/l N	74-87-3 ug/l N	7440-47-3 mg/l D	7440-47-3 mg/l T	156-59-2 ug/l N	10061-01-5 ug/l N	7440-48-4 mg/l D	7440-48-4 mg/l T	7440-50-8 mg/l D	7440-50-8 mg/l T	74-95-3 ug/l N
SW-E1	1/30/2019	SE1-190130Q	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.0002 U	0.00162	0.1 U	0.25 U	5E-05 U	0.000569	0.00046	0.00233	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---SW-E1 Analytical Data

Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	DICHLORODI FLUOROMET HANE	ETHYLB ENZENE	IRON	IRON	LEAD	LEAD	M & P XYLENE	MAGNESIUM	MAGNESIUM	MANGANESE	MANGANESE	MERCURY	MERCURY	METHYL IODIDE
			75-71-8 ug/l N	100-41-4 ug/l N	7439- 89-6 mg/l D	7439- 89-6 mg/l T	7439-92-1 mg/l D	7439-92-1 mg/l T	MPX ug/l N	7439-95-4 mg/l D	7439-95-4 mg/l T	7439-96-5 mg/l D	7439-96-5 mg/l T	7439-97-6 mg/l D	7439-97-6 mg/l T	74-88-4 ug/l N
SW-E1	1/30/2019	SE1-190130Q	0.1 U	0.1 U	0.0247	1.04	0.0001 U	0.00163	0.1 U	0.945	1.16	0.00661	0.114	5E-05 U	5E-05 U	0.1 U



Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---SW-E1 Analytical Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	METHYLENE CHLORIDE	NICKEL	NICKEL	NITRATE	O-XYLENE	POTASSIUM	POTASSIUM	SELENIUM	SELENIUM	SILVER	SILVER	SODIUM	SODIUM	SPECIFIC CONDUCTANCE
			75-09-2	7440-02-0	7440-02-0	14797-55-8	95-47-6	7440-09-7	7440-09-7	7782-49-2	7782-49-2	7440-22-4	7440-22-4	7440-23-5	7440-23-5	COND
			ug/l N	mg/l D	mg/l T	mg/l N	ug/l N	mg/l D	mg/l T	mg/l D	mg/l T	mg/l D	mg/l T	mg/l D	mg/l T	umhos/cm N
SW-E1	1/30/2019	SE1-190130Q	2.5 U	0.00014	0.00151	0.171	0.1 U	0.371	0.442	0.0005 U	0.000649	4E-05 U	4E-05 U	2.34	2.34	40.9

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---SW-E1 Analytical Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	STYRENE	SULFATE	TETRAC HLOEOE THENE	THALLIUM	THALLIUM	TOLUENE	TOTAL DISSOLVED SOLIDS	TOTAL ORGANIC CARBON	TOTAL SOLIDS	TOTAL SUSPENDED SOLIDS	TRANS-1,2- DICHLORO THENE	TRANS-1,3- DICHLOROPR OPENE	TRANS-1,4- DICHLORO-2- BUTENE	TRICHLORO ETHENE
			100-42-5	14808-79-8	127-18-4	7440-28-0	7440-28-0	108-88-3	TDS	TOC	TS	TSS	156-60-5	10061-02-6	110-57-6	79-01-6
			ug/l	mg/l	ug/l	mg/l	mg/l	ug/l	mg/l	mg/l	mg/l	mg/l	ug/l	ug/l	ug/l	ug/l
			N	N	N	D	T	N	N	N	N	N	N	N	N	N
SW-E1	1/30/2019	SE1-190130Q	0.1 U	1.46	0.1 U	0.0001 U	0.0001 U	0.1 U	44.8 J	2.84	57.6 J	32.8 J	0.1 U	0.5 U	5 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill ---SW-E1 Analytical Data

Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	TRICHLORO FLUOROME THANE	VANADIUM	VANADIUM	VINYL ACETATE	VINYL CHLORIDE	ZINC	ZINC
			75-69-4	7440-62-2	7440-62-2	108-05-4	75-01-4	7440-66-6	7440-66-6
			ug/l	mg/l	mg/l	ug/l	ug/l	mg/l	mg/l
			N	D	T	N	N	D	T
SW-E1	1/30/2019	SE1-190130Q	0.1 U	0.00036	0.00277	0.1 U	0.01 U	0.000835	0.00744

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# Washington Department of Ecology

## Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR000756 - DMR Submission Id: 1674106 - 5/7/2019 2:21:31 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 Tuesday May 7 2019

### Attestation Agreed to at Signing:

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

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

For Ecology Use Only



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+u7VYr5PFbf7xW7keIKTXOcdkbMJTy1hU2jYc1vtb4ieW3ahOVF9m2i1YqudHk7qYI2gf3IQKz2e5/DeaZx45HkUmL87is  
k65aZoc=



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2019 - 03/31/2019

Outfall: GS1 - Discharge to unnamed stream (wetland)

Version: 2

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	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
		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
1-W	1/2/19	A	A	No	A	A	<2	0.8	0.0067	<0.481	<9.62	<0.481
Minimum			A BM: >= 5.0 (RO)									
Average		A BM: <= 25			A BM: <= 14	A BM: <= 117						
Maximum			A BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	0.8 <= 27	0.0067 <= 4.9	<0.481 <= 16	<9.62 <= 71	<0.481 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

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





Week	Monitoring Point	Phenol Micrograms/L (ug/L) Quarterly Grab	Zinc Total Micrograms/L (ug/L) Quarterly Grab	pH Standard Units Quarterly Grab
		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
1-W	1/2/19	<0.481	3.26	7.43
Minimum				7.43
				>= 6.0 (RO)
Average				
Maximum				7.43
				<= 9.0 (RO)
Month 1 Average		<0.481	3.26	
		<= 15	<= 110	
Month 2 Average		M	M	
		<= 15	<= 110	
Month 3 Average		M	M	
		<= 15	<= 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2019 - 03/31/2019

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

Version: 2

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
	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
1-W	1/2/19	A	A	No	A	A	<2	1	0.0652	<0.485	<9.71	<0.485
Minimum		A	BM: >= 5.0 (RO)									
Average		A			A	A						
		BM: <= 25			BM: <= 14	BM: <= 117						
Maximum		A	BM: <= 9.0 (RO)									
Month 1 Average							<2	1	0.0652	<0.485	<9.71	<0.485
							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 2 Average							M	M	M	M	M	M
							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14
Month 3 Average							M	M	M	M	M	M
							<= 37	<= 27	<= 4.9	<= 16	<= 71	<= 14

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



Week	Monitoring Point	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
1-W	1/2/19	<0.485	33.7	7.45
Minimum				7.45 ≥ 6.0 (RO)
Average				
Maximum				7.45 ≤ 9.0 (RO)
Month 1 Average		<0.485 ≤ 15	33.7 ≤ 110	
Month 2 Average		M ≤ 15	M ≤ 110	
Month 3 Average		M ≤ 15	M ≤ 110	



Permit Number: WAR000756

Permittee: CEDAR HILLS LANDFILL

Facility County: King

Receiving Waterbody: Unnamed stream

Monitoring Period: 01/01/2019 - 03/31/2019

Outfall: SL3 - Discharge to unnamed stream (ditch)

Version: 2

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	Benzoic Acid Micrograms/L (ug/L) Quarterly Grab	p-Cresol (4-methylphenol) Micrograms/L (ug/L) Quarterly Grab
		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
1-W	1/2/19	A	A	No	A	A	<2	4.8	0.0131	<0.485	<9.71	<0.485
Minimum			A BM: >= 5.0 (RO)									
Average		A BM: <= 25			A BM: <= 14	A BM: <= 117						
Maximum			A BM: <= 9.0 (RO)									
Month 1 Average							<2 <= 37	4.8 <= 27	0.0131 <= 4.9	<0.485 <= 16	<9.71 <= 71	<0.485 <= 14
Month 2 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14
Month 3 Average							M <= 37	M <= 27	M <= 4.9	M <= 16	M <= 71	M <= 14

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

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

Jennifer Keune

5/7/2019 2:21:39 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
	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
1-W	1/2/19	<0.485	10.5	7.24
Minimum				7.24
				>= 6.0 (RO)
Average				
Maximum				7.24
				<= 9.0 (RO)
Month 1 Average		<0.485	10.5	
		<= 15	<= 110	
Month 2 Average		M	M	
		<= 15	<= 110	
Month 3 Average		M	M	
		<= 15	<= 110	

# Washington Department of Ecology

## Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1661007 - 2/4/2019 5:40:36 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 Monday February 4 2019

### Attestation Agreed to at Signing:

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

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

For Ecology Use Only



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Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: Queen City Farms Lake (QCFL)

Monitoring Period: 01/01/2019 - 01/31/2019

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		CHL	CHL
1-W	1/2/19	28	M
1-F	1/4/19	24.5	M
2-W	1/9/19	19.4	M
3-M	1/14/19	11.2	M
4-W	1/23/19	16.7	M
5-Th	1/31/19	12.9	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum		28	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**

Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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: gravel pit lake

Monitoring Period: 01/01/2019 - 01/31/2019

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C3	C3
1-W	1/2/19	45	M
1-F	1/4/19	46.3	M
2-W	1/9/19	23.8	M
3-M	1/14/19	17.6	M
4-W	1/23/19	24.8	M
5-Th	1/31/19	C	M
Minimum			M
			BM: >= 6.5 (RO)
Maximum		46.3	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**

Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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: 01/01/2019 - 01/31/2019

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

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		C1	C1	C2	C2
1-W	1/2/19	11.6	M	9.4	M
1-F	1/4/19	52.9	M	11.4	M
2-W	1/9/19	19	M	10.6	M
3-M	1/14/19	17.9	M	8.6	M
4-W	1/23/19	97.1	M	13.4	M
5-Th	1/31/19	18.6	M	11.7	M
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		97.1	M	13.4	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**

Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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

2/4/2019 5:40:35 PM

Signature

Date

# Washington Department of Ecology

## Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1664576 - 3/5/2019 8:42:14 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 Tuesday March 5 2019

### 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



yEwVLFzt2jXZMs7PJv3wL4sU6iUCD3i5Uo6AY8LXhKeWGyqNsWegzat9Pp0K  
+QPZTMULXPp/W/gdev0JUFJ7QlxXqrWXvge5OAgk1N0NQfs=



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: Queen City Farms Lake (QCFL)

Monitoring Period: 02/01/2019 - 02/28/2019

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		CHL	CHL
2-Su	2/3/19		
2-Th	2/7/19	10.8	M
3-F	2/15/19	13	M
4-Su	2/17/19		
4-M	2/18/19	18.9	M
4-T	2/19/19	23.1	M
5-Su	2/24/19		
Minimum			M
			BM: >= 6.5 (RO)
Maximum		23.1	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

**Overall DMR Notes/Comment**

Monitoring for the 1st week of February was reported on the January DMR. Monitoring for the 5th week of February was conducted by the contractor on Friday March 1st and will be reported on the March DMR. Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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: gravel pit lake

Monitoring Period: 02/01/2019 - 02/28/2019

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
2-Su	2/3/19		
2-Th	2/7/19	3.95	M
3-F	2/15/19	5.66	M
4-Su	2/17/19		
4-M	2/18/19	15.1	M
4-T	2/19/19	24.2	M
5-Su	2/24/19		
Minimum			M
			BM: >= 6.5 (RO)
Maximum		24.2	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

**Overall DMR Notes/Comment**

Monitoring for the 1st week of February was reported on the January DMR. Monitoring for the 5th week of February was conducted by the contractor on Friday March 1st and will be reported on the March DMR. Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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: 02/01/2019 - 02/28/2019

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
2-Su	2/3/19				
2-Th	2/7/19	13.8	M	10.3	M
3-F	2/15/19	40	M	12.6	M
4-Su	2/17/19				
4-T	2/19/19	55.2	M	6.15	M
5-Su	2/24/19				
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		55.2	M	12.6	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

**Overall DMR Notes/Comment**

Monitoring for the 1st week of February was reported on the January DMR. Monitoring for the 5th week of February was conducted by the contractor on Friday March 1st and will be reported on the March DMR. Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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

3/5/2019 8:42:22 PM

Signature

Date



# Washington Department of Ecology

## Electronic Submission Cover Letter



**WQWebDMR - Permit# WAR305034 - DMR Submission Id: 1667991 - 4/2/2019  
11:43:24 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 April 2 2019

### 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



fz/4twzsXDiRpSVIyh6blieW4I9ZBNk2XdxyBEUW3/oQ939rVdmCNnNL1JIeCUrfLoSTT/EI08HzDbxIOokVckautEtrlyWimj  
xl5p/9nCY=



Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: Queen City Farms Lake (QCFL)

Monitoring Period: 03/01/2019 - 03/31/2019

Outfall: CHL - Queen City Farms Lake (QCFL)

Version: 1

Week	Monitoring Point	Turbidity (NTU) Measured NTU Weekly Grab	pH Standard Units Weekly Grab
		CHL	CHL
1-F	3/1/19	23.3	M
2-F	3/8/19	16.9	M
3-T	3/12/19	19.2	M
4-T	3/19/19	18.9	M
5-F	3/29/19	17.2	M
6-Su	3/31/19		
Minimum			M
			BM: >= 6.5 (RO)
Maximum		23.3	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

**Overall DMR Notes/Comment**

Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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
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Permit Number: WAR305034

Permittee: Cedar Hills regional Landfill

Facility County: King

Receiving Waterbody: gravel pit lake

Monitoring Period: 03/01/2019 - 03/31/2019

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-F	3/1/19	22.5	M
2-F	3/8/19	9.39	M
3-T	3/12/19	23.1	M
4-T	3/19/19	20.1	M
5-F	3/29/19	18.4	M
6-Su	3/31/19		
Minimum			M
			BM: >= 6.5 (RO)
Maximum		23.1	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

**Overall DMR Notes/Comment**

Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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: 03/01/2019 - 03/31/2019

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-F	3/1/19	38.9	M	6.94	M
2-F	3/8/19	11.8	M	8.27	M
3-T	3/12/19	17.3	M	13.1	M
4-T	3/19/19	12.7	M	10.6	M
5-F	3/29/19	12.6	M	9.75	M
6-Su	3/31/19				
Minimum			M		M
			BM: >= 6.5 (RO)		BM: >= 6.5 (RO)
Maximum		38.9	M	13.1	M
		BM: <= 25 (RO)	BM: <= 8.5 (RO)	BM: <= 25 (RO)	BM: <= 8.5 (RO)

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

**Overall DMR Notes/Comment**

Stormwater treatment in ditches with Floc TM Socs was approved by Ecology, but was NOT implemented in January 2019. The use of the floc socs is on hold.

**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

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

Signature

4/2/2019 11:43:33 AM

Date

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## Leachate Field and Analytical Data

**Leachate Monitoring Activities 1st Quarter 2019**

<b>Station ID</b>	<b>Date</b>	<b>Activity</b>	<b>Sample ID</b>	<b>Comment</b>
LS-LIF	1/17/2019	Monthly Characterization Sample	LIF-190117M	
LS-LIF	2/20/2019	Special Investigation	LIF-190220I	
LS-LIF	3/6/2019	Special Investigation	LIF-190306I	
LS-CSW	1/17/2019	Special Investigation	LCSW190117I	
LS-CSW	1/17/2019	QA/QC Sample	LCSW190117D	
LS-CSW	2/19/2019	Special Investigation	LCSW190219I	
LS-CSW	3/6/2019	Special Investigation	LCSW190306I	
LS-LEPS	1/17/2019	Monthly Characterization Sample	LEPS190117M	
LS-LEPS	2/20/2019	Monthly Characterization Sample	LEPS190220M	
LS-LEPS	3/6/2019	Monthly Characterization Sample	LEPS190306M	
LS-LEPS	1/8/2019	Permit Sample	LEPS190108P	
LS-LEPS	1/17/2019	Permit Sample	LEPS190117P	
LS-LEPS	1/22/2019	Permit Sample	LEPS190122P	
LS-LEPS	1/29/2019	Permit Sample	LEPS190129P	
LS-LEPS	2/7/2019	Permit Sample	LEPS190207P	
LS-LEPS	2/13/2019	Permit Sample	LEPS190213P	
LS-LEPS	2/20/2019	Permit Sample	LEPS190219P	
LS-LEPS	2/26/2019	Permit Sample	LEPS190226P	
LS-LEPS	3/5/2019	Permit Sample	LEPS190305P	
LS-LEPS	3/12/2019	Permit Sample	LEPS190312P	
LS-LEPS	3/19/2019	Permit Sample	LEPS190319P	
LS-LEPS	3/26/2019	Permit Sample	LEPS190326P	
LS-MH46N	1/17/2019	Monthly Characterization Sample	L46N190117M	
LS-MH46N	1/17/2019	QA/QC Sample	L46N190117D	
LS-MH46N	2/20/2019	Monthly Characterization Sample	L46N190220M	
LS-MH46N	3/6/2019	Monthly Characterization Sample	L46N190306M	
LS-MH5	1/17/2019	Special Investigation	LMH5190117I	
LS-MH5	2/19/2019	Special Investigation	LMH5190219I	
LS-MH5	3/6/2019	Special Investigation	LMH5190306I	
LS-PS1A	1/17/2019	Special Investigation	LP1A190117I	
LS-PS1A	2/19/2019	Special Investigation	LP1A190219I	
LS-PS1A	3/6/2019	Special Investigation	LP1A190306I	
LS-PS1A	3/6/2019	QA/QC Sample	LP1A190306D	
LS-PS2A	1/17/2019	Monthly Characterization Sample	LP2A190117M	
LS-PS2A	2/20/2019	Monthly Characterization Sample	LP2A190220M	
LS-PS2A	3/6/2019	Monthly Characterization Sample	LP2A190306M	
LS-PS4	1/17/2019	Special Investigation	LP4-190117I	
LS-PS4	2/19/2019	Special Investigation	LP4-190219I	
LS-PS4	3/6/2019	Special Investigation	LPS4190306I	
LS-V1A	2/20/2019	Monthly Characterization Sample	LV1A190220M	
LS-V1A	3/7/2019	Monthly Characterization Sample	LV1A190307M	

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019

Cedar Hills Landfill --Leachate Field Parameters

Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	pH (Field)	Conductance (Field)	Temperature
			(std. Units)	(umho/cm)	(° C)
LS-LIF	1/17/2019	LIF-190117M	8.35	1950	9.5
LS-LIF	2/20/2019	LIF-190220I	8.21	18991	22.1
LS-LIF	3/6/2019	LIF-190306I	8.29	21543	24.2
LS-CSW	1/17/2019	LCSW190117D	7.65	1827	7
LS-CSW	1/17/2019	LCSW190117I	7.65	1827	7
LS-CSW	2/20/2019	LCSW190219I	7.52	1265	3.9
LS-CSW	3/6/2019	LCSW190306I	7.71	3353	4.9
LS-LEPS	1/8/2019	LEPS190108P	7.53	1600	8
LS-LEPS	1/17/2019	LEPS190117M	7.97	1800	9.7
LS-LEPS	1/17/2019	LEPS190117P	7.97	1800	9.7
LS-LEPS	1/22/2019	LEPS190122P	8.35	3500	10.5
LS-LEPS	1/29/2019	LEPS190129P	8.19	4000	11.3
LS-LEPS	2/7/2019	LEPS190207P	9.21	7200	7.7
LS-LEPS	2/13/2019	LEPS190213P	8.27	6710	8.9
LS-LEPS	2/19/2019	LEPS190219M	8.61	6840	5.8
LS-LEPS	2/19/2019	LEPS190219P	8.61	6840	5.8
LS-LEPS	2/26/2019	LEPS190226P	8.58	5050	5.1
LS-LEPS	3/5/2019	LEPS190305P	8.73	5200	6.8
LS-LEPS	3/6/2019	LEPS190306M	8.59	6210	5.7
LS-LEPS	3/19/2019	LEPS190319P	8.52	6610	14.1
LS-LEPS	3/26/2019	LEPS190326P	8.67	6850	11.6
LS-MH46N	1/17/2019	L46N190117D	7.2	5600	22.2
LS-MH46N	1/17/2019	L46N190117M	7.2	5600	22.2
LS-MH46N	2/20/2019	L46N190220M	7.3	9940	22.2
LS-MH46N	3/6/2019	L46N190306M	7.18	9580	24.2
LS-MH5	1/17/2019	LMH5190117I	8.31	21174	25.7
LS-MH5	2/20/2019	LMH5190219I	8.41	20080	24.1
LS-MH5	3/6/2019	LMH5190306I	8.38	22125	23.8
LS-PS1A	1/17/2019	LP1A190117I	7.13	3256	14.8
LS-PS1A	2/20/2019	LP1A190219I	7.39	1438	10.7
LS-PS1A	3/6/2019	LP1A190306D	7.3	2631	12
LS-PS1A	3/6/2019	LP1A190306I	7.3	2631	12
LS-PS2A	1/17/2019	LP2A190117M	6.9	270	9.3
LS-PS2A	2/19/2019	LP2A190220M	7.64	113.7	7.3
LS-PS2A	3/6/2019	LP2A190306M	6.88	383.2	6.6
LS-PS4	1/17/2019	LP4-190117I	7.55	1087	13.3
LS-PS4	2/20/2019	LP4-190219I	7.26	799	9.8
LS-PS4	3/6/2019	LPS4190306I	7.66	1703	11.1
FIELD BLANK	2/20/2019	LIF-190220F	8.35	0.88	16

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill --Leachate Conventional Analytical Data  
 Contact Person: Sendy 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-LIF	1/17/2019	LIF-190117M	7800	1510	2090	5410 S	1960	5500	57000	0.019 ST	3 U	0.24 T
LS-LIF	2/20/2019	LIF-190220I	7040	1170	971	4840 S	1850				1 U	
LS-LIF	3/6/2019	LIF-190306I	4650	1170	384	3240 S	1470				0.4 U	0.33 T
LS-CSW	1/17/2019	LCSW190117D	671	69.9	819	1310	124				1 U	0.02 U
LS-CSW	1/17/2019	LCSW190117I	670	72	821	1310	124				1 U	0.02 U
LS-CSW	2/19/2019	LCSW190219I	387	43.4	733	1100	75.5				0.4 U	0.1 U
LS-CSW	3/6/2019	LCSW190306I	1100	149	1730	2650	242				0.4 U	0.12 T
LS-LEPS	1/17/2019	LEPS190117M	2010	338	305	1260	538	9700	250000	0.008 SU	0.33 T	38.3
LS-LEPS	2/19/2019	LEPS190219M	1930	344	171	1220 S	585	21000 H	64000 H	0.0081 ST	0.4 U	96.6
LS-LEPS	3/6/2019	LEPS190306M	2180	462	116	988	564	3900	26000	0.012 ST	0.4 U	30
LS-MH46N	1/17/2019	L46N190117D	3300	646	55.6	1860	1840	1 U	60	0.015 ST	3 U	0.1 U
LS-MH46N	1/17/2019	L46N190117M	3290	666	63	1890	1840	1 U	76	0.015 ST	3 U	0.1 U
LS-MH46N	2/20/2019	L46N190220M	3030	566	51.2	1670	1640	1 U	90 CU	0.0084 ST	2 U	0.1 U
LS-MH46N	3/6/2019	L46N190306M	2860	482	65.3	1520	1440	1 U	30	0.019 ST	1 T	8.48
LS-MH5	1/17/2019	LMH5190117I	8990	1630	1140	4960 S	2500				3 U	0.2 U
LS-MH5	2/19/2019	LMH5190219I	8750	1720	1030	4610 S	2470				1 U	0.2 U
LS-MH5	3/6/2019	LMH5190306I	9050	1570	1160	4690 S	2330				10 U	0.36 T
LS-PS1A	1/17/2019	LP1A190117I	1050	184	113	555	354				0.4 U	0.3 T
LS-PS1A	2/19/2019	LP1A190219I	122	81.4	40.7	235	152				0.1 U	0.976
LS-PS1A	3/6/2019	LP1A190306D	808	163	65.6	416	306				0.4 U	0.439
LS-PS1A	3/6/2019	LP1A190306I	808	165	68.2	420	306				0.2 U	0.447
LS-PS2A	1/17/2019	LP2A190117M	134	8.87	2 U	26	6.54	1 U	13	0.008 U	0.055 T	0.443
LS-PS2A	2/20/2019	LP2A190220M	39.1	1.3 T	4.38	23.5	2.38	1 U	50	0.008 SU	0.044 T	0.39 T
LS-PS2A	3/6/2019	LP2A190306M	101	14.4	3.36	45	28.3	1 U	5	0.008 U	0.077 T	0.953
LS-PS4	1/17/2019	LP4-190117I	403	59.9	25.3	143	89.5				0.2 U	0.96
LS-PS4	2/19/2019	LP4-190219I	283	35.4	118	178	64.1				0.1 T	0.769
LS-PS4	3/6/2019	LPS4190306I	515	90.2	154	366	131				0.2 U	0.471
FIELD BLANK	2/20/2019	LIF-190220F	1 U	0.002 U	2 U	5 U	0.05 U				0.02 U	

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill --Leachate Conventinals 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)	Volatile Suspended Solids (mg/L)
LS-LIF	1/17/2019	LIF-190117M	7.59	18700	22.6	0.406	7.9	1780 S	1910 S	31.5	3560	22.5
LS-LIF	2/20/2019	LIF-190220I		16800	19.8	1.16		1690 SU	1570 S	11.6	3420	8.44
LS-LIF	3/6/2019	LIF-190306I		12100	19	0.12		1170 S	1140 S	14	2080	13.5
LS-CSW	1/17/2019	LCSW190117D		1870	23.7	0.685		92.9	428	86	817 H	65
LS-CSW	1/17/2019	LCSW190117I		1870	23.9	0.654		92.2	422	91	812	64
LS-CSW	2/19/2019	LCSW190219I		1210	54.1	0.358		56.9	404	31.1	555	19.4
LS-CSW	3/6/2019	LCSW190306I		3200	50.5	0.703		176	902	58.7	1520	36
LS-LEPS	1/17/2019	LEPS190117M	0.652	5250	28.8	2.3 T	3.5 T	423	382	186	1080	162
LS-LEPS	2/19/2019	LEPS190219M	0.429	5500	31.2	2.2 T	2.5 T	396 S	326 S	176	1040	154
LS-LEPS	3/6/2019	LEPS190306M	0.0669	5830	30.9	1.8 T	3.1 T	454	211	292	1040	260
LS-MH46N	1/17/2019	L46N190117D	4.49	11500	5 U	1.09	4.2 T	711	606 S	1 T	1480	1 T
LS-MH46N	1/17/2019	L46N190117M	4.51	11500	5 U	1.01	3.5 T	754	644 S	0.51 U	1290	0.51 U
LS-MH46N	2/20/2019	L46N190220M	2.81	10300	1.3 T	1.54	3.7 T	626	793 S	0.5 U	1190	0.5 U
LS-MH46N	3/6/2019	L46N190306M	3.03	9830	26.4	1.28	2.4 T	581	465	4	1490	3.43
LS-MH5	1/17/2019	LMH5190117I		21600	13.4	1.5 T		1850 S	1510 S	45.5	3720	24
LS-MH5	2/19/2019	LMH5190219I		21000	18	2.68		1770 S	1450 S	202	3080	96
LS-MH5	3/6/2019	LMH5190306I		21600	18.3	1.42		1820 S	1500 S	11.3	3410	9.67
LS-PS1A	1/17/2019	LP1A190117I		3390	19.9	0.127		213	69	40	417	36
LS-PS1A	2/19/2019	LP1A190219I		385	11.5	0.0818		89.4	68	67.4	68.2	11.4
LS-PS1A	3/6/2019	LP1A190306D		2560	11.4	0.0976		170	129	42.6	300	14.6
LS-PS1A	3/6/2019	LP1A190306I		2570	10.9	0.0901		179	127	8	298	8
LS-PS2A	1/17/2019	LP2A190117M	0.0168	315	9.43	0.017 T	1.5 U	11	11.1	4.8	58.1	3.2
LS-PS2A	2/20/2019	LP2A190220M	0.014 T	110	9.62	0.023 T	1.7 T	2	8.78	6	34.1	3.4
LS-PS2A	3/6/2019	LP2A190306M	0.052	349	8.89	0.025 T	1.4 U	15.1	16.2	1.8	59.6	1.3
LS-PS4	1/17/2019	LP4-190117I		1150	17.3	0.084 T		67.3	54.7	20.2	196	10.6
LS-PS4	2/19/2019	LP4-190219I		796	12.1	0.0519		42.6	50.4	33.7	143	26.3
LS-PS4	3/6/2019	LPS4190306I		1480	13.5	0.148		93	111	32.5	346	29.8
FIELD BLANK	2/20/2019	LIF-190220F		1.2 T	0.1 U	0.01 U		0.1 U	0.5 U	0.5 U	10 U	0.5 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill ---Leachate Metals Analytical Data  
Contact Person: Sandy 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)
LS-LIF	1/17/2019	LIF-190117M	0.959	0.0199	0.299	0.284	0.001 U	0.0005 U	61.6	0.244
LS-LIF	2/20/2019	LIF-190220I	0.589	0.0144	0.242	0.261	0.001 U	0.0005 U	48.8	0.213
LS-LIF	3/6/2019	LIF-190306I	0.434	0.0162	0.227	0.242	0.001 U	0.0005 U	56	0.196
LS-CSW	1/17/2019	LCSW190117D	1.33	0.003 U	0.00616	0.0728	0.001 U	0.0005 U	124	0.0157
LS-CSW	1/17/2019	LCSW190117I	1.31	0.003 U	0.00602	0.0723	0.001 U	0.0005 U	125	0.0163
LS-CSW	2/19/2019	LCSW190219I	0.868	0.003 U	0.00425	0.0305	0.001 U	0.0005 U	97.1	0.0165
LS-CSW	3/6/2019	LCSW190306I	0.748	0.00379	0.00817	0.13	0.001 U	0.0005 U	195	0.0258
LS-LEPS	1/8/2019	LEPS190108P	1.14	0.00724	0.0742	0.0904	0.001 U	0.0005 U	49.3	0.0632
LS-LEPS	1/17/2019	LEPS190117P	0.761 J	0.00808	0.0869	0.0999	0.001 U	0.0005 U	59.9	0.0702
LS-LEPS	1/22/2019	LEPS190122P	0.586 J	0.00962	0.106	0.11	0.001 U	0.0005 U	46	0.0803
LS-LEPS	1/29/2019	LEPS190129P	0.874	0.00948	0.108	0.106	0.001 U	0.0005 U	42.3	0.0849
LS-LEPS	2/7/2019	LEPS190207P	0.757 J	0.00926	0.11	0.109	0.001 U	0.0005 U	45.5	0.0881
LS-LEPS	2/13/2019	LEPS190213P	1.29	0.00975	0.119	0.122	0.001 U	0.0005 U	43.4	0.0862
LS-LEPS	2/19/2019	LEPS190219P	0.921	0.00814	0.0927	0.101	0.001 U	0.0005 U	51.2	0.0754
LS-LEPS	2/26/2019	LEPS190226P	1.08	0.00859	0.0999	0.105	0.001 U	0.0005 U	44.1	0.08
LS-LEPS	3/5/2019	LEPS190305P	0.524	0.00841	0.0915	0.0939	0.001 U	0.0005 U	46.9	0.0719
LS-LEPS	3/6/2019	LEPS190306M	0.862	0.00855	0.0924	0.105	0.001 U	0.0005 U	49.9	0.0738
LS-LEPS	3/12/2019	LEPS190312P	1.05	0.00913	0.104	0.115	0.001 U	0.0005 U	59.4	0.081
LS-LEPS	3/19/2019	LEPS190319P	0.97	0.0109	0.109	0.102	0.001 U	0.0005 U	51.9	0.0838
LS-LEPS	3/26/2019	LEPS190326P	0.54	0.0107	0.11	0.102	0.001 U	0.0005 U	51.6	0.0815
LS-MH46N	1/17/2019	L46N190117D	0.05 U	0.003 U	0.0945	0.468	0.001 U	0.0005 U	79.9	0.11
LS-MH46N	1/17/2019	L46N190117M	0.05 U	0.003 U	0.0949	0.465	0.001 U	0.0005 U	80.1	0.11
LS-MH46N	2/20/2019	L46N190220M	0.05 U	0.003 U	0.0912	0.408	0.001 U	0.0005 U	73.3	0.109
LS-MH46N	3/6/2019	L46N190306M	0.102	0.003 U	0.0875	0.384	0.001 U	0.0005 U	78.3	0.0985
LS-MH5	1/17/2019	LMH5190117I	0.611	0.0159	0.315	0.424	0.001 U	0.0005 U	64.6	0.217
LS-MH5	2/19/2019	LMH5190219I	0.485	0.0142	0.285	0.397	0.001 U	0.0005 U	55.1	0.219
LS-MH5	3/6/2019	LMH5190306I	0.443	0.0125	0.301	0.418	0.001 U	0.0005 U	57.4	0.217
LS-PS1A	1/17/2019	LP1A190117I	0.124	0.00633	0.0516	0.103	0.001 U	0.0005 U	40.6	0.018
LS-PS1A	2/19/2019	LP1A190219I	0.536	0.00423	0.015	0.034	0.001 U	0.0005 U	18.8	0.00593
LS-PS1A	3/6/2019	LP1A190306D	0.159	0.00823	0.0413	0.0948	0.001 U	0.0005 U	31.6	0.0156
LS-PS1A	3/6/2019	LP1A190306I	0.164	0.0084	0.0409	0.0984	0.001 U	0.0005 U	32.5	0.0157
LS-PS2A	1/17/2019	LP2A190117M	0.0788	0.003 U	0.00151	0.0142	0.001 U	0.0005 U	28.6	0.002 U
LS-PS2A	2/20/2019	LP2A190220M	0.141	0.003 U	0.00219	0.00587	0.001 U	0.0005 U	11.8	0.00237
LS-PS2A	3/6/2019	LP2A190306M	0.0823	0.003 U	0.00144	0.0109	0.001 U	0.0005 U	10.8	0.00249
LS-PS4	1/17/2019	LP4-190117I	1.23	0.003 U	0.023	0.054	0.001 U	0.0005 U	35.3	0.011
LS-PS4	2/19/2019	LP4-190219I	0.535	0.003 U	0.0288	0.0377	0.001 U	0.0005 U	28	0.00611
LS-PS4	3/6/2019	LPS4190306I	0.153	0.0124	0.106	0.0484	0.001 U	0.0005 U	34.7	0.0118
FIELD BLANK	2/20/2019	LIF-190220F	0.05 U	0.003 U	0.0005 U	0.005 U	0.001 U	0.0005 U	0.5 U	0.002 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---Leachate Metals Analytical Data  
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Cobalt, total (mg/L)	Copper, total (mg/L)	Iron, total (mg/L)	Lead, total (mg/L)	Magnesium, total (mg/L)	Manganese, total (mg/L)	Mercury, total (mg/L)	Nickel, total (mg/L)
LS-LIF	1/17/2019	LIF-190117M	0.0507	0.00762	4.98	0.00276	89.6	0.515	0.0001 U	0.205
LS-LIF	2/20/2019	LIF-190220I	0.049	0.0059	7.22	0.00285	81.5	0.367	0.0001 U	0.203
LS-LIF	3/6/2019	LIF-190306I	0.0431	0.00737	5.52	0.00229	75.5	0.426	0.0001 U	0.185
LS-CSW	1/17/2019	LCSW190117D	0.00682	0.0142	4.95	0.00291	30.8	1.3	0.0001 U	0.029
LS-CSW	1/17/2019	LCSW190117I	0.00675	0.0145	4.86	0.00298	30.7	1.29	0.0001 U	0.0289
LS-CSW	2/19/2019	LCSW190219I	0.00867	0.00708	6.43	0.001 U	18.8	0.836	0.0001 U	0.0246
LS-CSW	3/6/2019	LCSW190306I	0.0096	0.0101	9.23	0.00171	48.8	1.71	0.0001 U	0.0498
LS-LEPS	1/8/2019	LEPS190108P	0.0135	0.0105	3.46	0.00204	27.5	0.533	0.0001 U	0.0544
LS-LEPS	1/17/2019	LEPS190117P	0.0154	0.00922	3.44	0.0019	32.3	0.642	0.0001 U	0.0623
LS-LEPS	1/22/2019	LEPS190122P	0.0176	0.00833	2.84	0.00184	34.8	0.52	0.0001 U	0.0717
LS-LEPS	1/29/2019	LEPS190129P	0.0175	0.00735 J	3.69	0.00185	35.1	0.461	0.0001 U	0.0723
LS-LEPS	2/7/2019	LEPS190207P	0.0193	0.00776	3.7	0.00195	36.4	0.529	0.0001 U	0.0789
LS-LEPS	2/13/2019	LEPS190213P	0.0205	0.0104	4.38	0.00256	37.1	0.569	0.0001 U	0.0821
LS-LEPS	2/19/2019	LEPS190219P	0.0173	0.01	4.14	0.00212	35.2	0.588	0.0001 U	0.0713
LS-LEPS	2/26/2019	LEPS190226P	0.0177	0.0114	4.25	0.00236	34.5	0.64	0.0001 U	0.0735
LS-LEPS	3/5/2019	LEPS190305P	0.0165	0.00929	3.68	0.00172	33.8	0.527	0.0001 U	0.0703
LS-LEPS	3/6/2019	LEPS190306M	0.0165	0.0111	4.36	0.00219	34.4	0.586	0.0001 U	0.0701
LS-LEPS	3/12/2019	LEPS190312P	0.0189	0.0112	5.26	0.00244	38.7	0.705	0.0001 U	0.0799
LS-LEPS	3/19/2019	LEPS190319P	0.0185	0.00997	5.14	0.00203	38.4	0.603	0.0001 U	0.0806
LS-LEPS	3/26/2019	LEPS190326P	0.0192	0.00854	4.42	0.00168	39.5	0.582	0.0001 U	0.0799
LS-MH46N	1/17/2019	L46N190117D	0.0349	0.002 U	2.41	0.001 U	50.8	0.412	0.0001 U	0.141
LS-MH46N	1/17/2019	L46N190117M	0.0351	0.002 U	2.45	0.001 U	49.2	0.412	0.0001 U	0.142
LS-MH46N	2/20/2019	L46N190220M	0.0329	0.002 U	2.3	0.001 U	46.7	0.398	0.0001 U	0.137
LS-MH46N	3/6/2019	L46N190306M	0.0298	0.00287	2.37	0.001 U	42.4	0.382	0.0001 U	0.123
LS-MH5	1/17/2019	LMH5190117I	0.0639	0.00469	4.52	0.00246	97.4	0.344	0.0001 U	0.254
LS-MH5	2/19/2019	LMH5190219I	0.0621	0.0047	4.03	0.0023	100	0.283	0.0001 U	0.261
LS-MH5	3/6/2019	LMH5190306I	0.0644	0.00618	4.22	0.00251	101	0.282	0.0001 U	0.276
LS-PS1A	1/17/2019	LP1A190117I	0.00868	0.00802	1.62	0.001 U	17.2	0.37	0.0001 U	0.0324
LS-PS1A	2/19/2019	LP1A190219I	0.00258	0.00828	0.755	0.001 U	7.41	0.182	0.0001 U	0.0106
LS-PS1A	3/6/2019	LP1A190306D	0.00756	0.00721	1.6	0.001 U	15	0.323	0.0001 U	0.027
LS-PS1A	3/6/2019	LP1A190306I	0.00756	0.00728	1.6	0.001 U	15.5	0.324	0.0001 U	0.0267
LS-PS2A	1/17/2019	LP2A190117M	0.000569	0.0158	0.862	0.001 U	7.19	0.196	0.0001 U	0.00649
LS-PS2A	2/20/2019	LP2A190220M	0.000625	0.0237	1.83	0.001 U	4.17	0.103	0.0001 U	0.00703
LS-PS2A	3/6/2019	LP2A190306M	0.00109	0.0236	0.739	0.001 U	4.79	0.165	0.0001 U	0.00834
LS-PS4	1/17/2019	LP4-190117I	0.00367	0.00845	2.87	0.00125	13.8	0.615	0.0001 U	0.0137
LS-PS4	2/19/2019	LP4-190219I	0.00198	0.00708	2.94	0.001 U	10.5	0.495	0.0001 U	0.00763
LS-PS4	3/6/2019	LPS4190306I	0.00383	0.0053	2.46	0.001 U	14.8	0.841	0.0001 U	0.0144
FIELD BLANK	2/20/2019	LIF-190220F	0.0005 U	0.002 U	0.1 U	0.001 U	0.5 U	0.001 U	0.0001 U	0.001 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill ---Leachate Metals Analytical Data  
Contact Person: Sindy Jimenez (206) 477-5224

Site	Date	Sample ID	Potassium, total (mg/L)	Selenium, total (mg/L)	Silver, total (mg/L)	Sodium, total (mg/L)	Thallium, total (mg/L)	Tin, total (mg/L)	Vanadium, total (mg/L)	Zinc, total (mg/L)
LS-LIF	1/17/2019	LIF-190117M	679	0.005 U	0.0004 U	1960	0.001 U	0.0339	0.0852	0.166
LS-LIF	2/20/2019	LIF-190220I	609	0.005 U	0.0004 U	1800	0.001 U	0.0353	0.0856	0.355
LS-LIF	3/6/2019	LIF-190306I	541	0.005 U	0.0004 U	1570	0.001 U	0.029	0.0711 D	0.247
LS-CSW	1/17/2019	LCSW190117D	70.7	0.005 U	0.0004 U	121	0.001 U	0.005 U	0.00706	0.377
LS-CSW	1/17/2019	LCSW190117I	69.4	0.005 U	0.0004 U	120	0.001 U	0.005 U	0.00686	0.376
LS-CSW	2/19/2019	LCSW190219I	44	0.005 U	0.0004 U	75.8	0.001 U	0.005 U	0.00422	0.59
LS-CSW	3/6/2019	LCSW190306I	116	0.005 U	0.0004 U	229	0.001 U	0.005 U	0.006 D	0.865
LS-LEPS	1/8/2019	LEPS190108P	154	0.005 U	0.0004 DU	427	0.001 U	0.00792	0.0216	0.16
LS-LEPS	1/17/2019	LEPS190117P	195	0.005 U	0.0004 U	523	0.001 U	0.00909	0.0236	0.147
LS-LEPS	1/22/2019	LEPS190122P	212	0.005 U	0.0004 U	602	0.001 U	0.00968	0.0276	0.113
LS-LEPS	1/29/2019	LEPS190129P	236	0.005 U	0.0004 U	639	0.001 U	0.0104	0.0277	0.138
LS-LEPS	2/7/2019	LEPS190207P	242	0.005 U	0.0004 U	674	0.001 U	0.0105	0.0295	0.143
LS-LEPS	2/13/2019	LEPS190213P	253	0.005 U	0.0004 U	705	0.001 U	0.00967	0.0312	0.161
LS-LEPS	2/19/2019	LEPS190219P	208	0.005 U	0.0004 U	592	0.001 U	0.00843	0.0256	0.209
LS-LEPS	2/26/2019	LEPS190226P	210	0.005 U	0.0004 U	601	0.001 U	0.00824	0.027	0.166
LS-LEPS	3/5/2019	LEPS190305P	205	0.005 U	0.0004 U	560	0.001 U	0.00788	0.0239 D	0.172
LS-LEPS	3/6/2019	LEPS190306M	206	0.005 U	0.0004 U	565	0.001 U	0.00825	0.0248 D	0.208
LS-LEPS	3/12/2019	LEPS190312P	226	0.005 U	0.0004 U	641	0.001 U	0.00713	0.0273	0.283
LS-LEPS	3/19/2019	LEPS190319P	222	0.005 U	0.0004 U	612	0.001 U	0.00919	0.0266	0.239
LS-LEPS	3/26/2019	LEPS190326P	232	0.005 U	0.0004 U	650	0.001 U	0.00878	0.0272	0.207
LS-MH46N	1/17/2019	L46N190117D	385	0.005 U	0.0004 U	1360	0.001 U	0.005 U	0.161	0.005 U
LS-MH46N	1/17/2019	L46N190117M	382	0.005 U	0.0004 U	1340	0.001 U	0.005 U	0.163	0.005 U
LS-MH46N	2/20/2019	L46N190220M	357	0.005 U	0.0004 U	1270	0.001 U	0.005 U	0.149	0.005 U
LS-MH46N	3/6/2019	L46N190306M	323	0.005 U	0.0004 U	1110	0.001 U	0.005 U	0.133 D	0.0192
LS-MH5	1/17/2019	LMH5190117I	760	0.005 U	0.0004 U	2470	0.001 U	0.0447	0.14	0.0944
LS-MH5	2/19/2019	LMH5190219I	729	0.005 U	0.0004 U	2360	0.001 U	0.0436	0.145	0.106
LS-MH5	3/6/2019	LMH5190306I	744	0.005 U	0.0004 U	2950 D	0.001 U	0.0419	0.145 D	0.12
LS-PS1A	1/17/2019	LP1A190117I	86.5	0.005 U	0.0004 U	303	0.001 U	0.005 U	0.023	0.0127
LS-PS1A	2/19/2019	LP1A190219I	24.3	0.005 U	0.0004 U	84.2	0.001 U	0.005 U	0.00796	0.00765
LS-PS1A	3/6/2019	LP1A190306D	74.6	0.005 U	0.0004 U	266	0.001 U	0.005 U	0.0179 D	0.00909
LS-PS1A	3/6/2019	LP1A190306I	76.8	0.005 U	0.0004 U	275	0.001 U	0.005 U	0.0178 D	0.00975
LS-PS2A	1/17/2019	LP2A190117M	7.29	0.005 U	0.0004 U	7.88	0.001 U	0.005 U	0.00192	0.0148
LS-PS2A	2/20/2019	LP2A190220M	1.76	0.005 U	0.0004 U	3.15	0.001 U	0.005 U	0.00346	0.0138
LS-PS2A	3/6/2019	LP2A190306M	9.13	0.005 U	0.0004 U	25.2	0.001 U	0.005 U	0.002 D	0.0132
LS-PS4	1/17/2019	LP4-190117I	34.2	0.005 U	0.0004 U	104	0.001 U	0.005 U	0.007	0.0339
LS-PS4	2/19/2019	LP4-190219I	20.4	0.005 U	0.0004 U	62.4	0.001 U	0.005 U	0.00311	0.0316
LS-PS4	3/6/2019	LPS4190306I	40.3	0.005 U	0.0004 U	122	0.001 U	0.005 U	0.00479 D	0.0249
FIELD BLANK	2/20/2019	LIF-190220F	1 U	0.005 U	0.0004 U	1 U	0.001 U	0.005 U	0.00075 U	0.005 U



Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill ---Leachate VOAs Analytical Data  
Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,1,1,2-Tetrachloro-ethane	1,1,1-Trichloro-ethane	1,1,2,2-Tetrachloro-ethane	1,1,2-Trichloro-ethane	1,1-Dichloro-ethane	1,1-Dichloro-ethene	1,1-Dichloro-propene	1,2,3-Trichloro-propane
			630-20-6 (ug/L)	71-55-6 (ug/L)	79-34-5 (ug/L)	79-00-5 (ug/L)	75-34-3 (ug/L)	75-35-4 (ug/L)	563-58-6 (ug/L)	96-18-4 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	2/19/2019	LEPS190219M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	3/6/2019	LEPS190306M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LIF	1/17/2019	LIF-190117M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	1/17/2019	L46N190117D	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	1/17/2019	L46N190117M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	2/20/2019	L46N190220M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-MH46N	3/6/2019	L46N190306M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	1/17/2019	LP2A190117M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	2/20/2019	LP2A190220M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	3/6/2019	LP2A190306M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	2/20/2019	LV1A190220M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	3/7/2019	LV1A190307M	2.5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
VOA TRIP BLANK	1/16/2019	VTRP190117Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill ---Leachate VOAs Analytical Data  
Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	1,2-Dibromo-3-Chloropropane	1,2-Dibromo-ethane	1,2-Dichloro-benzene	1,2-Dichloro-ethane	1,2-Dichloro-propane	1,3 Dichloro-benzene	1,3-Dichloro-propane	1,4-Dichloro-benzene
			96-12-8 (ug/L)	106-93-4 (ug/L)	95-50-1 (ug/L)	107-06-2 (ug/L)	78-87-5 (ug/L)	541-73-1 (ug/L)	142-28-9 (ug/L)	106-46-7 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	2/19/2019	LEPS190219M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LEPS	3/6/2019	LEPS190306M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-LIF	1/17/2019	LIF-190117M	25 U	1 U	1 U	1.86 JT	1 U	1 U	1 U	1.39 JT
LS-MH46N	1/17/2019	L46N190117D	25 U	1 U	2.04	1 U	1 U	1 U	1 U	8.48
LS-MH46N	1/17/2019	L46N190117M	25 U	1 U	2.05	1 U	1 U	1 U	1 U	8.75
LS-MH46N	2/20/2019	L46N190220M	25 U	1 U	2.6	1 U	1 U	1 U	1 U	10.8
LS-MH46N	3/6/2019	L46N190306M	25 U	1 U	3.14	1 U	1 U	1 U	1 U	13.4
LS-PS2A	1/17/2019	LP2A190117M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	2.48
LS-PS2A	2/20/2019	LP2A190220M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-PS2A	3/6/2019	LP2A190306M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1.01 JT
LS-V1A	2/20/2019	LV1A190220M	25 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
LS-V1A	3/7/2019	LV1A190307M	25 U	1 U	1 U	1.4 JT	1 U	1 U	1 U	1.6 JT
VOA TRIP BLANK	1/16/2019	VTRP190117Y	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	2.5 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
Cedar Hills Landfill ---Leachate VOAs Analytical Data  
Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	2,2-Dichloro- propane	2-Butanone	2-Hexanone	2-Methyl-1- propanol	3-Chloro- propene	4-Methyl-2- Pentanone	Acetone	Acetonitrile
			594-20-7 (ug/L)	78-93-3 (ug/L)	591-78-6 (ug/L)	78-83-1 (ug/L)	107-05-1 (ug/L)	108-10-1 (ug/L)	67-64-1 (ug/L)	75-05-8 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	1 U	590	5 U	50 U	1 U	25 U	802	50 U
LS-LEPS	2/19/2019	LEPS190219M	1 U	382	5 U	50 U	1 U	25 U	406	50 U
LS-LEPS	3/6/2019	LEPS190306M	1 U	2.5 U	5 U	50 U	1 U	25 U	25 U	50 U
LS-LIF	1/17/2019	LIF-190117M	1 U	3150 D	8.39 JT	68.7 JT	1 U	37.7 JT	3660 D	79.4 JT
LS-MH46N	1/17/2019	L46N190117D	1 U	2.5 U	5 U	50 U	1 U	25 U	25 U	50 U
LS-MH46N	1/17/2019	L46N190117M	1 U	3.19 JT	5 U	50 U	1 U	25 U	25 U	50 U
LS-MH46N	2/20/2019	L46N190220M	1 U	2.5 U	5 U	50 U	1 U	25 U	25 U	50 U
LS-MH46N	3/6/2019	L46N190306M	1 U	2.5 U	5 U	50 U	1 U	25 U	25 U	50 U
LS-PS2A	1/17/2019	LP2A190117M	1 U	37.5	5 U	50 U	1 U	25 U	25 U	50 U
LS-PS2A	2/20/2019	LP2A190220M	1 U	16.9	5 U	50 U	1 U	25 U	25 U	50 U
LS-PS2A	3/6/2019	LP2A190306M	1 U	2.5 U	5 U	50 U	1 U	25 U	25 U	50 U
LS-V1A	2/20/2019	LV1A190220M	1 U	1060	5 U	50 U	1 U	25 U	1360	50 U
LS-V1A	3/7/2019	LV1A190307M	1 U	2480 D	6.58 JT	59.2 JLT	1 U	29.8 JT	2870 D	56.9 JT
VOA TRIP BLANK	1/16/2019	VTRP190117Y	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	0.1 U	0.25 U	0.5 U	5 U	0.1 U	2.5 U	2.5 U	5 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---Leachate VOAs Analytical Data  
 Contact Person: Sendy Jimenez (206) 477-5224

Site	Date	Sample ID	Acrolein	Acrylonitrile	Benzene	Bromochloro- methane	Bromodichloro- methane	Bromoform	Bromo- methane	Carbon Disulfide
			107-02-8 (ug/L)	107-13-1 (ug/L)	71-43-2 (ug/L)	74-97-5 (ug/L)	75-27-4 (ug/L)	75-25-2 (ug/L)	74-83-9 (ug/L)	75-15-0 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-LEPS	2/19/2019	LEPS190219M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-LEPS	3/6/2019	LEPS190306M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-LIF	1/17/2019	LIF-190117M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-MH46N	1/17/2019	L46N190117D	25 U	0.35 U	3.52	1 U	2.5 U	5 U	1 U	1 U
LS-MH46N	1/17/2019	L46N190117M	25 U	0.35 U	3.51	1 U	2.5 U	5 U	1 U	1 U
LS-MH46N	2/20/2019	L46N190220M	25 U	0.35 U	4.55	1 U	2.5 U	5 U	1 U	1 U
LS-MH46N	3/6/2019	L46N190306M	25 U	0.35 U	4.42	1 U	2.5 U	5 U	1 U	1 U
LS-PS2A	1/17/2019	LP2A190117M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-PS2A	2/20/2019	LP2A190220M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-PS2A	3/6/2019	LP2A190306M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-V1A	2/20/2019	LV1A190220M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
LS-V1A	3/7/2019	LV1A190307M	25 U	0.35 U	1 U	1 U	2.5 U	5 U	1 U	1 U
VOA TRIP BLANK	1/16/2019	VTRP190117Y	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	2.5 U	0.035 U	0.1 U	0.1 U	0.25 U	0.5 U	0.1 U	0.1 U

Environmental Monitoring Data

Data Collected from January 1, 2019 to March 31, 2019  
 Cedar Hills Landfill ---Leachate VOAs Analytical Data  
 Contact Person: Sandy Jimenez (206) 477-5224

Site	Date	Sample ID	Carbon Tetrachloride	Chloro- benzene	Chloro-dibromo- methane	Chloroethane	Chloroform	Chloro- methane	Chloroprene	cis-1,2-Dichloro- ethene
			56-23-5 (ug/L)	108-90-7 (ug/L)	124-48-1 (ug/L)	75-00-3 (ug/L)	67-66-3 (ug/L)	74-87-3 (ug/L)	126-99-8 (ug/L)	156-59-2 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-LEPS	2/19/2019	LEPS190219M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-LEPS	3/6/2019	LEPS190306M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-LIF	1/17/2019	LIF-190117M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1.12 JT
LS-MH46N	1/17/2019	L46N190117D	2.5 U	1.97 JT	5 U	1 U	1 U	2.5 U	1 U	2.77
LS-MH46N	1/17/2019	L46N190117M	2.5 U	2	5 U	1 U	1 U	2.5 U	1 U	2.83
LS-MH46N	2/20/2019	L46N190220M	2.5 U	2.58	5 U	1 U	1 U	2.5 U	1 U	2.79
LS-MH46N	3/6/2019	L46N190306M	2.5 U	2.87	5 U	1 U	1 U	2.5 U	1 U	2.56
LS-PS2A	1/17/2019	LP2A190117M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-PS2A	2/20/2019	LP2A190220M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-PS2A	3/6/2019	LP2A190306M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-V1A	2/20/2019	LV1A190220M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1 U
LS-V1A	3/7/2019	LV1A190307M	2.5 U	1 U	5 U	1 U	1 U	2.5 U	1 U	1.13 JT
VOA TRIP BLANK	1/16/2019	VTRP190117Y	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	0.25 U	0.1 U	0.5 U	0.1 U	0.1 U	0.25 U	0.1 U	0.1 U

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 Cedar Hills Landfill ---Leachate VOAs Analytical Data  
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Site	Date	Sample ID	cis-1,3-Dichloro- propene	Dibromo-methane	Dichloro-difluoro- methane	Ethylbenzene	m & p Xylenes	Methyl Iodide	Methyl Methacrylate
			10061-01-5 (ug/L)	74-95-3 (ug/L)	75-71-8 (ug/L)	100-41-4 (ug/L)	mpx (ug/L)	74-88-4 (ug/L)	80-62-6 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	2.5 U	1 U	1 U	1 U	1.12 JT	1 U	2.5 U
LS-LEPS	2/19/2019	LEPS190219M	2.5 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LEPS	3/6/2019	LEPS190306M	2.5 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-LIF	1/17/2019	LIF-190117M	2.5 U	1 U	1 U	2.29	5.16	1 U	2.5 U
LS-MH46N	1/17/2019	L46N190117D	2.5 U	1 U	1 U	37.2	54.5	1 U	2.5 U
LS-MH46N	1/17/2019	L46N190117M	2.5 U	1 U	1 U	38.2	56.2	1 U	2.5 U
LS-MH46N	2/20/2019	L46N190220M	2.5 U	1 U	1 U	45.9	67.5	1 U	2.5 U
LS-MH46N	3/6/2019	L46N190306M	2.5 U	1 U	1 U	54.4	79.9	1 U	2.5 U
LS-PS2A	1/17/2019	LP2A190117M	2.5 U	1 U	1 U	1.23 JT	5.06	1 U	2.5 U
LS-PS2A	2/20/2019	LP2A190220M	2.5 U	1 U	1 U	1 U	1 U	1 U	2.5 U
LS-PS2A	3/6/2019	LP2A190306M	2.5 U	1 U	1 U	1.2 JT	1.26 JT	1 U	2.5 U
LS-V1A	2/20/2019	LV1A190220M	2.5 U	1 U	1 U	1.64 JT	3.68	1 U	2.5 U
LS-V1A	3/7/2019	LV1A190307M	2.5 U	1 U	1 U	2.62	5.95	1 U	2.5 U
VOA TRIP BLANK	1/16/2019	VTRP190117Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	0.25 U	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U	0.25 U

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Site	Date	Sample ID	Methylacrylo-nitrile	Methylene Chloride	o-Xylene	Propionitrile	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloro-ethene
			126-98-7 (ug/L)	75-09-2 (ug/L)	95-47-6 (ug/L)	107-12-0 (ug/L)	100-42-5 (ug/L)	127-18-4 (ug/L)	108-88-3 (ug/L)	156-60-5 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	1 U	25 U	1 U	5 U	1 U	1 U	2.31	1 U
LS-LEPS	2/19/2019	LEPS190219M	1 U	25 U	1 U	5 U	1 U	1 U	2.29	1 U
LS-LEPS	3/6/2019	LEPS190306M	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U
LS-LIF	1/17/2019	LIF-190117M	1 U	25 U	2.99	5 U	1 U	1 U	8.89	1 U
LS-MH46N	1/17/2019	L46N190117D	1 U	25 U	6.86	5 U	1.09 JT	1 U	5.47	1 U
LS-MH46N	1/17/2019	L46N190117M	1 U	25 U	6.92	5 U	1.09 JT	1 U	5.54	1 U
LS-MH46N	2/20/2019	L46N190220M	1 U	25 U	4.83	5 U	1.4 JT	1 U	5.34	1 U
LS-MH46N	3/6/2019	L46N190306M	1 U	25 U	4.73	5 U	1.6 T	1 U	5.44	1 U
LS-PS2A	1/17/2019	LP2A190117M	1 U	25 U	2.96	5 U	1 U	1 U	2.35	1 U
LS-PS2A	2/20/2019	LP2A190220M	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U
LS-PS2A	3/6/2019	LP2A190306M	1 U	25 U	1 U	5 U	1 U	1 U	1 U	1 U
LS-V1A	2/20/2019	LV1A190220M	1 U	25 U	1.86 JT	5 U	1 U	1 U	5.56	1 U
LS-V1A	3/7/2019	LV1A190307M	1 U	25 U	3.24	5 U	1 U	1 U	10.5	1 U
VOA TRIP BLANK	1/16/2019	VTRP190117Y	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U
VOA TRIP BLANK	3/6/2019	VTRP190307Y	0.1 U	2.5 U	0.1 U	0.5 U	0.1 U	0.1 U	0.1 U	0.1 U

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Site	Date	Sample ID	trans-1,3-Dichloro- propene	trans-1,4-Dichloro-2- butene	Trichloro- ethene	Trichloro-fluoro- methane	Vinyl Acetate	Vinyl Chloride
			10061-02-6 (ug/L)	110-57-6 (ug/L)	79-01-6 (ug/L)	75-69-4 (ug/L)	108-05-4 (ug/L)	75-01-4 (ug/L)
LS-LEPS	1/17/2019	LEPS190117M	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	2/19/2019	LEPS190219M	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-LEPS	3/6/2019	LEPS190306M	5 U	5 U	1 U	1 U	1 U	0.1 DU
LS-LIF	1/17/2019	LIF-190117M	5 U	5 U	1 U	1 U	1 U	0.134 DJT
LS-MH46N	1/17/2019	L46N190117D	5 U	5 U	1 U	1 U	1 U	6.45
LS-MH46N	1/17/2019	L46N190117M	5 U	5 U	1 U	1 U	1 U	6.45
LS-MH46N	2/20/2019	L46N190220M	5 U	5 U	1 U	1 U	1 U	7.09
LS-MH46N	3/6/2019	L46N190306M	5 U	5 U	1 U	1 U	1 U	7.74 D
LS-PS2A	1/17/2019	LP2A190117M	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	2/20/2019	LP2A190220M	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-PS2A	3/6/2019	LP2A190306M	5 U	5 U	1 U	1 U	1 U	0.1 DU
LS-V1A	2/20/2019	LV1A190220M	5 U	5 U	1 U	1 U	1 U	0.1 U
LS-V1A	3/7/2019	LV1A190307M	5 U	5 U	1 U	1 U	1 U	0.131 DJT
VOA TRIP BLANK	1/16/2019	VTRP190117Y	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/11/2019	VTRP190117Y2	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	1/14/2019	VTRP190118X2	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	2/19/2019	VTRP190219X2	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	2/19/2019	VTRP190220Y	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 U
VOA TRIP BLANK	3/5/2019	VTRP190306Y	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU
VOA TRIP BLANK	3/6/2019	VTRP190307Y	0.5 U	0.5 U	0.1 U	0.1 U	0.1 U	0.01 DU



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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	AROCLOR 1221
			93-76-5	93-72-1	94-75-7	72-54-8	72-55-9	50-29-3	309-00-2	319-84-6	5103-71-9	12674-11-2	11104-28-2
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LIF	1/17/2019	LIF-190117M	0.5 U	2.5 U	2 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.3 U
LS-LEPS	1/17/2019	LEPS190117M	0.5 U	0.5 U	1 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U
LS-LEPS	2/19/2019	LEPS190219M	0.5 U	0.832	1 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U
LS-LEPS	3/6/2019	LEPS190306M	0.5 U	0.5 U	1 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U
LS-MH46N	1/17/2019	L46N190117D	0.5 U	1.18	3.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.0756 J
LS-MH46N	1/17/2019	L46N190117M	0.5 U	1.36	3.5 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.0716 J
LS-MH46N	2/20/2019	L46N190220M	0.5 U	1.02	1.25	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.1 U
LS-MH46N	3/6/2019	L46N190306M	0.5 U	1.02	1.66	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0273 J	0.025 U	0.1 U
LS-PS2A	1/17/2019	LP2A190117M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U
LS-PS2A	2/20/2019	LP2A190220M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U
LS-PS2A	3/6/2019	LP2A190306M	0.5 U	0.5 U	1 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.025 U	0.025 U

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Site	Date	Sample ID	AROCLOR	AROCLOR	AROCLOR	AROCLOR	AROCLOR	BETA BHC	DELTA	DIELDRIN	DINOSEB	ENDOSULFAN I	ENDOSULFAN II
			1232	1242	1248	1254	1260		BHC	BHC		sulfan I	sulfan II
			11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	319-85-7	319-86-8	60-57-1	88-85-7	959-98-8	33213-65-9
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LIF	1/17/2019	LIF-190117M	0.025 U	0.176	0.025 U	0.0891 J	0.025 U	0.0756 GJ	0.0298 GJ	0.025 U	0.5 U	0.025 U	0.025 U
LS-LEPS	1/17/2019	LEPS190117M	0.025 U	0.0375	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 GU	0.025 U	0.5 U	0.025 U	0.025 U
LS-LEPS	2/19/2019	LEPS190219M	0.025 U	0.0368	0.025 U	0.025 U	0.025 U	0.0317 G	0.025 GU	0.025 U	0.5 U	0.025 U	0.025 U
LS-LEPS	3/6/2019	LEPS190306M	0.025 U	0.0301	0.025 U	0.025 U	0.025 U	0.025 U	0.025 GU	0.025 U	0.5 U	0.025 U	0.025 U
LS-MH46N	1/17/2019	L46N190117D	0.025 U	0.189	0.025 U	0.025 U	0.025 U	0.0316 J	0.02 U	0.0243 J	0.5 U	0.01 U	0.01 U
LS-MH46N	1/17/2019	L46N190117M	0.025 U	0.177	0.025 U	0.025 U	0.025 U	0.0313 J	0.02 U	0.0209 J	0.5 U	0.01 U	0.01 U
LS-MH46N	2/20/2019	L46N190220M	0.025 U	0.213	0.025 U	0.025 U	0.025 U	0.0149 J	0.01 U	0.01 U	0.5 U	0.02 U	0.01 U
LS-MH46N	3/6/2019	L46N190306M	0.025 U	0.208	0.025 U	0.025 U	0.025 U	0.0355 J	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U
LS-PS2A	1/17/2019	LP2A190117M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U
LS-PS2A	2/20/2019	LP2A190220M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U
LS-PS2A	3/6/2019	LP2A190306M	0.025 U	0.025 U	0.025 U	0.025 U	0.025 U	0.01 U	0.01 U	0.01 U	0.5 U	0.01 U	0.01 U

Environmental Monitoring Data

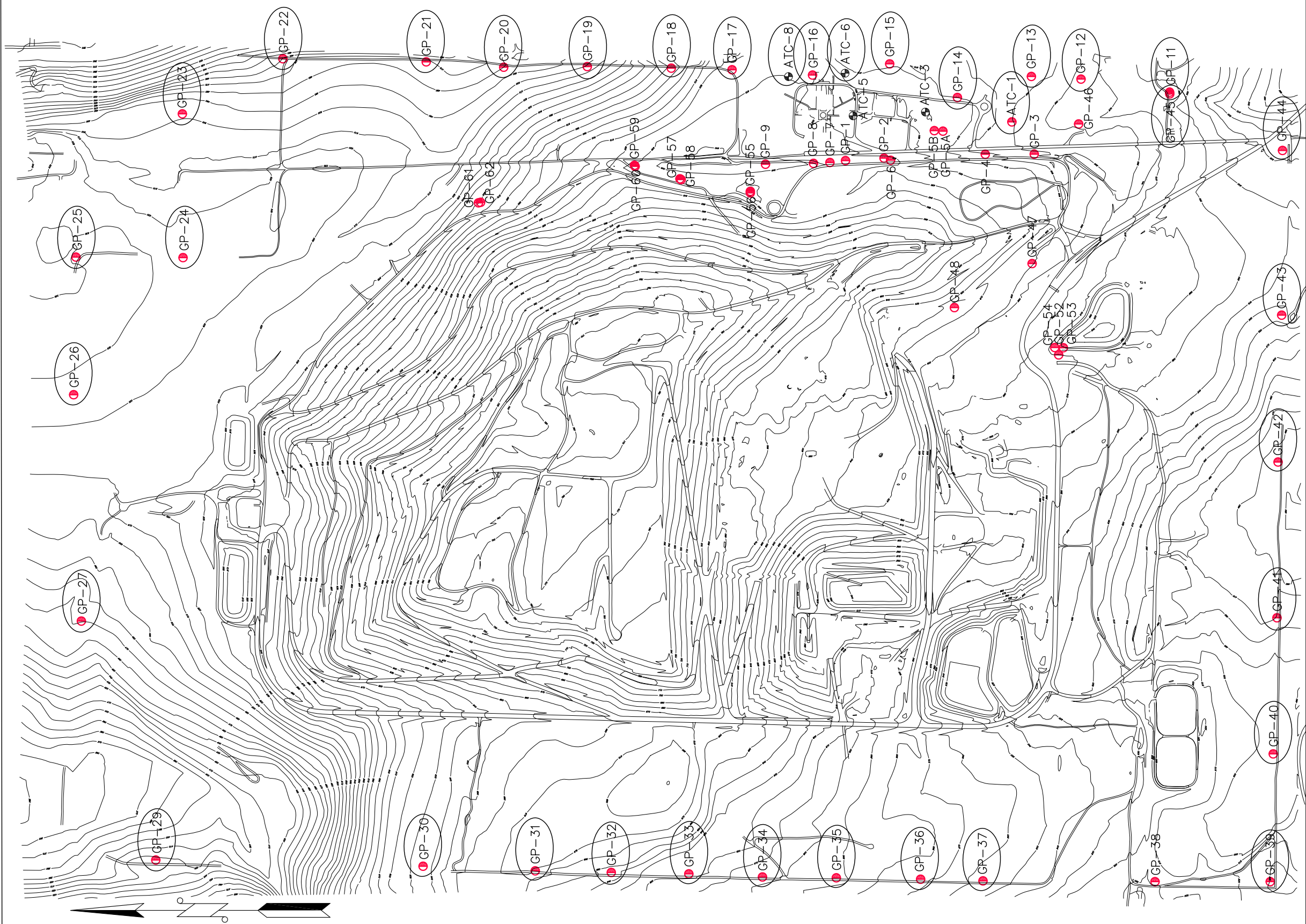
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Site	Date	Sample ID	ENDOSULFAN SULFATE	ENDRIN	ENDRIN ALDEHYDE	HEPTACHLOR	HEPTACHLOR EPOXIDE	ISODRIN	LINDANE (GAMMA BHC)	METHOXYCHLOR	Total Aroclors	TOXAPHENE	trans- Chlordane
			Sulfate		Aldehyde		Epoxide			chlor			
			1031-07-8	72-20-8	7421-93-4	76-44-8	1024-57-3	465-73-6	58-89-9	72-43-5	T_ AROCL OR	8001-35-2	5103-74-2
			ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
LS-LIF	1/17/2019	LIF-190117M	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U	0.2651	2.5 U	0.025 GU
LS-LEPS	1/17/2019	LEPS190117M	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U	0.0375	2.5 U	0.025 GU
LS-LEPS	2/19/2019	LEPS190219M	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 GU	0.125 U	0.0368	2.5 U	0.025 GU
LS-LEPS	3/6/2019	LEPS190306M	0.025 U	0.025 U	0.025 GU	0.025 U	0.025 U	0.025 U	0.025 U	0.125 U	0.0301	2.5 U	0.025 GU
LS-MH46N	1/17/2019	L46N190117D	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0404	0.05 U	0.2646	1 U	0.01 U
LS-MH46N	1/17/2019	L46N190117M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0341	0.05 U	0.2486	1 U	0.01 U
LS-MH46N	2/20/2019	L46N190220M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.0242 J	0.05 U	0.213	1 U	0.01 U
LS-MH46N	3/6/2019	L46N190306M	0.01 U	0.01 U	0.0105	0.01 U	0.01 U	0.01 U	0.0277 J	0.05 U	0.208	1 U	0.01 U
LS-PS2A	1/17/2019	LP2A190117M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-PS2A	2/20/2019	LP2A190220M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U
LS-PS2A	3/6/2019	LP2A190306M	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.025 U	1 U	0.01 U

## Landfill Gas Monitoring Data

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## Compliance Probes



- LEGEND**
- INTERIOR LFG MONITORING PROBES
  - LFG MIGRATION MONITORING PROBES

GP-61	172389.358	1701669.133	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	171373.815	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	171070.016	1701820.583	637.56	640.345	639.81	GP58 TOP LID
GP-56	170619.58	1701733.666	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	1,701,985.28	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	640.66	GP-7 CASE EL	1988
170,208.37	1,701,925.10	642.67	GP8 CASE EL	1988
170,519.95	1,701,919.34	645.27	GP-9 CASE EL	1988
			GP-10 NOT INSTALLED	1988
167,890.09	1,702,389.27	567.15	GP-11 CASE EL	1988
168,466.64	1,702,473.27	568.08	GP-12 CASE EL	1988
168,790.03	1,702,490.84	588.15	GP-13 CASE EL	1988
169,271.56	1,702,354.75	613.32	GP-14 CASE EL	1988
169,724.93	1,702,446.19	618.75	GP-15 CASE EL	1988
170,214.28	1,702,500.56	630.19	GP-16 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
171,634.52	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	1,702,584.65	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	1,701,311.74	544.72	GP-24 CASE EL	1988
175,011.63	1,701,324.89	533.86	GP-25 CASE EL	1988
175,043.82	1,700,364.55	541.69	GP-26 CASE EL	1988
174,983.78	1,698,935.68	484.75	GP-27 CASE EL	1988
			GP-28 NOT INSTALLED	1988
174,455.39	1,697,385.67	431.05	GP-29 CASE EL	1988
172,787.40	1,697,339.61	644.62	GP-30 CASE EL	1988
172,013.96	1,697,321.72	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	1,697,265.94	574.92	GP-36 CASE EL	1988
169,049.03	1,697,252.08	557.38	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	1,699,979.90	457.95	GP-42 CASE EL	1988
167,160.00	1,700,961.11	536.86	GP-43 CASE EL	1988
167,135.28	1,702,007.20	529.11	GP-44 CASE EL	1994
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	1,700,985.98	616.56	GP-48 CASE EL	1994
168,612.91	1,700,710.62	561.13	GP-52 GRND EL	2001
168,601.99	1,700,711.34	561.02	GP-53 GRND EL	2001
168,617.89	1,700,717.53	561.20	GP-54 GRND EL	2001
168,916.92	1,702,195.87	591.29	GP-ATC-1 GRND EL	1985/86
169,479.79	1,702,259.97	616.25	GP-ATC-3 GRND EL	1985/86
			GP-ATC-4 ABANDONED/REMOVED	
169,950.42	1,702,235.30	625.65	GP-ATC-5 GRND EL	1985/86
170,002.70	1,702,512.99	620.16	GP-ATC-6 GRND EL	1985/86
170,371.26	1,702,490.56	629.94	GP-ATC-8 GRND EL	1985/86



KING COUNTY DEPARTMENT OF  
NATURAL RESOURCES AND PARKS  
**SOLID WASTE DIVISION**

CEDAR HILLS REGIONAL LANDFILL  
LANDFILL GAS MIGRATION MONITORING PLAN

APPROVED VICTOR O. OKEREKE DATE 03-27-08  
RECOMMENDED TOM THENO DATE 03-27-08  
DESIGNED N/A DRAWN PHAM / McEWEN  
PROJECT NO. \_\_\_\_\_ SURVEY NO. \_\_\_\_\_ SHEET 1 OF 1

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**January 2019 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	1/24/19 9:11 AM	0	0.4	10.1	0	-0.56	None
ATC-1S	1/24/19 9:10 AM	0	0.1	20.6	0	1.56	None
ATC-6D	1/24/19 10:38 AM	0	0.9	4.4	0	0.8	None
ATC-6S	1/24/19 10:36 AM	0	0.1	20.3	0	0.14	None
ATC-8D	1/24/19 10:27 AM	0	0.1	20	0	-5.98	None
ATC-8S	1/24/19 10:25 AM	0	0.3	17.9	0	-2.55	None
GP-25	1/24/19 2:18 PM	0	2.6	14.3	0	-0.05	None
GP-26	1/24/19 2:22 PM	0	0.8	18.1	0	0.07	None
GP-27	1/24/19 2:26 PM	0	7.2	8.8	0	-0.05	None
GP-39	1/24/19 8:09 AM	1	1.1	17.7	20	-0.03	None
GP-40	1/24/19 8:13 AM	0	0.1	20.1	0	-0.04	None
GP-11A	1/24/19 8:52 AM	0	0	0	0	0	NRH20
GP-11B	1/24/19 8:59 AM	0	0.1	20.8	0	-0.98	None
GP-11C	1/24/19 9:01 AM	0	0.1	20.8	0	-0.84	None
GP-11D	1/24/19 9:02 AM	0	0.1	20.7	0	0	None
GP-12A	1/24/19 9:26 AM	0	0.1	20.9	0	-0.02	None
GP-12B	1/24/19 9:27 AM	0	0.1	20.9	0	-0.07	None
GP-12C	1/24/19 9:29 AM	0	0.1	19.3	0	-0.02	None
GP-12D	1/24/19 9:31 AM	0	0.1	20.9	0	-5.65	None
GP-13A	1/24/19 9:16 AM	0	0.1	20.7	0	-0.04	None
GP-13B	1/24/19 9:18 AM	0	0.1	20.9	0	0.01	None
GP-13C	1/24/19 9:20 AM	0	0.1	21	0	-0.04	None
GP-13D	1/24/19 9:21 AM	0	0.1	21	0	-4.71	None
GP-14A	1/24/19 9:37 AM	0	0.1	20.9	0	-1.62	None
GP-14B	1/24/19 9:39 AM	0	0.1	20.9	0	-1.72	None
GP-15A	1/24/19 10:11 AM	0	0	0	0	0	NRH20
GP-15C	1/24/19 10:16 AM	0	0.1	20.3	0	0.43	None
GP-15D	1/24/19 10:17 AM	0	0.1	20.3	0	-2.56	None
GP-16A	1/24/19 10:30 AM	0	0.1	20.2	0	-2.59	None
GP-16B	1/24/19 10:32 AM	0	0.1	20.2	0	-4.64	None
GP-16C	1/24/19 10:33 AM	0	0.1	20.3	0	-5.13	None
GP-17A	1/24/19 1:27 PM	0	0	0	0	0	NRH20
GP-17B	1/24/19 1:29 PM	0	0.8	14.5	0	-0.03	None
GP-17C	1/24/19 1:31 PM	0	0.1	19.9	0	-4.57	None
GP-18A	1/24/19 1:34 PM	0	0	0	0	0	NRH20
GP-18B	1/24/19 1:36 PM	0	0.3	11.4	0	0.24	None
GP-18C	1/24/19 1:37 PM	0	0.1	20.1	0	-4.63	None
GP-19A	1/24/19 1:40 PM	0	0.1	20.3	0	-0.02	None
GP-19B	1/24/19 1:42 PM	0	0.6	15.1	0	-0.03	None
GP-19C	1/24/19 1:43 PM	0	0.1	20.4	0	-0.42	None
GP-20A	1/24/19 1:46 PM	0	0.1	20.6	0	1.81	None
GP-20B	1/24/19 1:48 PM	0	0.2	19.9	0	0	None
GP-20C	1/24/19 1:49 PM	0	0.2	9.2	0	0.3	None
GP-21A	1/24/19 1:53 PM	0	0.1	20.5	0	-0.18	None
GP-21B	1/24/19 1:54 PM	0	0.1	11	0	-0.05	None
GP-21C	1/24/19 1:55 PM	0	0	0	0	0	NRH20



**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**January 2019 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-22A	1/24/19 1:59 PM	0	0.8	19.3	0	0.23	None
GP-22C	1/24/19 2:01 PM	0	0.8	3	0	-5.47	None
GP-23A	1/24/19 2:06 PM	0	0.1	20.5	0	1.55	None
GP-23B	1/24/19 2:07 PM	0	0.1	20.8	0	0.3	None
GP-23C	1/24/19 2:09 PM	0	0.1	20.9	0	0.44	None
GP-24A	1/24/19 2:14 PM	0	0.1	20.9	0	0.35	None
GP-24B	1/24/19 2:15 PM	0	2.6	14.4	0	-0.01	None
GP-29A	1/24/19 2:31 PM	0	1.9	17.5	0	-0.1	None
GP-29B	1/24/19 2:32 PM	0	0.5	20.7	0	-0.08	None
GP-30A	1/24/19 6:47 AM	0	2.3	17.4	0	0.14	None
GP-30B	1/24/19 6:48 AM	0	0.4	19.3	0	-1.42	None
GP-31A	1/24/19 6:54 AM	0	0	0	0	0	NRH20
GP-31B	1/24/19 6:56 AM	0	0.2	19	0	-0.76	None
GP-31C	1/24/19 6:58 AM	0	0.1	20	0	0.05	None
GP-32A	1/24/19 7:22 AM	0	0.5	20.4	0	-0.06	None
GP-32B	1/24/19 7:24 AM	0	0.4	20.1	0	0.42	None
GP-32C	1/24/19 7:31 AM	0	0.1	20.5	0	0	None
GP-33A	1/24/19 7:35 AM	0	0.1	20.4	0	-0.02	None
GP-33B	1/24/19 7:37 AM	0	0.1	20.5	0	0.52	None
GP-33C	1/24/19 7:38 AM	0	0.1	20.6	0	-2.27	None
GP-34A	1/24/19 7:41 AM	0	0	0	0	0	NRH20
GP-34B	1/24/19 7:43 AM	0	0.1	20.7	0	-0.67	None
GP-34C	1/24/19 7:45 AM	0	0.1	20.7	0	-4.97	None
GP-35A	1/24/19 7:48 AM	0	0.3	20.5	0	-1.53	None
GP-35B	1/24/19 7:50 AM	0	0.1	20.5	0	-0.06	None
GP-35C	1/24/19 7:51 AM	0	0.1	20.7	0	-0.12	None
GP-36A	1/24/19 7:55 AM	0	0.1	20.9	0	-0.73	None
GP-36B	1/24/19 7:56 AM	0	0	0	0	0	NRH20
GP-36C	1/24/19 7:58 AM	0	0.3	17.5	0	-4.13	None
GP-37A	1/24/19 8:01 AM	0	0	0	0	0	NRH20
GP-37B	1/24/19 8:02 AM	0	0.1	20.3	0	0.52	None
GP-37C	1/24/19 8:03 AM	0	0.5	6.2	0	-4.61	None
GP-41A	1/24/19 8:17 AM	0	0.1	20.8	0	-0.1	None
GP-41B	1/24/19 8:19 AM	0	0.1	20.8	0	0.24	None
GP-41C	1/24/19 8:20 AM	0	0.1	20.8	0	-0.02	None
GP-42A	1/24/19 8:23 AM	0	0	0	0	0	NRH20
GP-42B	1/24/19 8:26 AM	0	0.6	18.6	0	0.01	None
GP-43A	1/24/19 8:29 AM	0	0.3	17.8	0	0.58	None
GP-43B	1/24/19 8:31 AM	0	0.1	20.8	0	0.04	None
GP-43C	1/24/19 8:33 AM	0	0.1	20.9	0	0.14	None
GP-44A	1/24/19 8:36 AM	0	0.1	20.8	0	0.12	None
GP-44B	1/24/19 8:38 AM	0	0.2	20.6	0	-1.02	None
GP-44C	1/24/19 8:39 AM	0	0.1	20.9	0	0.03	None
GP-45D	1/24/19 8:48 AM	0	0.1	21	0	-0.92	None
GP-45I	1/24/19 8:46 AM	0	0.1	21	0	0.17	None
GP-45S	1/24/19 8:45 AM	0	0.1	20.9	0	0.15	None

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**February 2019 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	2/21/19 10:21 AM	0	0	0	0	0	NR Snow
ATC-1S	2/21/19 10:20 AM	0	0	0	0	0	NR Snow
ATC-6D	2/21/19 11:32 AM	0	0.7	5.4	0	3.76	None
ATC-6S	2/21/19 11:30 AM	0	0.1	20.2	0	-0.05	None
ATC-8D	2/21/19 11:22 AM	0	0	0	0	0	NR Snow
ATC-8S	2/21/19 11:21 AM	0	0	0	0	0	NR Snow
GP-25	2/21/19 9:56 AM	0	1.9	15.5	0	0.01	None
GP-26	2/21/19 9:59 AM	0	0.2	20.6	0	0.02	None
GP-27	2/21/19 10:04 AM	0	4.7	12.9	0	-0.08	None
GP-39	2/21/19 9:13 AM	0	1.2	17.1	0	1.61	None
GP-40	2/21/19 9:17 AM	0	0.1	19.8	0	0.01	None
GP-11A	2/21/19 10:01 AM	0	0.7	18.9	0	0.07	None
GP-11B	2/21/19 10:03 AM	0	0.1	20.2	0	-0.7	None
GP-11C	2/21/19 10:04 AM	0	0	20.3	0	0.02	None
GP-11D	2/21/19 10:06 AM	0	0.1	20.2	0	0.02	None
GP-12A	2/21/19 10:28 AM	0	0.1	20.6	0	-0.07	None
GP-12B	2/21/19 10:29 AM	0	0.1	20.7	0	0	None
GP-12C	2/21/19 10:30 AM	0	0.1	20.8	0	-0.17	None
GP-13A	2/21/19 10:26 AM	0	0.1	20.4	0	0.01	None
GP-13B	2/21/19 10:28 AM	0	0.1	20.4	0	0.01	None
GP-13C	2/21/19 10:30 AM	0	0.1	20.5	0	0.02	None
GP-13D	2/21/19 10:32 AM	0	0.1	20.4	0	-2.49	None
GP-14A	2/21/19 10:38 AM	0	0.1	20.2	0	-0.73	None
GP-14B	2/21/19 10:40 AM	0	0.1	20.2	0	-0.78	None
GP-15A	2/21/19 11:08 AM	0	0.1	20.3	0	-0.01	None
GP-15C	2/21/19 10:31 AM	0	0.1	20.8	0	-2.77	None
GP-15C	2/21/19 11:12 AM	0	0.1	20	0	0.08	None
GP-15D	2/21/19 11:14 AM	0	0.1	20.3	0	-1.02	None
GP-16A	2/21/19 11:24 AM	0	0.1	20.2	0	0.03	None
GP-16B	2/21/19 11:26 AM	0	0.1	20	0	0	None
GP-16C	2/21/19 11:27 AM	0	0.1	20.2	0	-2.92	None
GP-17A	2/21/19 9:02 AM	0	0	0	0	0	NR H2O
GP-17B	2/21/19 9:04 AM	0	0.3	19.2	0	-0.14	None
GP-17C	2/21/19 9:05 AM	0	0.1	20.1	0	-1.89	None
GP-18A	2/21/19 9:08 AM	0	0.1	20.2	0	0.02	None
GP-18B	2/21/19 9:09 AM	0	0.2	19.1	0	-0.02	None
GP-18C	2/21/19 9:10 AM	0	0.1	20	0	-1.18	None
GP-19A	2/21/19 9:13 AM	0	0.1	20.3	0	-0.04	None
GP-19B	2/21/19 9:14 AM	0	0.3	18.3	0	-1.27	None
GP-19C	2/21/19 9:15 AM	0	0.1	20.3	0	-0.1	None
GP-20A	2/21/19 9:23 AM	0	0.1	20.7	0	-0.09	None
GP-20B	2/21/19 9:24 AM	0	0.2	19.7	0	-0.1	None
GP-20C	2/21/19 9:26 AM	0	0.1	18.2	0	-0.09	None
GP-21A	2/21/19 9:29 AM	0	0.1	20.8	0	-0.1	None
GP-21B	2/21/19 9:30 AM	0	0.1	15.2	0	-0.11	None
GP-21C	2/21/19 9:31 AM	0	0.1	20.9	0	-0.12	None

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**February 2019 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-22A	2/21/19 9:35 AM	0	0.1	21	0	0.4	None
GP-22C	2/21/19 9:36 AM	0	0.1	21	0	-0.02	None
GP-23A	2/21/19 9:45 AM	0	0.1	21	0	0.01	None
GP-23B	2/21/19 9:46 AM	0	0.1	20.9	0	-0.02	None
GP-23C	2/21/19 9:48 AM	0	0.1	20.9	0	-0.15	None
GP-24A	2/21/19 9:51 AM	0	0.1	20.8	0	0.02	None
GP-24B	2/21/19 9:52 AM	0	3.5	11.8	0	0.04	None
GP-29A	2/21/19 10:08 AM	0	1.4	18.3	0	-0.01	None
GP-29B	2/21/19 10:10 AM	0	0.5	20.6	0	-0.04	None
GP-30A	2/21/19 8:11 AM	0	2.4	17	0	1.64	None
GP-30B	2/21/19 8:12 AM	0	0.9	18.8	0	-1.4	None
GP-31A	2/21/19 8:15 AM	0	0	0	0	0	NR H2O
GP-31B	2/21/19 8:16 AM	0	0.3	14.7	0	-0.84	None
GP-31C	2/21/19 8:18 AM	0	1.2	17.5	0	1.83	None
GP-32A	2/21/19 8:22 AM	0	0.6	19.2	0	0.04	None
GP-32B	2/21/19 8:24 AM	0	0.1	20	0	0.05	None
GP-32C	2/21/19 8:25 AM	0	0.3	19.8	0	0.04	None
GP-33A	2/21/19 8:32 AM	0	0.1	20.4	0	0.02	None
GP-33B	2/21/19 8:34 AM	0	0.1	20.5	0	0.03	None
GP-33C	2/21/19 8:35 AM	0	0.1	20.5	0	-0.13	None
GP-34A	2/21/19 8:38 AM	0	0	0	0	0	NR H2O
GP-34B	2/21/19 8:40 AM	0	0.1	20.7	0	-0.18	None
GP-34C	2/21/19 8:42 AM	0	0.1	20.7	0	0.65	None
GP-35A	2/21/19 8:46 AM	0	0.2	20.3	0	-1.12	None
GP-35B	2/21/19 8:47 AM	0	0.1	20.5	0	0.03	None
GP-35C	2/21/19 8:49 AM	0	0.1	20.8	0	0.01	None
GP-36A	2/21/19 8:53 AM	0	0.3	6.7	0	0.05	None
GP-36B	2/21/19 8:55 AM	0	0.1	20.1	0	0.02	None
GP-36C	2/21/19 8:56 AM	0	0.1	20.9	0	-0.15	None
GP-37A	2/21/19 9:00 AM	0	0.1	21	0	0.01	None
GP-37B	2/21/19 9:04 AM	0	0	0	0	0	NR H2O
GP-37C	2/21/19 9:06 AM	0	0.3	10.8	0	-1.32	None
GP-41A	2/21/19 9:20 AM	0	0.1	20.4	0	0.03	None
GP-41B	2/21/19 9:21 AM	0	0.1	20.4	0	0.01	None
GP-41C	2/21/19 9:23 AM	0	0.1	20.4	0	0.02	None
GP-42A	2/21/19 9:29 AM	0	0.1	20.2	0	0.04	None
GP-42B	2/21/19 9:30 AM	0	0.4	18.1	0	-1.19	None
GP-43A	2/21/19 9:36 AM	0	0.1	20.2	0	0.01	None
GP-43B	2/21/19 9:37 AM	0	0	20.2	0	0.02	None
GP-43C	2/21/19 9:39 AM	0	0.1	20.2	0	0.04	None
GP-44A	2/21/19 9:45 AM	0	0.1	20.2	0	2.18	None
GP-44B	2/21/19 9:47 AM	0	0.6	13.9	0	2.43	None
GP-44C	2/21/19 9:48 AM	0	0	20.2	0	0.03	None
GP-45D	2/21/19 9:58 AM	0	0	20.3	0	1.55	None
GP-45I	2/21/19 9:56 AM	0	0	20.2	0	0.03	None
GP-45S	2/21/19 9:55 AM	0	0.1	20.2	0	0.08	None

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**March 2019 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-1D	3/12/19 12:01 PM	0	0.2	15.1	0	0.23	None
ATC-1S	3/12/19 12:00 PM	0	0.1	20.3	0	0.11	H2O @ 35 SECONDS
ATC-6D	3/12/19 12:58 PM	0	0.9	2.3	0	5.68	None
ATC-6S	3/12/19 12:56 PM	0	0.1	20.1	0	0.07	None
ATC-8D	3/12/19 1:03 PM	0	0.4	18.9	0	0	H2O @ 40 SECONDS
ATC-8S	3/12/19 1:01 PM	0	0.2	17.7	0	0.75	None
GP-25	3/12/19 3:46 PM	0	2.4	13.6	0	0.38	None
GP-26	3/12/19 3:49 PM	0	0.8	17.9	0	0	None
GP-27	3/12/19 3:52 PM	0	6.4	8.8	0	-3.68	None
GP-39	3/12/19 10:46 AM	0	0.8	17.4	0	-0.15	None
GP-40	3/12/19 10:50 AM	0	0	18.1	0	0.04	None
GP-11A	3/12/19 11:49 AM	0	0.1	20.3	0	0.28	None
GP-11B	3/12/19 11:51 AM	0	0.6	13	0	0.21	None
GP-11C	3/12/19 11:52 AM	0	0.1	13	0	0.16	None
GP-11D	3/12/19 11:53 AM	0	0.1	20.2	0	0.11	None
GP-12A	3/12/19 12:14 PM	0	0.1	21	0	-0.02	None
GP-12B	3/12/19 12:15 PM	0	0.1	21	0	-0.02	None
GP-12C	3/12/19 12:16 PM	0	0.1	17	0	-0.69	None
GP-12D	3/12/19 12:17 PM	0	0.7	4.5	0	1.99	None
GP-13A	3/12/19 12:06 PM	0	0.1	20.7	0	0	None
GP-13B	3/12/19 12:07 PM	0	0.1	20.9	0	0	None
GP-13C	3/12/19 12:09 PM	0	0.1	20.8	0	0	None
GP-13D	3/12/19 12:10 PM	0	0.1	20.8	0	1.47	None
GP-14A	3/12/19 12:24 PM	0	0.1	20.3	0	0.43	None
GP-14B	3/12/19 12:25 PM	0	0.1	20.7	0	0.21	None
GP-15A	3/12/19 12:36 PM	0	0.2	21	0	-0.03	None
GP-15C	3/12/19 12:37 PM	0	1.1	15.6	0	-0.2	None
GP-15D	3/12/19 12:38 PM	0	0.1	21	0	-1.9	None
GP-16A	3/12/19 12:51 PM	0	0.1	20.4	0	0.04	None
GP-16B	3/12/19 12:52 PM	0	0.2	18.9	0	-0.1	None
GP-16C	3/12/19 12:54 PM	0	0.8	14.7	0	1.53	None
GP-17A	3/12/19 2:58 PM	0	0	0	0	0	NR H2O
GP-17B	3/12/19 3:00 PM	0	0.9	15.5	0	0	None
GP-17C	3/12/19 3:01 PM	0	0.1	19.5	0	1.15	None
GP-18A	3/12/19 3:03 PM	0	0	0	0	0	NR H2O
GP-18B	3/12/19 3:05 PM	0	0.4	11.4	0	0.06	None
GP-18C	3/12/19 3:06 PM	0	0.2	17.1	0	1.42	None
GP-19A	3/12/19 3:09 PM	0	0.1	19.8	0	-0.06	None
GP-19B	3/12/19 3:10 PM	0	0.7	14.5	0	0.16	None
GP-19C	3/12/19 3:12 PM	0	0.1	19.8	0	0.03	None
GP-20A	3/12/19 3:15 PM	0	0.1	20	0	0.24	None
GP-20B	3/12/19 3:16 PM	0	0.3	16.1	0	-0.02	None
GP-20C	3/12/19 3:17 PM	0	0.2	6.1	0	0.25	None
GP-21A	3/12/19 3:20 PM	0	0.1	19.7	0	-0.07	None
GP-21B	3/12/19 3:22 PM	0	0.1	10.2	0	-0.03	None
GP-21C	3/12/19 3:22 PM	0	0	0	0	0	NR H2O

**CEDAR HILLS REGIONAL LANDFILL**  
**Landfill Gas Compliance Probes**  
**March 2019 Monitoring Data**

Location ID	Date/Time	CH4 (% Vol)	CO2 (% Vol)	O2 (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
GP-22A	3/12/19 3:26 PM	0	0.5	19.6	0	2.65	None
GP-22C	3/12/19 3:28 PM	0	0.9	2.7	0	0.34	None
GP-23A	3/12/19 3:36 PM	0	0.1	19.9	0	0.26	None
GP-23B	3/12/19 3:38 PM	0	0.1	20	0	1.93	None
GP-23C	3/12/19 3:39 PM	0	0.1	20.1	0	0.56	None
GP-24A	3/12/19 3:42 PM	0	4.3	11.7	0	-0.02	None
GP-24B	3/12/19 3:44 PM	0	0.3	19.5	0	-0.03	None
GP-29A	3/12/19 3:57 PM	0	2.3	15.9	0	0	None
GP-29B	3/12/19 3:58 PM	0	0.6	19.6	0	0	None
GP-30A	3/12/19 8:24 AM	0	2.2	18.5	0	8.07	None
GP-30B	3/12/19 8:26 AM	0	0.9	19.7	0	0.14	None
GP-31A	3/12/19 8:30 AM	0	0	0	0	0	NR H2O
GP-31B	3/12/19 8:31 AM	0	0.3	15.6	0	1.77	None
GP-31C	3/12/19 8:32 AM	0	0.1	20.6	0	-0.02	None
GP-32A	3/12/19 8:37 AM	0	0.6	19.5	0	0	None
GP-32B	3/12/19 8:38 AM	0	0.2	20.9	0	0	None
GP-32C	3/12/19 8:39 AM	0	0.3	20.9	0	0	None
GP-33A	3/12/19 8:42 AM	0	0.2	20.9	0	0	None
GP-33B	3/12/19 8:43 AM	0	0.1	21	0	-0.09	None
GP-33C	3/12/19 8:44 AM	0	0.7	19.5	0	0.3	None
GP-34A	3/12/19 8:48 AM	0	0	0	0	0	NR H2O
GP-34B	3/12/19 8:49 AM	0	0.2	18.4	0	0	None
GP-34C	3/12/19 8:50 AM	0	0.1	19	0	2.06	None
GP-35A	3/12/19 8:54 AM	0	0.1	20.8	0	-1.63	None
GP-35B	3/12/19 8:55 AM	0	0.1	20.9	0	0	None
GP-35C	3/12/19 8:57 AM	0	0.1	21	0	0.11	None
GP-36A	3/12/19 9:35 AM	0	0.2	15.4	0	-0.08	None
GP-36B	3/12/19 9:35 AM	0	0	0	0	0	NR H2O
GP-36C	3/12/19 9:37 AM	0	0.2	13.5	0	2.76	None
GP-37A	3/12/19 9:39 AM	0	0.2	14.2	0	-1.77	None
GP-37B	3/12/19 9:40 AM	0	0.1	19.7	0	0	None
GP-37C	3/12/19 9:41 AM	0	0.6	1.6	0	3.03	None
GP-41A	3/12/19 10:53 AM	0	0.1	19.9	0	0.05	None
GP-41B	3/12/19 10:54 AM	0	0.1	20	0	0.09	None
GP-41C	3/12/19 10:55 AM	0	0.1	20	0	0.04	None
GP-42A	3/12/19 10:57 AM	0	0	0	0	0	NR H2O
GP-42B	3/12/19 10:59 AM	0	0.5	17.6	0	0.72	None
GP-43A	3/12/19 11:02 AM	0	0.1	20.1	0	0	None
GP-43B	3/12/19 11:03 AM	0	0	20.3	0	0	None
GP-43C	3/12/19 11:04 AM	0	0.1	19.4	0	0.08	None
GP-44A	3/12/19 11:07 AM	0	0.2	20.2	0	-2.51	None
GP-44B	3/12/19 11:09 AM	0	0.5	13.5	0	0.31	None
GP-44C	3/12/19 11:10 AM	0	0.1	20.4	0	0	None
GP-45D	3/12/19 11:48 AM	0	0.1	19.5	0	0.38	None
GP-45I	3/12/19 11:47 AM	0	0.1	17.4	0	0	None
GP-45S	3/12/19 11:45 AM	0	0.1	20.4	0	0.04	None

## Interior Probes

**CEDAR HILLS REGIONAL LANDFILL**

**Landfill Gas Interior Probes**

**January 2019 Monitoring Data**

Location ID	Date/Time	CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Lower Explosive Limit	Static Pressure	Comments
		(% Vol)	(% Vol)	(% Vol)	(% LEL)	(in INWC)	
ATC-3D	1/24/19 9:46 AM	0.0	0.0	0	0	0	NRH20
ATC-3S	1/24/19 9:45 AM	0.0	1.1	15.1	0	-6.86	None
GP-1A	1/23/19 9:14 PM	0.0	0.1	21	0	-0.03	None
GP-1B	1/23/19 9:16 PM	0.0	0.1	21	0	-0.04	None
GP-2A	1/23/19 9:36 PM	0.0	5.4	6	0	-0.03	None
GP-2B	1/23/19 9:37 PM	0.0	0.2	21	0	-0.01	None
GP-3	1/23/19 9:50 PM	0.0	4.8	13.9	0	-1.2	None
GP-46D	1/23/19 9:57 PM	0.0	0.1	21	0	-3.43	None
GP-46I	1/23/19 9:56 PM	0.0	0.1	21	0	-4.67	None
GP-46S	1/23/19 9:54 PM	0.0	0.1	21	0	-0.23	None
GP-47D	1/24/19 11:16 AM	0.0	1.0	11.6	0	-0.5	None
GP-47I	1/24/19 11:15 AM	14.1	9.5	9.7	>>>>	-4.09	None
GP-47S	1/24/19 11:13 AM	0.0	0.1	20.6	0	-3.86	None
GP-48D	1/23/19 10:06 PM	0.0	0.1	21	0	-4.71	None
GP-48I	1/23/19 10:04 PM	0.0	0.2	21	0	-0.14	None
GP-48S	1/23/19 10:03 PM	0.0	0.2	21	0	-0.11	None
GP-4A	1/23/19 9:41 PM	0.0	0.1	21	0	-0.02	None
GP-4B	1/23/19 9:43 PM	0.0	0.1	21	0	0.02	None
GP-52	1/24/19 10:59 AM	0.0	0.1	20.7	0	0.19	None
GP-53	1/24/19 11:00 AM	0.0	0.4	19.7	0	-0.93	None
GP-54	1/24/19 11:02 AM	0.0	0.1	20.7	0	-1.59	None
GP-55	1/23/19 8:58 PM	0.5	0.5	21	10	-4.66	None
GP-56	1/23/19 9:00 PM	0.0	0.8	21	0	-0.47	None
GP-57	1/23/19 8:51 PM	43.8	23.4	3.3	>>>>	-18.8	None
GP-58	1/23/19 8:54 PM	0.0	18.6	3.9	0	21.24	None
GP-59	1/23/19 8:44 PM	0.0	0.1	21	0	-3.05	None
GP-5A	1/24/19 10:42 AM	0.0	0.1	20.1	0	-6.69	None
GP-5BA	1/24/19 10:45 AM	0.0	0.0	0	0	0	NRH20
GP-5BB	1/24/19 10:48 AM	0.0	0.1	20.6	0	-6.71	None
GP-5BC	1/24/19 10:49 AM	0.0	0.1	20.7	0	-6.73	None
GP-5BD	1/24/19 10:51 AM	0.0	0.1	20.7	0	-5.99	None
GP-60	1/23/19 8:46 PM	0.0	0.2	21	0	0.01	None
GP-61	1/23/19 8:31 PM	0.0	0.1	20.9	0	-2.55	None
GP-62	1/23/19 8:33 PM	0.0	1.9	19.3	0	-0.01	None
GP-6A	1/23/19 9:20 PM	0.0	0.1	21	0	-6.49	None
GP-6B	1/23/19 9:21 PM	0.0	0.1	21	0	-4.62	None
GP-6C	1/23/19 9:23 PM	0.0	0.1	21	0	-4.61	None
GP-6D	1/23/19 9:24 PM	0.0	0.1	21	0	-5.3	None
GP-6E	1/23/19 9:25 PM	0.0	0.1	21	0	-4.65	None
GP-6F	1/23/19 9:27 PM	0.0	0.1	21	0	-4.61	None
GP-6G	1/23/19 9:28 PM	0.0	0.1	21	0	-4.63	None
GP-6H	1/23/19 9:30 PM	0.0	0.1	21	0	-5.25	None
GP-7	1/23/19 9:11 PM	0.0	0.1	21	0	-4.86	None
GP-8	1/23/19 9:05 PM	0.0	0.2	21	0	-4.84	None
GP-9	1/23/19 8:39 PM	0.0	0.2	21	0	-4.77	None
GP-B4-1	1/23/19 9:46 PM	0.0	1.5	20.1	0	-5.59	None
GP-B4-2	1/23/19 9:47 PM	0.0	0.1	21	0	-4.12	None

# CEDAR HILLS REGIONAL LANDFILL

## Landfill Gas Interior Probes February 2019 Monitoring Data

Location ID	Date/Time	CH <sub>4</sub> (% Vol)	CO <sub>2</sub> (% Vol)	O <sub>2</sub> (% Vol)	Lower Explosive Limit (% LEL)	Static Pressure (in INWC)	Comments
ATC-3D	2/21/2019	0.0	1.1	14.1	0	-2.58	None
ATC-3S	2/21/2019	0.0	1.3	11.4	0	-3.92	None
GP-1A	2/22/2019	0.0	0.0	21	0	0.07	None
GP-1B	2/22/2019	0.0	0.1	21	0	0.87	None
GP-2A	2/22/2019	0.0	3.8	8.9	0	0.02	None
GP-2B	2/22/2019	0.0	0.1	21	0	-0.02	None
GP-3	2/22/2019	0.0	1.9	19.1	0	8.71	NR H2O
GP-46D	2/22/2019	0.0	0.1	21	0	-0.51	None
GP-46I	2/22/2019	0.0	0.1	21	0	-0.6	None
GP-46S	2/22/2019	0.0	0.1	18.6	0	-0.31	None
GP-47D	2/21/2019	0.0	0.9	14.1	0	-0.4	None
GP-47I	2/21/2019	59.3	25.7	0.3	>>>>	-2.3	None
GP-47S	2/21/2019	0.0	0.1	20	0	-1.84	None
GP-48D	2/22/2019	0.0	0.1	21	0	-0.58	None
GP-48I	2/22/2019	0.0	0.2	20.7	0	-0.13	None
GP-48S	2/22/2019	0.0	0.3	18.9	0	-0.16	None
GP-4A	2/22/2019	0.0	0.1	21	0	0.05	None
GP-4B	2/22/2019	0.0	0.1	21	0	0.01	None
GP-52	2/21/2019	0.0	0.1	19.7	0	0.11	None
GP-53	2/21/2019	0.0	0.1	15.7	0	-0.69	None
GP-54	2/21/2019	0.0	0.1	19.7	0	-0.23	None
GP-55	2/22/2019	10.7	1.8	12.9	>>>>	-0.6	None
GP-56	2/22/2019	0.2	0.8	20.8	4	0.02	None
GP-57	2/22/2019	47.7	26.8	1.2	>>>>	-12.47	None
GP-58	2/22/2019	0.0	20.5	2.4	0	-11.59	None
GP-59	2/22/2019	0.0	0.1	20.4	0	0.06	None
GP-5A	2/21/2019	0.0	0.0	0	0	0	NR H2O
GP-5BA	2/21/2019	0.0	0.3	19.4	0	-7.84	None
GP-5BB	2/21/2019	0.0	0.1	20.2	0	-3.81	None
GP-5BC	2/21/2019	0.0	0.1	20.3	0	-0.82	None
GP-5BD	2/21/2019	0.0	0.1	20.3	0	-3.37	None
GP-60	2/22/2019	0.0	0.1	20.5	0	0.06	None
GP-61	2/22/2019	0.0	0.0	20.3	0	-0.27	None
GP-62	2/22/2019	0.0	1.8	19.1	0	0.08	None
GP-6A	2/22/2019	0.0	0.0	21	0	-2.16	None
GP-6B	2/22/2019	0.0	0.1	21	0	-0.56	None
GP-6C	2/22/2019	0.0	0.1	21	0	-0.72	None
GP-6D	2/22/2019	0.0	0.0	21	0	-1.02	None
GP-6E	2/22/2019	0.0	0.1	21	0	-0.77	None
GP-6F	2/22/2019	0.0	0.1	21	0	-0.89	None
GP-6G	2/22/2019	0.0	0.0	21	0	-0.95	None
GP-6H	2/22/2019	0.0	0.1	21	0	-1.15	None
GP-7	2/22/2019	0.0	0.1	21	0	-0.59	None
GP-8	2/22/2019	0.0	0.1	21	0	-0.7	None
GP-9	2/22/2019	0.0	0.0	20.4	0	-0.5	None
GP-B4-1	2/22/2019	0.0	2.2	19.1	0	-1.56	None
GP-B4-2	2/22/2019	0.0	0.1	21	0	-0.82	None



# CEDAR HILLS REGIONAL LANDFILL

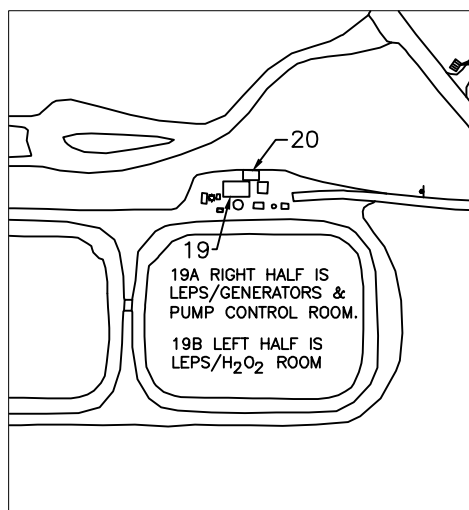
## Landfill Gas Interior Probes

### March 2019 Monitoring Data

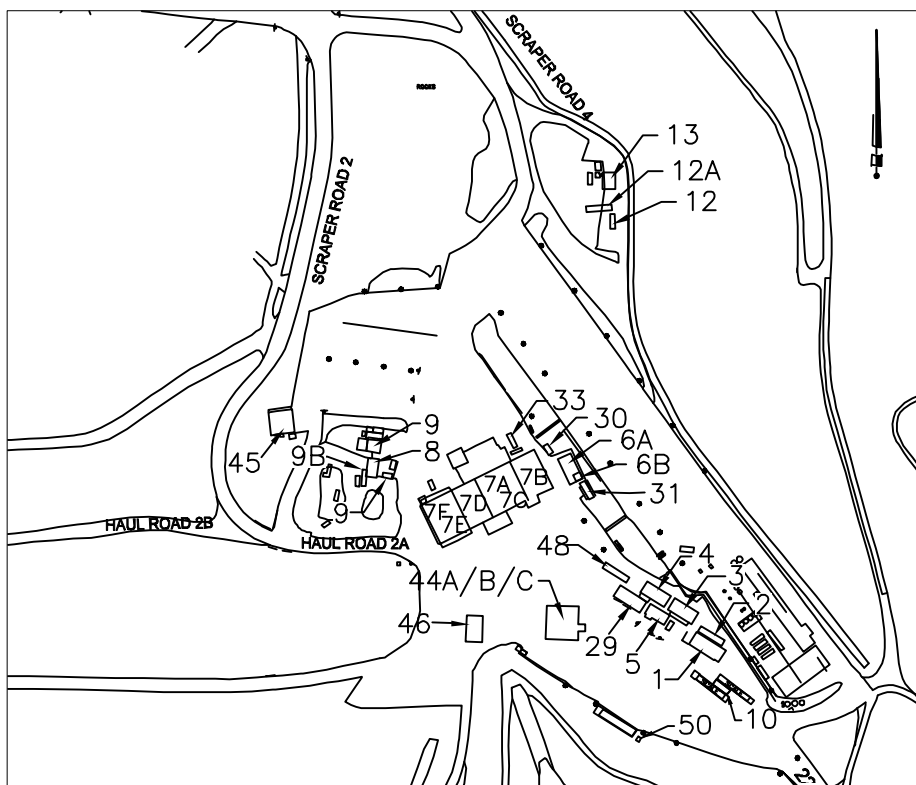
		CH <sub>4</sub>	CO <sub>2</sub>	O <sub>2</sub>	Lower Explosive Limit	Static Pressure	
Location ID	Date/Time	(% Vol)	(% Vol)	(% Vol)	(% LEL)	(in INWC)	Comments
ATC-3D	3/12/2019	0.0	0.0	0	0	0	NR H2O
ATC-3S	3/12/2019	0.0	1.7	8.3	0	1.48	None
GP-1A	3/13/2019	0.0	0.1	20.9	0	-0.16	None
GP-1B	3/13/2019	0.0	0.1	20.9	0	-0.1	None
GP-2A	3/13/2019	0.0	4.8	7.4	0	-0.32	None
GP-2B	3/13/2019	0.0	0.2	20.9	0	-0.22	None
GP-3	3/13/2019	0.0	3.8	15.3	0	-0.29	None
GP-46D	3/13/2019	0.0	0.1	21	0	-3.46	None
GP-46I	3/13/2019	0.0	0.1	21	0	-3.47	None
GP-46S	3/13/2019	0.0	0.1	20.9	0	-0.21	None
GP-47D	3/12/2019	0.0	2.1	9.1	0	2.14	None
GP-47I	3/12/2019	35.7	18.8	3.8	>>>>	1.63	None
GP-47S	3/12/2019	53.7	23.3	0.2	>>>>	2.2	None
GP-48D	3/13/2019	0.0	0.1	20.8	0	-4.06	None
GP-48I	3/13/2019	0.0	0.1	20.8	0	-0.33	None
GP-48S	3/13/2019	0.0	0.2	20	0	-0.33	None
GP-4A	3/13/2019	0.0	0.1	21	0	-0.21	None
GP-4B	3/13/2019	0.0	0.1	20.9	0	-0.16	None
GP-52	3/12/2019	0.0	0.1	19.4	0	0.03	None
GP-53	3/12/2019	0.0	0.3	18.9	0	0.46	None
GP-54	3/12/2019	0.0	4.1	15.4	0	0.09	None
GP-55	3/13/2019	0.0	0.2	21	0	-4.57	None
GP-56	3/13/2019	0.0	0.3	21	0	-0.16	None
GP-57	3/13/2019	8.8	4.9	17.5	>>>>	-10.83	None
GP-58	3/13/2019	0.0	7.3	16	0	-9.91	None
GP-59	3/13/2019	0.0	0.1	20.9	0	-3.15	None
GP-5A	3/12/2019	0.0	0.7	9.8	0	1.41	None
GP-5BA	3/12/2019	0.0	0.0	0	0	0	NR H2O
GP-5BB	3/12/2019	0.0	1.4	18.3	0	1.37	None
GP-5BC	3/12/2019	0.0	0.8	12.4	0	1.35	None
GP-5BD	3/12/2019	0.0	1.0	11.4	0	1.34	None
GP-60	3/13/2019	0.0	0.2	20.8	0	-0.09	None
GP-61	3/13/2019	0.0	0.1	20.9	0	-2.45	None
GP-62	3/13/2019	0.0	1.7	19.7	0	-0.03	None
GP-6A	3/13/2019	0.0	0.1	21	0	-5.26	None
GP-6B	3/13/2019	0.0	0.1	21	0	-4.62	None
GP-6C	3/13/2019	0.0	0.1	21	0	-4.52	None
GP-6D	3/13/2019	0.0	0.1	21	0	-5.22	None
GP-6E	3/13/2019	0.0	0.1	21	0	-4.54	None
GP-6F	3/13/2019	0.0	0.1	20.9	0	-4.57	None
GP-6G	3/13/2019	0.0	0.1	21	0	-4.56	None
GP-6H	3/13/2019	0.0	0.1	21	0	-5.24	None
GP-7	3/13/2019	0.0	0.1	21	0	-4.79	None
GP-8	3/13/2019	0.0	0.1	21	0	-4.71	None
GP-9	3/13/2019	0.0	0.1	21	0	-4.64	None
GP-B4-1	3/13/2019	0.0	1.9	18.6	0	-5.2	None
GP-B4-2	3/13/2019	0.0	0.1	20.9	0	-4.09	None

## On-Site Building Monitoring

## Aeration Ponds



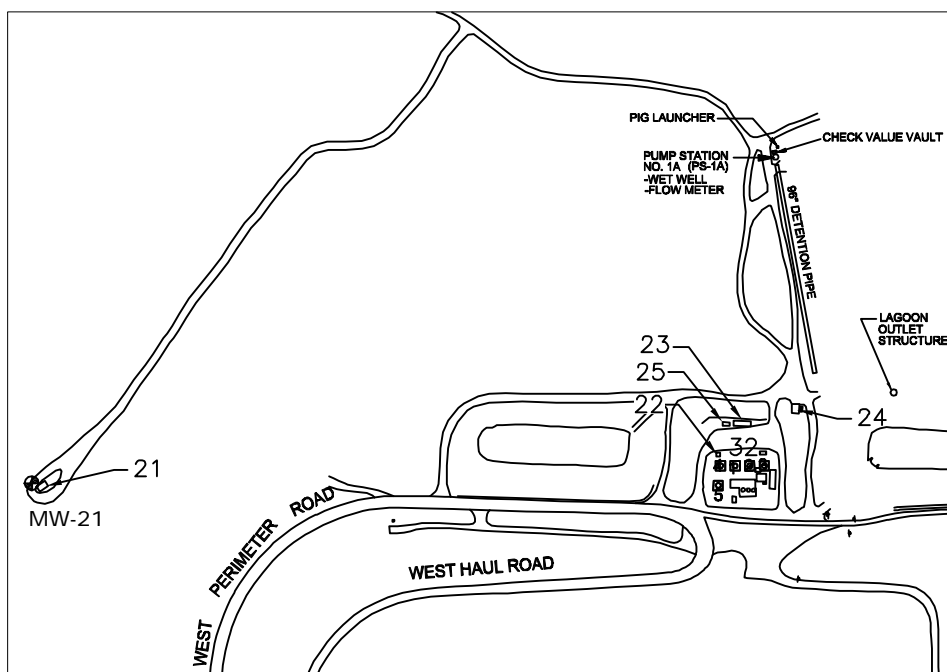
## Shop and Office Buildings



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

## CEDAR HILLS REGIONAL LANDFILL BUILDING NUMBERS

## North Flare Station



Source: KCSWD, February 2012



**King County**

## Landfill Gas Structure Monitoring Location

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

DATE:  
February 2012

DESIGNED BY:

DRAWN BY:

REVISED BY:

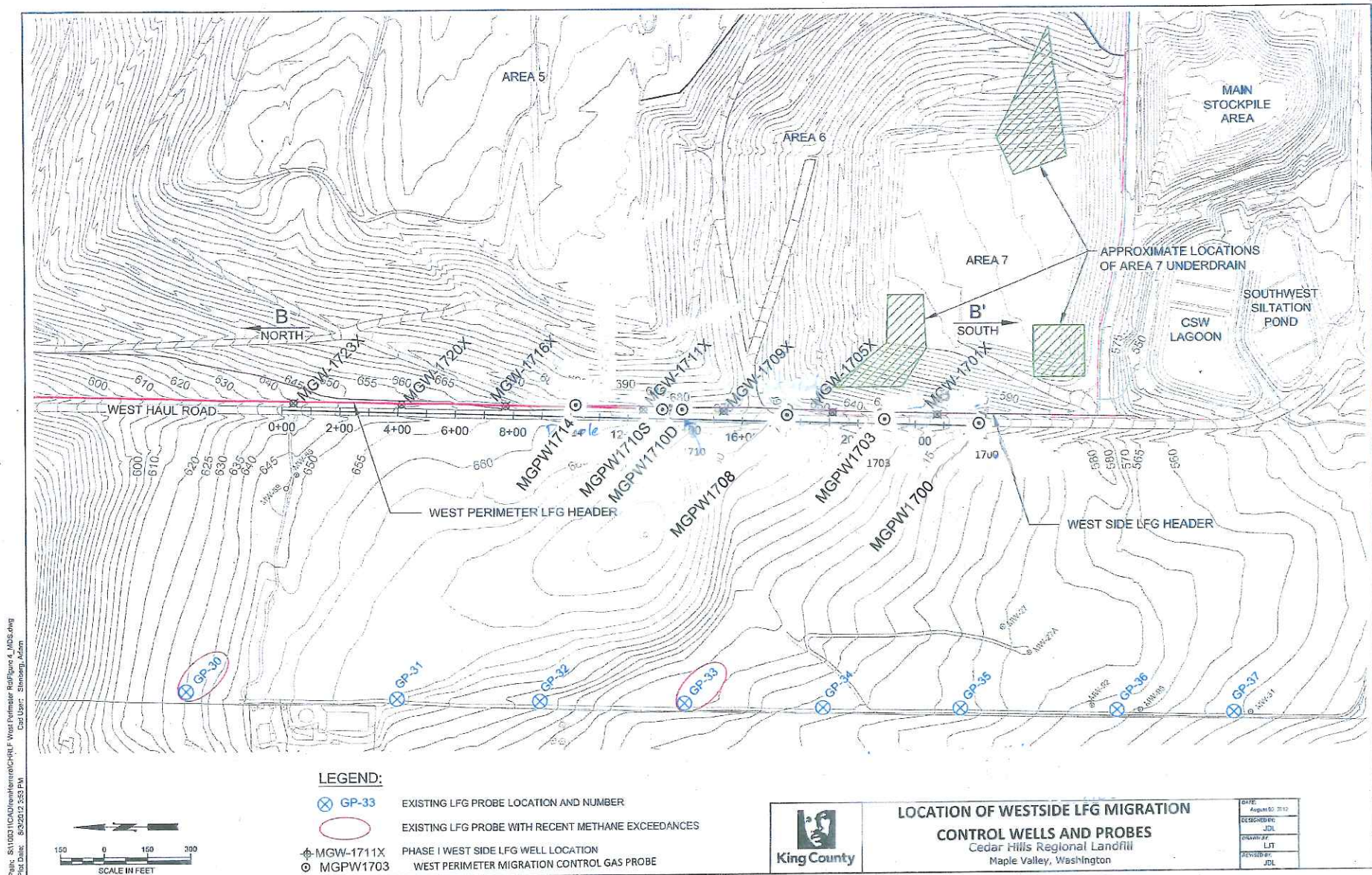
PROJECT NO.

FIGURE NO.

**FIRST QUARTER  
BUILDING MONITORING**

	INSTRUMENT: Place check by instrument used :			WEATHER:		DATE: 01/26/19	
	Foxboro TVA 1000 (sn. 301)			CLEAR		TECH: DNS	
	Foxboro TVA 1000 (sn. 732)			x			
ENVIS ID	BLDG #	DESCRIPTION	CH <sub>4</sub> (ppm)	REMARKS	BAR PRESS (in. Hg)	TIME	
GOC- 01/26/19	1	FRONT OFFICE	0		30.26	9:45 PM	
GCR- 01/26/19	2	CONF ROOM	0				
GAO- 01/26/19	3	PAYROLL OFFICE	0				
GEO- 01/26/19	4	ENGR. OFFICE	0				
GLRC- 01/26/19	5	LUNCHROOM	0				
GSPC 01/26/19		SPOC	0				
GELO- 01/26/19 A	6A	DRY STORAGE	0	PARTIALLY BLOCKED			
GELO- 01/26/19 B	6B	ELECTRICIAN OFFICE	0	PARTIALLY BLOCKED			
GAP- 01/26/19		ACCOUNT PAYABLE	0				
GSO- 01/26/19 A	7A	SHOP OFFICE	0				
GPR- 01/26/19 B	7B	PARTS ROOM	0				
GMS- 01/26/19 C	7C	SHOP PIT AREA/BAY	0				
GTB- 01/26/19 D	7D	SHOP TIRE BAY	0				
GEW- 01/26/19 E	7E	EAST WELD SHOP	0				
GWW- 01/26/19 F	7F	WEST WELD SHOP	0				
GCS- 01/26/19	8	CARPENTER'S	0				
GSS- 01/26/19	9	WASTEWATER	0				
GSS- 01/26/19 B	9B	CARPENTER/STORAGE	n/a	STRUCTURE REMOVED			
GSH- 01/26/19	10	SCALEHOUSE	0				
GB13- 01/26/19	13	WW COMPRESSOR	0				
GB16- 01/26/19	16	GENERATOR	0	PARTIALLY BLOCKED			
GB19- 01/26/19	19	LEPS (P.S.# 5)	0	PARTIALLY BLOCKED			
GB19- 01/26/19 B	19B	LEPS/H <sub>2</sub> O <sub>2</sub> ROOM	0	PARTIALLY BLOCKED			
GB20- 01/26/19	20	LEPS ELEC PANALS	0	PARTIALLY BLOCKED			
GB21- 01/26/19	21	STORAGE(OLD PS 1)	n/a	OFF LIMITS			
GB22- 01/26/19	22	STORAGE/N FLARE	n/a	STRUCTURE REMOVED			
GB23- 01/26/19	23	LFGAS	0				
GB24- 01/26/19	24	NE GENERATOR BLDG	0				
GBWW- 01/26/19	30	WOMEN BRK RM	0				
GPWT- 01/26/19	PW	PRESSURE WASH RM	0				
GBRR- 01/26/19	RR	TRUCKWASH RR W	0				
GBSS- 01/26/19	SS	TRUCKWASH RR E	0				
GBZZ- 01/26/19	29	MANAGERS TRAILER	0				
GBPT- 01/26/19		CCG FASTER	0				
GCLS- 01/26/19		CHLORINE SHED	0				

## Migration Probes





**CEDAR HILLS REGIONAL LANDFILL**  
**West Perimeter Landfill Gas Migration Control Probes**  
**First Quarter 2019 Monitoring Data**

Probe ID	Date	Time	Barometric	CH4 %vol	CO2 %vol	O2 %vol	Static	Comments
			Pressure in Hg				Pressure in INWC	
MGPW 1700	1/11/2019	10:42 AM	29.93	0.0	0.2	20.8	-0.1	
MGPW 1700	1/25/2019	10:52 AM	30.34	0.0	0.3	21.0	-0.22	
MGPW 1700	2/20/2019	12:59 PM	29.81	0.0	0.3	20.1	0	
MGPW 1700	3/8/2019	10:20 AM	29.93	0.0	0.2	20.6	-0.91	
MGPW 1700	3/22/2019	10:24 AM	29.87	0.0	0.3	19.4	0.01	
MGPW 1708	1/11/2019	10:31 AM	29.93	0.0	0.2	20.9	-0.1	
MGPW 1708	1/25/2019	10:44 AM	30.34	0.0	0.3	21.0	-2.12	
MGPW 1708	2/20/2019	1:09 PM	29.81	0.0	0.2	20.6	-0.24	
MGPW 1708	3/8/2019	10:15 AM	29.93	0.0	0.4	20.5	-0.98	
MGPW 1708	3/22/2019	10:15 AM	29.87	0.0	0.2	19.5	0.29	
MGPW 1710S	1/11/2019	10:24 AM	29.93	0.0	0.0	21.0	-0.92	
MGPW 1710S	1/25/2019	10:35 AM	30.34	0.0	0.2	21.0	-1.82	
MGPW 1710S	2/20/2019	1:15 PM	29.81	0.0	0.2	20.8	-0.26	
MGPW 1710S	3/8/2019	10:07 AM	29.93	0.0	0.2	20.7	-0.84	
MGPW 1710S	3/22/2019	10:06 AM	29.87	0.0	0.3	19.6	0.29	
MGPW 1710D	1/11/2019	10:26 AM	29.93	0.0	0.0	20.9	-0.9	
MGPW 1710D	1/25/2019	10:36 AM	30.34	0.0	0.2	21.0	-1.97	
MGPW 1710D	2/20/2019	1:18 PM	29.81	0.0	0.1	21.0	-0.26	
MGPW 1710D	3/8/2019	10:05 AM	29.93	0.0	0.2	21.0	-0.9	
MGPW 1710D	3/22/2019	10:08 AM	29.87	0.0	0.3	20.0	0.33	
MGPW 1714	1/11/2019	10:16 AM	29.93	0.0	0.0	20.8	-0.91	
MGPW 1714	1/25/2019	10:28 AM	30.35	0.0	0.1	21.0	-1.83	
MGPW 1714	2/20/2019	1:28 PM	29.81	0.0	0.2	21.0	-0.22	
MGPW 1714	3/8/2019	10:00 AM	29.93	0.0	0.2	20.6	-0.91	
MGPW 1714	3/22/2019	10:00 AM	29.87	0.0	0.2	19.5	0.2	

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## Data Qualifiers

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

<b>QUAL</b>	<b>QUALIFIER DESCRIPTION</b>
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**

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Cedar Hills Landfill  
Meteorological Data

	Wind Speed (Average)	Wind Direction	Sigma Theta	2 M Temperature (Average)	Barometric Pressure	Precipitation	Remarks
Date/Time	Miles per Hour	Degrees	Degrees	° C	inches-Hg	inches	
1/1/2019 0:00	3.106	137.5	6.589	-0.08	29.57	0	
1/1/2019 0:15	3.925	145.3	5.258	0.661	29.57	0	
1/1/2019 0:30	2.548	136	9.71	0.837	29.57	0	
1/1/2019 0:45	2.232	85	49.66	0.485	29.57	0	
1/1/2019 1:00	2.496	59.12	30.59	-0.031	29.6	0	
1/1/2019 1:15	2.201	25.7	14.3	-0.469	29.6	0	
1/1/2019 1:30	0.687	49.37	14.14	-0.534	29.6	0	
1/1/2019 1:45	2.419	25.44	12.01	-0.364	29.6	0	
1/1/2019 2:00	3.711	24.51	8.91	-0.747	29.6	0	
1/1/2019 2:15	2.622	31.63	3.695	-0.612	29.6	0	
1/1/2019 2:30	3.43	33.86	4.193	-0.529	29.6	0	
1/1/2019 2:45	2.842	31.64	13.71	-0.026	29.6	0	
1/1/2019 3:00	1.868	176.4	47.72	0.403	29.61	0	
1/1/2019 3:15	3.107	161.9	13.2	0.868	29.61	0	
1/1/2019 3:30	2.156	142.7	11.55	0.969	29.61	0	
1/1/2019 3:45	1.56	130.5	1.353	1.086	29.61	0	
1/1/2019 4:00	0.063	75.77	9.26	1.053	29.58	0	
1/1/2019 4:15	1.351	334.9	17.68	1.233	29.58	0	
1/1/2019 4:30	3.861	328.6	2.929	0.689	29.58	0	
1/1/2019 4:45	2.339	359.8	24.47	0.385	29.58	0	
1/1/2019 5:00	1.035	32.38	0	0.363	29.58	0	
1/1/2019 5:15	0.001	32.32	0	0.741	29.58	0	
1/1/2019 5:30	0.015	55.5	1.945	0.696	29.58	0	
1/1/2019 5:45	2.295	153.1	6.937	0.991	29.58	0	
1/1/2019 6:00	2.631	138.5	8.4	0.412	29.57	0	
1/1/2019 6:15	2.931	134.1	9.88	0.394	29.57	0	
1/1/2019 6:30	1.427	121.1	2.966	1.137	29.57	0	
1/1/2019 6:45	1.629	108.4	35.86	1.054	29.57	0	
1/1/2019 7:00	1.945	148.5	46.01	1.492	29.56	0	
1/1/2019 7:15	2.804	288.9	19.41	1.189	29.56	0	
1/1/2019 7:30	1.051	317.2	55.45	1.201	29.56	0	
1/1/2019 7:45	1.269	8.47	12.93	0.301	29.56	0	
1/1/2019 8:00	0.18	7.452	0.481	0.716	29.58	0	
1/1/2019 8:15	0.274	88.6	37.3	0.584	29.58	0	
1/1/2019 8:30	0.78	282.3	8	0.702	29.58	0	
1/1/2019 8:45	1.697	48.89	20.26	0.26	29.58	0	
1/1/2019 9:00	2.402	28.07	8.7	0.091	29.62	0	
1/1/2019 9:15	0.702	27.38	0.202	0.514	29.62	0	
1/1/2019 9:30	1.588	41.59	10.67	0.749	29.62	0	
1/1/2019 9:45	2.626	52.14	3.104	0.567	29.62	0	
1/1/2019 10:00	3.11	39.77	13.99	0.63	29.59	0	
1/1/2019 10:15	4.92	48.79	8.16	0.861	29.59	0	
1/1/2019 10:30	4.802	32.41	8.56	1.4	29.59	0	
1/1/2019 10:45	4.217	36.34	11.31	1.449	29.59	0	
1/1/2019 11:00	4.016	23.39	13.63	1.707	29.6	0	
1/1/2019 11:15	3.718	13.49	12.65	2.299	29.6	0	
1/1/2019 11:30	3.401	28.38	8.08	2.504	29.6	0	
1/1/2019 11:45	2.765	37.58	13.16	2.894	29.6	0	
1/1/2019 12:00	1.385	16.37	16.72	3.598	29.57	0	
1/1/2019 12:15	0.325	316.6	6.993	4.792	29.57	0	
1/1/2019 12:30	3.119	209.1	28.68	4.727	29.57	0	
1/1/2019 12:45	1.569	152.3	67.08	4.766	29.57	0	
1/1/2019 13:00	1.334	37.88	38.54	4.701	29.55	0	
1/1/2019 13:15	2.143	233	28.45	4.991	29.55	0	
1/1/2019 13:30	2.342	277.3	26.66	4.845	29.55	0	
1/1/2019 13:45	3.411	318.1	11.99	4.788	29.55	0	
1/1/2019 14:00	2.524	343.3	10.48	4.715	29.53	0	
1/1/2019 14:15	2.592	353.1	12.36	4.692	29.53	0	
1/1/2019 14:30	1.845	26.25	16.16	4.495	29.53	0	
1/1/2019 14:45	1.99	45.86	1.961	4.321	29.53	0	

Cedar Hills Landfill  
Meteorological Data

1/1/2019 15:00	2.183	34.56	3.68	4.301	29.52	0
1/1/2019 15:15	2.955	25.99	10.49	4.156	29.52	0
1/1/2019 15:30	0.798	17.31	5.443	4.307	29.52	0
1/1/2019 15:45	1.415	286.3	17.68	4.531	29.52	0
1/1/2019 16:00	4.223	283.1	3.52	4.159	29.53	0
1/1/2019 16:15	3.219	282.1	5.075	3.995	29.53	0
1/1/2019 16:30	1.433	320.5	14.42	3.88	29.53	0
1/1/2019 16:45	0.381	16.3	27.51	3.673	29.53	0
1/1/2019 17:00	0.943	25.42	21.72	3.386	29.52	0
1/1/2019 17:15	4.119	12.18	15.29	3.266	29.52	0
1/1/2019 17:30	3.998	25.51	5.514	3.041	29.52	0
1/1/2019 17:45	2.803	39.55	7.581	2.851	29.52	0
1/1/2019 18:00	3.392	39.17	6.244	2.775	29.51	0
1/1/2019 18:15	3.896	31.17	8.19	2.666	29.51	0
1/1/2019 18:30	3.315	39.45	3.156	2.537	29.51	0
1/1/2019 18:45	2.629	49.3	7.168	2.333	29.51	0
1/1/2019 19:00	2.787	48.98	4.725	2.231	29.52	0
1/1/2019 19:15	3.314	70.28	11.53	1.911	29.52	0
1/1/2019 19:30	1.445	55.62	20.36	1.695	29.52	0
1/1/2019 19:45	1.452	41.17	6.851	2.256	29.52	0
1/1/2019 20:00	2.067	64.94	19.51	1.826	29.48	0
1/1/2019 20:15	1.628	101.6	0.594	1.609	29.48	0
1/1/2019 20:30	1.003	102	0.105	2.341	29.48	0
1/1/2019 20:45	1.578	117.2	3.589	1.56	29.48	0
1/1/2019 21:00	0.773	84.5	11.51	1.64	29.5	0
1/1/2019 21:15	2.002	95.2	17.47	1.863	29.5	0
1/1/2019 21:30	3.12	125.9	8.41	1.587	29.5	0
1/1/2019 21:45	3.426	122.6	4.744	1.321	29.5	0
1/1/2019 22:00	4.495	133.8	7.543	1.701	29.45	0
1/1/2019 22:15	6.546	149.4	5.412	1.246	29.45	0
1/1/2019 22:30	6.407	145.7	8.13	1.108	29.45	0
1/1/2019 22:45	4.672	163.5	14.85	1.434	29.45	0
1/1/2019 23:00	3.381	235.7	20.21	1.17	29.47	0
1/1/2019 23:15	1.324	223.2	30.75	1.195	29.47	0
1/1/2019 23:30	0.612	70.64	59.57	1.19	29.47	0
1/1/2019 23:45	2.506	217	16.49	1.567	29.47	0
1/2/2019 0:00	3.458	204.6	3.404	2.105	29.46	0
1/2/2019 0:15	2.523	203.2	37.73	1.411	29.46	0
1/2/2019 0:30	0.75	82	9.28	0.473	29.46	0
1/2/2019 0:45	1.374	83.2	9.06	0.397	29.46	0
1/2/2019 1:00	3.829	123.9	6.124	0.523	29.46	0
1/2/2019 1:15	4.849	153.7	10.8	0.82	29.46	0
1/2/2019 1:30	6.124	138.4	11.58	0.9	29.46	0
1/2/2019 1:45	7.51	138.6	9.89	1.014	29.46	0
1/2/2019 2:00	7.674	166.9	12.73	1.246	29.44	0
1/2/2019 2:15	7.339	179.5	9.87	0.816	29.44	0
1/2/2019 2:30	5.681	190.5	13.24	1.041	29.44	0
1/2/2019 2:45	4.382	170.9	21.73	0.815	29.44	0
1/2/2019 3:00	2.749	185.2	12.21	0.517	29.41	0
1/2/2019 3:15	3.632	178.7	12.06	0.578	29.41	0
1/2/2019 3:30	3.476	147.9	9.66	0.491	29.41	0
1/2/2019 3:45	3.898	178.5	11.58	0.961	29.41	0
1/2/2019 4:00	5.403	172.4	7.901	1.387	29.41	0
1/2/2019 4:15	4.588	159.7	9.63	1.251	29.41	0
1/2/2019 4:30	5.099	134.9	11.04	1.113	29.41	0
1/2/2019 4:45	5.352	129.5	7.115	1.244	29.41	0
1/2/2019 5:00	5.885	149.2	5.445	1.805	29.36	0.01
1/2/2019 5:15	6.026	163.9	8.19	2.256	29.36	0
1/2/2019 5:30	6.081	173.3	7.658	2.532	29.36	0
1/2/2019 5:45	5.215	181.8	10.1	2.047	29.36	0
1/2/2019 6:00	3.595	150.2	16.35	2.006	29.39	0
1/2/2019 6:15	3.295	116.2	8.17	1.701	29.39	0
1/2/2019 6:30	5.032	126.9	10.7	2.108	29.39	0
1/2/2019 6:45	5.724	155.5	8.67	3.008	29.39	0
1/2/2019 7:00	6.348	177	15.57	2.875	29.35	0
1/2/2019 7:15	5.896	162.4	21.44	2.44	29.35	0

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1/2/2019 7:30	5.656	149.1	14.37	3.118	29.35	0
1/2/2019 7:45	2.261	8.16	40.65	2.177	29.35	0
1/2/2019 8:00	1.528	354	67.01	2.155	29.36	0.01
1/2/2019 8:15	1.552	172.7	37.89	3.217	29.36	0
1/2/2019 8:30	0.94	16.69	54.72	2.41	29.36	0
1/2/2019 8:45	4.633	157.1	20.21	3.018	29.36	0
1/2/2019 9:00	3.357	128.3	16.25	3.103	29.35	0
1/2/2019 9:15	4.283	179.8	15.43	3.793	29.35	0
1/2/2019 9:30	4.468	188.1	19.16	3.68	29.35	0
1/2/2019 9:45	3.189	191.7	44.81	4.225	29.35	0
1/2/2019 10:00	4.368	209	14.77	4.308	29.35	0
1/2/2019 10:15	6.27	170.9	13.48	4.094	29.35	0.01
1/2/2019 10:30	4.714	157.9	22.03	4.191	29.35	0
1/2/2019 10:45	4.879	161.5	11.46	4.629	29.35	0
1/2/2019 11:00	6.188	159.8	20.42	5.229	29.32	0
1/2/2019 11:15	5.895	180	28.87	5.682	29.32	0
1/2/2019 11:30	8.04	216.8	8.25	4.867	29.32	0
1/2/2019 11:45	7.464	217.4	13.61	5.633	29.32	0
1/2/2019 12:00	5.749	268.7	12.41	6.064	29.33	0
1/2/2019 12:15	2.183	288.8	25.81	6.114	29.33	0
1/2/2019 12:30	2.723	121.7	18.71	6.189	29.33	0
1/2/2019 12:45	3.268	186.5	24.78	6.496	29.33	0
1/2/2019 13:00	6.073	248	8.11	6.323	29.28	0
1/2/2019 13:15	7.964	271.1	6.593	5.333	29.28	0
1/2/2019 13:30	6.292	269.6	7.907	5.274	29.28	0
1/2/2019 13:45	1.556	331.9	20.8	5.361	29.28	0
1/2/2019 14:00	0.616	34.81	35.13	5.531	29.26	0
1/2/2019 14:15	2.687	131.7	30.59	5.718	29.26	0
1/2/2019 14:30	4.94	205.3	10.48	5.903	29.26	0
1/2/2019 14:45	5.447	208	9.87	5.771	29.26	0
1/2/2019 15:00	4.098	214	7.18	5.726	29.27	0
1/2/2019 15:15	4.488	198.7	10.41	5.634	29.27	0
1/2/2019 15:30	4.317	195	11.67	5.714	29.27	0
1/2/2019 15:45	2.554	154.9	17.33	5.662	29.27	0
1/2/2019 16:00	3.083	127.2	23.21	5.703	29.25	0
1/2/2019 16:15	5.326	182.1	32.06	5.698	29.25	0
1/2/2019 16:30	6.403	184.3	17.27	5.998	29.25	0
1/2/2019 16:45	3.699	145.8	11.91	6.263	29.25	0
1/2/2019 17:00	1.647	129.6	34.88	6.352	29.25	0
1/2/2019 17:15	3.303	177.4	20	7.345	29.25	0
1/2/2019 17:30	5.177	199.8	16.86	7.134	29.25	0
1/2/2019 17:45	3.699	192.7	18.67	6.788	29.25	0
1/2/2019 18:00	4.789	211.7	13.49	6.688	29.26	0
1/2/2019 18:15	3.731	211.4	17.37	6.544	29.26	0
1/2/2019 18:30	4.656	157	21.52	6.453	29.26	0
1/2/2019 18:45	4.765	131.9	7.942	6.329	29.26	0
1/2/2019 19:00	6.501	140.7	10.66	6.491	29.26	0
1/2/2019 19:15	5.244	159.6	11.43	6.619	29.26	0
1/2/2019 19:30	5.236	170.4	15.06	6.433	29.26	0
1/2/2019 19:45	3.273	164.2	18.9	6.317	29.26	0
1/2/2019 20:00	3.942	198.2	16.03	6.316	29.23	0
1/2/2019 20:15	4.59	181.3	22.9	6.277	29.23	0
1/2/2019 20:30	5.078	171	18.92	6.539	29.23	0
1/2/2019 20:45	3.736	118.9	20.49	6.555	29.23	0
1/2/2019 21:00	3.521	136.2	19.28	6.562	29.19	0
1/2/2019 21:15	5.022	150.7	13.19	7.427	29.19	0
1/2/2019 21:30	4.893	149.5	13.43	7.322	29.19	0
1/2/2019 21:45	5.781	153.1	14.96	7.223	29.19	0
1/2/2019 22:00	6.055	136.3	11.54	7.006	29.19	0
1/2/2019 22:15	5.974	156.8	16.39	6.839	29.19	0
1/2/2019 22:30	7.143	153.6	9.01	7.055	29.19	0
1/2/2019 22:45	3.168	132.7	17.06	7.31	29.19	0
1/2/2019 23:00	3.475	182	32.79	7.509	29.15	0
1/2/2019 23:15	4.56	199.9	27.97	6.922	29.15	0
1/2/2019 23:30	4.225	210.3	26.04	6.623	29.15	0.04
1/2/2019 23:45	3.307	199.4	22.41	6.319	29.15	0.02

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1/3/2019 0:00	1.988	148.2	53.47	5.915	29.15	0.02
1/3/2019 0:15	2.553	97.7	9.84	5.716	29.15	0
1/3/2019 0:30	5.614	106.2	7.249	6.124	29.15	0
1/3/2019 0:45	6.12	103.1	10.97	6.648	29.15	0.01
1/3/2019 1:00	7.195	125.7	14.65	6.963	29.14	0
1/3/2019 1:15	8.69	135.9	12.13	7.299	29.14	0
1/3/2019 1:30	9.6	140.8	12.32	7.859	29.14	0
1/3/2019 1:45	6.608	130.3	12.08	8.5	29.14	0
1/3/2019 2:00	3.322	118.5	12.12	8.82	29.11	0.05
1/3/2019 2:15	3.022	106.5	16.61	8.62	29.11	0.03
1/3/2019 2:30	3.65	126.5	23.45	8.71	29.11	0.02
1/3/2019 2:45	2.53	142	26.02	8.28	29.11	0.04
1/3/2019 3:00	4.044	234.3	38	8.35	29.12	0.03
1/3/2019 3:15	3.929	265.8	12.51	7.975	29.12	0.02
1/3/2019 3:30	4.626	299	12.32	7.728	29.12	0.02
1/3/2019 3:45	4.185	321.7	6.138	7.715	29.12	0
1/3/2019 4:00	3.014	17.34	19.63	7.608	29.09	0.02
1/3/2019 4:15	3.61	24.85	5.605	7.368	29.09	0.02
1/3/2019 4:30	2.036	5.71	15.4	7.523	29.09	0.03
1/3/2019 4:45	1.322	25.8	20	7.736	29.09	0.03
1/3/2019 5:00	3.506	84.9	25.16	7.748	29.1	0.02
1/3/2019 5:15	4.631	119.6	9.07	7.965	29.1	0.03
1/3/2019 5:30	5.73	125.8	8.95	8.01	29.1	0.01
1/3/2019 5:45	6.568	124.7	8.5	8.07	29.1	0.01
1/3/2019 6:00	7.958	119.1	7.055	8.23	29.05	0.02
1/3/2019 6:15	7.417	115.2	9.05	8.42	29.05	0.01
1/3/2019 6:30	5.901	114.8	12.23	8.68	29.05	0.02
1/3/2019 6:45	7.445	134.6	8.12	8.77	29.05	0.03
1/3/2019 7:00	8.47	149.1	10.67	8.78	29.05	0.02
1/3/2019 7:15	7.462	149.4	7.671	8.68	29.05	0.03
1/3/2019 7:30	7.275	140	10.23	8.78	29.05	0.04
1/3/2019 7:45	8.35	150.1	6.964	8.85	29.05	0.02
1/3/2019 8:00	6.274	145	7.876	8.83	29.07	0.03
1/3/2019 8:15	6.31	141.5	8.96	8.85	29.07	0.03
1/3/2019 8:30	7.222	145.1	8.02	9.01	29.07	0.02
1/3/2019 8:45	9.49	147.8	8.31	9.15	29.07	0.03
1/3/2019 9:00	9.42	148.1	8.06	9.14	29.06	0.02
1/3/2019 9:15	9.15	142.1	7.939	9.17	29.06	0.02
1/3/2019 9:30	9.16	142.5	7.702	9.28	29.06	0
1/3/2019 9:45	10.93	145.2	7.967	9.5	29.06	0
1/3/2019 10:00	11.01	154.5	7.794	9.71	29.05	0
1/3/2019 10:15	11.25	162.3	7.985	9.91	29.05	0
1/3/2019 10:30	14.38	169.8	9.17	10.33	29.05	0
1/3/2019 10:45	14.4	175.4	7.797	10.51	29.05	0
1/3/2019 11:00	13.49	173.9	9.1	10.65	29.05	0
1/3/2019 11:15	12.33	174.3	8.56	10.76	29.05	0
1/3/2019 11:30	13.3	173.8	9.28	11.03	29.05	0
1/3/2019 11:45	13.03	174.4	10.01	11.22	29.05	0
1/3/2019 12:00	13.6	172.9	8.97	11.4	29.03	0
1/3/2019 12:15	15.98	176	9.53	11.54	29.03	0
1/3/2019 12:30	13.58	170.7	9.43	11.62	29.03	0
1/3/2019 12:45	11.79	178.6	11.81	11.66	29.03	0
1/3/2019 13:00	13.76	186.3	12.2	11.66	29.02	0
1/3/2019 13:15	12.04	178.9	8.94	11.56	29.02	0
1/3/2019 13:30	12.57	185.7	8.76	11.5	29.02	0
1/3/2019 13:45	10.9	181.4	8.35	11.37	29.02	0
1/3/2019 14:00	9.99	184.8	9.04	11.1	28.99	0
1/3/2019 14:15	12.35	189	10.79	11.34	28.99	0
1/3/2019 14:30	15.01	194.3	10.2	11.36	28.99	0
1/3/2019 14:45	13.48	197.9	8.35	11.33	28.99	0
1/3/2019 15:00	14.22	189.9	9.13	11.55	28.98	0
1/3/2019 15:15	15.35	188.3	8.67	11.68	28.98	0
1/3/2019 15:30	16.57	185.2	8.73	11.78	28.98	0
1/3/2019 15:45	14.41	189.6	8.7	11.69	28.98	0
1/3/2019 16:00	13	190.8	9.2	11.64	28.98	0
1/3/2019 16:15	13.82	182.5	10.25	11.61	28.98	0



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1/3/2019 16:30	13.9	180.6	9.15	11.64	28.98	0
1/3/2019 16:45	14.06	186.8	9.27	11.51	28.98	0
1/3/2019 17:00	14.76	187.9	9.33	11.6	28.97	0
1/3/2019 17:15	14.95	187.7	8.54	11.66	28.97	0
1/3/2019 17:30	16.4	182.6	9.67	11.75	28.97	0
1/3/2019 17:45	15.27	183.4	10.14	11.73	28.97	0
1/3/2019 18:00	15.33	177.3	8.61	11.72	28.92	0
1/3/2019 18:15	15.19	186.8	8.94	11.75	28.92	0
1/3/2019 18:30	16.42	188.6	9.72	11.89	28.92	0
1/3/2019 18:45	18.17	186.5	9.84	11.99	28.92	0
1/3/2019 19:00	19.03	191.6	9.23	12.02	28.92	0
1/3/2019 19:15	18.31	193	9.92	11.95	28.92	0
1/3/2019 19:30	19.95	189.7	9.42	11.98	28.92	0
1/3/2019 19:45	15.65	190	9.92	11.86	28.92	0
1/3/2019 20:00	18.35	195.3	9.79	11.87	28.92	0
1/3/2019 20:15	19.55	194.9	8.73	11.86	28.92	0
1/3/2019 20:30	22.02	193.6	8.64	11.96	28.92	0
1/3/2019 20:45	19.21	176.4	9.66	12.03	28.92	0
1/3/2019 21:00	20.56	172.5	8.78	12.17	28.87	0
1/3/2019 21:15	19.02	173.4	8.67	12.24	28.87	0
1/3/2019 21:30	17.91	168.3	10.06	12.32	28.87	0
1/3/2019 21:45	21.08	165	10.46	12.52	28.87	0
1/3/2019 22:00	20.23	172.3	8.41	12.68	28.86	0
1/3/2019 22:15	21.56	176.3	10.01	12.76	28.86	0
1/3/2019 22:30	21.17	179.4	8.72	11.96	28.86	0.01
1/3/2019 22:45	16.99	175.4	9.9	11.22	28.86	0
1/3/2019 23:00	17.32	171.9	8.98	11.04	28.86	0.01
1/3/2019 23:15	16.59	178.6	9.07	10.7	28.86	0
1/3/2019 23:30	17.58	198.4	8.8	10.17	28.86	0.02
1/3/2019 23:45	15.72	217.5	18.47	9.47	28.86	0.04
1/4/2019 0:00	15.2	245.5	8.25	8.42	28.94	0.03
1/4/2019 0:15	16.23	233.9	11.6	8.14	28.94	0.03
1/4/2019 0:30	23.34	218.3	8.95	8.44	28.94	0.02
1/4/2019 0:45	21.21	203	11.88	8.35	28.94	0.01
1/4/2019 1:00	16.63	176	11.65	8.09	28.94	0
1/4/2019 1:15	13.67	156	7.837	7.937	28.94	0
1/4/2019 1:30	13.75	151.5	8.73	7.961	28.94	0
1/4/2019 1:45	12.35	163.2	10.52	8.02	28.94	0
1/4/2019 2:00	13.67	157.3	6.578	7.969	28.93	0
1/4/2019 2:15	12.8	159.1	9.96	8.07	28.93	0
1/4/2019 2:30	11.71	154.1	7.054	8.04	28.93	0
1/4/2019 2:45	11.43	152.2	6.774	8.13	28.93	0
1/4/2019 3:00	11.03	155.1	11.3	8.06	28.96	0
1/4/2019 3:15	13.62	184.1	9.39	8.07	28.96	0
1/4/2019 3:30	15.76	181.5	9.42	7.821	28.96	0
1/4/2019 3:45	12.91	177	10.66	7.418	28.96	0
1/4/2019 4:00	7.766	134.3	11.08	7.02	28.95	0
1/4/2019 4:15	9.6	135.6	11.18	7.229	28.95	0
1/4/2019 4:30	12.26	147.3	6.318	7.418	28.95	0
1/4/2019 4:45	14.44	155.2	6.085	7.681	28.95	0
1/4/2019 5:00	11.58	152.8	5.651	7.519	28.97	0
1/4/2019 5:15	10.86	147.9	6.252	7.505	28.97	0
1/4/2019 5:30	12.44	165.4	12.36	7.727	28.97	0
1/4/2019 5:45	17.41	173	10.7	7.889	28.97	0
1/4/2019 6:00	11.85	141	12.16	7.587	28.96	0
1/4/2019 6:15	11.28	151.6	7.26	7.388	28.96	0
1/4/2019 6:30	13.08	165	12.86	7.817	28.96	0
1/4/2019 6:45	11.48	170.6	8.15	7.972	28.96	0
1/4/2019 7:00	11.04	177.3	7.31	8	29	0
1/4/2019 7:15	7.831	195.6	8.75	7.628	29	0
1/4/2019 7:30	7.329	203.5	8.92	7.516	29	0
1/4/2019 7:45	6.385	149.7	12.9	6.687	29	0
1/4/2019 8:00	8.88	153.1	16.32	6.81	28.99	0
1/4/2019 8:15	9.76	150	7.409	7.025	28.99	0
1/4/2019 8:30	11.17	150.5	5.435	7.149	28.99	0
1/4/2019 8:45	11.17	164.7	10.02	7.495	28.99	0

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1/4/2019 9:00	11.92	178.4	9.33	7.721	29.02	0
1/4/2019 9:15	13.92	178.6	7.254	7.846	29.02	0
1/4/2019 9:30	13.98	179.3	7.998	7.845	29.02	0
1/4/2019 9:45	13.74	179.2	7.464	8.03	29.02	0
1/4/2019 10:00	15.34	186.4	7.658	8.32	29.01	0
1/4/2019 10:15	13.32	181.3	9.21	8.48	29.01	0
1/4/2019 10:30	13.8	183.2	8.26	8.69	29.01	0
1/4/2019 10:45	11.22	182	9.57	8.82	29.01	0
1/4/2019 11:00	9.22	185.4	10.06	9.17	29.04	0
1/4/2019 11:15	11.24	199.1	10.21	9.43	29.04	0
1/4/2019 11:30	11.17	199	10.98	9.54	29.04	0
1/4/2019 11:45	12.27	195.9	9.44	9.71	29.04	0
1/4/2019 12:00	10.94	199.4	8.31	9.66	29.03	0
1/4/2019 12:15	12.16	210	9.75	9.62	29.03	0
1/4/2019 12:30	11.38	212.7	7.858	9.61	29.03	0
1/4/2019 12:45	12.15	227.3	8.46	9.49	29.03	0
1/4/2019 13:00	8.15	254	12.81	9	29.02	0
1/4/2019 13:15	6.958	272.1	11.41	8.34	29.02	0
1/4/2019 13:30	6.331	275.5	10.2	8.02	29.02	0
1/4/2019 13:45	3.312	300.1	27.7	8.16	29.02	0
1/4/2019 14:00	1.264	27.15	32.11	8.27	29.02	0
1/4/2019 14:15	2.261	49.87	6.32	8	29.02	0
1/4/2019 14:30	2.269	51.86	7.434	7.882	29.02	0
1/4/2019 14:45	1.12	98.5	45.7	8.03	29.02	0
1/4/2019 15:00	4.848	210.1	31.32	8.52	29.01	0
1/4/2019 15:15	4.822	232.2	15.39	8.52	29.01	0
1/4/2019 15:30	2.664	219.5	8.19	8.42	29.01	0
1/4/2019 15:45	1.032	221.7	15.4	8.26	29.01	0
1/4/2019 16:00	2.484	6.864	25.27	7.923	29.04	0
1/4/2019 16:15	3.441	347.9	18.11	7.857	29.04	0
1/4/2019 16:30	2.844	13.93	7.072	7.609	29.04	0
1/4/2019 16:45	2.752	24.07	46.89	7.536	29.04	0
1/4/2019 17:00	2.172	351	41.23	8.02	29.02	0
1/4/2019 17:15	3.15	13.41	10.47	7.491	29.02	0
1/4/2019 17:30	2.004	0.849	13.91	7.616	29.02	0
1/4/2019 17:45	3.667	21.73	7.998	7.511	29.02	0
1/4/2019 18:00	3.561	23.11	11.71	7.193	29.03	0
1/4/2019 18:15	3.116	26.96	9.36	7.24	29.03	0
1/4/2019 18:30	3.67	20.84	6.887	7.196	29.03	0
1/4/2019 18:45	3.397	20.85	7.302	7.017	29.03	0
1/4/2019 19:00	4.352	38.94	16.57	6.876	29.02	0
1/4/2019 19:15	3.325	27.97	9.14	6.818	29.02	0
1/4/2019 19:30	4.425	37.54	7.305	6.858	29.02	0
1/4/2019 19:45	3.92	31.17	6.99	6.547	29.02	0
1/4/2019 20:00	2.755	13.63	10.48	6.543	29.03	0
1/4/2019 20:15	4.072	36.2	8.76	6.415	29.03	0
1/4/2019 20:30	2.452	41.35	16.33	6.183	29.03	0
1/4/2019 20:45	2.686	44.94	15.21	6.011	29.03	0
1/4/2019 21:00	2.273	68.83	4.741	6.011	29	0
1/4/2019 21:15	2.507	49.53	13.44	6.115	29	0
1/4/2019 21:30	3.543	49.68	28.58	5.723	29	0
1/4/2019 21:45	4.946	36.82	7.972	5.451	29	0
1/4/2019 22:00	3.941	42.44	10.88	5.403	28.97	0
1/4/2019 22:15	3.072	89.8	11.91	5.394	28.97	0
1/4/2019 22:30	3.212	20.53	31.08	6.11	28.97	0
1/4/2019 22:45	4.904	17.17	6.37	5.747	28.97	0
1/4/2019 23:00	4.882	16.77	6.444	5.588	28.94	0
1/4/2019 23:15	4.057	27.38	9.61	5.527	28.94	0
1/4/2019 23:30	3.472	47.33	17.64	5.329	28.94	0
1/4/2019 23:45	4.371	14.75	9.35	5.412	28.94	0
1/5/2019 0:00	4.228	359.9	11.79	6.061	28.93	0
1/5/2019 0:15	3.527	37.93	28.18	5.95	28.93	0
1/5/2019 0:30	2.413	29.75	12.47	6.009	28.93	0
1/5/2019 0:45	2.103	30.53	18.23	6.246	28.93	0
1/5/2019 1:00	3.22	33.29	6.572	5.891	28.92	0
1/5/2019 1:15	2.327	32.17	8.52	6.222	28.92	0

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1/5/2019 1:30	1.025	13.55	8.93	5.452	28.92	0
1/5/2019 1:45	1.599	39.09	64.39	5.968	28.92	0
1/5/2019 2:00	2.308	198.5	59.65	6.958	28.9	0
1/5/2019 2:15	4.013	33.35	9.26	5.432	28.9	0
1/5/2019 2:30	2.253	120.5	44.74	7.172	28.9	0
1/5/2019 2:45	1.821	54.82	44.35	6.793	28.9	0
1/5/2019 3:00	1.463	97.4	31.18	6.27	28.87	0
1/5/2019 3:15	2.537	159.1	15.57	7.33	28.87	0
1/5/2019 3:30	0.968	83.6	25.6	6.972	28.87	0
1/5/2019 3:45	1.895	103.1	27.58	6.677	28.87	0
1/5/2019 4:00	1.266	64.98	11.95	6.713	28.83	0
1/5/2019 4:15	3.427	38.49	6.934	6.003	28.83	0
1/5/2019 4:30	3.577	29.75	11.59	6.391	28.83	0
1/5/2019 4:45	4.068	30.33	5.726	6.386	28.83	0
1/5/2019 5:00	4.206	21.88	8.8	6.276	28.81	0
1/5/2019 5:15	2.869	12.63	14.81	6.609	28.81	0
1/5/2019 5:30	2.931	318.7	36.88	6.699	28.81	0
1/5/2019 5:45	3.077	298.2	14.21	6.969	28.81	0
1/5/2019 6:00	0.74	260.8	41.14	7.575	28.8	0
1/5/2019 6:15	2.332	110.5	21.53	8.35	28.8	0
1/5/2019 6:30	7.062	114.2	9.9	8.83	28.8	0
1/5/2019 6:45	6.522	118.8	9.31	8.71	28.8	0
1/5/2019 7:00	7.105	120.4	9.56	8.6	28.76	0
1/5/2019 7:15	7.707	118.6	10.29	8.56	28.76	0
1/5/2019 7:30	6.591	128.3	8.88	8.76	28.76	0
1/5/2019 7:45	6.931	138.7	9.1	8.91	28.76	0
1/5/2019 8:00	7.139	138.1	8.62	9.13	28.73	0
1/5/2019 8:15	6.828	133.9	9.39	9.16	28.73	0
1/5/2019 8:30	6.21	126.9	11.21	9.16	28.73	0
1/5/2019 8:45	5.802	119.4	14.43	9.31	28.73	0
1/5/2019 9:00	8.28	127.2	12.95	9.73	28.7	0
1/5/2019 9:15	8.48	119.8	14.91	9.82	28.7	0
1/5/2019 9:30	9.71	124.8	12.73	10.15	28.7	0
1/5/2019 9:45	13.18	131.3	10.69	10.79	28.7	0
1/5/2019 10:00	13.33	129.3	10.53	10.92	28.68	0
1/5/2019 10:15	14.61	132.1	10.45	11.1	28.68	0
1/5/2019 10:30	14.57	124.2	11.85	11.32	28.68	0
1/5/2019 10:45	15.34	129.5	10.83	11.44	28.68	0
1/5/2019 11:00	15.46	131	10.85	11.49	28.65	0
1/5/2019 11:15	12.71	130.1	10.54	11.55	28.65	0
1/5/2019 11:30	11.3	126.4	10.59	11.77	28.65	0
1/5/2019 11:45	12.02	130.3	10.88	11.94	28.65	0
1/5/2019 12:00	12.7	122.3	11.67	11.97	28.63	0
1/5/2019 12:15	14.14	128	10.28	11.93	28.63	0
1/5/2019 12:30	14.52	133	11.54	12.34	28.63	0
1/5/2019 12:45	18.08	131.5	12.15	12.4	28.63	0
1/5/2019 13:00	14.78	135.6	10.78	12.22	28.58	0
1/5/2019 13:15	13.71	131.7	11.55	12.11	28.58	0
1/5/2019 13:30	14.17	133.9	11.76	11.85	28.58	0
1/5/2019 13:45	13.84	131.8	10.5	11.77	28.58	0
1/5/2019 14:00	12.68	133.9	11.32	11.73	28.58	0
1/5/2019 14:15	12.44	132.4	9.8	11.66	28.58	0
1/5/2019 14:30	13.52	130.1	11.38	11.63	28.58	0
1/5/2019 14:45	12.04	130.8	11.01	11.66	28.58	0
1/5/2019 15:00	12.75	136.1	11.97	11.55	28.54	0
1/5/2019 15:15	10.07	147.4	12.77	11.39	28.54	0
1/5/2019 15:30	13.05	159.9	6.975	11.06	28.54	0
1/5/2019 15:45	14.69	157.6	6.891	10.84	28.54	0
1/5/2019 16:00	15.55	140.9	11.98	10.91	28.54	0
1/5/2019 16:15	11.63	151.8	10.93	10.68	28.54	0
1/5/2019 16:30	9.11	192.5	21.58	10.11	28.54	0
1/5/2019 16:45	10.78	178.7	14.11	9.42	28.54	0
1/5/2019 17:00	7.567	158.4	12.72	8.48	28.54	0
1/5/2019 17:15	4.803	128.4	33.81	8.13	28.54	0
1/5/2019 17:30	4.972	83.3	20.78	8.56	28.54	0
1/5/2019 17:45	6.587	89	21.9	9.12	28.54	0

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1/5/2019 18:00	6.1	56.11	14.87	9.04	28.46	0	
1/5/2019 18:15	5.494	59.63	10.2	9.21	28.46	0	
1/5/2019 18:30	5.042	90.6	24.17	9.43	28.46	0	
1/5/2019 18:45	6.563	108.2	14.33	9.76	28.46	0	
1/5/2019 19:00	7.625	107.8	18.15	9.76	28.41	0	
1/5/2019 19:15	11.96	116.2	14.14	10.17	28.41	0	
1/5/2019 19:30	12.63	117.2	15	10.51	28.41	0	
1/5/2019 19:45	13.18	118.2	13.4	10.69	28.41	0	
1/5/2019 20:00	10.16	145.1	14.81	10.71	28.4	0	
1/5/2019 20:15	15.77	146.9	11.26	10.66	28.4	0	
1/5/2019 20:30	18.17	137.2	8.76	10.68	28.4	0	
1/5/2019 20:45	15.8	137.7	10.99	10.66	28.4	0	
1/5/2019 21:00	14.77	121.7	12.14	10.67	28.39	0	
1/5/2019 21:15	17.19	135.4	10.31	10.76	28.39	0	
1/5/2019 21:30	13.72	143.4	15.98	10.38	28.39	0	
1/5/2019 21:45	10.59	130.2	14.51	9.86	28.39	0	
1/5/2019 22:00	12.09	114.2	12.31	10.05	28.38	0	
1/5/2019 22:15	11.34	123.7	15.5	9.74	28.38	0	
1/5/2019 22:30	7.009	102.2	21.72	9.28	28.38	0	
1/5/2019 22:45	8.06	97.3	23.86	8.89	28.38	0	
1/5/2019 23:00	4.982	70.53	16.87	8.34	28.39	0	
1/5/2019 23:15	6.205	102.7	33.32	8.41	28.39	0	
1/5/2019 23:30	11.37	139.1	10.99	8.63	28.39	0	
1/5/2019 23:45	10.56	142.2	12.34	8.74	28.39	0	
1/6/2019 0:00	12.5	129.2	11.5	8.78	28.33	0	Rain gage was broken from 1/6 to 1/28
1/6/2019 0:15	16.64	127.7	10.28	8.95	28.33	0	
1/6/2019 0:30	14.47	130.1	10.97	8.82	28.33	0	
1/6/2019 0:45	13.98	144	13.91	8.96	28.33	0	
1/6/2019 1:00	13.36	151.9	9.38	9.11	28.36	0	
1/6/2019 1:15	16.14	161.7	13.08	9.22	28.36	0	
1/6/2019 1:30	31.83	178.9	11.12	10.55	28.36	0	
1/6/2019 1:45	33.96	186.1	10.09	10.09	28.36	0	
1/6/2019 2:00	41.95	188.8	9.5	8.98	28.42	0	
1/6/2019 2:15	44.21	195.6	10.69	7.124	28.42	0	
1/6/2019 2:30	39.12	196.8	9.9	5.935	28.42	0	
1/6/2019 2:45	40.72	200.4	9.64	4.734	28.42	0	
1/6/2019 3:00	33.89	202.8	9.93	4.667	28.56	0	
1/6/2019 3:15	32.83	208.4	9.32	4.595	28.56	0	
1/6/2019 3:30	25.53	198.9	9.24	4.532	28.56	0	
1/6/2019 3:45	24.37	203	8.15	4.368	28.56	0	
1/6/2019 4:00	24.88	194.6	8.76	4.315	28.62	0	
1/6/2019 4:15	18.95	193.4	9.54	4.291	28.62	0	
1/6/2019 4:30	16.56	193.6	12.69	4.204	28.62	0	
1/6/2019 4:45	15.75	186.5	8.9	4.091	28.62	0	
1/6/2019 5:00	13.79	191.2	11.21	4.07	28.65	0	
1/6/2019 5:15	14.01	188	9.64	4.11	28.65	0	
1/6/2019 5:30	15.46	182.5	9.93	4.349	28.65	0	
1/6/2019 5:45	13.93	182.3	8.94	4.435	28.65	0	
1/6/2019 6:00	13.65	183.5	10.81	4.443	28.69	0	
1/6/2019 6:15	12.54	190.6	9.67	4.486	28.69	0	
1/6/2019 6:30	10.33	180.2	10.71	4.251	28.69	0	
1/6/2019 6:45	12.14	179.2	7.603	4.266	28.69	0	
1/6/2019 7:00	10.89	176.5	9.39	4.347	28.72	0	
1/6/2019 7:15	10.76	165.8	8.99	4.289	28.72	0	
1/6/2019 7:30	11.81	168.4	7.848	4.361	28.72	0	
1/6/2019 7:45	11.56	165.6	9.47	4.377	28.72	0	
1/6/2019 8:00	9.59	161.8	7.158	4.279	28.75	0	
1/6/2019 8:15	10.67	154.6	9.29	4.288	28.75	0	
1/6/2019 8:30	11.35	163.8	10.02	4.281	28.75	0	
1/6/2019 8:45	10.8	174.2	11.49	4.102	28.75	0	
1/6/2019 9:00	9.58	166.9	8.2	3.752	28.77	0	
1/6/2019 9:15	8.02	155.4	7.096	3.83	28.77	0	
1/6/2019 9:30	9.96	157.4	6.56	4.381	28.77	0	
1/6/2019 9:45	9.4	161.7	7.727	4.406	28.77	0	
1/6/2019 10:00	7.675	170.6	8.69	4.56	28.79	0	
1/6/2019 10:15	9.15	177.6	7.814	4.729	28.79	0	

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1/6/2019 10:30	10.53	176.7	9.43	4.898	28.79	0
1/6/2019 10:45	8.57	179.1	9.31	5.167	28.79	0
1/6/2019 11:00	10.01	186	10.45	5.491	28.77	0
1/6/2019 11:15	9.19	178.8	11.42	5.891	28.77	0
1/6/2019 11:30	8.53	169.7	14.17	6.15	28.77	0
1/6/2019 11:45	8.34	163.5	11.57	6.065	28.77	0
1/6/2019 12:00	8.42	166.3	9.16	6.176	28.75	0
1/6/2019 12:15	7.476	173.8	18.19	6.389	28.75	0
1/6/2019 12:30	7.912	197.5	9.3	6.344	28.75	0
1/6/2019 12:45	7.245	201.9	8.71	6.437	28.75	0
1/6/2019 13:00	6.507	193.1	10.47	6.416	28.76	0
1/6/2019 13:15	5.268	199	11.75	6.424	28.76	0
1/6/2019 13:30	4.989	202.6	10.18	6.501	28.76	0
1/6/2019 13:45	5.597	198.7	9.9	6.535	28.76	0
1/6/2019 14:00	8.49	214.1	20.58	6.369	28.73	0
1/6/2019 14:15	7.037	260.6	14.52	6.221	28.73	0
1/6/2019 14:30	4.62	284.5	16.48	6.299	28.73	0
1/6/2019 14:45	1.973	285.3	33.28	6.414	28.73	0
1/6/2019 15:00	4.042	286.4	15.29	6.267	28.73	0
1/6/2019 15:15	6.393	283.4	13.97	5.828	28.73	0
1/6/2019 15:30	5.766	293.4	8.59	5.566	28.73	0
1/6/2019 15:45	7.235	287.4	7.238	5.29	28.73	0
1/6/2019 16:00	7.321	287.9	4.038	5.036	28.74	0
1/6/2019 16:15	5.686	283	4.199	4.853	28.74	0
1/6/2019 16:30	5.349	287.5	6.953	4.726	28.74	0
1/6/2019 16:45	5.696	291	4.207	4.541	28.74	0
1/6/2019 17:00	6.966	298.2	4.682	4.274	28.75	0
1/6/2019 17:15	7.994	299.6	3.759	4.031	28.75	0
1/6/2019 17:30	7.436	306.8	4.127	3.83	28.75	0
1/6/2019 17:45	7.392	306	3.974	3.724	28.75	0
1/6/2019 18:00	8.24	295.7	7.896	3.585	28.75	0
1/6/2019 18:15	9.76	294.4	7.577	3.236	28.75	0
1/6/2019 18:30	8.88	283.5	6.786	2.869	28.75	0
1/6/2019 18:45	6.994	283.7	9.12	2.626	28.75	0
1/6/2019 19:00	6.455	274.9	10.76	2.318	28.76	0
1/6/2019 19:15	5.6	264.3	19.63	1.784	28.76	0
1/6/2019 19:30	6.181	226	10.89	0.983	28.76	0
1/6/2019 19:45	3.359	172.8	32.36	0.282	28.76	0
1/6/2019 20:00	2.03	112.7	9	0.146	28.76	0
1/6/2019 20:15	3.674	136.9	6.408	0.079	28.76	0
1/6/2019 20:30	5.12	143.8	6.997	0.139	28.76	0
1/6/2019 20:45	6.424	165.3	8.88	0.144	28.76	0
1/6/2019 21:00	5.245	163.1	11.11	0.226	28.8	0
1/6/2019 21:15	4.388	159.3	14.21	0.295	28.8	0
1/6/2019 21:30	4.703	142.7	17.16	0.359	28.8	0
1/6/2019 21:45	5.876	165	7.316	0.326	28.8	0
1/6/2019 22:00	4.669	169.7	7.028	0.263	28.81	0
1/6/2019 22:15	4.31	164.7	11.2	0.172	28.81	0
1/6/2019 22:30	3.025	130.4	8.48	0.092	28.81	0
1/6/2019 22:45	3.234	137.8	5.526	0.111	28.81	0
1/6/2019 23:00	3.5	133.2	6.972	0.144	28.86	0
1/6/2019 23:15	3.839	132.3	9.49	0.241	28.86	0
1/6/2019 23:30	3.462	138.2	18.73	0.469	28.86	0
1/6/2019 23:45	4.448	159.5	21.59	0.857	28.86	0
1/7/2019 0:00	7.705	189.8	11.54	1.498	28.87	0
1/7/2019 0:15	11.76	196.8	9.86	1.883	28.87	0
1/7/2019 0:30	12.07	198.7	8.04	2.044	28.87	0
1/7/2019 0:45	10.4	205.9	7.737	2.118	28.87	0
1/7/2019 1:00	9.37	199.4	7.965	2.216	28.93	0
1/7/2019 1:15	8.57	186.1	8.79	2.229	28.93	0
1/7/2019 1:30	10.04	183.3	8.9	2.255	28.93	0
1/7/2019 1:45	11.38	194.1	9.15	2.404	28.93	0
1/7/2019 2:00	11.43	189.8	8.64	2.383	28.93	0
1/7/2019 2:15	10.47	182.1	8.12	2.286	28.93	0
1/7/2019 2:30	8.34	167.9	8.15	2.088	28.93	0
1/7/2019 2:45	9.79	166.9	7.794	2.154	28.93	0

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1/7/2019 3:00	9.67	164.5	6.903	2.18	28.96	0
1/7/2019 3:15	9.17	177.2	6.859	2.303	28.96	0
1/7/2019 3:30	9.92	185.1	12.9	2.504	28.96	0
1/7/2019 3:45	9.57	194.2	8.37	2.656	28.96	0
1/7/2019 4:00	11.02	202	10.95	2.759	29.01	0
1/7/2019 4:15	9.69	204.7	10.6	2.76	29.01	0
1/7/2019 4:30	10.86	200.2	8.72	2.732	29.01	0
1/7/2019 4:45	9.64	201.6	8.02	2.693	29.01	0
1/7/2019 5:00	9.51	198.9	8.26	2.662	29.04	0
1/7/2019 5:15	10.86	190.5	10.97	2.671	29.04	0
1/7/2019 5:30	9.97	171.2	9.09	2.599	29.04	0
1/7/2019 5:45	8.99	165.4	10.6	2.546	29.04	0
1/7/2019 6:00	9.29	173.3	8.44	2.67	29.09	0
1/7/2019 6:15	8.89	167.6	9.1	2.649	29.09	0
1/7/2019 6:30	7.823	171.5	7.078	2.695	29.09	0
1/7/2019 6:45	7.62	171.2	10.04	2.705	29.09	0
1/7/2019 7:00	8.28	181.3	8.94	2.687	29.14	0
1/7/2019 7:15	6.191	161.2	14.63	2.701	29.14	0
1/7/2019 7:30	7.061	158.7	16.81	2.66	29.14	0
1/7/2019 7:45	5.884	164.1	10.13	2.71	29.14	0
1/7/2019 8:00	3.033	134.6	14.44	2.582	29.17	0
1/7/2019 8:15	4.855	143.9	14.55	2.514	29.17	0
1/7/2019 8:30	5.26	157.3	11.37	2.509	29.17	0
1/7/2019 8:45	5.998	170.5	7.143	2.671	29.17	0
1/7/2019 9:00	5.841	178.6	8.57	2.767	29.19	0
1/7/2019 9:15	4.628	179	13.7	3.156	29.19	0
1/7/2019 9:30	3.188	186	10.92	3.135	29.19	0
1/7/2019 9:45	2.339	162.4	18.54	3.181	29.19	0
1/7/2019 10:00	3.225	183.5	39.6	3.642	29.24	0
1/7/2019 10:15	2.953	171.1	28.45	3.574	29.24	0
1/7/2019 10:30	3.717	158.3	27.73	3.525	29.24	0
1/7/2019 10:45	4.992	179.7	22.25	3.813	29.24	0
1/7/2019 11:00	8	212	18.26	3.972	29.27	0
1/7/2019 11:15	9	229.6	12.66	4.14	29.27	0
1/7/2019 11:30	10.9	214.6	11.76	4.177	29.27	0
1/7/2019 11:45	12.26	212.6	10.58	4.275	29.27	0
1/7/2019 12:00	8.91	222.3	7.813	4.295	29.27	0
1/7/2019 12:15	7.746	227.2	9	4.555	29.27	0
1/7/2019 12:30	5.788	238.4	16.01	4.875	29.27	0
1/7/2019 12:45	7.471	217.5	10.67	5.355	29.27	0
1/7/2019 13:00	7.888	221.7	10.52	5.12	29.28	0
1/7/2019 13:15	4.865	238	17.21	4.851	29.28	0
1/7/2019 13:30	4.904	244.2	11.69	4.861	29.28	0
1/7/2019 13:45	5.216	252.5	11.87	4.909	29.28	0
1/7/2019 14:00	4.744	249.5	13.33	4.944	29.32	0
1/7/2019 14:15	3.77	273.2	13.19	5.052	29.32	0
1/7/2019 14:30	2.322	242.8	29.22	5.138	29.32	0
1/7/2019 14:45	5.632	282.2	23.75	5.173	29.32	0
1/7/2019 15:00	5.723	288.5	8.15	4.756	29.35	0
1/7/2019 15:15	4.306	303.2	9.25	4.538	29.35	0
1/7/2019 15:30	3.997	319.4	8.57	4.328	29.35	0
1/7/2019 15:45	3.304	354.3	16.59	4.295	29.35	0
1/7/2019 16:00	3.085	19.95	5.158	4.121	29.36	0
1/7/2019 16:15	3.426	28.93	5.069	4.033	29.36	0
1/7/2019 16:30	1.947	36.96	3.387	3.937	29.36	0
1/7/2019 16:45	1.064	20.87	16.19	3.855	29.36	0
1/7/2019 17:00	2.515	54.34	14.29	3.624	29.38	0
1/7/2019 17:15	2.838	60.64	8.36	3.297	29.38	0
1/7/2019 17:30	3.951	98.6	11.57	3.086	29.38	0
1/7/2019 17:45	3.363	87.5	15.1	2.998	29.38	0
1/7/2019 18:00	2.166	64.78	18.19	2.736	29.37	0
1/7/2019 18:15	2.414	94.1	8.77	2.405	29.37	0
1/7/2019 18:30	2.572	66.64	5.375	2.123	29.37	0
1/7/2019 18:45	3.97	55.32	11.37	1.979	29.37	0
1/7/2019 19:00	4.26	40.92	4.169	2.009	29.39	0
1/7/2019 19:15	4.557	43.7	4.307	1.888	29.39	0

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1/7/2019 19:30	4.091	47.29	4.765	1.796	29.39	0
1/7/2019 19:45	4.914	44.65	4.595	1.938	29.39	0
1/7/2019 20:00	4.626	45.55	6.29	1.912	29.38	0
1/7/2019 20:15	4.907	47.77	8.99	1.37	29.38	0
1/7/2019 20:30	4.945	42.66	7.831	1.176	29.38	0
1/7/2019 20:45	5.511	32.72	5.935	1.006	29.38	0
1/7/2019 21:00	4.189	37.31	8.31	1.218	29.38	0
1/7/2019 21:15	4.191	36.42	9.66	1.011	29.38	0
1/7/2019 21:30	5.363	31.02	7.805	0.975	29.38	0
1/7/2019 21:45	7.417	28.99	6.314	0.805	29.38	0
1/7/2019 22:00	7.323	32.52	6.806	0.75	29.32	0
1/7/2019 22:15	5.899	30.6	8.63	0.805	29.32	0
1/7/2019 22:30	7.132	32.19	9.56	0.861	29.32	0
1/7/2019 22:45	5.397	38.46	13.41	0.931	29.32	0
1/7/2019 23:00	5.085	24.42	9	0.986	29.33	0
1/7/2019 23:15	6.537	28.82	9.4	0.856	29.33	0
1/7/2019 23:30	6.976	34.09	8.5	0.863	29.33	0
1/7/2019 23:45	7.553	29.57	9.5	0.769	29.33	0
1/8/2019 0:00	6.154	32.89	10.74	1.498	29.28	0
1/8/2019 0:15	5.179	37.64	16.28	2.258	29.28	0
1/8/2019 0:30	4.308	34.97	19.95	2.129	29.28	0
1/8/2019 0:45	5.248	20.47	7.435	1.559	29.28	0
1/8/2019 1:00	4.828	31.56	9.94	1.643	29.29	0
1/8/2019 1:15	5.077	28.49	9.18	1.515	29.29	0
1/8/2019 1:30	5.032	35.13	15.03	1.722	29.29	0
1/8/2019 1:45	4.943	19.9	10.62	1.652	29.29	0
1/8/2019 2:00	3.037	32.2	10.95	2.895	29.26	0
1/8/2019 2:15	3.058	59.91	28.11	2.726	29.26	0
1/8/2019 2:30	2.658	51.3	15.86	3.127	29.26	0
1/8/2019 2:45	2.996	43.5	26.49	3.821	29.26	0
1/8/2019 3:00	3.038	112.1	15.98	4.143	29.26	0
1/8/2019 3:15	5.697	128.2	13.7	5.23	29.26	0
1/8/2019 3:30	6.437	116.8	16.75	5.156	29.26	0
1/8/2019 3:45	7.038	118.1	16.34	5.098	29.26	0
1/8/2019 4:00	8.11	117.3	13.56	5.048	29.24	0
1/8/2019 4:15	11.45	119.1	11.32	5.2	29.24	0
1/8/2019 4:30	9.15	118	12.79	5.223	29.24	0
1/8/2019 4:45	8.1	115.9	12.45	5.542	29.24	0
1/8/2019 5:00	6.961	103.6	18.33	5.482	29.19	0
1/8/2019 5:15	7.6	115.2	14.06	5.72	29.19	0
1/8/2019 5:30	10.35	120	11.93	6.08	29.19	0
1/8/2019 5:45	9.76	122.5	12.82	6.081	29.19	0
1/8/2019 6:00	11.87	122.1	11.08	6.285	29.17	0
1/8/2019 6:15	11.66	121	12.39	6.469	29.17	0
1/8/2019 6:30	14.61	120.5	13.19	6.732	29.17	0
1/8/2019 6:45	14.81	120.6	14.19	6.873	29.17	0
1/8/2019 7:00	14.46	116.2	12.48	6.902	29.18	0
1/8/2019 7:15	13.34	121.6	13.54	7.096	29.18	0
1/8/2019 7:30	14	116.3	14.51	7.115	29.18	0
1/8/2019 7:45	17.82	130.1	12.02	7.058	29.18	0
1/8/2019 8:00	21.98	124.3	14.22	6.797	29.19	0
1/8/2019 8:15	23.15	123.8	13.54	5.817	29.19	0
1/8/2019 8:30	21.98	123.5	12.43	3.926	29.19	0
1/8/2019 8:45	19.57	120.9	12.97	3.499	29.19	0
1/8/2019 9:00	19.01	118	12.99	3.736	29.19	0
1/8/2019 9:15	17.77	122.5	13.53	4.22	29.19	0
1/8/2019 9:30	16.09	126.9	14.2	4.749	29.19	0
1/8/2019 9:45	17.93	125	14.23	5.328	29.19	0
1/8/2019 10:00	22.63	124.8	13.54	5.749	29.16	0
1/8/2019 10:15	25.57	126.3	12.8	5.922	29.16	0
1/8/2019 10:30	23.91	121.3	12.78	5.425	29.16	0
1/8/2019 10:45	27.27	128.1	11.84	5.599	29.16	0
1/8/2019 11:00	24.83	127.8	11.28	5.856	29.13	0
1/8/2019 11:15	24.98	122.9	12.52	6.222	29.13	0
1/8/2019 11:30	24.3	125.2	11.33	6.13	29.13	0
1/8/2019 11:45	24.33	124.5	12.08	6.003	29.13	0

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1/8/2019 12:00	22.62	123.3	12.68	6.117	29.08	0
1/8/2019 12:15	20.26	120.5	13.47	6.093	29.08	0
1/8/2019 12:30	19.98	120.7	13.88	5.827	29.08	0
1/8/2019 12:45	19.55	119	12.65	5.539	29.08	0
1/8/2019 13:00	18.9	120.9	14.16	5.453	29.06	0
1/8/2019 13:15	17.23	122.6	13.5	5.609	29.06	0
1/8/2019 13:30	16.06	119.2	14.29	6.022	29.06	0
1/8/2019 13:45	14.08	116	14.92	6.312	29.06	0
1/8/2019 14:00	14.07	116.6	14.97	6.495	29.04	0
1/8/2019 14:15	10.98	110.4	18.29	6.581	29.04	0
1/8/2019 14:30	9.21	105	17.43	6.448	29.04	0
1/8/2019 14:45	9.67	104.6	21.71	6.601	29.04	0
1/8/2019 15:00	10.37	110.3	19.13	6.853	28.99	0
1/8/2019 15:15	11.84	120.4	18.46	7.206	28.99	0
1/8/2019 15:30	10.64	122.5	14.51	7.202	28.99	0
1/8/2019 15:45	11.98	126.2	15.32	7.176	28.99	0
1/8/2019 16:00	11.21	127.9	12.94	7.186	28.99	0
1/8/2019 16:15	13.08	132	11.16	7.095	28.99	0
1/8/2019 16:30	11.44	126.1	12.41	7.076	28.99	0
1/8/2019 16:45	11.3	128.2	14.95	7.025	28.99	0
1/8/2019 17:00	6.581	99.7	36.15	6.784	29.02	0
1/8/2019 17:15	4.02	91.1	19.34	6.594	29.02	0
1/8/2019 17:30	4.581	87.6	18.25	6.078	29.02	0
1/8/2019 17:45	2.972	83.7	17.9	5.959	29.02	0
1/8/2019 18:00	5.333	130.4	15.47	5.913	29.01	0
1/8/2019 18:15	8.31	127	12.8	5.888	29.01	0
1/8/2019 18:30	7.473	118.9	13.07	5.806	29.01	0
1/8/2019 18:45	8.32	132.1	10.98	6.358	29.01	0
1/8/2019 19:00	7.74	131.7	13.38	6.77	28.98	0
1/8/2019 19:15	9.89	137.7	13.14	7.029	28.98	0
1/8/2019 19:30	11.69	141.1	12.16	6.82	28.98	0
1/8/2019 19:45	13.47	127.7	12.96	6.737	28.98	0
1/8/2019 20:00	12.18	132.4	12.81	6.792	28.98	0
1/8/2019 20:15	9.24	130.1	18.17	6.681	28.98	0
1/8/2019 20:30	6.769	117.6	14.75	6.564	28.98	0
1/8/2019 20:45	10.16	140.3	14.3	6.887	28.98	0
1/8/2019 21:00	12.19	134.2	10.94	7.057	28.96	0
1/8/2019 21:15	11.45	131.3	12.14	7.213	28.96	0
1/8/2019 21:30	13.41	135.2	11.13	7.321	28.96	0
1/8/2019 21:45	13.39	130	11.76	7.376	28.96	0
1/8/2019 22:00	13.75	130.7	10.92	7.457	28.95	0
1/8/2019 22:15	12.35	132	10.41	7.629	28.95	0
1/8/2019 22:30	9.86	130.3	12.77	7.695	28.95	0
1/8/2019 22:45	7.483	120.9	12.06	7.695	28.95	0
1/8/2019 23:00	7.159	120.1	16.12	7.774	28.92	0
1/8/2019 23:15	3.821	120.3	24.76	7.813	28.92	0
1/8/2019 23:30	5.429	150.7	25.38	7.928	28.92	0
1/8/2019 23:45	12.62	134	14.61	8.01	28.92	0
1/9/2019 0:00	13.86	133.1	11.52	8.04	28.9	0
1/9/2019 0:15	14.49	132.3	11.38	8.06	28.9	0
1/9/2019 0:30	14.89	135.4	10.17	8.19	28.9	0
1/9/2019 0:45	15.52	136.9	10.97	8.26	28.9	0
1/9/2019 1:00	15.97	134.3	10.77	8.15	28.88	0
1/9/2019 1:15	15.77	131.6	12.02	7.757	28.88	0
1/9/2019 1:30	14.06	126.4	12.49	7.297	28.88	0
1/9/2019 1:45	10.06	116.1	14.02	6.726	28.88	0
1/9/2019 2:00	7.581	95.4	16.08	6.071	28.87	0
1/9/2019 2:15	4.641	90	18.28	6.171	28.87	0
1/9/2019 2:30	5.899	142.2	20.26	6.801	28.87	0
1/9/2019 2:45	8.83	112.7	16.97	6.902	28.87	0
1/9/2019 3:00	12.02	124.3	12.46	7.165	28.89	0
1/9/2019 3:15	14.22	129.9	12.84	7.113	28.89	0
1/9/2019 3:30	15.01	124.2	11.5	6.834	28.89	0
1/9/2019 3:45	11.58	108.4	22.28	6.637	28.89	0
1/9/2019 4:00	7.686	101.1	17.34	6.201	28.86	0
1/9/2019 4:15	10.92	137.9	13.67	7.055	28.86	0



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1/9/2019 4:30	5.195	97.2	28.63	6.732	28.86	0
1/9/2019 4:45	4.695	107.2	33	6.705	28.86	0
1/9/2019 5:00	4.197	101.9	44.21	6.733	28.84	0
1/9/2019 5:15	6.427	139.5	23.14	7.317	28.84	0
1/9/2019 5:30	8.44	130.2	27.98	7.368	28.84	0
1/9/2019 5:45	15.7	137.2	12.07	7.857	28.84	0
1/9/2019 6:00	14.7	139.5	11.81	7.931	28.85	0
1/9/2019 6:15	9.8	128.3	13.7	7.777	28.85	0
1/9/2019 6:30	7.959	100.9	41	7.579	28.85	0
1/9/2019 6:45	3.123	75.17	47.45	7.343	28.85	0
1/9/2019 7:00	12.04	158	15.42	7.583	28.91	0
1/9/2019 7:15	14.77	154.6	9.58	7.202	28.91	0
1/9/2019 7:30	13.6	148.3	9.9	6.514	28.91	0
1/9/2019 7:45	11.64	121.5	12.54	5.974	28.91	0
1/9/2019 8:00	8.22	116.8	16	6.34	28.89	0
1/9/2019 8:15	9.05	124.7	10.95	6.508	28.89	0
1/9/2019 8:30	6.737	126	17.74	6.576	28.89	0
1/9/2019 8:45	5.973	127.9	20.14	6.815	28.89	0
1/9/2019 9:00	6.992	129.7	13.63	6.924	28.89	0
1/9/2019 9:15	6.87	117.5	23.71	7.028	28.89	0
1/9/2019 9:30	7.844	122.1	16.87	7.184	28.89	0
1/9/2019 9:45	12.62	128	13.17	7.725	28.89	0
1/9/2019 10:00	16.9	133.9	9.82	8.67	28.9	0
1/9/2019 10:15	16.89	138.1	10.02	8.95	28.9	0
1/9/2019 10:30	16.01	137.2	9.75	9.22	28.9	0
1/9/2019 10:45	15.77	139.2	9.58	9.36	28.9	0
1/9/2019 11:00	14.92	135	10.46	9.48	28.88	0
1/9/2019 11:15	11.92	136.4	11.39	9.49	28.88	0
1/9/2019 11:30	5.672	116.4	23.67	9.05	28.88	0
1/9/2019 11:45	8.3	123.7	27.21	9.26	28.88	0
1/9/2019 12:00	13.91	147.5	10.92	9.07	28.87	0
1/9/2019 12:15	15.19	137.5	10.6	9.19	28.87	0
1/9/2019 12:30	11.87	139.6	12.93	8.97	28.87	0
1/9/2019 12:45	11.66	159.5	17.52	8.86	28.87	0
1/9/2019 13:00	8.82	118.7	14.1	8.84	28.89	0
1/9/2019 13:15	11.41	124.2	16.28	8.98	28.89	0
1/9/2019 13:30	15.01	135.1	10.23	9.34	28.89	0
1/9/2019 13:45	13.45	128.6	12.15	8.69	28.89	0
1/9/2019 14:00	10.16	135.9	15.38	8.8	28.86	0
1/9/2019 14:15	14.91	138.5	10.87	8.99	28.86	0
1/9/2019 14:30	15.87	137.7	10.4	9.55	28.86	0
1/9/2019 14:45	17.75	134.3	9.11	9.92	28.86	0
1/9/2019 15:00	16.66	133.1	9.33	9.4	28.86	0
1/9/2019 15:15	15.13	133.8	11.05	9.32	28.86	0
1/9/2019 15:30	15.34	136.6	9.57	9.46	28.86	0
1/9/2019 15:45	14.43	136.7	9.36	9.51	28.86	0
1/9/2019 16:00	12.39	142.6	10.29	9.4	28.88	0
1/9/2019 16:15	12.97	138	9.6	9.36	28.88	0
1/9/2019 16:30	12.51	141.1	8.57	9.12	28.88	0
1/9/2019 16:45	11.11	133.9	8.98	8.61	28.88	0
1/9/2019 17:00	8.75	140.1	9.75	8.57	28.92	0
1/9/2019 17:15	9.13	134.6	12.83	8.67	28.92	0
1/9/2019 17:30	8.88	141.3	12.98	8.76	28.92	0
1/9/2019 17:45	8.67	131.2	10.14	8.58	28.92	0
1/9/2019 18:00	9.61	133.2	9.9	8.73	28.91	0
1/9/2019 18:15	9.9	139.8	15.24	8.91	28.91	0
1/9/2019 18:30	12.26	155.6	12.53	8.55	28.91	0
1/9/2019 18:45	13.38	141.8	10.34	8.47	28.91	0
1/9/2019 19:00	12.54	143.5	8.92	8.76	28.95	0
1/9/2019 19:15	12.98	138.5	9.6	8.85	28.95	0
1/9/2019 19:30	12.48	142.3	8.87	8.68	28.95	0
1/9/2019 19:45	11.58	143.1	9.08	8.56	28.95	0
1/9/2019 20:00	12	137.9	8.01	8.48	28.96	0
1/9/2019 20:15	10.75	142	7.853	8.66	28.96	0
1/9/2019 20:30	9.91	139.9	8.17	8.97	28.96	0
1/9/2019 20:45	9.3	138.5	6.908	9.04	28.96	0

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1/9/2019 21:00	9.31	146.2	9.2	9.41	28.99	0
1/9/2019 21:15	8.99	148	9.3	9.57	28.99	0
1/9/2019 21:30	8.53	154.1	12.1	8.91	28.99	0
1/9/2019 21:45	9.98	160.1	9.52	8.44	28.99	0
1/9/2019 22:00	10.99	161.8	8.68	8.22	29.03	0
1/9/2019 22:15	8.76	149.6	7.834	8.09	29.03	0
1/9/2019 22:30	9.19	149.8	6.709	7.932	29.03	0
1/9/2019 22:45	10.97	150.7	7.428	8.33	29.03	0
1/9/2019 23:00	10.79	148.7	7.494	8.36	29.04	0
1/9/2019 23:15	7.989	146	9.78	8.05	29.04	0
1/9/2019 23:30	5.207	140.6	14.12	7.816	29.04	0
1/9/2019 23:45	7.172	150.9	6.491	7.717	29.04	0
1/10/2019 0:00	8.91	146	10.43	7.686	29.09	0
1/10/2019 0:15	8.28	146.1	12.84	7.868	29.09	0
1/10/2019 0:30	6.545	154.5	9.57	8.01	29.09	0
1/10/2019 0:45	7.068	143.9	8.18	7.896	29.09	0
1/10/2019 1:00	7.156	132.3	10.62	7.92	29.1	0
1/10/2019 1:15	8.28	139.3	10.66	7.786	29.1	0
1/10/2019 1:30	7.945	133.7	14.03	8.03	29.1	0
1/10/2019 1:45	8.71	146.2	21.25	8.26	29.1	0
1/10/2019 2:00	10.12	136.8	10.82	8.07	29.14	0
1/10/2019 2:15	9.6	135.1	9.67	8.09	29.14	0
1/10/2019 2:30	9.42	145	12.47	8.19	29.14	0
1/10/2019 2:45	9.87	140.5	8.41	8.31	29.14	0
1/10/2019 3:00	10.23	139.9	8.9	8.22	29.15	0
1/10/2019 3:15	9.94	139.8	8.34	8.19	29.15	0
1/10/2019 3:30	10.66	139.6	8.97	8.12	29.15	0
1/10/2019 3:45	9.24	138.9	8.22	7.981	29.15	0
1/10/2019 4:00	8.59	139.5	9.98	8.12	29.18	0
1/10/2019 4:15	9.11	151	8.55	8.16	29.18	0
1/10/2019 4:30	7.198	154.8	9.74	7.884	29.18	0
1/10/2019 4:45	7.43	150.9	8.17	7.791	29.18	0
1/10/2019 5:00	6.632	132.3	8.63	7.824	29.19	0
1/10/2019 5:15	5.343	149.6	17.68	7.737	29.19	0
1/10/2019 5:30	5.593	174.1	16.78	7.804	29.19	0
1/10/2019 5:45	7.604	150.1	5.533	7.308	29.19	0
1/10/2019 6:00	8.32	155.7	5.644	7.418	29.21	0
1/10/2019 6:15	7.068	146.5	7.29	7.441	29.21	0
1/10/2019 6:30	5.457	140.9	8.36	7.537	29.21	0
1/10/2019 6:45	6.492	133.3	6.706	7.737	29.21	0
1/10/2019 7:00	7.872	138.1	7.129	7.875	29.21	0
1/10/2019 7:15	7.786	142.9	9.62	7.952	29.21	0
1/10/2019 7:30	6.66	139.8	9.85	8.33	29.21	0
1/10/2019 7:45	7.032	137.1	8.17	8.55	29.21	0
1/10/2019 8:00	9.51	158.9	14.04	9.1	29.22	0
1/10/2019 8:15	6.797	163.5	7.447	9.02	29.22	0
1/10/2019 8:30	4.518	139.4	8.85	8.98	29.22	0
1/10/2019 8:45	4.29	146.3	16.39	8.85	29.22	0
1/10/2019 9:00	4.167	171.4	13.58	8.96	29.26	0
1/10/2019 9:15	4.297	138.9	7.069	8.91	29.26	0
1/10/2019 9:30	3.544	154.1	29.28	8.38	29.26	0
1/10/2019 9:45	4.69	173.9	12.71	8.75	29.26	0
1/10/2019 10:00	4.895	176.2	19.51	8.04	29.27	0
1/10/2019 10:15	3.582	165.5	24.48	8.35	29.27	0
1/10/2019 10:30	3.242	165.4	36.29	8.23	29.27	0
1/10/2019 10:45	4.359	189.2	30.55	7.742	29.27	0
1/10/2019 11:00	5.615	116.3	13.09	8.26	29.29	0
1/10/2019 11:15	7.361	133.4	9.74	8.86	29.29	0
1/10/2019 11:30	8.46	128.3	9.46	9.14	29.29	0
1/10/2019 11:45	9.05	130.8	9.82	9.44	29.29	0
1/10/2019 12:00	6.639	120.4	11.06	10.05	29.28	0
1/10/2019 12:15	4.434	131.9	13.42	10.64	29.28	0
1/10/2019 12:30	4.012	147.9	22.08	10.84	29.28	0
1/10/2019 12:45	2.187	172.9	38.25	11.04	29.28	0
1/10/2019 13:00	1.5	130.9	42.98	10.93	29.26	0
1/10/2019 13:15	2.901	195.6	18.65	10.48	29.26	0

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1/10/2019 13:30	1.432	124	49.06	10.62	29.26	0
1/10/2019 13:45	3.174	22.86	14.81	10.5	29.26	0
1/10/2019 14:00	2.508	35.77	11.78	10.38	29.27	0
1/10/2019 14:15	3.867	45.39	6.311	10.12	29.27	0
1/10/2019 14:30	3.97	48.87	10.95	10	29.27	0
1/10/2019 14:45	3.032	41.22	11.38	10.07	29.27	0
1/10/2019 15:00	0.68	45.46	0.318	10.39	29.28	0
1/10/2019 15:15	0.869	51.53	1.362	10.61	29.28	0
1/10/2019 15:30	3.549	205.7	13.72	10.53	29.28	0
1/10/2019 15:45	2.702	173	51.53	10.13	29.28	0
1/10/2019 16:00	4.796	70.4	4.949	9.69	29.27	0
1/10/2019 16:15	3.467	94.2	17.57	9.93	29.27	0
1/10/2019 16:30	3.838	120.3	7.876	10.4	29.27	0
1/10/2019 16:45	4.148	119.9	10.76	10.38	29.27	0
1/10/2019 17:00	5.771	130.7	10.72	10.39	29.26	0
1/10/2019 17:15	5.56	130.7	10.07	10.37	29.26	0
1/10/2019 17:30	5.325	123.4	8.71	10.21	29.26	0
1/10/2019 17:45	6.758	114.9	9.74	9.82	29.26	0
1/10/2019 18:00	5.591	152	35.78	9.93	29.25	0
1/10/2019 18:15	5.289	157.8	24.46	10.21	29.25	0
1/10/2019 18:30	6.899	125.7	10.63	9.97	29.25	0
1/10/2019 18:45	5.846	136.8	17.67	9.8	29.25	0
1/10/2019 19:00	6.053	166.1	14.55	9.83	29.25	0
1/10/2019 19:15	7.315	148.9	11.76	9.78	29.25	0
1/10/2019 19:30	5.142	128.1	17.21	9.58	29.25	0
1/10/2019 19:45	4.534	153.4	13.05	9.24	29.25	0
1/10/2019 20:00	5.063	133.4	11.65	9.57	29.25	0
1/10/2019 20:15	6.033	150.4	14.19	9.3	29.25	0
1/10/2019 20:30	5.937	128.8	11.65	9.13	29.25	0
1/10/2019 20:45	4.508	125.5	9.05	9.01	29.25	0
1/10/2019 21:00	4.95	138	23.62	9.13	29.23	0
1/10/2019 21:15	6.34	147.2	9.36	8.85	29.23	0
1/10/2019 21:30	5.664	106.3	13.32	8.82	29.23	0
1/10/2019 21:45	6.307	143.2	13.91	8.26	29.23	0
1/10/2019 22:00	7.1	143.9	9.84	8.89	29.23	0
1/10/2019 22:15	6.393	138.4	9.37	9.1	29.23	0
1/10/2019 22:30	6.069	144.3	8.57	9.02	29.23	0
1/10/2019 22:45	6.474	141.9	9.98	8.96	29.23	0
1/10/2019 23:00	7.619	148.6	10.33	8.85	29.23	0
1/10/2019 23:15	6.518	139.6	15.64	9.08	29.23	0
1/10/2019 23:30	5.282	150.9	12.97	9.31	29.23	0
1/10/2019 23:45	5.635	147.6	20.71	9.18	29.23	0
1/11/2019 0:00	7.55	163	9.34	9.05	29.2	0
1/11/2019 0:15	6.965	149.5	15.12	9.14	29.2	0
1/11/2019 0:30	5.909	141.7	12.51	9.11	29.2	0
1/11/2019 0:45	7.054	150.2	13.56	9.17	29.2	0
1/11/2019 1:00	7.878	139.3	12.79	9.23	29.22	0
1/11/2019 1:15	5.622	141.5	17.16	9.1	29.22	0
1/11/2019 1:30	6.132	142.1	16.48	9.55	29.22	0
1/11/2019 1:45	6.194	117.6	13.63	9.3	29.22	0
1/11/2019 2:00	6.635	136.9	13.01	9.65	29.2	0
1/11/2019 2:15	6.844	133.4	12.13	9.85	29.2	0
1/11/2019 2:30	6.586	138.9	9.87	9.77	29.2	0
1/11/2019 2:45	7.16	136.8	9.34	9.84	29.2	0
1/11/2019 3:00	6.378	141.1	8.99	9.73	29.19	0
1/11/2019 3:15	6.238	128.9	11.87	9.7	29.19	0
1/11/2019 3:30	4.538	128.5	14.99	9.68	29.19	0
1/11/2019 3:45	4.718	144.8	14.7	9.95	29.19	0
1/11/2019 4:00	4.835	148.8	11.84	10.16	29.17	0
1/11/2019 4:15	5.539	137.5	12.03	10.08	29.17	0
1/11/2019 4:30	6.25	140.6	11.92	10.02	29.17	0
1/11/2019 4:45	6.733	135.1	12.16	10.19	29.17	0
1/11/2019 5:00	6.626	133.3	12.34	10.21	29.17	0
1/11/2019 5:15	8.21	136.1	10.67	10.27	29.17	0
1/11/2019 5:30	8.87	127.9	13.66	10.35	29.17	0
1/11/2019 5:45	8.56	124.4	11.93	9.98	29.17	0

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1/11/2019 6:00	8.65	122.7	11.39	10.45	29.16	0
1/11/2019 6:15	8.89	121.1	11.18	10.54	29.16	0
1/11/2019 6:30	9.72	125.8	10.58	10.82	29.16	0
1/11/2019 6:45	9.31	126.7	11	11.14	29.16	0
1/11/2019 7:00	7.489	127.8	11.16	11.22	29.17	0
1/11/2019 7:15	5.96	142.1	11.27	11.31	29.17	0
1/11/2019 7:30	6.535	142.5	13.39	11.11	29.17	0
1/11/2019 7:45	5.83	134.1	16.06	10.85	29.17	0
1/11/2019 8:00	6.089	131.5	13.19	10.84	29.17	0
1/11/2019 8:15	8.37	131.5	9.92	11.17	29.17	0
1/11/2019 8:30	9.01	122.1	13.14	11.36	29.17	0
1/11/2019 8:45	9.02	137.4	11.53	11.46	29.17	0
1/11/2019 9:00	8.96	123	12.08	11.36	29.18	0
1/11/2019 9:15	8.59	128.3	11.48	11.43	29.18	0
1/11/2019 9:30	7.25	124.5	12.42	11.57	29.18	0
1/11/2019 9:45	6.962	123.6	11.81	11.35	29.18	0
1/11/2019 10:00	6.774	114.9	13.89	11.05	29.16	0
1/11/2019 10:15	7.058	123.5	15.29	11.56	29.16	0
1/11/2019 10:30	4.848	105.4	22.76	11.82	29.16	0
1/11/2019 10:45	0.073	35.36	1.471	11.9	29.16	0
1/11/2019 11:00	2.137	112.8	36.01	12	29.16	0
1/11/2019 11:15	7.53	124	12.37	42.76	29.16	0
1/11/2019 11:30	9.74	127.1	12.23	0.248	29.16	0
1/11/2019 11:45	10.32	132.7	11.34	10.02	29.16	0.34
1/11/2019 12:00	9.96	135.6	13.05	11.73	29.11	0.68
1/11/2019 12:15	10.92	133.9	13.25	13.29	29.11	0
1/11/2019 12:30	12.07	136.1	10.43	13.13	29.11	0
1/11/2019 12:45	8.48	125.3	14.61	13.08	29.11	0
1/11/2019 13:00	7.818	123.8	11.41	13.08	29.08	0
1/11/2019 13:15	8.15	117.7	12.77	13.38	29.08	0
1/11/2019 13:30	5.282	129.7	18.05	13.56	29.08	0
1/11/2019 13:45	7.273	137.3	12.09	13.7	29.08	0
1/11/2019 14:00	6.845	116.4	16.74	13.67	29.09	0
1/11/2019 14:15	8.78	138.2	14.75	13.61	29.09	0
1/11/2019 14:30	9	132	12.48	13.51	29.09	0
1/11/2019 14:45	8.24	122.6	15.13	13.66	29.09	0
1/11/2019 15:00	9.77	121.2	19.01	13.82	29.1	0
1/11/2019 15:15	11.91	127.1	12.53	13.86	29.1	0
1/11/2019 15:30	11.97	136	10.85	13.66	29.1	0
1/11/2019 15:45	14.93	130.5	10.98	13.19	29.1	0
1/11/2019 16:00	13.13	125.3	10.48	13	29.11	0
1/11/2019 16:15	11.74	134.1	9.21	12.69	29.11	0
1/11/2019 16:30	13.09	133.3	10.12	12.58	29.11	0
1/11/2019 16:45	12.6	125.7	10.93	12.25	29.11	0
1/11/2019 17:00	14.07	129.4	11.7	12.06	29.08	0
1/11/2019 17:15	11.5	126.9	10.77	12.01	29.08	0
1/11/2019 17:30	12.87	130.3	11.9	11.99	29.08	0
1/11/2019 17:45	9.1	130.7	11.82	11.94	29.08	0
1/11/2019 18:00	9.96	135.7	12.27	12.31	29.09	0
1/11/2019 18:15	8.71	143.8	14.08	12.21	29.09	0
1/11/2019 18:30	10.05	145.8	11.08	11.64	29.09	0
1/11/2019 18:45	9.48	143.9	11.55	11.47	29.09	0
1/11/2019 19:00	10.37	140.8	11.22	11.44	29.09	0
1/11/2019 19:15	11.96	151.1	9.84	11.44	29.09	0
1/11/2019 19:30	12.62	142.9	11.88	11.48	29.09	0
1/11/2019 19:45	13.92	140.2	10.07	11.59	29.09	0
1/11/2019 20:00	13.56	137.6	9.34	11.66	29.09	0
1/11/2019 20:15	10.82	134.1	11.27	11.47	29.09	0
1/11/2019 20:30	10.79	134.3	11.7	11.53	29.09	0
1/11/2019 20:45	11.47	132	11.67	11.55	29.09	0
1/11/2019 21:00	12.29	133.8	12.07	11.45	29.11	0
1/11/2019 21:15	12.58	136.3	11.11	11.4	29.11	0
1/11/2019 21:30	15.26	134.4	10.34	11.41	29.11	0
1/11/2019 21:45	14.89	131.1	10.65	11.19	29.11	0
1/11/2019 22:00	12.27	130.5	11.47	10.93	29.12	0
1/11/2019 22:15	9.83	127	12.97	10.82	29.12	0

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1/11/2019 22:30	10.47	129.1	12.34	10.8	29.12	0
1/11/2019 22:45	10.9	128.4	14.78	10.82	29.12	0
1/11/2019 23:00	12.02	133.4	12.19	10.92	29.12	0
1/11/2019 23:15	10.62	137.6	12.96	10.9	29.12	0
1/11/2019 23:30	11.91	139.8	11.14	10.91	29.12	0
1/11/2019 23:45	10.85	137.4	11.27	10.9	29.12	0
1/12/2019 0:00	11.65	139.4	10.99	10.78	29.11	0
1/12/2019 0:15	11.84	137.4	10.53	10.8	29.11	0
1/12/2019 0:30	10.34	138.2	11.27	10.8	29.11	0
1/12/2019 0:45	10.43	137.9	11.55	10.67	29.11	0
1/12/2019 1:00	11.72	134.7	12.47	10.71	29.12	0
1/12/2019 1:15	8.25	128.9	14.6	10.73	29.12	0
1/12/2019 1:30	6.569	114.3	18.13	10.74	29.12	0
1/12/2019 1:45	6.718	117.5	11.95	10.64	29.12	0
1/12/2019 2:00	5.262	134.4	16.62	10.62	29.12	0
1/12/2019 2:15	5.755	126.2	19.04	10.58	29.12	0
1/12/2019 2:30	6.834	136.1	14.23	10.59	29.12	0
1/12/2019 2:45	7.927	139.5	14.54	10.8	29.12	0
1/12/2019 3:00	7.086	137	17.41	10.59	29.12	0
1/12/2019 3:15	8.36	133.7	13.49	10.67	29.12	0
1/12/2019 3:30	6.144	145.6	28.87	10.53	29.12	0
1/12/2019 3:45	8.63	145.2	14.97	10.37	29.12	0
1/12/2019 4:00	8.3	142.8	10.73	10.28	29.12	0
1/12/2019 4:15	8.06	141.1	11.81	10.3	29.12	0
1/12/2019 4:30	7.76	130.2	14.95	10.11	29.12	0
1/12/2019 4:45	7.45	135	12.5	9.76	29.12	0
1/12/2019 5:00	7.906	141	11.19	9.96	29.11	0
1/12/2019 5:15	9.47	137.2	10.67	10.04	29.11	0
1/12/2019 5:30	10.85	138.6	9.77	10.12	29.11	0
1/12/2019 5:45	11.33	140.4	10.66	10.2	29.11	0
1/12/2019 6:00	10.46	139.4	10.2	10	29.12	0
1/12/2019 6:15	9.77	137.9	12.1	9.8	29.12	0
1/12/2019 6:30	10.13	136.7	9.79	9.75	29.12	0
1/12/2019 6:45	9.34	133.2	10.97	9.46	29.12	0
1/12/2019 7:00	9.48	134.2	10.71	9.3	29.12	0
1/12/2019 7:15	9.29	135	10.64	9.32	29.12	0
1/12/2019 7:30	9.21	142.8	12.86	9.23	29.12	0
1/12/2019 7:45	7.861	132.7	14.36	9.2	29.12	0
1/12/2019 8:00	7.919	133.5	14.73	9.25	29.12	0
1/12/2019 8:15	9.11	150	13.85	9.33	29.12	0
1/12/2019 8:30	9.81	128.6	10.87	9.08	29.12	0
1/12/2019 8:45	8.94	129.7	10.71	8.9	29.12	0
1/12/2019 9:00	11.25	144.9	10.28	9.35	29.14	0
1/12/2019 9:15	9.62	140.8	10.83	10.04	29.14	0
1/12/2019 9:30	7.738	148.1	14.5	10.54	29.14	0
1/12/2019 9:45	7.726	138.4	18.55	10.86	29.14	0
1/12/2019 10:00	12.14	133.4	13.16	11.19	29.16	0
1/12/2019 10:15	13.67	141	14.12	11.42	29.16	0
1/12/2019 10:30	14.55	138.7	12.53	11.76	29.16	0
1/12/2019 10:45	14.91	139.2	9.42	12.06	29.16	0
1/12/2019 11:00	12.89	147.3	11.6	12.56	29.18	0
1/12/2019 11:15	13.81	147.8	10.37	12.4	29.18	0
1/12/2019 11:30	11.45	147.2	11.15	12.92	29.18	0
1/12/2019 11:45	14.46	142.8	10.39	12.85	29.18	0
1/12/2019 12:00	14.49	140.9	11.82	13.05	29.17	0
1/12/2019 12:15	12.5	151.4	11.07	13.5	29.17	0
1/12/2019 12:30	11.62	144.1	11.89	13.73	29.17	0
1/12/2019 12:45	13.63	153.5	10.81	13.72	29.17	0
1/12/2019 13:00	12.48	150.8	11.34	13.84	29.18	0
1/12/2019 13:15	11.71	138	12.42	13.96	29.18	0
1/12/2019 13:30	8.41	130.3	14.55	14.2	29.18	0
1/12/2019 13:45	11.91	136.4	10.59	14.17	29.18	0
1/12/2019 14:00	11.03	142.1	10.96	14.09	29.14	0
1/12/2019 14:15	9.39	142.8	11.82	14.26	29.14	0
1/12/2019 14:30	9.88	155.3	11.58	14.2	29.14	0
1/12/2019 14:45	11.08	151.9	12.71	13.93	29.14	0

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1/12/2019 15:00	9.32	153	11.08	13.57	29.18	0
1/12/2019 15:15	10.47	153.7	9.51	13.12	29.18	0
1/12/2019 15:30	12.08	151.3	10.58	13.09	29.18	0
1/12/2019 15:45	13.02	145.3	9.69	12.93	29.18	0
1/12/2019 16:00	11.82	141.5	11.73	12.59	29.2	0
1/12/2019 16:15	13.32	135.5	9.85	12.46	29.2	0
1/12/2019 16:30	13.77	135.7	9.52	12.2	29.2	0
1/12/2019 16:45	12.62	138.2	10.7	11.96	29.2	0
1/12/2019 17:00	11.41	136.1	13	11.51	29.2	0
1/12/2019 17:15	10.13	128.3	12.9	11.37	29.2	0
1/12/2019 17:30	11.03	133.9	11.88	11.25	29.2	0
1/12/2019 17:45	9.82	134	12.7	11.1	29.2	0
1/12/2019 18:00	8.96	135.2	13.4	10.91	29.2	0
1/12/2019 18:15	6.884	148.2	20.76	10.66	29.2	0
1/12/2019 18:30	7.953	155.8	16.22	10.43	29.2	0
1/12/2019 18:45	8.48	145.1	8.81	10.08	29.2	0
1/12/2019 19:00	10.09	138.2	9.24	10	29.22	0
1/12/2019 19:15	10.54	140.6	10.71	9.91	29.22	0
1/12/2019 19:30	8.75	128.7	14.62	9.82	29.22	0
1/12/2019 19:45	9.65	137.2	12.49	9.77	29.22	0
1/12/2019 20:00	9.36	140.4	12.42	9.54	29.23	0
1/12/2019 20:15	10.63	135.3	11.23	9.47	29.23	0
1/12/2019 20:30	9.44	137.1	10.24	9.21	29.23	0
1/12/2019 20:45	10.01	137.6	10.34	9.17	29.23	0
1/12/2019 21:00	8.92	136.6	8.56	9.04	29.26	0
1/12/2019 21:15	8.13	136.6	10.65	8.8	29.26	0
1/12/2019 21:30	7.374	136.5	11.27	8.81	29.26	0
1/12/2019 21:45	5.603	125.2	14.03	8.41	29.26	0
1/12/2019 22:00	6.856	129.3	7.461	8.5	29.26	0
1/12/2019 22:15	5.424	117.1	9.09	8.34	29.26	0
1/12/2019 22:30	5.114	116.1	8.57	8.09	29.26	0
1/12/2019 22:45	5.031	132.9	10.03	8.15	29.26	0
1/12/2019 23:00	3.251	116.4	14.14	8.11	29.28	0
1/12/2019 23:15	3.282	105.7	13.03	8.13	29.28	0
1/12/2019 23:30	5.274	110	9.93	7.879	29.28	0
1/12/2019 23:45	7.836	112.6	6.964	8.36	29.28	0
1/13/2019 0:00	8.11	116.9	10.3	8.43	29.26	0
1/13/2019 0:15	8.69	121.3	8.95	8.49	29.26	0
1/13/2019 0:30	8.51	119.7	9.41	8.49	29.26	0
1/13/2019 0:45	8.75	124.5	8.55	8.41	29.26	0
1/13/2019 1:00	7.852	122.9	11.35	8.38	29.29	0
1/13/2019 1:15	7.814	116.1	14.46	8.41	29.29	0
1/13/2019 1:30	6.944	110.3	12.04	8.22	29.29	0
1/13/2019 1:45	5.819	97	31.46	7.705	29.29	0
1/13/2019 2:00	5.349	61.19	19.71	6.911	29.29	0
1/13/2019 2:15	4.942	104.1	22.52	7.87	29.29	0
1/13/2019 2:30	6.549	93	15.32	8.21	29.29	0
1/13/2019 2:45	6.169	113.3	12.18	8.07	29.29	0
1/13/2019 3:00	5.603	105.8	17.1	7.75	29.31	0
1/13/2019 3:15	5.876	101.2	16.29	7.8	29.31	0
1/13/2019 3:30	5.887	92	11.85	7.984	29.31	0
1/13/2019 3:45	6.543	95.5	9.42	8.39	29.31	0
1/13/2019 4:00	6.086	90.8	13.36	8.35	29.31	0
1/13/2019 4:15	4.99	87.3	16.13	7.715	29.31	0
1/13/2019 4:30	5.131	86	15.44	8.13	29.31	0
1/13/2019 4:45	4.445	71.79	25.51	7.746	29.31	0
1/13/2019 5:00	4.808	70.85	21.24	7.723	29.3	0
1/13/2019 5:15	4.851	92.5	15.8	7.998	29.3	0
1/13/2019 5:30	2.516	39.21	30.83	7.958	29.3	0
1/13/2019 5:45	1.518	6.253	20.86	7.135	29.3	0
1/13/2019 6:00	1.587	359.3	28.2	7.628	29.28	0
1/13/2019 6:15	2.893	357.5	23.05	7.553	29.28	0
1/13/2019 6:30	3.358	38.71	10.21	5.704	29.28	0
1/13/2019 6:45	2.898	356	26.56	6.883	29.28	0
1/13/2019 7:00	3.599	342.9	21.4	6.764	29.29	0
1/13/2019 7:15	3.796	16.02	9.51	6.125	29.29	0

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1/13/2019 7:30	3.875	16.56	11.3	5.975	29.29	0
1/13/2019 7:45	3.269	10.13	23.95	6.847	29.29	0
1/13/2019 8:00	3.025	3.973	22.78	7.328	29.29	0
1/13/2019 8:15	4.319	25.61	6.949	6.25	29.29	0
1/13/2019 8:30	4.153	29.24	4.909	6.33	29.29	0
1/13/2019 8:45	4.669	32.8	5.987	5.788	29.29	0
1/13/2019 9:00	3.571	41.21	7.822	6.943	29.31	0
1/13/2019 9:15	2.584	57.19	11.31	7.818	29.31	0
1/13/2019 9:30	2.602	71.9	18.61	8.78	29.31	0
1/13/2019 9:45	3.964	101.3	17.62	9.58	29.31	0
1/13/2019 10:00	4.586	103.6	7.29	9.94	29.34	0
1/13/2019 10:15	3.656	98.7	10.71	10.14	29.34	0
1/13/2019 10:30	2.122	57.3	13.39	9.99	29.34	0
1/13/2019 10:45	1.283	24.11	18.34	10.65	29.34	0
1/13/2019 11:00	1.547	68.86	51.56	11.23	29.32	0
1/13/2019 11:15	1.618	47.05	30.39	11.73	29.32	0
1/13/2019 11:30	2.633	350.4	11.86	11.24	29.32	0
1/13/2019 11:45	2.696	6.335	20.67	10.81	29.32	0
1/13/2019 12:00	4.269	27	7.044	10.2	29.31	0
1/13/2019 12:15	5.186	26.62	4.575	10.11	29.31	0
1/13/2019 12:30	4.428	23.78	7.334	10.29	29.31	0
1/13/2019 12:45	4.567	28.3	6.337	10.42	29.31	0
1/13/2019 13:00	4.631	21.17	10.31	10.83	29.29	0
1/13/2019 13:15	3.1	26.62	12.2	11.3	29.29	0
1/13/2019 13:30	1.743	12.11	18.45	12.07	29.29	0
1/13/2019 13:45	1.613	357.8	18.08	12.7	29.29	0
1/13/2019 14:00	2.226	26.48	8.03	12.38	29.3	0
1/13/2019 14:15	2.757	29.45	8.63	12.04	29.3	0
1/13/2019 14:30	2.596	25.97	7.193	12.13	29.3	0
1/13/2019 14:45	3.187	34.07	13.33	12	29.3	0
1/13/2019 15:00	3.198	32.63	12.29	11.97	29.27	0
1/13/2019 15:15	2.999	32.21	12.27	11.9	29.27	0
1/13/2019 15:30	1.335	17.76	5.528	12.55	29.27	0
1/13/2019 15:45	1.59	35.43	8.59	12.28	29.27	0
1/13/2019 16:00	1.808	116.6	35.94	12.6	29.28	0
1/13/2019 16:15	2.316	89.9	18.19	12.46	29.28	0
1/13/2019 16:30	2.412	74.8	25.98	11.93	29.28	0
1/13/2019 16:45	1.975	76.68	22.9	11.95	29.28	0
1/13/2019 17:00	4.012	111.8	17.22	11.92	29.29	0
1/13/2019 17:15	3.793	101.7	15.74	11.42	29.29	0
1/13/2019 17:30	5.011	108.4	16.28	11.29	29.29	0
1/13/2019 17:45	5.785	106.7	11.24	11.16	29.29	0
1/13/2019 18:00	6.793	108.8	9.68	10.81	29.3	0
1/13/2019 18:15	5.834	110.9	11.9	10.41	29.3	0
1/13/2019 18:30	4.495	107.1	16.14	10.33	29.3	0
1/13/2019 18:45	5.897	97	15.31	10.04	29.3	0
1/13/2019 19:00	4.836	85.1	16.86	9.58	29.29	0
1/13/2019 19:15	5.014	92.6	13.61	9.41	29.29	0
1/13/2019 19:30	4.309	73.31	13.52	8.85	29.29	0
1/13/2019 19:45	4.801	58.08	18.44	8.22	29.29	0
1/13/2019 20:00	4.652	51.45	9.29	7.613	29.28	0
1/13/2019 20:15	5.272	51.77	7.713	6.441	29.28	0
1/13/2019 20:30	4.842	37.17	13.16	5.885	29.28	0
1/13/2019 20:45	5.569	13.95	9.02	6.72	29.28	0
1/13/2019 21:00	4.711	8.01	15.01	6.936	29.28	0
1/13/2019 21:15	4.8	16.46	10.04	6.569	29.28	0
1/13/2019 21:30	4.158	22.5	7.397	6.516	29.28	0
1/13/2019 21:45	5.304	24.42	7.672	6.655	29.28	0
1/13/2019 22:00	4.22	22.17	7.654	6.695	29.28	0
1/13/2019 22:15	1.443	24.9	15.87	6.618	29.28	0
1/13/2019 22:30	2.079	100.7	40	7.696	29.28	0
1/13/2019 22:45	3.034	19.32	6.574	6.497	29.28	0
1/13/2019 23:00	1.475	23.6	9.5	6.348	29.28	0
1/13/2019 23:15	0.568	60.87	32.91	6.731	29.28	0
1/13/2019 23:30	2.502	94.8	45.8	6.167	29.28	0
1/13/2019 23:45	3.346	104.9	11.58	7.143	29.28	0

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1/14/2019 0:00	2.594	122.6	18.95	7.318	29.28	0
1/14/2019 0:15	1.88	73.39	48.66	6.517	29.28	0
1/14/2019 0:30	2.208	255.6	27.13	6.802	29.28	0
1/14/2019 0:45	1.026	283.6	50.05	6.887	29.28	0
1/14/2019 1:00	2.247	314.4	26.28	6.748	29.28	0
1/14/2019 1:15	3.902	344.8	27.38	5.922	29.28	0
1/14/2019 1:30	3.544	14.41	15.66	3.71	29.28	0
1/14/2019 1:45	2.802	1.717	38.11	2.717	29.28	0
1/14/2019 2:00	4.808	29.96	6.345	2.836	29.28	0
1/14/2019 2:15	4.394	28	7.655	3.558	29.28	0
1/14/2019 2:30	3.959	19.58	11.3	3.599	29.28	0
1/14/2019 2:45	5.193	20.4	6.647	3.712	29.28	0
1/14/2019 3:00	5.291	20.81	5.456	3.77	29.25	0
1/14/2019 3:15	4.479	32.14	5.98	3.295	29.25	0
1/14/2019 3:30	1.938	24.91	23.15	3.794	29.25	0
1/14/2019 3:45	1.874	38.12	16.28	3.661	29.25	0
1/14/2019 4:00	4.053	30.98	11.31	3.322	29.26	0
1/14/2019 4:15	4.032	26.89	6.436	4.177	29.26	0
1/14/2019 4:30	4.394	27.21	9.86	3.28	29.26	0
1/14/2019 4:45	4.576	27.97	12.27	2.64	29.26	0
1/14/2019 5:00	5.749	14.94	9.99	2.908	29.22	0
1/14/2019 5:15	6.424	19.22	7.665	2.511	29.22	0
1/14/2019 5:30	5.805	14.83	9.47	2.657	29.22	0
1/14/2019 5:45	5.107	23.39	11.13	1.928	29.22	0
1/14/2019 6:00	5.722	20.93	6.906	1.844	29.24	0
1/14/2019 6:15	5.059	21.47	10.1	1.813	29.24	0
1/14/2019 6:30	6.429	21.92	7.658	1.944	29.24	0
1/14/2019 6:45	6.315	21.59	7.355	1.527	29.24	0
1/14/2019 7:00	7.228	18.28	7.888	1.543	29.2	0
1/14/2019 7:15	7.284	20.37	6.887	1.545	29.2	0
1/14/2019 7:30	7.2	15.91	11.77	1.65	29.2	0
1/14/2019 7:45	5.796	21.03	8.71	1.603	29.2	0
1/14/2019 8:00	5.652	25.71	7.516	2.067	29.23	0
1/14/2019 8:15	6.154	27.51	9.32	2.711	29.23	0
1/14/2019 8:30	5.283	28.16	8.76	2.895	29.23	0
1/14/2019 8:45	3.847	15.92	13.19	3.255	29.23	0
1/14/2019 9:00	3.994	46.24	24.5	4.433	29.21	0
1/14/2019 9:15	4.597	34.42	15.14	3.097	29.21	0
1/14/2019 9:30	2.707	70.84	28.88	4.107	29.21	0
1/14/2019 9:45	1.787	61.28	48.44	4.392	29.21	0
1/14/2019 10:00	0.998	58.17	20.04	4.865	29.2	0
1/14/2019 10:15	1.6	355.7	42.41	4.78	29.2	0
1/14/2019 10:30	1.475	356.4	41.67	4.982	29.2	0
1/14/2019 10:45	1.989	356.5	42.31	6.248	29.2	0
1/14/2019 11:00	1.716	358.9	50.79	6.31	29.21	0
1/14/2019 11:15	2.889	319.4	31.03	6.499	29.21	0
1/14/2019 11:30	4.107	336.6	25.79	7.147	29.21	0
1/14/2019 11:45	3.892	305.2	13.27	8.26	29.21	0
1/14/2019 12:00	3.752	323.1	14.43	8.45	29.18	0
1/14/2019 12:15	3.209	305.4	17.1	8.99	29.18	0
1/14/2019 12:30	2.478	312.2	22.69	9.45	29.18	0
1/14/2019 12:45	1.761	267	30.26	10.22	29.18	0
1/14/2019 13:00	2.042	218.6	56.24	10.91	29.16	0
1/14/2019 13:15	2.915	320.9	51.74	11.03	29.16	0
1/14/2019 13:30	2.932	309.9	16.34	10.96	29.16	0
1/14/2019 13:45	3.321	292.5	13.02	11.57	29.16	0
1/14/2019 14:00	3.632	287.5	12.21	11.38	29.15	0
1/14/2019 14:15	3.842	286.4	6.888	11.04	29.15	0
1/14/2019 14:30	3.482	281.6	8.67	11.09	29.15	0
1/14/2019 14:45	4.868	283.5	7.153	10.69	29.15	0
1/14/2019 15:00	3.623	283.7	12.84	10.83	29.12	0
1/14/2019 15:15	4.523	278.5	5.625	10.67	29.12	0
1/14/2019 15:30	5.148	287.5	7.296	10.21	29.12	0
1/14/2019 15:45	5.626	285.9	7.416	9.77	29.12	0
1/14/2019 16:00	4.837	279.9	5.239	9.65	29.14	0
1/14/2019 16:15	4.77	281.1	5.904	8.94	29.14	0



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1/14/2019 16:30	4.627	284.8	5.683	8.61	29.14	0
1/14/2019 16:45	2.849	294.9	12.26	8.65	29.14	0
1/14/2019 17:00	3.959	261.6	17.27	8.88	29.14	0
1/14/2019 17:15	4.335	276.4	7.868	8.04	29.14	0
1/14/2019 17:30	2.786	298.3	14.63	8.36	29.14	0
1/14/2019 17:45	2.752	306.8	17.17	8.07	29.14	0
1/14/2019 18:00	3.008	156.5	61.95	8.33	29.1	0
1/14/2019 18:15	6.967	149.1	10.77	8.38	29.1	0
1/14/2019 18:30	6.642	160.3	11.28	7.979	29.1	0
1/14/2019 18:45	4.023	186.2	20.71	7.715	29.1	0
1/14/2019 19:00	4.26	192.3	24.96	7.77	29.12	0
1/14/2019 19:15	6.521	155.7	19.76	8	29.12	0
1/14/2019 19:30	4.326	123.9	30.01	8.48	29.12	0
1/14/2019 19:45	0.932	143.4	38.1	7.515	29.12	0
1/14/2019 20:00	6.685	121.1	19.17	7.87	29.11	0
1/14/2019 20:15	6.843	129.5	12.95	8.03	29.11	0
1/14/2019 20:30	7.844	132.8	18.01	8.12	29.11	0
1/14/2019 20:45	7.195	124.8	35.71	8.03	29.11	0
1/14/2019 21:00	4.848	132.8	50	6.899	29.1	0
1/14/2019 21:15	3.214	21.22	61.94	6.147	29.1	0
1/14/2019 21:30	3.164	295.7	69.21	6.503	29.1	0
1/14/2019 21:45	2.986	222.3	64.62	8.15	29.1	0
1/14/2019 22:00	6.596	196.1	43.67	8.04	29.08	0
1/14/2019 22:15	10.95	173	15.38	9.12	29.08	0
1/14/2019 22:30	5.619	151.3	75.8	7.865	29.08	0
1/14/2019 22:45	5.12	169.3	61.72	8.26	29.08	0
1/14/2019 23:00	7.297	190	19.83	8.21	29.08	0
1/14/2019 23:15	7.971	183.1	12.45	8.9	29.08	0
1/14/2019 23:30	8.93	198.3	17.12	9.92	29.08	0
1/14/2019 23:45	9.64	206.7	37.25	9.24	29.08	0
1/15/2019 0:00	7.297	245.3	27.26	8.04	29.09	0
1/15/2019 0:15	8.52	201.1	21.55	7.715	29.09	0
1/15/2019 0:30	9.52	183.7	16.35	8.16	29.09	0
1/15/2019 0:45	8.42	188.5	18.3	7.879	29.09	0
1/15/2019 1:00	11.26	157.8	10.46	8.27	29.07	0
1/15/2019 1:15	9.35	145	8.84	8.04	29.07	0
1/15/2019 1:30	10.52	150.6	8.73	8.04	29.07	0
1/15/2019 1:45	11.02	150.9	7.47	8.17	29.07	0
1/15/2019 2:00	7.609	150.7	12.52	8.02	29.09	0
1/15/2019 2:15	6.859	132	13.71	8.11	29.09	0
1/15/2019 2:30	8.45	194.5	16.06	6.7	29.09	0
1/15/2019 2:45	7.435	189.6	19.21	6.844	29.09	0
1/15/2019 3:00	9.44	152	26.96	7.488	29.05	0
1/15/2019 3:15	13.12	158.5	11.85	7.765	29.05	0
1/15/2019 3:30	12.47	145.4	11.18	7.59	29.05	0
1/15/2019 3:45	13.09	153.2	10.77	7.325	29.05	0
1/15/2019 4:00	14.79	145.5	11.42	7.242	29.06	0
1/15/2019 4:15	14.83	141.9	9.96	7.46	29.06	0
1/15/2019 4:30	12.38	141.8	10.14	7.218	29.06	0
1/15/2019 4:45	14.28	145.3	12.54	7.164	29.06	0
1/15/2019 5:00	12.25	152.1	11.7	6.912	29.06	0
1/15/2019 5:15	10.85	152.4	15.33	6.654	29.06	0
1/15/2019 5:30	10.07	148.3	14.15	6.46	29.06	0
1/15/2019 5:45	9.84	142.7	10.61	6.402	29.06	0
1/15/2019 6:00	11.29	140.6	12.77	6.296	29.04	0
1/15/2019 6:15	9.64	128.4	13.36	6.321	29.04	0
1/15/2019 6:30	8.23	137.8	14.41	6.126	29.04	0
1/15/2019 6:45	10.02	139.3	14.33	6.072	29.04	0
1/15/2019 7:00	10.3	138.7	15.48	6.036	29.03	0
1/15/2019 7:15	12.21	140	11.44	6.136	29.03	0
1/15/2019 7:30	12.47	141.1	11.63	6.426	29.03	0
1/15/2019 7:45	9.33	146.2	13.6	6.224	29.03	0
1/15/2019 8:00	8.59	164.8	19.44	5.806	29.03	0
1/15/2019 8:15	8.96	183.1	15.77	5.428	29.03	0
1/15/2019 8:30	9.66	173.9	15.07	5.498	29.03	0
1/15/2019 8:45	10.77	159	11.25	5.991	29.03	0

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1/15/2019 9:00	11.98	149.1	11.21	6.55	29.04	0
1/15/2019 9:15	14.37	147.1	12.2	6.695	29.04	0
1/15/2019 9:30	10.94	148.5	12.53	6.938	29.04	0
1/15/2019 9:45	8.39	166.4	19.27	6.79	29.04	0
1/15/2019 10:00	8.68	160.2	19.5	7.364	29.06	0
1/15/2019 10:15	8.31	150.8	13.08	8.1	29.06	0
1/15/2019 10:30	8.23	147.4	13.33	8.13	29.06	0
1/15/2019 10:45	6.923	134.1	15.58	7.963	29.06	0
1/15/2019 11:00	7.022	133.2	12.53	7.641	29.03	0
1/15/2019 11:15	7.354	140.7	10.97	7.714	29.03	0
1/15/2019 11:30	5.931	136.9	10.84	7.963	29.03	0
1/15/2019 11:45	5.347	127.2	16.84	8.26	29.03	0
1/15/2019 12:00	4.996	122.6	16.77	8.82	29.02	0
1/15/2019 12:15	4.178	109.4	14.19	8.91	29.02	0
1/15/2019 12:30	4.019	126	17.21	9.15	29.02	0
1/15/2019 12:45	5.071	121.4	14.87	9.34	29.02	0
1/15/2019 13:00	7.625	136.7	10.46	9.09	28.99	0
1/15/2019 13:15	8.22	135.1	11.87	9.26	28.99	0
1/15/2019 13:30	8.3	138.8	11.45	9.45	28.99	0
1/15/2019 13:45	7.521	138.4	12.34	9.53	28.99	0
1/15/2019 14:00	4.509	106.8	25.85	9.04	28.98	0
1/15/2019 14:15	4.223	109.8	20.41	9.02	28.98	0
1/15/2019 14:30	4.661	114.8	13.9	9.15	28.98	0
1/15/2019 14:45	4.337	89.6	20.2	9.04	28.98	0
1/15/2019 15:00	4.304	90.4	19.9	8.87	28.96	0
1/15/2019 15:15	2.87	90.8	30.9	8.73	28.96	0
1/15/2019 15:30	5.933	160.1	19.52	9.11	28.96	0
1/15/2019 15:45	13.68	154.6	10.02	9.23	28.96	0
1/15/2019 16:00	13.26	146.2	10.82	9.27	28.97	0
1/15/2019 16:15	11.39	143.8	10.97	9.09	28.97	0
1/15/2019 16:30	11.09	138.9	10.74	8.95	28.97	0
1/15/2019 16:45	13.14	144.6	11.1	8.8	28.97	0
1/15/2019 17:00	12.33	155.5	10.03	8.42	28.97	0
1/15/2019 17:15	10.89	148.6	11.28	8.13	28.97	0
1/15/2019 17:30	8.11	134.1	9.78	7.988	28.97	0
1/15/2019 17:45	8.09	130.1	10.61	7.96	28.97	0
1/15/2019 18:00	10.24	135.5	9.1	7.935	28.95	0
1/15/2019 18:15	11.22	130.3	12.19	7.833	28.95	0
1/15/2019 18:30	8.92	132.1	12.58	7.662	28.95	0
1/15/2019 18:45	10.09	137	13.63	7.489	28.95	0
1/15/2019 19:00	13.5	139.1	9.68	7.457	28.95	0
1/15/2019 19:15	14.22	150.4	12.27	7.389	28.95	0
1/15/2019 19:30	12.18	151.1	10.58	7.197	28.95	0
1/15/2019 19:45	13.12	146.7	12.16	7.159	28.95	0
1/15/2019 20:00	15.14	134.8	11.28	7.223	28.92	0
1/15/2019 20:15	15.12	137.5	9.58	7.147	28.92	0
1/15/2019 20:30	13.01	136.2	9.57	7.143	28.92	0
1/15/2019 20:45	12.35	146.8	10.97	6.949	28.92	0
1/15/2019 21:00	12.73	144.8	10.67	6.913	28.94	0
1/15/2019 21:15	13.6	137.4	9.77	6.949	28.94	0
1/15/2019 21:30	12.49	133.3	10.43	6.95	28.94	0
1/15/2019 21:45	10.02	133.5	11.99	6.804	28.94	0
1/15/2019 22:00	9.39	132.1	13.41	6.749	28.94	0
1/15/2019 22:15	9	124.8	14.83	6.811	28.94	0
1/15/2019 22:30	7.146	119.8	14.65	6.629	28.94	0
1/15/2019 22:45	6.824	120.8	12	6.491	28.94	0
1/15/2019 23:00	8.19	119.3	12.84	6.631	28.93	0
1/15/2019 23:15	6.371	122.8	14.07	6.595	28.93	0
1/15/2019 23:30	7.178	137.3	14.29	6.647	28.93	0
1/15/2019 23:45	6.786	134.1	15.69	6.433	28.93	0
1/16/2019 0:00	6.299	123.5	11.87	6.356	28.94	0
1/16/2019 0:15	6.989	148.5	12.63	6.318	28.94	0
1/16/2019 0:30	7.021	148.4	11.75	6.252	28.94	0
1/16/2019 0:45	6.488	131.1	13.56	6.135	28.94	0
1/16/2019 1:00	6.764	136.2	14	6.141	28.94	0
1/16/2019 1:15	7.541	133	14.5	6.199	28.94	0

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1/16/2019 1:30	5.562	116	16.75	6.094	28.94	0
1/16/2019 1:45	4.694	108.8	19.46	5.895	28.94	0
1/16/2019 2:00	3.366	119.9	22.06	5.7	28.93	0
1/16/2019 2:15	5.271	140.4	12.01	6.161	28.93	0
1/16/2019 2:30	5.82	129.2	18.57	6.246	28.93	0
1/16/2019 2:45	8.4	152	13.75	6.279	28.93	0
1/16/2019 3:00	6.386	141.6	13.22	6.344	28.94	0
1/16/2019 3:15	8.37	143.3	10.1	6.462	28.94	0
1/16/2019 3:30	6.866	161.3	12.39	6.477	28.94	0
1/16/2019 3:45	4.799	145.8	18.3	6.598	28.94	0
1/16/2019 4:00	5.813	139.5	19.88	6.491	28.93	0
1/16/2019 4:15	7.818	125.5	14.61	6.486	28.93	0
1/16/2019 4:30	6.466	128.6	13.52	6.401	28.93	0
1/16/2019 4:45	6.34	133.5	12.7	6.438	28.93	0
1/16/2019 5:00	6.799	139.9	13.12	6.417	28.92	0
1/16/2019 5:15	6.243	134.9	18.3	6.554	28.92	0
1/16/2019 5:30	4.96	133.2	15.2	6.362	28.92	0
1/16/2019 5:45	4.265	120.1	12.46	6.1	28.92	0
1/16/2019 6:00	7.313	130.6	15.62	6.467	28.91	0
1/16/2019 6:15	7.194	120.9	16.48	6.33	28.91	0
1/16/2019 6:30	7.125	123.1	13.44	6.138	28.91	0
1/16/2019 6:45	7.246	115.4	15.84	6.188	28.91	0
1/16/2019 7:00	8.02	121	14.09	6.17	28.92	0
1/16/2019 7:15	11.06	137.6	13.73	6.811	28.92	0
1/16/2019 7:30	15.04	145.6	10.98	7.083	28.92	0
1/16/2019 7:45	15.03	143.5	12.04	6.963	28.92	0
1/16/2019 8:00	14.16	143.5	12.31	7.07	28.93	0
1/16/2019 8:15	11.31	137.9	11.5	7.248	28.93	0
1/16/2019 8:30	11.37	134	11.68	7.605	28.93	0
1/16/2019 8:45	13.16	133.4	11.59	8.03	28.93	0
1/16/2019 9:00	13.79	132.9	11.94	8.13	28.96	0
1/16/2019 9:15	14.38	133.1	10.92	8.32	28.96	0
1/16/2019 9:30	14.34	133.3	10.02	8.47	28.96	0
1/16/2019 9:45	12.19	129.5	11.56	8.59	28.96	0
1/16/2019 10:00	12.99	136.9	10.5	8.89	28.95	0
1/16/2019 10:15	12.82	136.3	10.48	9.09	28.95	0
1/16/2019 10:30	10.06	133.3	13.26	9.42	28.95	0
1/16/2019 10:45	8.9	131.9	12.56	9.72	28.95	0
1/16/2019 11:00	8.41	131.3	13.37	10.12	28.94	0
1/16/2019 11:15	10.06	135.2	10.7	10.71	28.94	0
1/16/2019 11:30	10.77	135.9	13.36	10.87	28.94	0
1/16/2019 11:45	11.59	146.9	10.66	11.13	28.94	0
1/16/2019 12:00	14.62	139.4	11.47	10.9	28.94	0
1/16/2019 12:15	14.49	135.9	11.35	10.81	28.94	0
1/16/2019 12:30	13.35	133.6	11.32	10.87	28.94	0
1/16/2019 12:45	12.56	138.8	11.22	10.84	28.94	0
1/16/2019 13:00	13.12	135.1	10.64	10.7	28.9	0
1/16/2019 13:15	12.81	128.8	12.87	10.75	28.9	0
1/16/2019 13:30	13.85	117.1	12.41	10.86	28.9	0
1/16/2019 13:45	11.86	115.8	12.06	11.16	28.9	0
1/16/2019 14:00	9.57	126.5	14.03	11.75	28.9	0
1/16/2019 14:15	12.24	125.9	13.18	11.66	28.9	0
1/16/2019 14:30	12.87	123.4	12.94	11.42	28.9	0
1/16/2019 14:45	12.43	118.9	13.74	11.18	28.9	0
1/16/2019 15:00	11.11	130.2	12.6	10.92	28.87	0
1/16/2019 15:15	11.87	129.4	13.8	10.73	28.87	0
1/16/2019 15:30	11.85	133	11.48	10.52	28.87	0
1/16/2019 15:45	11.28	135.6	11.97	10.41	28.87	0
1/16/2019 16:00	12.35	130.6	13.23	10.09	28.86	0
1/16/2019 16:15	10.91	121.9	13.17	10.08	28.86	0
1/16/2019 16:30	10.91	119.5	13.26	9.95	28.86	0
1/16/2019 16:45	11.39	124.3	12.16	9.67	28.86	0
1/16/2019 17:00	13.13	127.1	10.35	9.55	28.84	0
1/16/2019 17:15	12.58	126.8	11.69	9.47	28.84	0
1/16/2019 17:30	13.13	120.3	14.46	9.51	28.84	0
1/16/2019 17:45	13.12	118.3	12.5	9.53	28.84	0

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1/16/2019 18:00	14.15	124.5	14.76	9.44	28.8	0
1/16/2019 18:15	13.8	118.5	13.37	9.41	28.8	0
1/16/2019 18:30	14.63	119.5	13.09	9.59	28.8	0
1/16/2019 18:45	14.76	122.9	12.55	9.64	28.8	0
1/16/2019 19:00	14.71	121.6	14	9.81	28.78	0
1/16/2019 19:15	15.61	128.5	13.59	9.7	28.78	0
1/16/2019 19:30	14.3	127.7	12.17	9.7	28.78	0
1/16/2019 19:45	15.56	130.5	11.61	9.83	28.78	0
1/16/2019 20:00	16.55	128.2	14.56	9.94	28.76	0
1/16/2019 20:15	19.48	129	12.61	9.93	28.76	0
1/16/2019 20:30	20	131.3	11.91	10.1	28.76	0
1/16/2019 20:45	17.51	127.5	13.52	10.28	28.76	0
1/16/2019 21:00	20.03	125.9	13.32	10.48	28.73	0
1/16/2019 21:15	17.76	128.6	12.48	10.61	28.73	0
1/16/2019 21:30	17.35	138.4	13.17	10.6	28.73	0
1/16/2019 21:45	16.76	132.7	11.57	10.53	28.73	0
1/16/2019 22:00	17.09	126.9	12.3	10.58	28.74	0
1/16/2019 22:15	14.37	132.3	13.74	10.35	28.74	0
1/16/2019 22:30	18.7	133.9	11.15	10.18	28.74	0
1/16/2019 22:45	20.6	128.3	12.19	9.97	28.74	0
1/16/2019 23:00	22.76	132.9	10.96	10	28.71	0
1/16/2019 23:15	20.18	132.8	11.21	10.2	28.71	0
1/16/2019 23:30	22.36	133.1	10.84	10.32	28.71	0
1/16/2019 23:45	19.84	132.6	11.76	10.06	28.71	0
1/17/2019 0:00	20.01	130.3	10.85	9.73	28.71	0
1/17/2019 0:15	16.29	125	11.66	9.45	28.71	0
1/17/2019 0:30	16.33	123.5	12.1	9.99	28.71	0
1/17/2019 0:45	18.09	129.6	10.45	10.17	28.71	0
1/17/2019 1:00	18.13	128.1	11.53	10.16	28.69	0
1/17/2019 1:15	17.78	135.9	12.01	10.12	28.69	0
1/17/2019 1:30	18.25	135.8	11.38	9.83	28.69	0
1/17/2019 1:45	18.34	131.4	10.4	9.04	28.69	0
1/17/2019 2:00	16.93	130.9	10.57	8.4	28.69	0
1/17/2019 2:15	16.06	122.5	10.76	8.33	28.69	0
1/17/2019 2:30	17.52	128.7	12.12	8.46	28.69	0
1/17/2019 2:45	17.35	123.1	12.22	7.871	28.69	0
1/17/2019 3:00	16.76	115.9	12.44	7.624	28.65	0
1/17/2019 3:15	16.91	119.1	13.18	8.03	28.65	0
1/17/2019 3:30	16.46	118.4	12.69	8.51	28.65	0
1/17/2019 3:45	16.06	117.6	14.23	8.73	28.65	0
1/17/2019 4:00	13.74	110.9	13.82	8.86	28.64	0
1/17/2019 4:15	8.59	103.6	14.41	8.88	28.64	0
1/17/2019 4:30	10.19	117.5	14.36	8.96	28.64	0
1/17/2019 4:45	10.86	112.2	13.62	8.83	28.64	0
1/17/2019 5:00	8.66	117.8	16.18	9.08	28.63	0
1/17/2019 5:15	12.12	130.2	12.76	9.2	28.63	0
1/17/2019 5:30	15.39	123.6	11.81	9.02	28.63	0
1/17/2019 5:45	16.25	126.8	13.47	9.08	28.63	0
1/17/2019 6:00	14.87	129.2	10.8	9.06	28.62	0
1/17/2019 6:15	8.39	117.5	16.41	9.35	28.62	0
1/17/2019 6:30	9.23	123.3	16.8	9.57	28.62	0
1/17/2019 6:45	9.09	148.4	13.96	8.97	28.62	0
1/17/2019 7:00	12.77	137	15.78	8.8	28.64	0
1/17/2019 7:15	10.17	127.1	14.88	8.85	28.64	0
1/17/2019 7:30	9.24	124	15.54	8.74	28.64	0
1/17/2019 7:45	7.242	109.6	16.97	8.82	28.64	0
1/17/2019 8:00	7.135	125.6	15.92	8.98	28.65	0
1/17/2019 8:15	13.51	135.7	10.29	8.99	28.65	0
1/17/2019 8:30	12.6	129.8	11.87	9.25	28.65	0
1/17/2019 8:45	10.11	143.9	13.17	9.3	28.65	0
1/17/2019 9:00	11.1	142.5	11.12	9.17	28.65	0
1/17/2019 9:15	9.38	128.4	11.63	9.28	28.65	0
1/17/2019 9:30	11.28	137.8	11.07	9.21	28.65	0
1/17/2019 9:45	8.17	130.8	15.6	9.29	28.65	0
1/17/2019 10:00	4.013	117.5	25	9.21	28.67	0
1/17/2019 10:15	2.664	94.6	33.74	9.21	28.67	0

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1/17/2019 10:30	9.03	120.8	23.95	9.34	28.67	0
1/17/2019 10:45	14.85	136.6	10.4	9.68	28.67	0
1/17/2019 11:00	12.91	147.8	10.86	9.82	28.68	0
1/17/2019 11:15	12.21	150.1	9.15	9.98	28.68	0
1/17/2019 11:30	11.57	149.4	9.5	10.03	28.68	0
1/17/2019 11:45	14.21	131.5	12.94	10.02	28.68	0
1/17/2019 12:00	13.12	135.2	10.83	10.08	28.69	0
1/17/2019 12:15	13.59	131.2	10.57	10.13	28.69	0
1/17/2019 12:30	14.84	135.2	8.89	10.18	28.69	0
1/17/2019 12:45	14.47	133.8	9.49	10.37	28.69	0
1/17/2019 13:00	14.05	133.9	9.58	10.49	28.68	0
1/17/2019 13:15	13.21	135.3	10.52	10.47	28.68	0
1/17/2019 13:30	12.77	130.7	9.21	10.43	28.68	0
1/17/2019 13:45	12.48	137.4	8.92	10.46	28.68	0
1/17/2019 14:00	9.81	146.4	12.56	10.45	28.7	0
1/17/2019 14:15	10.87	141	10.38	10.43	28.7	0
1/17/2019 14:30	9.5	141.7	10.65	10.32	28.7	0
1/17/2019 14:45	9.46	142	9.4	9.98	28.7	0
1/17/2019 15:00	8.59	138.8	8.49	9.88	28.74	0
1/17/2019 15:15	9.21	144.3	8.77	9.85	28.74	0
1/17/2019 15:30	10.66	138.5	9.47	9.77	28.74	0
1/17/2019 15:45	10.46	141.9	10.18	9.74	28.74	0
1/17/2019 16:00	8.96	145.5	9.32	10.01	28.77	0
1/17/2019 16:15	9.59	144	9.34	9.87	28.77	0
1/17/2019 16:30	11.36	145	8.33	9.68	28.77	0
1/17/2019 16:45	10.68	145.1	8.2	9.46	28.77	0
1/17/2019 17:00	11.03	145.7	8.03	9.34	28.8	0
1/17/2019 17:15	11.18	144.3	8.12	9.3	28.8	0
1/17/2019 17:30	10.09	145.4	9.3	9.15	28.8	0
1/17/2019 17:45	10.27	148.2	8.5	9.18	28.8	0
1/17/2019 18:00	8.12	148.4	10.27	9.02	28.83	0
1/17/2019 18:15	7.212	158.4	12.03	9.16	28.83	0
1/17/2019 18:30	7.755	158.2	9.45	9.13	28.83	0
1/17/2019 18:45	10.06	174	11.94	9.48	28.83	0
1/17/2019 19:00	12.3	178.1	14.47	9.89	28.86	0
1/17/2019 19:15	14.79	191.1	8.5	10.27	28.86	0
1/17/2019 19:30	14.8	191.9	7.755	10.26	28.86	0
1/17/2019 19:45	16.08	196.8	9.11	10.21	28.86	0
1/17/2019 20:00	16.64	196.4	10.22	10.14	28.89	0
1/17/2019 20:15	16.21	198.2	7.865	10.1	28.89	0
1/17/2019 20:30	18.51	196.9	8.06	10.1	28.89	0
1/17/2019 20:45	19.06	197.7	6.642	9.99	28.89	0
1/17/2019 21:00	14.65	195.2	7.691	9.84	28.93	0
1/17/2019 21:15	15.66	193	7.983	9.83	28.93	0
1/17/2019 21:30	14.47	192.4	8.37	9.8	28.93	0
1/17/2019 21:45	14.72	196	8.56	9.77	28.93	0
1/17/2019 22:00	15.63	197.2	8.19	9.45	28.97	0
1/17/2019 22:15	15.83	192.6	6.792	9.45	28.97	0
1/17/2019 22:30	18.25	191.1	8.93	9.58	28.97	0
1/17/2019 22:45	16.3	195.4	9.26	9.34	28.97	0
1/17/2019 23:00	18.03	195.3	9.22	9.07	29.04	0
1/17/2019 23:15	17.33	197.5	9.53	8.51	29.04	0
1/17/2019 23:30	16.34	193.7	8.33	8.05	29.04	0
1/17/2019 23:45	14.78	193.3	8.11	7.844	29.04	0
1/18/2019 0:00	10.88	201.2	10.79	7.889	29.1	0
1/18/2019 0:15	13.75	205.7	10.7	7.966	29.1	0
1/18/2019 0:30	13.68	199.1	8.15	7.61	29.1	0
1/18/2019 0:45	10.6	184.6	8.87	7.467	29.1	0
1/18/2019 1:00	11.09	184.9	8.43	7.678	29.12	0
1/18/2019 1:15	12.43	185.2	9.87	7.933	29.12	0
1/18/2019 1:30	13.02	189.5	8.01	8.08	29.12	0
1/18/2019 1:45	13.19	191.8	8.21	8.02	29.12	0
1/18/2019 2:00	15.96	198.8	11.05	8.08	29.17	0
1/18/2019 2:15	16.39	198.2	10.11	8.12	29.17	0
1/18/2019 2:30	16.43	194.4	8.49	7.783	29.17	0
1/18/2019 2:45	15.93	190.6	9.16	7.534	29.17	0

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1/18/2019 3:00	14.19	187.9	9.29	7.398	29.18	0
1/18/2019 3:15	12.67	186	8.26	7.302	29.18	0
1/18/2019 3:30	11.24	185.5	8.46	7.225	29.18	0
1/18/2019 3:45	9.87	164.9	12.35	6.907	29.18	0
1/18/2019 4:00	8	139.2	9.02	6.669	29.22	0
1/18/2019 4:15	8.37	149	10.73	6.527	29.22	0
1/18/2019 4:30	8.56	154.1	9.46	6.592	29.22	0
1/18/2019 4:45	8.94	150.5	8.25	6.651	29.22	0
1/18/2019 5:00	10.6	156.9	6.479	6.752	29.23	0
1/18/2019 5:15	10.2	152.3	8.15	6.832	29.23	0
1/18/2019 5:30	11.18	157.8	8.93	6.698	29.23	0
1/18/2019 5:45	7.007	142.2	11.24	6.598	29.23	0
1/18/2019 6:00	6.229	125.8	7.556	6.494	29.25	0
1/18/2019 6:15	7.496	139.1	17.67	6.813	29.25	0
1/18/2019 6:30	6.632	145.9	9.97	6.736	29.25	0
1/18/2019 6:45	5.942	136	11.41	6.844	29.25	0
1/18/2019 7:00	7.328	147.5	10.55	6.85	29.28	0
1/18/2019 7:15	6.895	147.9	9.25	6.872	29.28	0
1/18/2019 7:30	5.74	143.3	9.37	7.081	29.28	0
1/18/2019 7:45	6.207	148	8.96	7.18	29.28	0
1/18/2019 8:00	7.859	165.7	16.51	7.347	29.28	0
1/18/2019 8:15	10.33	190.7	8.48	7.311	29.28	0
1/18/2019 8:30	5.731	164	26.45	7.105	29.28	0
1/18/2019 8:45	3.968	119.2	13.21	6.969	29.28	0
1/18/2019 9:00	5.99	144.8	10.54	7.262	29.29	0
1/18/2019 9:15	5.558	148.3	8.57	7.362	29.29	0
1/18/2019 9:30	6.141	147.8	8.04	7.456	29.29	0
1/18/2019 9:45	7.829	161.5	10.14	7.633	29.29	0
1/18/2019 10:00	7.783	168.3	12.14	7.858	29.3	0
1/18/2019 10:15	6.883	160.1	11.8	7.818	29.3	0
1/18/2019 10:30	6.557	145.6	9.47	7.903	29.3	0
1/18/2019 10:45	4.913	136.3	11.25	8.2	29.3	0
1/18/2019 11:00	4.059	134.6	11.53	8.43	29.31	0
1/18/2019 11:15	4.381	132.9	9.22	8.64	29.31	0
1/18/2019 11:30	4.706	138.1	10.96	8.93	29.31	0
1/18/2019 11:45	5.303	140.6	8.53	9.11	29.31	0
1/18/2019 12:00	5.26	136.5	10.39	9.26	29.27	0
1/18/2019 12:15	5.108	149.5	10.6	9.46	29.27	0
1/18/2019 12:30	8.2	139.8	11.7	9.59	29.27	0
1/18/2019 12:45	8.47	137.8	10.19	9.67	29.27	0
1/18/2019 13:00	9.56	133.7	10.56	9.76	29.22	0
1/18/2019 13:15	8.37	136.5	10.05	9.98	29.22	0
1/18/2019 13:30	8.9	138.9	12.04	10.02	29.22	0
1/18/2019 13:45	8.92	134.9	10.71	10.16	29.22	0
1/18/2019 14:00	7.855	118.8	11.93	10.39	29.2	0
1/18/2019 14:15	5.177	107.9	14.39	10.7	29.2	0
1/18/2019 14:30	1.569	39.38	20.58	10.51	29.2	0
1/18/2019 14:45	5.744	157.4	28.12	10.45	29.2	0
1/18/2019 15:00	6.33	149.4	9.24	10.25	29.2	0
1/18/2019 15:15	5.64	145.3	9.99	10.17	29.2	0
1/18/2019 15:30	7.278	147	11.05	10.09	29.2	0
1/18/2019 15:45	7.357	129.6	10.09	10.02	29.2	0
1/18/2019 16:00	8.16	132.1	10.4	9.94	29.16	0
1/18/2019 16:15	10.44	130.5	11.69	9.86	29.16	0
1/18/2019 16:30	10.55	127.7	11.51	9.83	29.16	0
1/18/2019 16:45	10.85	143.2	10.4	9.84	29.16	0
1/18/2019 17:00	7.305	147.4	9.15	9.59	29.13	0
1/18/2019 17:15	13.59	140.8	11.43	9.43	29.13	0
1/18/2019 17:30	16.3	148.1	10.81	8.73	29.13	0
1/18/2019 17:45	14.24	145.7	11.26	8.09	29.13	0
1/18/2019 18:00	10.27	130.6	12.3	7.854	29.08	0
1/18/2019 18:15	11.72	132.8	9.88	7.424	29.08	0
1/18/2019 18:30	11.57	131	9.78	7.061	29.08	0
1/18/2019 18:45	9.68	129.3	13.3	6.799	29.08	0
1/18/2019 19:00	12.07	137.4	9.95	6.592	29.06	0
1/18/2019 19:15	13.6	126.4	10.43	6.582	29.06	0

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1/18/2019 19:30	13.9	131.2	9.78	6.76	29.06	0
1/18/2019 19:45	14.7	128.3	10.19	6.967	29.06	0
1/18/2019 20:00	16.5	135.4	10.14	6.992	29.03	0
1/18/2019 20:15	17.02	135.1	11.14	6.741	29.03	0
1/18/2019 20:30	18.1	132	10.75	6.406	29.03	0
1/18/2019 20:45	19.66	132.4	10.67	6.393	29.03	0
1/18/2019 21:00	22.34	134.1	9.21	6.439	28.97	0
1/18/2019 21:15	20.63	135.2	9.64	6.539	28.97	0
1/18/2019 21:30	18.72	136.9	9.96	6.681	28.97	0
1/18/2019 21:45	19.64	129.5	10.44	6.607	28.97	0
1/18/2019 22:00	19.23	132.4	10.62	6.573	29	0
1/18/2019 22:15	19.22	137.4	10.68	6.489	29	0
1/18/2019 22:30	19.67	133.9	10.12	6.479	29	0
1/18/2019 22:45	21.75	131.7	10.05	6.577	29	0
1/18/2019 23:00	19.2	133.5	9.94	6.429	29.01	0
1/18/2019 23:15	18.51	137.4	9.71	6.464	29.01	0
1/18/2019 23:30	16.48	139.8	9.67	6.566	29.01	0
1/18/2019 23:45	18.52	135.1	9.63	6.727	29.01	0
1/19/2019 0:00	18.39	133	8.89	6.897	29.01	0
1/19/2019 0:15	18.58	133.2	8.6	7.197	29.01	0
1/19/2019 0:30	17.76	136.6	9.07	7.176	29.01	0
1/19/2019 0:45	18.21	135.6	9.09	7.276	29.01	0
1/19/2019 1:00	17.09	137.8	9.01	7.452	29.06	0
1/19/2019 1:15	14.04	145.8	13	7.718	29.06	0
1/19/2019 1:30	11.82	153.1	13.48	7.728	29.06	0
1/19/2019 1:45	11.82	140.4	9.35	8.15	29.06	0
1/19/2019 2:00	10.82	151.7	9.58	8.28	29.08	0
1/19/2019 2:15	10.13	158.3	6.387	8.31	29.08	0
1/19/2019 2:30	10.51	154	6.725	8.45	29.08	0
1/19/2019 2:45	9.22	160.9	8.14	8.76	29.08	0
1/19/2019 3:00	8.48	181.4	8.92	9.04	29.13	0
1/19/2019 3:15	9.51	190.2	12.73	8.94	29.13	0
1/19/2019 3:30	11.2	229.6	9.46	9.2	29.13	0
1/19/2019 3:45	10.32	217.9	12.3	9.15	29.13	0
1/19/2019 4:00	10.93	214.9	8.9	9.08	29.16	0
1/19/2019 4:15	11.77	217.9	9.68	9.03	29.16	0
1/19/2019 4:30	13.21	223	10.26	8.98	29.16	0
1/19/2019 4:45	12.76	223.4	10.51	8.94	29.16	0
1/19/2019 5:00	13.01	225.3	10.09	8.88	29.18	0
1/19/2019 5:15	11.19	217.5	9.02	8.59	29.18	0
1/19/2019 5:30	10.91	213.4	10.33	8.58	29.18	0
1/19/2019 5:45	7.355	209.8	11.7	8.4	29.18	0
1/19/2019 6:00	6.198	201.3	18.12	8.31	29.21	0
1/19/2019 6:15	5.409	174	14.72	8.07	29.21	0
1/19/2019 6:30	6.731	158.6	9.77	7.899	29.21	0
1/19/2019 6:45	7.008	162.6	12.89	7.892	29.21	0
1/19/2019 7:00	6.749	150.7	12.35	7.761	29.26	0
1/19/2019 7:15	6.605	162.4	9.33	7.284	29.26	0
1/19/2019 7:30	5.901	173.4	11.34	7.402	29.26	0
1/19/2019 7:45	8.74	181.5	19.28	7.653	29.26	0
1/19/2019 8:00	9.31	179.1	9.27	7.536	29.26	0
1/19/2019 8:15	7.101	176.5	10.06	7.325	29.26	0
1/19/2019 8:30	6.104	166.2	7.826	6.883	29.26	0
1/19/2019 8:45	7.507	152.1	5.249	6.823	29.26	0
1/19/2019 9:00	8.21	161.4	7.533	7.004	29.29	0
1/19/2019 9:15	8.32	159.2	7.069	7.108	29.29	0
1/19/2019 9:30	9.12	163.2	6.716	7.134	29.29	0
1/19/2019 9:45	8.71	162.5	7.239	7.241	29.29	0
1/19/2019 10:00	7.593	171.5	10.37	7.451	29.32	0
1/19/2019 10:15	7.455	172.9	12.55	7.758	29.32	0
1/19/2019 10:30	8.51	159.2	8.22	7.898	29.32	0
1/19/2019 10:45	8.67	177.6	10.7	8.02	29.32	0
1/19/2019 11:00	9.22	178.2	10.43	8.18	29.33	0
1/19/2019 11:15	9.67	179.4	11.81	8.2	29.33	0
1/19/2019 11:30	7.478	159.7	12.1	8.29	29.33	0
1/19/2019 11:45	7.131	153.6	9.17	8.47	29.33	0

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1/19/2019 12:00	8.95	174.7	15.47	8.78	29.3	0
1/19/2019 12:15	12.44	189.3	12.31	8.98	29.3	0
1/19/2019 12:30	12.95	196	13.71	8.81	29.3	0
1/19/2019 12:45	9.9	183.4	11.46	9.06	29.3	0
1/19/2019 13:00	10.79	185.9	9.67	9.53	29.31	0
1/19/2019 13:15	8.58	200.7	13.4	9.62	29.31	0
1/19/2019 13:30	10.5	214.1	13.27	9.39	29.31	0
1/19/2019 13:45	11.3	206.4	11.97	9.71	29.31	0
1/19/2019 14:00	13.93	205.9	10.11	9.63	29.33	0
1/19/2019 14:15	14.59	208.7	8.8	9.4	29.33	0
1/19/2019 14:30	14.39	202.6	7.729	9.18	29.33	0
1/19/2019 14:45	12.26	197.9	10.76	9.12	29.33	0
1/19/2019 15:00	11.26	195.9	7.691	9.06	29.34	0
1/19/2019 15:15	10.57	186.2	9.91	9.03	29.34	0
1/19/2019 15:30	10.43	191.2	9.34	8.97	29.34	0
1/19/2019 15:45	10.42	196.1	9.08	8.83	29.34	0
1/19/2019 16:00	10.97	195.6	7.971	8.58	29.35	0
1/19/2019 16:15	9.36	194.6	7.93	8.54	29.35	0
1/19/2019 16:30	5.919	195	9.06	8.5	29.35	0
1/19/2019 16:45	5.042	204.5	17.88	8.43	29.35	0
1/19/2019 17:00	9.6	227.8	11.3	8.33	29.34	0
1/19/2019 17:15	11.19	225	11.9	7.429	29.34	0
1/19/2019 17:30	7.17	188.2	10.49	6.767	29.34	0
1/19/2019 17:45	8.27	188.4	8.5	6.526	29.34	0
1/19/2019 18:00	7.034	178.4	12.62	6.429	29.36	0
1/19/2019 18:15	6.021	181	10.39	6.26	29.36	0
1/19/2019 18:30	8.4	174.3	12.15	6.18	29.36	0
1/19/2019 18:45	7.502	151.8	8.19	5.896	29.36	0
1/19/2019 19:00	7.395	150.3	8.8	5.961	29.33	0
1/19/2019 19:15	7.194	146	9	6.09	29.33	0
1/19/2019 19:30	5.921	149.5	10.45	6.075	29.33	0
1/19/2019 19:45	5.324	139	11.32	5.999	29.33	0
1/19/2019 20:00	6.836	123.4	8.71	6.072	29.33	0
1/19/2019 20:15	6.09	119.6	13.09	6.352	29.33	0
1/19/2019 20:30	6.841	136.2	11.2	6.632	29.33	0
1/19/2019 20:45	6.837	147.4	7.583	6.673	29.33	0
1/19/2019 21:00	6.801	149.2	6.944	6.655	29.35	0
1/19/2019 21:15	6.827	143.7	6.842	6.633	29.35	0
1/19/2019 21:30	6.922	148.3	6.666	6.564	29.35	0
1/19/2019 21:45	5.946	138.4	7.088	6.509	29.35	0
1/19/2019 22:00	6.254	141.3	6.565	6.475	29.32	0
1/19/2019 22:15	7.441	144.9	6.7	6.433	29.32	0
1/19/2019 22:30	6.155	142.7	8.82	6.485	29.32	0
1/19/2019 22:45	5.781	148.6	8.11	6.332	29.32	0
1/19/2019 23:00	7.271	161.7	9.2	6.146	29.3	0
1/19/2019 23:15	5.443	138	15.58	6.062	29.3	0
1/19/2019 23:30	6.666	146.1	8.03	6.103	29.3	0
1/19/2019 23:45	6.215	147.8	8.5	6.045	29.3	0
1/20/2019 0:00	5.1	135.8	8.11	6.154	29.29	0
1/20/2019 0:15	3.319	132.7	7.2	6.128	29.29	0
1/20/2019 0:30	2.073	75.7	36.73	5.81	29.29	0
1/20/2019 0:45	3.91	37.22	5.714	5.015	29.29	0
1/20/2019 1:00	4.721	29.73	8.85	4.825	29.27	0
1/20/2019 1:15	3.998	34.18	10.71	4.486	29.27	0
1/20/2019 1:30	3.889	30.47	8.63	4.587	29.27	0
1/20/2019 1:45	3.998	19.35	7.173	4.946	29.27	0
1/20/2019 2:00	3.958	26.22	8.32	4.478	29.25	0
1/20/2019 2:15	1.72	22.88	4.121	4.366	29.25	0
1/20/2019 2:30	0.552	349.8	17.77	4.259	29.25	0
1/20/2019 2:45	0.564	15.27	6.831	4.31	29.25	0
1/20/2019 3:00	0.894	27.97	8.47	4.131	29.21	0
1/20/2019 3:15	0.727	23.07	35.15	3.981	29.21	0
1/20/2019 3:30	2.62	41.78	8.69	4.345	29.21	0
1/20/2019 3:45	4.391	32.93	10.24	3.858	29.21	0
1/20/2019 4:00	5.366	29.34	8.15	3.473	29.17	0
1/20/2019 4:15	4.654	48.32	9.3	3.342	29.17	0



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1/20/2019 4:30	6.11	22.59	12	3.398	29.17	0
1/20/2019 4:45	7.296	21	11.09	3.428	29.17	0
1/20/2019 5:00	6.416	28.83	7.372	3.348	29.12	0
1/20/2019 5:15	6.784	28.18	7.584	3.32	29.12	0
1/20/2019 5:30	10.11	27.67	6.994	3.379	29.12	0
1/20/2019 5:45	7.418	38.87	8.34	3.149	29.12	0
1/20/2019 6:00	9.92	32.7	9.04	3.117	29.1	0
1/20/2019 6:15	9.64	24	7.155	3.024	29.1	0
1/20/2019 6:30	5.832	40.15	9.69	2.991	29.1	0
1/20/2019 6:45	4.396	31.43	9.21	2.891	29.1	0
1/20/2019 7:00	7.4	27.5	8.6	2.87	29.1	0
1/20/2019 7:15	8.68	22.38	8.72	2.85	29.1	0
1/20/2019 7:30	7.168	25.13	10.51	2.835	29.1	0
1/20/2019 7:45	6.715	28.82	9.41	2.787	29.1	0
1/20/2019 8:00	3.769	44.05	15.93	2.727	29.1	0
1/20/2019 8:15	1.777	17.58	20.36	2.683	29.1	0
1/20/2019 8:30	3.433	39.6	12.85	2.699	29.1	0
1/20/2019 8:45	8.59	36.39	9.1	2.762	29.1	0
1/20/2019 9:00	10.54	36.32	8.14	2.872	29.07	0
1/20/2019 9:15	11.61	28.43	8.6	3.103	29.07	0
1/20/2019 9:30	8.08	34.46	7.884	3.095	29.07	0
1/20/2019 9:45	7.239	42.9	12.97	3.214	29.07	0
1/20/2019 10:00	8.57	34.91	7.399	3.36	29.06	0
1/20/2019 10:15	6.592	27.02	9.98	3.466	29.06	0
1/20/2019 10:30	3.669	340.7	37.99	3.548	29.06	0
1/20/2019 10:45	2.316	265.7	42.78	3.876	29.06	0
1/20/2019 11:00	4.106	43.75	13.23	3.832	29.08	0
1/20/2019 11:15	5.851	26.64	10.71	3.813	29.08	0
1/20/2019 11:30	5.987	29.41	10.44	3.977	29.08	0
1/20/2019 11:45	5.541	38.11	9.73	4.092	29.08	0
1/20/2019 12:00	5.569	36.17	9.97	4.188	29.06	0
1/20/2019 12:15	5.226	32.84	12.82	4.318	29.06	0
1/20/2019 12:30	4.944	22.99	13.19	4.463	29.06	0
1/20/2019 12:45	3.677	14.23	11.75	4.693	29.06	0
1/20/2019 13:00	3.818	8.92	8.61	4.838	29.06	0
1/20/2019 13:15	5.671	15.1	8.44	4.834	29.06	0
1/20/2019 13:30	5.112	35.08	8.61	4.8	29.06	0
1/20/2019 13:45	4.441	33.13	9.07	4.93	29.06	0
1/20/2019 14:00	1.774	29.76	13.24	5.073	29.05	0
1/20/2019 14:15	0.91	4.603	6.76	5.251	29.05	0
1/20/2019 14:30	1.68	4.574	7.131	5.403	29.05	0
1/20/2019 14:45	1.945	6.997	15.88	5.438	29.05	0
1/20/2019 15:00	3.572	34.57	12.43	5.534	29.06	0
1/20/2019 15:15	4.797	40.04	9.4	5.64	29.06	0
1/20/2019 15:30	4.278	29.89	9.41	5.576	29.06	0
1/20/2019 15:45	2.795	25.17	11.45	5.623	29.06	0
1/20/2019 16:00	3.533	17.36	10.49	5.64	29.08	0
1/20/2019 16:15	5.177	11.78	13.25	5.61	29.08	0
1/20/2019 16:30	6.52	344.6	13.23	5.557	29.08	0
1/20/2019 16:45	6.683	351	15.75	5.415	29.08	0
1/20/2019 17:00	6.946	6.281	14.53	5.325	29.1	0
1/20/2019 17:15	5.873	12.74	10.59	5.162	29.1	0
1/20/2019 17:30	7.314	26.26	8.08	5.104	29.1	0
1/20/2019 17:45	6.09	29.92	9.21	5.087	29.1	0
1/20/2019 18:00	4.665	22.54	18.31	4.983	29.09	0
1/20/2019 18:15	3.403	294.6	17.26	4.93	29.09	0
1/20/2019 18:30	3.047	310.9	19.48	4.984	29.09	0
1/20/2019 18:45	3.234	328.8	18.64	4.99	29.09	0
1/20/2019 19:00	2.297	5.728	16.11	4.79	29.1	0
1/20/2019 19:15	0.942	17.94	9.29	4.356	29.1	0
1/20/2019 19:30	1.042	1.353	13.04	4.397	29.1	0
1/20/2019 19:45	1.931	23.49	5.472	4.199	29.1	0
1/20/2019 20:00	1.326	10.79	14.11	3.882	29.12	0
1/20/2019 20:15	2.704	9.78	20.02	4.159	29.12	0
1/20/2019 20:30	0.602	25.36	2.925	3.969	29.12	0
1/20/2019 20:45	0.85	21.65	3.671	3.454	29.12	0

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1/20/2019 21:00	0.88	35.01	5.59	3.353	29.14	0
1/20/2019 21:15	0.11	37.5	1.619	3.585	29.14	0
1/20/2019 21:30	0.105	15.42	0.137	4.069	29.14	0
1/20/2019 21:45	2.104	340.7	22.34	3.755	29.14	0
1/20/2019 22:00	2.621	352.1	18.55	3.621	29.14	0
1/20/2019 22:15	3.394	24.55	13.16	3.521	29.14	0
1/20/2019 22:30	1.742	321.5	20.6	3.569	29.14	0
1/20/2019 22:45	1.732	299.5	9.47	3.809	29.14	0
1/20/2019 23:00	0.26	350.3	21.34	3.593	29.18	0
1/20/2019 23:15	1.357	257.4	26.28	3.094	29.18	0
1/20/2019 23:30	1.673	235.6	20.99	2.976	29.18	0
1/20/2019 23:45	3.132	216.1	6.204	2.82	29.18	0
1/21/2019 0:00	2.408	210.4	6.593	2.745	29.21	0
1/21/2019 0:15	3.332	205.6	4.83	2.716	29.21	0
1/21/2019 0:30	3.352	182.6	11.23	2.475	29.21	0
1/21/2019 0:45	3.388	203	19.91	2.366	29.21	0
1/21/2019 1:00	1.625	322.5	74.84	2.395	29.2	0
1/21/2019 1:15	3.606	181.4	18.46	2.426	29.2	0
1/21/2019 1:30	4.815	195.1	7.1	2.436	29.2	0
1/21/2019 1:45	5.912	197.8	11.69	2.423	29.2	0
1/21/2019 2:00	5.378	209.4	5.73	2.384	29.24	0
1/21/2019 2:15	3.435	224.1	56.38	2.194	29.24	0
1/21/2019 2:30	2.055	174.5	22.37	2.193	29.24	0
1/21/2019 2:45	0.834	127.6	6.467	2.137	29.24	0
1/21/2019 3:00	1.178	128.5	6.868	2.095	29.27	0
1/21/2019 3:15	2.612	147.8	10.53	2.42	29.27	0
1/21/2019 3:30	2.796	163.3	4.455	2.495	29.27	0
1/21/2019 3:45	3.761	174.8	5.12	2.451	29.27	0
1/21/2019 4:00	3.371	198.2	7.058	2.643	29.27	0
1/21/2019 4:15	1.639	150.5	8.08	2.807	29.27	0
1/21/2019 4:30	1.421	175.4	74.18	2.771	29.27	0
1/21/2019 4:45	0.523	270.4	3.785	2.688	29.27	0
1/21/2019 5:00	1.404	156.9	3.694	2.673	29.3	0
1/21/2019 5:15	1.904	196	28.97	2.712	29.3	0
1/21/2019 5:30	2.02	243.4	19.95	2.809	29.3	0
1/21/2019 5:45	1.006	211	34.43	2.754	29.3	0
1/21/2019 6:00	1.257	187.1	49.77	2.732	29.33	0
1/21/2019 6:15	2.265	106.2	12.52	2.513	29.33	0
1/21/2019 6:30	0.876	155.7	43.76	2.511	29.33	0
1/21/2019 6:45	1.176	168.2	10.29	2.579	29.33	0
1/21/2019 7:00	2.372	117.1	4.765	2.35	29.34	0
1/21/2019 7:15	2.497	127.8	17.72	2.417	29.34	0
1/21/2019 7:30	3.031	175.7	9.76	2.661	29.34	0
1/21/2019 7:45	2.666	220.2	20.09	2.706	29.34	0
1/21/2019 8:00	3.542	213.3	20.12	2.531	29.37	0
1/21/2019 8:15	4.753	223.1	4.621	2.409	29.37	0
1/21/2019 8:30	2.834	191.6	18.8	2.454	29.37	0
1/21/2019 8:45	3.512	161.5	6.683	2.493	29.37	0
1/21/2019 9:00	2.139	141.6	13.9	2.482	29.42	0
1/21/2019 9:15	2.397	149.6	16.2	2.616	29.42	0
1/21/2019 9:30	1.747	173.1	17.28	2.662	29.42	0
1/21/2019 9:45	1.116	191.1	12.79	2.933	29.42	0
1/21/2019 10:00	1.916	189.8	14.12	3.267	29.45	0
1/21/2019 10:15	2.661	169.3	10.73	3.541	29.45	0
1/21/2019 10:30	4.082	148.3	9.94	4.186	29.45	0
1/21/2019 10:45	3.453	153.7	15.59	4.54	29.45	0
1/21/2019 11:00	2.613	179.2	38.12	4.414	29.48	0
1/21/2019 11:15	3.497	203	14.62	4.464	29.48	0
1/21/2019 11:30	3.456	203.6	9.43	4.544	29.48	0
1/21/2019 11:45	3.571	192.2	12.73	4.597	29.48	0
1/21/2019 12:00	4.001	195.6	14.06	4.748	29.49	0
1/21/2019 12:15	3.072	170.7	21.13	4.901	29.49	0
1/21/2019 12:30	2.417	96.1	30.04	5.011	29.49	0
1/21/2019 12:45	0.877	82.8	71.58	5.207	29.49	0
1/21/2019 13:00	1.397	232.3	36.75	5.366	29.49	0
1/21/2019 13:15	2.113	190	18.48	5.347	29.49	0

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1/21/2019 13:30	2.325	180	15.96	5.597	29.49	0
1/21/2019 13:45	4.042	182.9	19.6	5.496	29.49	0
1/21/2019 14:00	3.181	187.4	12.71	5.44	29.51	0
1/21/2019 14:15	2.662	162.2	22.9	5.761	29.51	0
1/21/2019 14:30	2.378	153.4	33.8	5.824	29.51	0
1/21/2019 14:45	2.255	144.5	51.48	6.025	29.51	0
1/21/2019 15:00	2.027	82.2	38.91	5.884	29.52	0
1/21/2019 15:15	3.649	139.3	13.89	6.023	29.52	0
1/21/2019 15:30	0.854	120.1	8.5	6.09	29.52	0
1/21/2019 15:45	2.569	278.7	28.72	5.964	29.52	0
1/21/2019 16:00	3.858	267.6	14.38	5.613	29.53	0
1/21/2019 16:15	3.552	225.2	10.17	5.671	29.53	0
1/21/2019 16:30	3.108	166.4	10.12	5.184	29.53	0
1/21/2019 16:45	3.12	171.3	8.18	4.956	29.53	0
1/21/2019 17:00	3.683	164.2	6.949	4.868	29.54	0
1/21/2019 17:15	4.161	148.2	8.37	4.994	29.54	0
1/21/2019 17:30	3.31	146.5	10.26	4.681	29.54	0
1/21/2019 17:45	3.124	105.2	9.94	4.555	29.54	0
1/21/2019 18:00	3.453	101.8	4.703	4.311	29.54	0
1/21/2019 18:15	2.887	110	0.926	4.04	29.54	0
1/21/2019 18:30	2.58	201.7	34.88	4.033	29.54	0
1/21/2019 18:45	5.28	208.8	6.311	3.502	29.54	0
1/21/2019 19:00	5.026	176.7	16.43	3.174	29.56	0
1/21/2019 19:15	4.742	127.1	16.38	2.783	29.56	0
1/21/2019 19:30	5.309	126.4	6.114	3.081	29.56	0
1/21/2019 19:45	4.667	135.4	14.05	2.797	29.56	0
1/21/2019 20:00	5.29	149	8.56	3.183	29.57	0
1/21/2019 20:15	5.216	162	10.21	3.378	29.57	0
1/21/2019 20:30	5.362	163.3	8.21	3.532	29.57	0
1/21/2019 20:45	5.245	144.5	10.95	3.367	29.57	0
1/21/2019 21:00	6.305	141.1	8.21	3.336	29.56	0
1/21/2019 21:15	7.033	144.5	7.344	3.744	29.56	0
1/21/2019 21:30	6.698	149	7.758	3.919	29.56	0
1/21/2019 21:45	6.564	150.8	8.36	3.962	29.56	0
1/21/2019 22:00	6.666	150.5	7.425	3.91	29.56	0
1/21/2019 22:15	6.451	154.5	17.95	3.75	29.56	0
1/21/2019 22:30	6.381	167.2	25.31	3.824	29.56	0
1/21/2019 22:45	5.823	149.3	6.429	3.866	29.56	0
1/21/2019 23:00	5.007	146.6	6.442	4.025	29.58	0
1/21/2019 23:15	5.773	148.7	5.649	4.106	29.58	0
1/21/2019 23:30	5.641	146.1	9.86	4.268	29.58	0
1/21/2019 23:45	4.64	144.6	15.97	4.295	29.58	0
1/22/2019 0:00	5.458	139.2	7.628	4.549	29.59	0
1/22/2019 0:15	5.718	143	8.9	4.777	29.59	0
1/22/2019 0:30	5.323	152	8.59	4.614	29.59	0
1/22/2019 0:45	5.708	149.4	10.61	4.593	29.59	0
1/22/2019 1:00	5.896	149.5	8.27	4.654	29.58	0
1/22/2019 1:15	6.616	151.9	6.106	4.573	29.58	0
1/22/2019 1:30	6.205	152.8	7.317	4.638	29.58	0
1/22/2019 1:45	7.403	146	7.076	4.893	29.58	0
1/22/2019 2:00	6.184	151.2	8.87	4.815	29.58	0
1/22/2019 2:15	5.959	148.9	6.989	4.712	29.58	0
1/22/2019 2:30	5.506	153	11.01	4.786	29.58	0
1/22/2019 2:45	6.426	149.8	9.49	4.888	29.58	0
1/22/2019 3:00	5.435	143.4	8.55	4.875	29.58	0
1/22/2019 3:15	6.207	149.4	6.498	5.087	29.58	0
1/22/2019 3:30	6.25	146.5	10.46	5.232	29.58	0
1/22/2019 3:45	7.405	145.5	8.37	5.417	29.58	0
1/22/2019 4:00	8.14	153.2	6.616	5.367	29.56	0
1/22/2019 4:15	7.289	153.6	10.35	5.187	29.56	0
1/22/2019 4:30	8.63	141	7.629	5.374	29.56	0
1/22/2019 4:45	7.817	153	8.68	5.335	29.56	0
1/22/2019 5:00	7.619	149.3	8.34	5.297	29.54	0
1/22/2019 5:15	6.859	147.8	8.06	5.367	29.54	0
1/22/2019 5:30	7.376	148.1	7.808	5.734	29.54	0
1/22/2019 5:45	7.362	140.1	7.554	5.874	29.54	0

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1/22/2019 6:00	8.28	145.4	17.76	6.035	29.54	0
1/22/2019 6:15	7.564	151.3	15.67	5.811	29.54	0
1/22/2019 6:30	6.517	138.9	8.91	5.868	29.54	0
1/22/2019 6:45	5.924	146.9	8.54	5.71	29.54	0
1/22/2019 7:00	7.197	155.8	14.41	5.665	29.53	0
1/22/2019 7:15	9.5	181.4	20.09	5.256	29.53	0
1/22/2019 7:30	9.19	156.9	8.28	5.345	29.53	0
1/22/2019 7:45	10.4	159.7	7.594	5.546	29.53	0
1/22/2019 8:00	10.49	163.2	5.285	5.543	29.5	0
1/22/2019 8:15	7.882	157.3	6.451	5.438	29.5	0
1/22/2019 8:30	6.542	151.4	8.08	5.476	29.5	0
1/22/2019 8:45	5.41	140.3	9.13	5.53	29.5	0
1/22/2019 9:00	10.21	139.5	8.53	5.28	29.49	0
1/22/2019 9:15	11.73	136.2	10.82	5.271	29.49	0
1/22/2019 9:30	9.59	141.9	11.12	5.362	29.49	0
1/22/2019 9:45	10.71	138.8	9.79	5.47	29.49	0
1/22/2019 10:00	8.07	146.4	9.35	5.528	29.51	0
1/22/2019 10:15	8.2	166.7	11.27	5.633	29.51	0
1/22/2019 10:30	7.175	162.6	8.71	5.662	29.51	0
1/22/2019 10:45	6.852	168.7	8.41	5.849	29.51	0
1/22/2019 11:00	5.77	171.7	11.69	5.967	29.5	0
1/22/2019 11:15	5.751	164.7	11.11	6.177	29.5	0
1/22/2019 11:30	4.703	187.8	16.14	6.121	29.5	0
1/22/2019 11:45	4.618	193.1	16.41	6.118	29.5	0
1/22/2019 12:00	5.31	161.1	11.49	6.167	29.46	0
1/22/2019 12:15	5.092	152.9	9.32	6.101	29.46	0
1/22/2019 12:30	5.136	131.1	9.94	6.001	29.46	0
1/22/2019 12:45	4.798	130.5	10.42	5.612	29.46	0
1/22/2019 13:00	4.412	137.9	7.519	5.289	29.44	0
1/22/2019 13:15	4.132	127.3	11.09	5.263	29.44	0
1/22/2019 13:30	4.322	112	7.489	5.335	29.44	0
1/22/2019 13:45	4.525	107.2	9.86	5.404	29.44	0
1/22/2019 14:00	3.68	122.4	13.76	5.53	29.43	0
1/22/2019 14:15	4.691	130.2	9.67	5.729	29.43	0
1/22/2019 14:30	4.578	136.5	16.83	5.834	29.43	0
1/22/2019 14:45	4.518	133.1	13.45	5.885	29.43	0
1/22/2019 15:00	5.045	146.9	8.36	5.846	29.41	0
1/22/2019 15:15	5.638	143.8	7.094	5.824	29.41	0
1/22/2019 15:30	6.124	142.8	8.29	5.893	29.41	0
1/22/2019 15:45	7.041	141.4	6.627	6.064	29.41	0
1/22/2019 16:00	6.809	137.6	7.096	6.187	29.35	0
1/22/2019 16:15	7.263	133.2	8.84	6.258	29.35	0
1/22/2019 16:30	7.622	135.9	8.39	6.287	29.35	0
1/22/2019 16:45	7.728	137	7.696	6.299	29.35	0
1/22/2019 17:00	7.818	138.9	8.7	6.409	29.32	0
1/22/2019 17:15	7.004	142.2	7.819	6.399	29.32	0
1/22/2019 17:30	8.01	142	7.066	6.367	29.32	0
1/22/2019 17:45	8.27	139.2	7.98	6.289	29.32	0
1/22/2019 18:00	9.48	141.7	7.231	6.323	29.3	0
1/22/2019 18:15	9.02	139.8	7.629	6.505	29.3	0
1/22/2019 18:30	9.08	147.7	8.35	6.61	29.3	0
1/22/2019 18:45	10.81	152.3	8.56	6.736	29.3	0
1/22/2019 19:00	12.89	154.5	7.735	6.851	29.27	0
1/22/2019 19:15	13.64	154.6	6.465	7.035	29.27	0
1/22/2019 19:30	14.62	154.9	7.024	7.275	29.27	0
1/22/2019 19:45	15.07	159.4	6.761	7.433	29.27	0
1/22/2019 20:00	15.28	157.8	7.308	7.498	29.22	0
1/22/2019 20:15	13.09	152	9.03	7.659	29.22	0
1/22/2019 20:30	8.04	141.8	10.22	7.839	29.22	0
1/22/2019 20:45	8.83	156.8	12.18	8.04	29.22	0
1/22/2019 21:00	10.87	188.6	15.67	8.28	29.22	0
1/22/2019 21:15	8.47	216.1	14.41	7.995	29.22	0
1/22/2019 21:30	10.59	207.6	10.09	7.965	29.22	0
1/22/2019 21:45	9.73	189.9	8.38	7.805	29.22	0
1/22/2019 22:00	10.68	167.8	14.55	7.821	29.2	0
1/22/2019 22:15	7.123	141.4	9.98	7.764	29.2	0

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1/22/2019 22:30	7.449	138.4	13.63	7.878	29.2	0
1/22/2019 22:45	12.64	151.3	9.89	8.08	29.2	0
1/22/2019 23:00	12.55	156.1	9.35	8.09	29.19	0
1/22/2019 23:15	12.97	166.4	10.84	8.2	29.19	0
1/22/2019 23:30	15.27	187.4	9.44	8.33	29.19	0
1/22/2019 23:45	18.45	193.6	8.26	8.46	29.19	0
1/23/2019 0:00	19.9	187.2	9.25	8.55	29.17	0
1/23/2019 0:15	18.6	183.9	8.59	8.6	29.17	0
1/23/2019 0:30	17.63	186.3	8.62	8.69	29.17	0
1/23/2019 0:45	14.67	184.2	9.5	8.68	29.17	0
1/23/2019 1:00	15.7	182.9	10.09	8.73	29.14	0
1/23/2019 1:15	16.19	182.4	9.19	8.82	29.14	0
1/23/2019 1:30	16.86	184.1	10.06	8.87	29.14	0
1/23/2019 1:45	15.08	181.7	9.69	8.92	29.14	0
1/23/2019 2:00	14.43	182.1	9.57	8.96	29.13	0
1/23/2019 2:15	13.6	188.7	10.65	9	29.13	0
1/23/2019 2:30	14.28	191.7	11.07	9.03	29.13	0
1/23/2019 2:45	13.74	197.8	10	9.08	29.13	0
1/23/2019 3:00	13.69	191.4	9.5	9.03	29.14	0
1/23/2019 3:15	16.18	214.5	10.18	9.07	29.14	0
1/23/2019 3:30	18.15	220.9	9.42	9.13	29.14	0
1/23/2019 3:45	18.06	226.4	9.67	9.15	29.14	0
1/23/2019 4:00	14.27	223.7	9.59	9.07	29.18	0
1/23/2019 4:15	14.31	218.2	10.15	9.06	29.18	0
1/23/2019 4:30	15.41	220.7	9.51	9.04	29.18	0
1/23/2019 4:45	17.01	223.9	9.95	9.11	29.18	0
1/23/2019 5:00	13.24	216.2	12.78	9.06	29.19	0
1/23/2019 5:15	8.99	218.9	19.28	8.88	29.19	0
1/23/2019 5:30	8.13	203.7	25.01	8.82	29.19	0
1/23/2019 5:45	9.32	216.1	12.58	8.84	29.19	0
1/23/2019 6:00	8.65	218.2	14.19	8.85	29.21	0
1/23/2019 6:15	8.82	214.2	10.51	8.77	29.21	0
1/23/2019 6:30	10.96	227.6	10.25	8.71	29.21	0
1/23/2019 6:45	9.7	227.2	9	8.61	29.21	0
1/23/2019 7:00	10.02	232.6	9.66	8.6	29.26	0
1/23/2019 7:15	9.58	232.6	8.5	8.56	29.26	0
1/23/2019 7:30	8.4	228.7	10.97	8.51	29.26	0
1/23/2019 7:45	8.57	230.1	8.82	8.4	29.26	0
1/23/2019 8:00	7.547	239.6	8.63	8.19	29.32	0
1/23/2019 8:15	6.149	241.3	8.08	8.14	29.32	0
1/23/2019 8:30	4.98	257.6	14.4	8.16	29.32	0
1/23/2019 8:45	4.924	257.3	14.67	8.21	29.32	0
1/23/2019 9:00	3.223	260.2	15.57	8.2	29.36	0
1/23/2019 9:15	4.188	272.7	12.27	8.2	29.36	0
1/23/2019 9:30	4.02	276.5	8.9	8.2	29.36	0
1/23/2019 9:45	3.217	286.1	12.45	8.16	29.36	0
1/23/2019 10:00	4.789	284.3	8.2	7.938	29.39	0
1/23/2019 10:15	3.499	294.2	17.26	7.544	29.39	0
1/23/2019 10:30	4.416	312	30.86	7.156	29.39	0
1/23/2019 10:45	4.898	328.8	20.43	7.08	29.39	0
1/23/2019 11:00	6.541	19.69	15	6.848	29.46	0
1/23/2019 11:15	6.897	28.03	9.81	6.691	29.46	0
1/23/2019 11:30	4.645	20.79	8.75	6.892	29.46	0
1/23/2019 11:45	4.176	13.33	13.6	7.217	29.46	0
1/23/2019 12:00	2.767	356	18.49	7.445	29.47	0
1/23/2019 12:15	7.588	17.69	16.26	7.186	29.47	0
1/23/2019 12:30	8.64	21.54	7.772	6.979	29.47	0
1/23/2019 12:45	6.215	22.97	9.49	7.08	29.47	0
1/23/2019 13:00	6.478	31.73	8.06	6.881	29.48	0
1/23/2019 13:15	7.077	31.12	7.536	6.665	29.48	0
1/23/2019 13:30	4.725	42.05	8.47	6.593	29.48	0
1/23/2019 13:45	4.142	37.83	9.63	6.652	29.48	0
1/23/2019 14:00	3.927	41.06	8.05	6.645	29.52	0
1/23/2019 14:15	4.691	44.7	7.245	6.662	29.52	0
1/23/2019 14:30	3.981	45.7	10.44	6.654	29.52	0
1/23/2019 14:45	4.721	32.33	11.28	6.647	29.52	0

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1/23/2019 15:00	4.408	49.77	14.33	6.78	29.51	0
1/23/2019 15:15	4.199	44.74	11.15	6.889	29.51	0
1/23/2019 15:30	3.206	50.16	10.14	7.107	29.51	0
1/23/2019 15:45	2.248	42.82	8.31	6.883	29.51	0
1/23/2019 16:00	1.614	47.03	18.92	6.98	29.52	0
1/23/2019 16:15	1.379	56.52	0.669	6.921	29.52	0
1/23/2019 16:30	1.293	25.26	10.32	6.955	29.52	0
1/23/2019 16:45	1.276	40.42	12.16	6.926	29.52	0
1/23/2019 17:00	0.012	21.8	0.007	6.941	29.56	0
1/23/2019 17:15	0.823	210.8	29.64	7.245	29.56	0
1/23/2019 17:30	2.394	158.1	16.62	7.203	29.56	0
1/23/2019 17:45	2.59	149.1	9.95	7.144	29.56	0
1/23/2019 18:00	1.256	173.5	18.6	7.236	29.54	0
1/23/2019 18:15	0.01	196.9	0.007	7.331	29.54	0
1/23/2019 18:30	1.373	270.8	17.69	7.307	29.54	0
1/23/2019 18:45	2.665	281.8	5.504	7.249	29.54	0
1/23/2019 19:00	2.735	285.8	2.75	7.227	29.58	0
1/23/2019 19:15	1.284	280.8	2.91	7.194	29.58	0
1/23/2019 19:30	0.238	280.9	0.008	7.1	29.58	0
1/23/2019 19:45	1.135	50.42	21.94	6.921	29.58	0
1/23/2019 20:00	2.589	15.87	13.72	6.79	29.57	0
1/23/2019 20:15	2.688	12.48	4.44	6.735	29.57	0
1/23/2019 20:30	2.104	17.01	4.752	6.672	29.57	0
1/23/2019 20:45	2.093	27.34	7.202	6.585	29.57	0
1/23/2019 21:00	1.327	20.12	7.999	6.523	29.6	0
1/23/2019 21:15	1.436	31.43	10.1	6.517	29.6	0
1/23/2019 21:30	2.763	36.25	10.97	6.456	29.6	0
1/23/2019 21:45	4.611	27.65	9.54	6.429	29.6	0
1/23/2019 22:00	2.955	22.85	6.844	6.483	29.58	0
1/23/2019 22:15	1.691	16.74	4.597	6.549	29.58	0
1/23/2019 22:30	2.419	302.1	37.82	6.676	29.58	0
1/23/2019 22:45	2.756	270.9	5.454	6.794	29.58	0
1/23/2019 23:00	1.018	292.3	14.08	6.713	29.63	0
1/23/2019 23:15	0	0	0	6.577	29.63	0
1/23/2019 23:30	0	0	0	6.551	29.63	0
1/23/2019 23:45	2.242	287.5	14.66	6.648	29.63	0
1/24/2019 0:00	2.684	297.9	9.06	6.619	29.65	0
1/24/2019 0:15	2.44	296.9	6.937	6.632	29.65	0
1/24/2019 0:30	0.997	325.4	7.87	6.611	29.65	0
1/24/2019 0:45	1.849	157	72.82	6.555	29.65	0
1/24/2019 1:00	4.924	187	9.07	6.522	29.64	0
1/24/2019 1:15	4.364	172	13.22	6.503	29.64	0
1/24/2019 1:30	2.297	206.4	24.83	6.547	29.64	0
1/24/2019 1:45	2.521	186.2	13.38	6.56	29.64	0
1/24/2019 2:00	4.328	249.5	29.13	6.484	29.67	0
1/24/2019 2:15	2.362	299	14.88	6.49	29.67	0
1/24/2019 2:30	1.374	107.8	55.22	6.46	29.67	0
1/24/2019 2:45	1.545	116.5	26.53	6.451	29.67	0
1/24/2019 3:00	3.084	154.7	25.14	6.462	29.63	0
1/24/2019 3:15	4.534	163.5	11.75	6.41	29.63	0
1/24/2019 3:30	3.262	167	21.02	6.331	29.63	0
1/24/2019 3:45	5.053	194.5	18.24	6.302	29.63	0
1/24/2019 4:00	3.944	195.6	14.11	6.262	29.65	0
1/24/2019 4:15	2.603	166.7	9.96	6.105	29.65	0
1/24/2019 4:30	2.14	165.3	12.8	5.941	29.65	0
1/24/2019 4:45	4.644	199.2	9.47	5.876	29.65	0
1/24/2019 5:00	3.333	167.5	14.89	5.953	29.63	0
1/24/2019 5:15	4.304	154	4.859	5.992	29.63	0
1/24/2019 5:30	4.137	197.9	12.1	6.16	29.63	0
1/24/2019 5:45	3.575	222.2	9.46	6.149	29.63	0
1/24/2019 6:00	2.414	231.3	9.48	6.123	29.64	0
1/24/2019 6:15	1.568	152.8	17.87	6.003	29.64	0
1/24/2019 6:30	1.66	153.1	19.6	5.906	29.64	0
1/24/2019 6:45	1.457	198.4	7.727	5.972	29.64	0
1/24/2019 7:00	2.045	186.8	19.29	6.052	29.66	0
1/24/2019 7:15	1.404	161.1	1.652	5.975	29.66	0

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1/24/2019 7:30	1.274	160.9	7.879	5.982	29.66	0
1/24/2019 7:45	1.971	177.9	8.23	6.016	29.66	0
1/24/2019 8:00	2.123	192.5	13	6.051	29.67	0
1/24/2019 8:15	1.394	193.8	6.695	6.036	29.67	0
1/24/2019 8:30	1.168	130.7	30.99	5.948	29.67	0
1/24/2019 8:45	0.972	103	1.68	5.97	29.67	0
1/24/2019 9:00	1.119	154.6	15.3	6.244	29.64	0
1/24/2019 9:15	1.128	183.3	25.56	6.343	29.64	0
1/24/2019 9:30	3.567	193.6	17.23	6.501	29.64	0
1/24/2019 9:45	4.156	177.7	13.78	6.316	29.64	0
1/24/2019 10:00	4.001	185.4	8.8	6.344	29.66	0
1/24/2019 10:15	3.818	208.7	7.394	6.436	29.66	0
1/24/2019 10:30	3.128	209.8	9.32	6.572	29.66	0
1/24/2019 10:45	2.277	232.5	11.12	6.723	29.66	0
1/24/2019 11:00	2.72	267.4	13.46	6.888	29.64	0
1/24/2019 11:15	1.094	296.6	5.221	6.869	29.64	0
1/24/2019 11:30	1.297	286.9	12.03	6.872	29.64	0
1/24/2019 11:45	0.561	281	5.772	7.08	29.64	0
1/24/2019 12:00	3.338	286.1	8.03	6.951	29.65	0
1/24/2019 12:15	4.289	307.4	5.385	6.977	29.65	0
1/24/2019 12:30	4.062	295.7	9.17	7.048	29.65	0
1/24/2019 12:45	5.061	325	6.522	7.046	29.65	0
1/24/2019 13:00	3.67	323.7	8.91	6.893	29.63	0
1/24/2019 13:15	2.79	354.3	24.07	6.871	29.63	0
1/24/2019 13:30	2.703	337.9	18.18	6.84	29.63	0
1/24/2019 13:45	3.618	299.2	9.99	6.889	29.63	0
1/24/2019 14:00	3.768	312.7	7.435	6.878	29.64	0
1/24/2019 14:15	4.693	319.8	7.838	6.839	29.64	0
1/24/2019 14:30	4.485	317.6	10.04	6.819	29.64	0
1/24/2019 14:45	4.659	310	12.57	6.848	29.64	0
1/24/2019 15:00	5.351	328.9	8.17	6.687	29.62	0
1/24/2019 15:15	5.634	322.6	5.635	6.582	29.62	0
1/24/2019 15:30	6.398	320.8	5.565	6.56	29.62	0
1/24/2019 15:45	5.007	307.9	5.426	6.598	29.62	0
1/24/2019 16:00	4.02	322.2	22.34	6.582	29.64	0
1/24/2019 16:15	3.368	5.899	8.13	6.445	29.64	0
1/24/2019 16:30	3.842	21.22	6.662	6.423	29.64	0
1/24/2019 16:45	3.458	29.05	10.47	6.276	29.64	0
1/24/2019 17:00	2.683	43.85	6.072	6.098	29.6	0
1/24/2019 17:15	2.22	33.39	11.3	5.913	29.6	0
1/24/2019 17:30	2.352	36.33	6.318	5.981	29.6	0
1/24/2019 17:45	2.19	30.71	25.94	5.747	29.6	0
1/24/2019 18:00	4.905	331.2	5.427	5.466	29.63	0
1/24/2019 18:15	3.955	325.5	5.018	5.394	29.63	0
1/24/2019 18:30	2.869	346	14.51	5.435	29.63	0
1/24/2019 18:45	3.113	22.37	11.42	5.328	29.63	0
1/24/2019 19:00	4.028	343.2	19.05	5.175	29.62	0
1/24/2019 19:15	3.091	13.96	33.87	5.23	29.62	0
1/24/2019 19:30	3.402	39.79	12.1	5.054	29.62	0
1/24/2019 19:45	3.972	38.54	7.509	5.007	29.62	0
1/24/2019 20:00	3.384	43.99	4.914	4.873	29.6	0
1/24/2019 20:15	3.312	20.67	27.43	4.744	29.6	0
1/24/2019 20:30	4.245	344.2	15.16	4.655	29.6	0
1/24/2019 20:45	3.646	355.7	14.23	4.558	29.6	0
1/24/2019 21:00	3.952	12.03	13.36	4.579	29.61	0
1/24/2019 21:15	5.435	17.23	7.482	4.776	29.61	0
1/24/2019 21:30	5.397	46.68	12.23	4.853	29.61	0
1/24/2019 21:45	6.898	45.2	6.42	4.854	29.61	0
1/24/2019 22:00	4.634	40.76	11.4	4.901	29.61	0
1/24/2019 22:15	5.395	39.47	12.7	4.784	29.61	0
1/24/2019 22:30	5.499	41.7	11.15	4.861	29.61	0
1/24/2019 22:45	6.133	27.89	8.53	4.847	29.61	0
1/24/2019 23:00	5.221	29.27	8.21	4.765	29.61	0
1/24/2019 23:15	4.053	41.55	10.49	4.666	29.61	0
1/24/2019 23:30	4.994	51.85	8.5	4.736	29.61	0
1/24/2019 23:45	6.122	62.24	6.675	4.693	29.61	0

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1/25/2019 0:00	4.74	68.14	18.81	4.382	29.61	0
1/25/2019 0:15	1.786	81.6	9.78	4.405	29.61	0
1/25/2019 0:30	2.03	23.39	16.59	4.605	29.61	0
1/25/2019 0:45	0.107	3.328	0.059	4.475	29.61	0
1/25/2019 1:00	1.056	307.7	30.48	4.578	29.63	0
1/25/2019 1:15	0.717	304.7	4.932	4.631	29.63	0
1/25/2019 1:30	0.625	309.7	4.872	4.695	29.63	0
1/25/2019 1:45	3.497	319.1	7.351	4.303	29.63	0
1/25/2019 2:00	2.635	325.9	0.305	4.197	29.63	0
1/25/2019 2:15	1.585	326.1	0.115	4.275	29.63	0
1/25/2019 2:30	2.746	322.7	3.9	4.382	29.63	0
1/25/2019 2:45	2.89	316.6	6.771	4.575	29.63	0
1/25/2019 3:00	1.848	8.39	11.51	4.189	29.64	0
1/25/2019 3:15	1.28	24.44	10.35	4.364	29.64	0
1/25/2019 3:30	2.84	29.98	3.704	4.681	29.64	0
1/25/2019 3:45	2.805	29.26	19.82	4.25	29.64	0
1/25/2019 4:00	3.842	36.2	6.853	4.22	29.64	0
1/25/2019 4:15	3.977	28.61	11.03	4.181	29.64	0
1/25/2019 4:30	3.696	35.52	9.88	3.975	29.64	0
1/25/2019 4:45	3.396	35.06	7.063	3.946	29.64	0
1/25/2019 5:00	3.38	22.11	5.696	3.819	29.63	0
1/25/2019 5:15	4.808	34.13	10.84	3.779	29.63	0
1/25/2019 5:30	4.943	46.34	7.341	4.215	29.63	0
1/25/2019 5:45	3.845	46.86	8.43	4.341	29.63	0
1/25/2019 6:00	2.812	28.5	19.03	4.387	29.62	0
1/25/2019 6:15	1.82	36.76	28.51	4.843	29.62	0
1/25/2019 6:30	0.947	36.92	8.79	4.405	29.62	0
1/25/2019 6:45	0.945	18.99	23.97	3.857	29.62	0
1/25/2019 7:00	1.612	131.9	3.668	3.558	29.62	0
1/25/2019 7:15	0.455	125.1	0.147	3.776	29.62	0
1/25/2019 7:30	1.77	101.7	15.26	3.233	29.62	0
1/25/2019 7:45	1.117	83	0.18	3.355	29.62	0
1/25/2019 8:00	1.759	91.8	2.672	3.11	29.62	0
1/25/2019 8:15	0.208	52.11	25.65	3.458	29.62	0
1/25/2019 8:30	0.851	34.79	5.255	3.144	29.62	0
1/25/2019 8:45	0.34	27.1	5.414	3.101	29.62	0
1/25/2019 9:00	1.96	4.824	5.987	3.59	29.66	0
1/25/2019 9:15	2.079	5.889	5.171	3.647	29.66	0
1/25/2019 9:30	2.297	10.04	16.66	3.776	29.66	0
1/25/2019 9:45	4.134	343.9	6.524	3.881	29.66	0
1/25/2019 10:00	2.39	327.9	48.42	4.255	29.66	0
1/25/2019 10:15	1.009	53.66	59.66	4.054	29.66	0
1/25/2019 10:30	1.266	15.26	14.05	3.497	29.66	0
1/25/2019 10:45	1.957	2.278	18.05	4.218	29.66	0
1/25/2019 11:00	1.213	50.83	71.04	4.159	29.67	0
1/25/2019 11:15	3.841	169.1	27.97	4.836	29.67	0
1/25/2019 11:30	2.441	61.19	49.78	5.291	29.67	0
1/25/2019 11:45	1.439	27.89	20.28	5.88	29.67	0
1/25/2019 12:00	2.444	250.1	42.09	6.042	29.65	0
1/25/2019 12:15	2.855	328.4	54.9	6.735	29.65	0
1/25/2019 12:30	3.902	31.23	12.08	6.226	29.65	0
1/25/2019 12:45	7.01	22.04	8.62	5.55	29.65	0
1/25/2019 13:00	8.62	17.97	10.15	5.9	29.64	0
1/25/2019 13:15	8.08	31.22	10.65	6.302	29.64	0
1/25/2019 13:30	10.3	13.18	17.36	6.869	29.64	0
1/25/2019 13:45	7.195	8.83	15.62	7.317	29.64	0
1/25/2019 14:00	10.43	7.48	12.7	7.304	29.64	0
1/25/2019 14:15	10.25	10.01	12.08	7.299	29.64	0
1/25/2019 14:30	6.78	15.87	10.58	7.328	29.64	0
1/25/2019 14:45	6.815	20.13	10.54	7.45	29.64	0
1/25/2019 15:00	6.865	21.77	10.47	7.454	29.64	0
1/25/2019 15:15	7.903	17.62	10.97	7.42	29.64	0
1/25/2019 15:30	7.298	8.43	15.54	7.352	29.64	0
1/25/2019 15:45	6.873	7.761	14.67	7.227	29.64	0
1/25/2019 16:00	7.141	2.77	14.79	7.176	29.64	0
1/25/2019 16:15	8.89	13.28	11.39	7.006	29.64	0



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1/25/2019 16:30	8.23	3.699	15.3	6.857	29.64	0
1/25/2019 16:45	8.67	3.362	16.07	6.664	29.64	0
1/25/2019 17:00	7.862	4.489	14.12	6.521	29.66	0
1/25/2019 17:15	6.743	2.473	13.88	6.266	29.66	0
1/25/2019 17:30	7.087	358.6	16.74	6.184	29.66	0
1/25/2019 17:45	6.56	9.91	10.99	6.076	29.66	0
1/25/2019 18:00	4.607	30.83	9.01	5.242	29.66	0
1/25/2019 18:15	6.179	32.93	5.778	4.894	29.66	0
1/25/2019 18:30	7.106	28.85	6.141	4.981	29.66	0
1/25/2019 18:45	6.376	36.15	8.18	4.738	29.66	0
1/25/2019 19:00	5.505	39.78	7	4.483	29.66	0
1/25/2019 19:15	6.335	36.73	7.148	4.749	29.66	0
1/25/2019 19:30	6.174	42.38	5.37	4.623	29.66	0
1/25/2019 19:45	4.896	52.44	6.211	4.529	29.66	0
1/25/2019 20:00	4.373	38.82	11.14	4.463	29.69	0
1/25/2019 20:15	3.535	31.98	7.534	3.823	29.69	0
1/25/2019 20:30	2.942	35.61	4.316	3.631	29.69	0
1/25/2019 20:45	3.486	24.15	7.514	3.72	29.69	0
1/25/2019 21:00	2.905	9.24	8.83	3.515	29.71	0
1/25/2019 21:15	4.018	23.97	7.066	3.553	29.71	0
1/25/2019 21:30	5.333	25.4	8.58	3.342	29.71	0
1/25/2019 21:45	1.469	31.17	5.925	3.055	29.71	0
1/25/2019 22:00	1.357	20.16	9.17	3.003	29.71	0
1/25/2019 22:15	4.953	20.97	11.58	3.106	29.71	0
1/25/2019 22:30	4.304	34.02	7.692	3.344	29.71	0
1/25/2019 22:45	3.468	28.57	5.275	3.149	29.71	0
1/25/2019 23:00	3.305	51.05	13.34	2.829	29.68	0
1/25/2019 23:15	5.229	54.61	8.56	3.31	29.68	0
1/25/2019 23:30	4.23	55.06	7.275	3.103	29.68	0
1/25/2019 23:45	4.38	57.58	7.246	3.247	29.68	0
1/26/2019 0:00	4.406	32.02	12.37	3.187	29.7	0
1/26/2019 0:15	4.157	24.43	6.598	2.922	29.7	0
1/26/2019 0:30	3.543	16.05	8.25	3.15	29.7	0
1/26/2019 0:45	2.887	34.01	8.56	2.905	29.7	0
1/26/2019 1:00	3.55	24.52	11.23	2.295	29.7	0
1/26/2019 1:15	4.185	26.32	10.1	1.922	29.7	0
1/26/2019 1:30	4.277	28.51	10	1.864	29.7	0
1/26/2019 1:45	5.323	31.9	7.535	2.141	29.7	0
1/26/2019 2:00	5.06	42.37	9.39	2.162	29.68	0
1/26/2019 2:15	3.117	35.08	21.96	1.761	29.68	0
1/26/2019 2:30	1.135	83.9	39.94	2.032	29.68	0
1/26/2019 2:45	2.305	145.6	27.92	2.313	29.68	0
1/26/2019 3:00	2.13	95.9	58.36	2.023	29.72	0
1/26/2019 3:15	2.234	27.3	6.721	1.378	29.72	0
1/26/2019 3:30	1.579	35.75	9.4	1.492	29.72	0
1/26/2019 3:45	2.132	36.43	8.89	1.975	29.72	0
1/26/2019 4:00	1.015	27.56	5.615	1.503	29.69	0
1/26/2019 4:15	0.533	47.27	14.82	0.874	29.69	0
1/26/2019 4:30	2.394	48.57	19.54	0.649	29.69	0
1/26/2019 4:45	2.628	3.699	13.03	0.173	29.69	0
1/26/2019 5:00	5.382	31.99	11.84	0.467	29.69	0
1/26/2019 5:15	5.657	27.81	16.04	1.077	29.69	0
1/26/2019 5:30	5.222	31.39	10.39	0.926	29.69	0
1/26/2019 5:45	4.392	21.28	12.13	1.143	29.69	0
1/26/2019 6:00	2.238	36.74	5.569	0.688	29.69	0
1/26/2019 6:15	4.353	39.48	7.662	0.631	29.69	0
1/26/2019 6:30	5.582	46.3	13.52	0.828	29.69	0
1/26/2019 6:45	5.102	47.66	12.92	1.034	29.69	0
1/26/2019 7:00	6.132	39.66	10.26	1.12	29.7	0
1/26/2019 7:15	3.785	20.53	15.05	0.606	29.7	0
1/26/2019 7:30	2.663	30.79	10.85	0.375	29.7	0
1/26/2019 7:45	2.294	22.65	11.44	0.17	29.7	0
1/26/2019 8:00	2.315	23.06	9.79	0.578	29.69	0
1/26/2019 8:15	3.095	25.41	5.799	0.909	29.69	0
1/26/2019 8:30	0.997	30.24	24.89	0.153	29.69	0
1/26/2019 8:45	1.332	42.39	20.29	1.044	29.69	0

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1/26/2019 9:00	1.284	20.27	26.39	1.416	29.69	0
1/26/2019 9:15	1.426	32.64	31.24	1.035	29.69	0
1/26/2019 9:30	0.921	42.2	15.1	1.237	29.69	0
1/26/2019 9:45	1.201	38.67	9.11	1.232	29.69	0
1/26/2019 10:00	0.585	70.28	41.93	2.209	29.7	0
1/26/2019 10:15	1.855	160.9	43.82	3.048	29.7	0
1/26/2019 10:30	1.938	169.6	35.02	3.077	29.7	0
1/26/2019 10:45	1.14	105.4	33.17	3.036	29.7	0
1/26/2019 11:00	1.67	124.5	35.73	3.418	29.7	0
1/26/2019 11:15	1.839	69.54	21.87	3.659	29.7	0
1/26/2019 11:30	5.752	38.28	13.66	2.974	29.7	0
1/26/2019 11:45	2.615	18.67	15.61	3.024	29.7	0
1/26/2019 12:00	1.603	232.4	36.83	4.697	29.67	0
1/26/2019 12:15	3.844	222.4	17.61	5.08	29.67	0
1/26/2019 12:30	3.046	209	29.12	5.936	29.67	0
1/26/2019 12:45	2.672	103.4	74.8	6.402	29.67	0
1/26/2019 13:00	6.368	24.63	13.68	6.507	29.66	0
1/26/2019 13:15	7.796	28.22	9.79	6.519	29.66	0
1/26/2019 13:30	6.27	29.19	11.4	7.154	29.66	0
1/26/2019 13:45	8.71	21.98	11.97	7.223	29.66	0
1/26/2019 14:00	8.81	23.63	11	7.208	29.65	0
1/26/2019 14:15	8.93	25.81	9.57	7.388	29.65	0
1/26/2019 14:30	7.461	26.51	9.31	7.645	29.65	0
1/26/2019 14:45	6.606	19.49	12.22	7.882	29.65	0
1/26/2019 15:00	6.552	30.35	11.21	7.966	29.64	0
1/26/2019 15:15	7.135	28.42	9.06	7.763	29.64	0
1/26/2019 15:30	5.434	31.08	10.53	7.835	29.64	0
1/26/2019 15:45	6.893	26.35	8.46	7.613	29.64	0
1/26/2019 16:00	5.385	32.74	9.47	7.398	29.62	0
1/26/2019 16:15	5.426	25.85	8.72	7.235	29.62	0
1/26/2019 16:30	4.38	22.53	10.89	7.029	29.62	0
1/26/2019 16:45	5.597	32.51	12.22	6.906	29.62	0
1/26/2019 17:00	8.04	25.94	12.92	6.835	29.58	0
1/26/2019 17:15	8.12	28.21	10.4	6.675	29.58	0
1/26/2019 17:30	8.27	18.42	12.84	6.425	29.58	0
1/26/2019 17:45	10.81	28.19	7.931	6.324	29.58	0
1/26/2019 18:00	9.98	19.88	10.1	6.19	29.58	0
1/26/2019 18:15	7.148	16.61	14.71	6.253	29.58	0
1/26/2019 18:30	11.48	28.73	7.926	6.181	29.58	0
1/26/2019 18:45	12.17	30.64	10.1	6.062	29.58	0
1/26/2019 19:00	10.54	35.31	9.22	5.924	29.56	0
1/26/2019 19:15	3.335	23.6	17.83	5.537	29.56	0
1/26/2019 19:30	3.145	25.44	18.76	5.358	29.56	0
1/26/2019 19:45	4.745	25.49	12.48	5.224	29.56	0
1/26/2019 20:00	0.918	53.21	47.07	5.175	29.56	0
1/26/2019 20:15	2.43	98.3	61.33	5.517	29.56	0
1/26/2019 20:30	8.37	31.01	12.68	5.34	29.56	0
1/26/2019 20:45	8.96	41.6	7.449	5.103	29.56	0
1/26/2019 21:00	8.12	34.13	11.73	5.162	29.55	0
1/26/2019 21:15	6.788	44.8	11.51	5.268	29.55	0
1/26/2019 21:30	5.52	17.7	11.35	4.924	29.55	0
1/26/2019 21:45	7.998	23.35	10.05	5.245	29.55	0
1/26/2019 22:00	11.62	30.4	9.17	5.108	29.53	0
1/26/2019 22:15	8.58	35.8	8.09	4.816	29.53	0
1/26/2019 22:30	6.448	29.17	9.28	4.592	29.53	0
1/26/2019 22:45	4.071	18.84	10.64	4.443	29.53	0
1/26/2019 23:00	6.114	21.17	9.12	4.478	29.52	0
1/26/2019 23:15	7.425	35.04	8.63	4.34	29.52	0
1/26/2019 23:30	6.963	27.5	10.92	4.193	29.52	0
1/26/2019 23:45	7.197	30.38	12.11	3.886	29.52	0
1/27/2019 0:00	2.987	14.38	7.948	3.934	29.52	0
1/27/2019 0:15	1.681	352.1	4.107	4.238	29.52	0
1/27/2019 0:30	0.834	45.46	22.28	3.995	29.52	0
1/27/2019 0:45	1.742	64.91	10.32	3.87	29.52	0
1/27/2019 1:00	0.695	64.98	5.591	3.813	29.52	0
1/27/2019 1:15	1.921	23.58	21.75	3.775	29.52	0

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1/27/2019 1:30	2.805	26.83	23.1	2.8	29.52	0
1/27/2019 1:45	2.904	44.95	6.561	2.629	29.52	0
1/27/2019 2:00	2.853	49.03	7.966	2.928	29.52	0
1/27/2019 2:15	3.059	71.85	9.02	3.195	29.52	0
1/27/2019 2:30	2.642	24.6	5.941	3.076	29.52	0
1/27/2019 2:45	2.54	12.83	10.13	2.518	29.52	0
1/27/2019 3:00	3.6	17.22	6.94	2.691	29.51	0
1/27/2019 3:15	4.143	19.73	6.305	2.75	29.51	0
1/27/2019 3:30	3.787	40.96	12.74	2.841	29.51	0
1/27/2019 3:45	5.082	41.78	12.23	2.818	29.51	0
1/27/2019 4:00	3.373	35.5	16.17	2.714	29.51	0
1/27/2019 4:15	3.052	49	17.46	2.196	29.51	0
1/27/2019 4:30	3.418	96.6	7.888	1.617	29.51	0
1/27/2019 4:45	2.629	109.9	37.98	1.674	29.51	0
1/27/2019 5:00	2.797	176	11.18	2.213	29.51	0
1/27/2019 5:15	3.286	199.2	14	2.333	29.51	0
1/27/2019 5:30	4.942	195.5	14.83	1.958	29.51	0
1/27/2019 5:45	4.062	133.1	17.25	1.782	29.51	0
1/27/2019 6:00	5.253	174.2	15.42	1.756	29.49	0
1/27/2019 6:15	5.585	191.7	5.367	1.573	29.49	0
1/27/2019 6:30	3.782	296.9	63.82	1.561	29.49	0
1/27/2019 6:45	6.219	358	13.51	1.688	29.49	0
1/27/2019 7:00	3.335	304.7	22.77	1.707	29.5	0
1/27/2019 7:15	2.675	326.9	24.15	1.741	29.5	0
1/27/2019 7:30	2.899	206.9	35.41	1.917	29.5	0
1/27/2019 7:45	5.553	41.5	32.33	2.272	29.5	0
1/27/2019 8:00	6.988	48.05	14.1	2.378	29.52	0
1/27/2019 8:15	6.319	50.1	14.38	2.296	29.52	0
1/27/2019 8:30	3.492	96.7	27.07	2.131	29.52	0
1/27/2019 8:45	2.421	177.1	44.48	2.095	29.52	0
1/27/2019 9:00	3.97	193.1	12.09	2.03	29.54	0
1/27/2019 9:15	3.648	150.3	11.28	2.1	29.54	0
1/27/2019 9:30	3.05	132.6	7.497	2.116	29.54	0
1/27/2019 9:45	2.098	153.6	34.53	2.3	29.54	0
1/27/2019 10:00	0.411	204.9	25.2	2.335	29.54	0
1/27/2019 10:15	1.003	17.03	23.71	2.503	29.54	0
1/27/2019 10:30	2.126	17.69	13.72	2.608	29.54	0
1/27/2019 10:45	2.541	336.1	7.492	2.723	29.54	0
1/27/2019 11:00	2.223	334.8	21.2	2.909	29.52	0
1/27/2019 11:15	1.272	25	29.31	2.844	29.52	0
1/27/2019 11:30	1.994	53.16	10.63	3.045	29.52	0
1/27/2019 11:45	2.587	25.29	12.25	3.086	29.52	0
1/27/2019 12:00	3.214	18.21	19.13	3.185	29.54	0
1/27/2019 12:15	2.76	32.15	15.4	3.205	29.54	0
1/27/2019 12:30	1.439	330.8	34.64	3.366	29.54	0
1/27/2019 12:45	1.09	344.4	34.47	3.479	29.54	0
1/27/2019 13:00	4.639	28.94	15.43	3.372	29.52	0
1/27/2019 13:15	4.432	35.47	12.22	3.356	29.52	0
1/27/2019 13:30	2.546	50.05	23.54	3.518	29.52	0
1/27/2019 13:45	2.852	50.39	15.9	3.542	29.52	0
1/27/2019 14:00	3.222	31.52	13.63	3.59	29.52	0
1/27/2019 14:15	2.705	50.16	13.91	3.399	29.52	0
1/27/2019 14:30	6.764	34.56	10.35	3.363	29.52	0
1/27/2019 14:45	4.207	32.86	11.83	3.348	29.52	0
1/27/2019 15:00	4.05	32.46	11.18	3.33	29.52	0
1/27/2019 15:15	3.261	35.54	9.51	3.374	29.52	0
1/27/2019 15:30	3.937	90.6	26.07	3.304	29.52	0
1/27/2019 15:45	5.378	36.01	22.13	3.266	29.52	0
1/27/2019 16:00	6.571	31.64	8.66	3.146	29.51	0
1/27/2019 16:15	5.143	37.99	16.22	3.118	29.51	0
1/27/2019 16:30	6.862	23.75	9.79	3.1	29.51	0
1/27/2019 16:45	8.93	29.93	13.57	2.869	29.51	0
1/27/2019 17:00	7.669	23.95	10.76	2.885	29.51	0
1/27/2019 17:15	5.952	34.42	9.58	2.833	29.51	0
1/27/2019 17:30	6.53	33.79	12.61	2.859	29.51	0
1/27/2019 17:45	10.67	26.6	14.96	2.751	29.51	0

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1/27/2019 18:00	10.72	37.86	11.16	2.674	29.51	0
1/27/2019 18:15	8.4	42.16	8.19	2.696	29.51	0
1/27/2019 18:30	6.888	39.64	8.3	2.678	29.51	0
1/27/2019 18:45	5.879	33.84	9.4	2.679	29.51	0
1/27/2019 19:00	7.896	30.48	7.563	2.633	29.51	0
1/27/2019 19:15	7.351	27.48	11.48	2.634	29.51	0
1/27/2019 19:30	7.856	27.44	11.45	2.628	29.51	0
1/27/2019 19:45	9.67	25.15	12.43	2.71	29.51	0
1/27/2019 20:00	8.57	21.03	12.07	2.857	29.51	0
1/27/2019 20:15	6.586	35.7	17.76	2.912	29.51	0
1/27/2019 20:30	4.968	34.13	14.6	2.8	29.51	0
1/27/2019 20:45	10.52	21.86	12.03	3.233	29.51	0
1/27/2019 21:00	11.75	29.37	10.3	3.381	29.51	0
1/27/2019 21:15	11.79	35.11	12.31	3.47	29.51	0
1/27/2019 21:30	9.65	30.13	10.99	3.443	29.51	0
1/27/2019 21:45	10.18	33.46	10.5	3.432	29.51	0
1/27/2019 22:00	8.76	33.58	11.72	3.372	29.52	0
1/27/2019 22:15	7.606	21.05	12.19	3.378	29.52	0
1/27/2019 22:30	8.33	22.55	11.58	3.366	29.52	0
1/27/2019 22:45	8.01	26.33	11.71	3.36	29.52	0
1/27/2019 23:00	10.52	26.52	11	3.357	29.54	0
1/27/2019 23:15	10.01	26.93	8.85	3.301	29.54	0
1/27/2019 23:30	11.01	29.12	9.21	3.237	29.54	0
1/27/2019 23:45	11.54	24.66	11.29	3.14	29.54	0
1/28/2019 0:00	12.21	28.74	9.82	3.045	29.53	0
1/28/2019 0:15	10.01	28.23	9.52	2.989	29.53	0
1/28/2019 0:30	10.76	24.5	10.93	2.909	29.53	0
1/28/2019 0:45	6.359	11.96	8.22	2.841	29.53	0
1/28/2019 1:00	3.187	16.88	23.4	2.796	29.51	0
1/28/2019 1:15	1.871	28.23	20.75	2.862	29.51	0
1/28/2019 1:30	0.802	24.75	7.304	2.75	29.51	0
1/28/2019 1:45	1.846	20.15	22.43	2.634	29.51	0
1/28/2019 2:00	3.978	22.07	18.55	2.531	29.5	0
1/28/2019 2:15	6.97	32.41	12.58	2.438	29.5	0
1/28/2019 2:30	4.273	11.73	11.7	2.002	29.5	0
1/28/2019 2:45	3.82	314.9	47.45	2.183	29.5	0
1/28/2019 3:00	2.057	302.2	52.36	2.248	29.53	0
1/28/2019 3:15	5.43	25.22	12.94	2.368	29.53	0
1/28/2019 3:30	6.567	18.73	9.35	2.054	29.53	0
1/28/2019 3:45	5.157	16.96	14.64	1.909	29.53	0
1/28/2019 4:00	4.743	16.66	12.2	1.807	29.52	0
1/28/2019 4:15	1.282	286.3	54.88	1.48	29.52	0
1/28/2019 4:30	2.152	35.52	17.47	1.368	29.52	0
1/28/2019 4:45	6.516	28.65	10.13	1.498	29.52	0
1/28/2019 5:00	7.89	32.91	9.19	1.544	29.51	0
1/28/2019 5:15	8.06	32.46	9.07	1.492	29.51	0
1/28/2019 5:30	7.741	27.81	9.26	1.369	29.51	0
1/28/2019 5:45	5.445	23.14	10.53	1.201	29.51	0
1/28/2019 6:00	5.079	29.22	11.6	0.988	29.51	0
1/28/2019 6:15	6.991	37.31	7.85	1.055	29.51	0
1/28/2019 6:30	7.228	29.41	7.7	0.839	29.51	0
1/28/2019 6:45	7.698	28.71	7.672	0.821	29.51	0
1/28/2019 7:00	7.183	30.11	7.849	0.771	29.49	0
1/28/2019 7:15	7.223	31.09	9.36	0.761	29.49	0
1/28/2019 7:30	5.594	33.96	10.15	0.529	29.49	0
1/28/2019 7:45	6.082	35.58	10.12	0.389	29.49	0
1/28/2019 8:00	5.823	28.28	11.28	0.312	29.51	0
1/28/2019 8:15	5.826	25.65	10.69	0.305	29.51	0
1/28/2019 8:30	5.557	25.29	12.42	0.316	29.51	0
1/28/2019 8:45	6.108	28.39	6.953	0.633	29.51	0
1/28/2019 9:00	4.403	24.1	15.76	0.591	29.49	0
1/28/2019 9:15	3.769	324	47.96	1.049	29.49	0
1/28/2019 9:30	4.946	319.9	26.51	1.18	29.49	0
1/28/2019 9:45	5.288	315.4	12.45	1.871	29.49	0
1/28/2019 10:00	3.987	312.1	13.09	2.92	29.51	0
1/28/2019 10:15	2.359	318	63.64	3.457	29.51	0

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1/28/2019 10:30	1.341	80.3	57.48	4.28	29.51	0	
1/28/2019 10:45	1.474	25.46	17.07	4.316	29.51	0	
1/28/2019 11:00	3.303	351.8	21.69	4.48	29.49	0	
1/28/2019 11:15	3.26	321.4	20.82	5.264	29.49	0	
1/28/2019 11:30	2.97	290.5	17.03	6.567	29.49	0	
1/28/2019 11:45	2.085	253.4	58.69	7.005	29.49	0	
1/28/2019 12:00	2.867	316.8	14.51	6.737	29.48	0	
1/28/2019 12:15	3.135	335.9	25.08	7.106	29.48	2.07	Weather station was calibrated during this period - readings from 12-1pm can be ignored.
1/28/2019 12:30	2.897	11.28	28.1	7.598	29.48	0.04	
1/28/2019 12:45	2.055	19.98	20.09	7.876	29.48	0.22	
1/28/2019 13:00	2.212	38.18	11.47	7.733	29.44	0.23	
1/28/2019 13:15	1.981	40.44	11.64	7.776	29.44	0	
1/28/2019 13:30	2.267	8.19	16.68	8.4	29.44	0	
1/28/2019 13:45	3.764	354.6	25.47	8.91	29.44	0	
1/28/2019 14:00	2.967	35.57	8.68	8.63	29.43	0	
1/28/2019 14:15	2.499	23.59	9.2	8.9	29.43	0	
1/28/2019 14:30	1.946	39.65	10.35	9.26	29.43	0	
1/28/2019 14:45	3.22	40.49	7.296	9.21	29.43	0	
1/28/2019 15:00	4.508	30.94	10.06	9.22	29.39	0	
1/28/2019 15:15	5.677	20.89	7.807	9.25	29.39	0	
1/28/2019 15:30	6.972	24.25	10.22	9.09	29.39	0	
1/28/2019 15:45	8.93	24.51	7.301	8.79	29.39	0	
1/28/2019 16:00	8.94	25.37	7.632	8.7	29.38	0	
1/28/2019 16:15	9.22	22.53	8.26	8.76	29.38	0	
1/28/2019 16:30	8.2	27.86	11.58	8.57	29.38	0	
1/28/2019 16:45	8.29	32.06	9.97	8.24	29.38	0	
1/28/2019 17:00	8.83	29.64	11.32	7.947	29.37	0	
1/28/2019 17:15	8.6	29.77	11.58	7.702	29.37	0	
1/28/2019 17:30	6.078	34.01	13.62	7.385	29.37	0	
1/28/2019 17:45	8.9	28.51	9.72	7.238	29.37	0	
1/28/2019 18:00	7.904	32.47	9.73	6.73	29.37	0	
1/28/2019 18:15	7.642	31.74	7.056	6.284	29.37	0	
1/28/2019 18:30	8.51	30.41	7.854	6.103	29.37	0	
1/28/2019 18:45	8.28	27.15	8.92	5.854	29.37	0	
1/28/2019 19:00	8	29.15	9.26	5.695	29.37	0	
1/28/2019 19:15	6.276	27.21	10.83	5.443	29.37	0	
1/28/2019 19:30	5.773	18.47	9.65	5.301	29.37	0	
1/28/2019 19:45	6.733	22.69	8.82	5.05	29.37	0	
1/28/2019 20:00	7.014	26.45	11.01	4.907	29.36	0	
1/28/2019 20:15	6.912	29.88	10.61	4.584	29.36	0	
1/28/2019 20:30	6.216	29.23	9.69	4.432	29.36	0	
1/28/2019 20:45	4.86	31.43	9.31	4.309	29.36	0	
1/28/2019 21:00	4.726	27.25	13.41	4.089	29.35	0	
1/28/2019 21:15	5.655	26.45	12.53	4.046	29.35	0	
1/28/2019 21:30	5.459	27.52	15.24	4.136	29.35	0	
1/28/2019 21:45	4.882	24.36	8.66	3.482	29.35	0	
1/28/2019 22:00	4.603	22.81	8.08	3.47	29.33	0	
1/28/2019 22:15	5.43	25.76	7.945	3.492	29.33	0	
1/28/2019 22:30	5.168	22.47	8.97	3.398	29.33	0	
1/28/2019 22:45	4.641	37.29	13.17	3.661	29.33	0	
1/28/2019 23:00	4.569	29.88	12.85	3.393	29.33	0	
1/28/2019 23:15	4.696	35.84	8.93	3.163	29.33	0	
1/28/2019 23:30	4.113	53.19	15.57	3.659	29.33	0	
1/28/2019 23:45	4.063	39.4	17.17	3.791	29.33	0	
1/29/2019 0:00	3.208	40.95	18.48	3.779	29.33	0	
1/29/2019 0:15	3.086	70.87	29.86	4.173	29.33	0	
1/29/2019 0:30	2.979	42.72	19.13	3.986	29.33	0	
1/29/2019 0:45	3.008	35.99	19.31	3.796	29.33	0	
1/29/2019 1:00	3.716	5.381	13.25	4.082	29.31	0	
1/29/2019 1:15	3.833	30.15	12.53	2.418	29.31	0	
1/29/2019 1:30	4.765	23.98	5.413	2.727	29.31	0	
1/29/2019 1:45	5.497	27.63	7.496	2.385	29.31	0	
1/29/2019 2:00	5.088	28.52	6.555	2.573	29.33	0	
1/29/2019 2:15	5.128	28.74	6.926	2.298	29.33	0	
1/29/2019 2:30	3.885	28.63	10.52	3.123	29.33	0	
1/29/2019 2:45	2.832	58.64	24.25	3.367	29.33	0	

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1/29/2019 3:00	3.412	15.44	19.01	3.985	29.31	0
1/29/2019 3:15	4.586	18.25	9.11	3.08	29.31	0
1/29/2019 3:30	5.476	21.73	9.64	2.336	29.31	0
1/29/2019 3:45	5.442	21.62	6.992	2.115	29.31	0
1/29/2019 4:00	5.073	23.9	7.313	2.373	29.31	0
1/29/2019 4:15	5.876	21.88	6.987	2.485	29.31	0
1/29/2019 4:30	5.012	20.13	8.38	2.739	29.31	0
1/29/2019 4:45	3.138	20.34	8.81	2.784	29.31	0
1/29/2019 5:00	4.165	17.15	12.96	2.59	29.29	0
1/29/2019 5:15	4.303	24.68	13.96	2.388	29.29	0
1/29/2019 5:30	4.453	23.97	10.74	2.029	29.29	0
1/29/2019 5:45	4.969	24.36	16.58	1.526	29.29	0
1/29/2019 6:00	4.604	28.33	20.72	1.045	29.31	0
1/29/2019 6:15	7.05	23.51	8.07	0.516	29.31	0
1/29/2019 6:30	6.858	20.11	8.94	1.353	29.31	0
1/29/2019 6:45	6.349	21.78	10.95	1.35	29.31	0
1/29/2019 7:00	6.306	20.18	9.32	2.091	29.3	0
1/29/2019 7:15	4.809	26.12	10.57	2.494	29.3	0
1/29/2019 7:30	4.771	30.53	9.15	2.166	29.3	0
1/29/2019 7:45	5.432	27.57	9.42	1.997	29.3	0
1/29/2019 8:00	5.473	24.18	9.64	1.833	29.32	0
1/29/2019 8:15	4.924	29.27	8.71	2.88	29.32	0
1/29/2019 8:30	4.383	31.01	15.89	3.483	29.32	0
1/29/2019 8:45	3.8	37.88	15.21	3.303	29.32	0
1/29/2019 9:00	3.805	27.43	8.84	3.217	29.32	0
1/29/2019 9:15	4.327	23.46	8.24	3.658	29.32	0
1/29/2019 9:30	2.019	57.74	28.08	4.874	29.32	0
1/29/2019 9:45	1.948	82.8	26.4	6.186	29.32	0
1/29/2019 10:00	1.205	43.63	35.1	6.131	29.32	0
1/29/2019 10:15	3.18	46.74	26.75	5.13	29.32	0
1/29/2019 10:30	3.392	74.19	24.83	6.407	29.32	0
1/29/2019 10:45	3.354	88.3	28.63	7.557	29.32	0
1/29/2019 11:00	2.83	100.7	20.95	8.6	29.3	0
1/29/2019 11:15	5.19	123.5	14.92	9.36	29.3	0
1/29/2019 11:30	3.703	88	24.81	8.81	29.3	0
1/29/2019 11:45	4.199	106.3	20.12	9.84	29.3	0
1/29/2019 12:00	5.939	120.3	18.22	10.62	29.3	0
1/29/2019 12:15	6.177	125.4	17.01	11.12	29.3	0
1/29/2019 12:30	4.247	95	32.81	10.8	29.3	0
1/29/2019 12:45	3.198	54.96	25.14	10.71	29.3	0
1/29/2019 13:00	3.389	41.71	14.06	10.58	29.28	0
1/29/2019 13:15	3.546	32.05	7.077	10.52	29.28	0
1/29/2019 13:30	3.014	29.85	7.954	11.05	29.28	0
1/29/2019 13:45	2.491	37.86	37.95	11.53	29.28	0
1/29/2019 14:00	3.217	44.07	14.15	11.87	29.25	0
1/29/2019 14:15	4.094	47.32	15.95	11.74	29.25	0
1/29/2019 14:30	3.206	35.41	21.31	12.07	29.25	0
1/29/2019 14:45	6.788	125.7	33.04	12.79	29.25	0
1/29/2019 15:00	6.97	131.9	25.88	12.88	29.23	0
1/29/2019 15:15	4.917	106.8	32.87	12.82	29.23	0
1/29/2019 15:30	4.515	107.5	26.29	12.62	29.23	0
1/29/2019 15:45	4.228	116.8	37.2	12.56	29.23	0
1/29/2019 16:00	3.676	155.8	32.27	12.59	29.22	0
1/29/2019 16:15	6.76	152.4	36.43	12.22	29.22	0
1/29/2019 16:30	4.142	155.3	49.35	11.95	29.22	0
1/29/2019 16:45	4.706	172	27.6	11.5	29.22	0
1/29/2019 17:00	6.823	158.8	12.13	11.04	29.23	0
1/29/2019 17:15	6.365	156.2	11.09	10.63	29.23	0
1/29/2019 17:30	6.205	149.2	15.56	10.12	29.23	0
1/29/2019 17:45	5.249	137.2	15.2	9.99	29.23	0
1/29/2019 18:00	6.812	118.8	11.67	9.51	29.23	0
1/29/2019 18:15	7.007	116.7	10.74	8.98	29.23	0
1/29/2019 18:30	7.238	122	9	8.77	29.23	0
1/29/2019 18:45	7.145	119.2	8.21	8.42	29.23	0
1/29/2019 19:00	5.82	127.2	9.34	8.18	29.2	0
1/29/2019 19:15	5.615	136.4	9.07	7.98	29.2	0

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1/29/2019 19:30	4.074	141.9	8.9	7.743	29.2	0
1/29/2019 19:45	4.093	128.4	10.41	7.585	29.2	0
1/29/2019 20:00	5.378	136.4	10.28	7.159	29.22	0
1/29/2019 20:15	5.059	121.2	9.84	6.883	29.22	0
1/29/2019 20:30	4.388	126.2	7.791	6.714	29.22	0
1/29/2019 20:45	5.275	136.2	8.93	6.529	29.22	0
1/29/2019 21:00	6.164	130.9	9.03	6.479	29.2	0
1/29/2019 21:15	6.104	127.8	8.04	6.434	29.2	0
1/29/2019 21:30	3.574	115.7	7.981	6.242	29.2	0
1/29/2019 21:45	2.776	102	9.13	6.074	29.2	0
1/29/2019 22:00	3.236	85.4	10.45	5.792	29.21	0
1/29/2019 22:15	2.381	90	14.79	5.315	29.21	0
1/29/2019 22:30	2.902	95.8	18.12	5.675	29.21	0
1/29/2019 22:45	2.003	89.3	18.92	5.506	29.21	0
1/29/2019 23:00	2.41	117.3	8.09	5.999	29.21	0
1/29/2019 23:15	2.347	106.9	12.25	5.327	29.21	0
1/29/2019 23:30	1.796	66.39	13.29	4.854	29.21	0
1/29/2019 23:45	0.269	57.59	27.57	4.946	29.21	0
1/30/2019 0:00	0.561	88.5	12.65	5.249	29.21	0
1/30/2019 0:15	2.135	111.3	19.17	5.764	29.21	0
1/30/2019 0:30	3.272	140	8.04	5.823	29.21	0
1/30/2019 0:45	2.487	149.2	14.97	5.587	29.21	0
1/30/2019 1:00	2.268	127.4	9.84	5.408	29.18	0
1/30/2019 1:15	2.336	103.8	15.22	5.199	29.18	0
1/30/2019 1:30	1.763	81.6	28.59	5.096	29.18	0
1/30/2019 1:45	1.167	36.36	0.5	4.992	29.18	0
1/30/2019 2:00	0.502	29.28	1.372	4.56	29.18	0
1/30/2019 2:15	0.867	25.59	8.82	4.622	29.18	0
1/30/2019 2:30	0.631	342	72.67	5.208	29.18	0
1/30/2019 2:45	0.229	181.5	0.08	5.075	29.18	0
1/30/2019 3:00	1.13	62.94	6.154	4.679	29.19	0
1/30/2019 3:15	1.59	80.8	11.07	5.126	29.19	0
1/30/2019 3:30	1.262	52.41	10.52	5.396	29.19	0
1/30/2019 3:45	1.002	15.4	11.36	4.148	29.19	0
1/30/2019 4:00	1.72	336	7.123	4.877	29.17	0
1/30/2019 4:15	0.447	339.2	9.42	4.836	29.17	0
1/30/2019 4:30	1.134	6.323	0.052	4.59	29.17	0
1/30/2019 4:45	0.858	358.8	16.88	4.047	29.17	0
1/30/2019 5:00	2.334	295.5	8.67	5.361	29.18	0
1/30/2019 5:15	1.455	306.7	7.299	4.971	29.18	0
1/30/2019 5:30	1.499	359	26.85	3.565	29.18	0
1/30/2019 5:45	2.371	53.78	12.89	3.665	29.18	0
1/30/2019 6:00	2.343	78.05	5.433	3.953	29.18	0
1/30/2019 6:15	2.429	39.81	10.35	4.133	29.18	0
1/30/2019 6:30	1.334	41.59	2.255	4.023	29.18	0
1/30/2019 6:45	0.789	78.74	48.13	4.553	29.18	0
1/30/2019 7:00	1.701	175.6	16.59	5.201	29.15	0
1/30/2019 7:15	2.331	55.8	31.16	3.758	29.15	0
1/30/2019 7:30	0.452	47.04	0.484	3.571	29.15	0
1/30/2019 7:45	1.797	40.8	3.178	3.881	29.15	0
1/30/2019 8:00	1.42	33.19	0.455	3.639	29.17	0
1/30/2019 8:15	0.952	38.01	0.286	3.726	29.17	0
1/30/2019 8:30	0.584	120.8	24.61	3.982	29.17	0
1/30/2019 8:45	2.227	126.6	5.751	4.521	29.17	0
1/30/2019 9:00	2.267	117.2	8.42	5.54	29.17	0
1/30/2019 9:15	1.723	131.7	10.83	6.057	29.17	0
1/30/2019 9:30	0.897	109.1	16.78	6.612	29.17	0
1/30/2019 9:45	1.009	54.43	29.34	5.381	29.17	0
1/30/2019 10:00	0.607	41.24	6.885	4.271	29.19	0
1/30/2019 10:15	0.979	73.98	12.31	5.255	29.19	0
1/30/2019 10:30	1.894	95.1	18.2	5.861	29.19	0
1/30/2019 10:45	1.724	55.16	13.75	6.561	29.19	0
1/30/2019 11:00	1.926	33.97	20.45	7.082	29.16	0
1/30/2019 11:15	1.952	11.49	8.07	6.738	29.16	0
1/30/2019 11:30	2.575	24.1	8.92	6.93	29.16	0
1/30/2019 11:45	2.243	27.2	17.94	7.82	29.16	0

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1/30/2019 12:00	3.798	29.37	6.291	7.121	29.15	0
1/30/2019 12:15	4.353	28.82	7.603	6.881	29.15	0
1/30/2019 12:30	4.948	27.61	6.247	6.835	29.15	0
1/30/2019 12:45	3.687	31.71	6.794	6.863	29.15	0
1/30/2019 13:00	2.707	31.74	6.952	7.172	29.13	0
1/30/2019 13:15	1.573	35.84	6.948	7.679	29.13	0
1/30/2019 13:30	0.837	3.721	65.89	8.23	29.13	0
1/30/2019 13:45	3.481	274.4	22.75	8.56	29.13	0
1/30/2019 14:00	2.168	359.2	47.9	8.34	29.12	0
1/30/2019 14:15	3.37	29.19	4.867	7.887	29.12	0
1/30/2019 14:30	3.792	28.08	7.084	7.816	29.12	0
1/30/2019 14:45	3.032	31.97	5.674	7.958	29.12	0
1/30/2019 15:00	1.312	31.36	8.6	8.23	29.12	0
1/30/2019 15:15	1.037	16.77	5.164	8.39	29.12	0
1/30/2019 15:30	2.303	40.12	5.35	8.18	29.12	0
1/30/2019 15:45	1.464	26.75	0.6	8.11	29.12	0
1/30/2019 16:00	1.622	28.75	0.495	7.97	29.11	0
1/30/2019 16:15	2.261	33.3	3.898	7.752	29.11	0
1/30/2019 16:30	2.564	26.77	2.975	7.496	29.11	0
1/30/2019 16:45	2.248	19.85	4.328	7.478	29.11	0
1/30/2019 17:00	3.226	15.3	3.647	7.29	29.12	0
1/30/2019 17:15	2.717	23.94	3.385	7.23	29.12	0
1/30/2019 17:30	2.796	31	4.667	7.058	29.12	0
1/30/2019 17:45	2.138	25.48	3.004	6.901	29.12	0
1/30/2019 18:00	3.791	11.08	5.892	6.841	29.08	0
1/30/2019 18:15	4.52	9.63	3.238	6.926	29.08	0
1/30/2019 18:30	4.287	31.44	9.11	6.715	29.08	0
1/30/2019 18:45	2.212	43.3	3.587	6.319	29.08	0
1/30/2019 19:00	0.494	24.74	5.128	6.29	29.1	0
1/30/2019 19:15	0.966	356.1	3.699	6.521	29.1	0
1/30/2019 19:30	2.01	34.55	9.03	6.572	29.1	0
1/30/2019 19:45	2.833	22.18	9.6	6.28	29.1	0
1/30/2019 20:00	3.572	26.1	8.31	6.105	29.1	0
1/30/2019 20:15	4.422	18.39	7.502	5.995	29.1	0
1/30/2019 20:30	4.078	33.74	5.155	5.685	29.1	0
1/30/2019 20:45	4.951	28.1	9.86	5.572	29.1	0
1/30/2019 21:00	4.656	15.75	6.5	5.537	29.1	0
1/30/2019 21:15	5.007	19.06	6.748	5.455	29.1	0
1/30/2019 21:30	5.534	24.57	7.87	5.246	29.1	0
1/30/2019 21:45	5.586	38.85	8.86	4.715	29.1	0
1/30/2019 22:00	4.321	30.83	9.99	4.765	29.1	0
1/30/2019 22:15	4.143	27.24	8.46	5.143	29.1	0
1/30/2019 22:30	2.701	34.5	6.005	5.384	29.1	0
1/30/2019 22:45	0.955	18.97	8.8	5.359	29.1	0
1/30/2019 23:00	0.573	44.88	17.92	5.63	29.1	0
1/30/2019 23:15	0.047	62.27	0.014	5.803	29.1	0
1/30/2019 23:30	0.014	62.09	0.003	5.599	29.1	0
1/30/2019 23:45	0.177	62.21	0.033	5.723	29.1	0
1/31/2019 0:00	0.13	62.22	0.054	5.84	29.09	0
1/31/2019 0:15	3.089	335.7	10.49	5.045	29.09	0
1/31/2019 0:30	2.469	23.44	23.29	4.863	29.09	0
1/31/2019 0:45	2.859	327.7	21.19	5.056	29.09	0
1/31/2019 1:00	1.949	1.134	26.57	5.499	29.09	0
1/31/2019 1:15	2.18	38.18	12.5	4.019	29.09	0
1/31/2019 1:30	2.685	11.87	7.924	4.116	29.09	0
1/31/2019 1:45	2.492	31.88	13.89	4.411	29.09	0
1/31/2019 2:00	2.211	74.75	15.8	4.373	29.08	0
1/31/2019 2:15	1.265	96.3	0.148	5.144	29.08	0
1/31/2019 2:30	2.67	157.5	27.23	6.235	29.08	0
1/31/2019 2:45	4.671	164.3	5.695	6.129	29.08	0
1/31/2019 3:00	5.458	152.2	7.541	5.973	29.06	0
1/31/2019 3:15	5.464	132.3	7.935	5.98	29.06	0
1/31/2019 3:30	4.915	157.4	12.57	6.129	29.06	0
1/31/2019 3:45	5.647	173.4	9.61	6.264	29.06	0
1/31/2019 4:00	6.394	180.8	5.489	6.029	29.04	0
1/31/2019 4:15	3.569	163.6	14.61	6.194	29.04	0



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1/31/2019 4:30	2.437	123.3	29.36	6.179	29.04	0
1/31/2019 4:45	2.48	57.16	10.31	5.647	29.04	0
1/31/2019 5:00	1.155	35.34	2.879	4.164	29.04	0
1/31/2019 5:15	3.785	13.23	13.56	4.937	29.04	0
1/31/2019 5:30	4.057	22.22	7.281	3.428	29.04	0
1/31/2019 5:45	3.603	32.37	3.868	3.481	29.04	0
1/31/2019 6:00	2.831	25.44	4.409	3.692	29.04	0
1/31/2019 6:15	3.538	22.5	19.23	3.705	29.04	0
1/31/2019 6:30	3.046	0.886	13.95	4.118	29.04	0
1/31/2019 6:45	1.583	49.89	49.04	4.407	29.04	0
1/31/2019 7:00	3.228	138.4	16.39	4.309	29.03	0
1/31/2019 7:15	3.579	173	4.743	4.125	29.03	0
1/31/2019 7:30	3.565	165.1	4.601	3.974	29.03	0
1/31/2019 7:45	5.246	167.3	5.68	3.717	29.03	0
1/31/2019 8:00	5.594	159.5	6.891	3.997	29.03	0
1/31/2019 8:15	1.534	119.3	30.28	4.374	29.03	0
1/31/2019 8:30	1.191	68.87	33.55	5.074	29.03	0
1/31/2019 8:45	4.458	159	9.39	5.652	29.03	0
1/31/2019 9:00	5.368	185.6	12.35	5.965	29.05	0
1/31/2019 9:15	5.031	181.8	14.71	6.274	29.05	0
1/31/2019 9:30	5.712	184.4	10.61	6.482	29.05	0
1/31/2019 9:45	5.953	182	9.33	7.116	29.05	0
1/31/2019 10:00	5.817	194.8	8.39	7.027	29.04	0
1/31/2019 10:15	5.583	193.5	13.12	7.321	29.04	0
1/31/2019 10:30	4.832	205.1	12.65	7.888	29.04	0
1/31/2019 10:45	4.803	194.5	12.83	8.64	29.04	0
1/31/2019 11:00	4.474	191.9	9.45	9.12	29.05	0
1/31/2019 11:15	4.048	203.2	14.79	9.88	29.05	0
1/31/2019 11:30	1.677	138	48.95	11.39	29.05	0
1/31/2019 11:45	7.484	176.7	24.31	11.48	29.05	0
1/31/2019 12:00	6.804	196.2	15.44	11.66	29	0
1/31/2019 12:15	5.264	210.9	14.1	12.04	29	0
1/31/2019 12:30	5.403	212.3	13.22	12.43	29	0
1/31/2019 12:45	6.381	215.7	23.51	12.78	29	0
1/31/2019 13:00	4.59	241.2	17.01	12.89	28.99	0
1/31/2019 13:15	5.018	238.4	27.04	12.8	28.99	0
1/31/2019 13:30	3.902	226.2	24.16	12.97	28.99	0
1/31/2019 13:45	5.544	215.4	24.69	12.97	28.99	0
1/31/2019 14:00	9	238.5	11.65	12.6	28.98	0
1/31/2019 14:15	6.498	228	12.91	12.51	28.98	0
1/31/2019 14:30	5.092	210.3	12.52	12.53	28.98	0
1/31/2019 14:45	5.594	187.2	18.51	12.72	28.98	0
1/31/2019 15:00	4.435	171.9	18.35	13.09	28.96	0
1/31/2019 15:15	5.391	191.1	13.23	13.09	28.96	0
1/31/2019 15:30	7.222	196.7	8.13	12.71	28.96	0
1/31/2019 15:45	7.284	217.6	9.09	12.3	28.96	0
1/31/2019 16:00	6.222	222.2	11.41	12.17	28.94	0
1/31/2019 16:15	4.114	174.1	13.82	11.97	28.94	0
1/31/2019 16:30	3.444	210.1	23.69	11.91	28.94	0
1/31/2019 16:45	3.725	226.4	5.728	11.77	28.94	0
1/31/2019 17:00	4.862	236.1	3.875	11.56	28.95	0
1/31/2019 17:15	4.801	245	6.186	11.47	28.95	0
1/31/2019 17:30	3.044	256.5	7.672	11.38	28.95	0
1/31/2019 17:45	3.067	262.2	8.86	11.28	28.95	0
1/31/2019 18:00	2.147	229.7	40.43	11.26	28.92	0
1/31/2019 18:15	1.123	103.8	24.06	10.96	28.92	0
1/31/2019 18:30	2.322	122	21.41	11.07	28.92	0
1/31/2019 18:45	3.097	167.5	20.4	10.89	28.92	0
1/31/2019 19:00	3.873	148	7.177	10.86	28.91	0
1/31/2019 19:15	3.17	147.4	7.796	10.59	28.91	0
1/31/2019 19:30	3.426	141.1	20.89	10.84	28.91	0
1/31/2019 19:45	2.28	118.6	9.45	10.8	28.91	0
1/31/2019 20:00	3.476	156.7	14.78	10.7	28.9	0
1/31/2019 20:15	6.658	184.9	16.64	9.66	28.9	0
1/31/2019 20:30	7.156	144.3	7.42	9.83	28.9	0
1/31/2019 20:45	4.546	136.4	7.351	9.94	28.9	0

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1/31/2019 21:00	3.108	141.2	9.29	10.04	28.89	0
1/31/2019 21:15	3.977	162.4	9.78	10.08	28.89	0
1/31/2019 21:30	3.411	172.4	10.29	9.82	28.89	0
1/31/2019 21:45	2.852	168.9	14.23	9.93	28.89	0
1/31/2019 22:00	2.587	192.3	14.12	9.67	28.87	0
1/31/2019 22:15	2.791	229.7	10.09	9.3	28.87	0
1/31/2019 22:30	4.605	227.2	4.846	8.88	28.87	0
1/31/2019 22:45	4.492	236.7	7.496	8.89	28.87	0
1/31/2019 23:00	5.649	241.1	11.26	9.23	28.88	0
1/31/2019 23:15	3.67	323.1	82.3	9.18	28.88	0
1/31/2019 23:30	1.929	53.16	7.351	8.56	28.88	0
1/31/2019 23:45	1.349	295.3	58.11	8.93	28.88	0
2/1/2019 0:00	4.999	265.2	8.59	8.63	28.86	0
2/1/2019 0:15	4.247	238.1	8.31	8.83	28.86	0
2/1/2019 0:30	5.248	224.1	14.43	8.76	28.86	0
2/1/2019 0:45	3.093	122.7	24.85	8.32	28.86	0
2/1/2019 1:00	3.891	99.5	12.84	8.34	28.85	0
2/1/2019 1:15	2.321	87.9	7.774	8.71	28.85	0
2/1/2019 1:30	1.682	88.8	3.734	8.86	28.85	0
2/1/2019 1:45	1.612	85.1	0.295	8.72	28.85	0
2/1/2019 2:00	0.348	75.38	11.27	8.64	28.85	0
2/1/2019 2:15	0.318	49.23	2.953	8.45	28.85	0
2/1/2019 2:30	2.013	289.9	39.58	8.47	28.85	0
2/1/2019 2:45	1.381	291.8	39.05	8.39	28.85	0
2/1/2019 3:00	1.955	166.3	21.64	8.19	28.84	0
2/1/2019 3:15	2.812	210.3	29.72	8.06	28.84	0
2/1/2019 3:30	1.548	229.2	68.19	8.17	28.84	0
2/1/2019 3:45	2.402	107.6	34.06	8.05	28.84	0
2/1/2019 4:00	2.945	184.3	68.5	8.23	28.83	0
2/1/2019 4:15	4.868	254.8	22.18	7.758	28.83	0
2/1/2019 4:30	4.191	260.4	43.63	7.668	28.83	0
2/1/2019 4:45	4.863	73.36	41.87	7.11	28.83	0
2/1/2019 5:00	3.657	50.57	7.873	7.489	28.81	0
2/1/2019 5:15	2.54	62.23	22.96	7.782	28.81	0
2/1/2019 5:30	4.114	110	41.5	6.765	28.81	0.01
2/1/2019 5:45	1.687	114.8	29.09	7.387	28.81	0
2/1/2019 6:00	4.096	298	21.52	7.245	28.79	0
2/1/2019 6:15	5.191	355.5	21.89	6.912	28.79	0.01
2/1/2019 6:30	4.001	336.7	46.81	6.361	28.79	0.01
2/1/2019 6:45	9.24	271.9	15.86	5.601	28.79	0.02
2/1/2019 7:00	8.47	315.5	10.51	5.548	28.8	0.02
2/1/2019 7:15	8.62	321.1	4.897	5.567	28.8	0.02
2/1/2019 7:30	7.076	338.6	16.47	5.54	28.8	0.01
2/1/2019 7:45	3.236	26.89	18.15	5.357	28.8	0.02
2/1/2019 8:00	1.93	19.65	9.33	5.157	28.82	0.01
2/1/2019 8:15	1.212	41.84	5.478	5.306	28.82	0.01
2/1/2019 8:30	1.911	29.68	17.31	5.289	28.82	0.03
2/1/2019 8:45	2.636	84.5	19.27	5.265	28.82	0.02
2/1/2019 9:00	2.949	134.9	27.91	5.394	28.82	0.01
2/1/2019 9:15	5.419	181.6	17.2	5.748	28.82	0.02
2/1/2019 9:30	2.834	133.5	17.29	5.732	28.82	0.01
2/1/2019 9:45	3.488	118.9	14.5	5.692	28.82	0.01
2/1/2019 10:00	5.075	117.7	12.27	6.044	28.79	0.01
2/1/2019 10:15	6.028	137.7	9.7	6.953	28.79	0.01
2/1/2019 10:30	6.904	140.3	8.62	7.434	28.79	0.02
2/1/2019 10:45	6.94	134.9	8.89	7.758	28.79	0.01
2/1/2019 11:00	9.06	135.6	8.42	8.36	28.79	0.01
2/1/2019 11:15	9.38	133	7.635	8.67	28.79	0.01
2/1/2019 11:30	9.02	137.5	7.968	8.84	28.79	0.01
2/1/2019 11:45	8.49	136.2	7.597	9	28.79	0.02
2/1/2019 12:00	8.45	137.2	8.95	9.14	28.77	0.01
2/1/2019 12:15	7.874	143.9	6.389	9.34	28.77	0.01
2/1/2019 12:30	8.04	145.2	9.2	9.47	28.77	0.01
2/1/2019 12:45	8.73	146.8	7.63	9.63	28.77	0.01
2/1/2019 13:00	9.98	146.6	7.783	9.63	28.78	0
2/1/2019 13:15	10.49	156.7	8.77	9.54	28.78	0.01

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2/1/2019 13:30	8.48	150.5	9.06	9.45	28.78	0
2/1/2019 13:45	8	141.8	8.44	9.51	28.78	0.01
2/1/2019 14:00	8.03	142.3	7.842	9.61	28.78	0
2/1/2019 14:15	7.251	140.6	7.971	9.61	28.78	0
2/1/2019 14:30	7.983	155	15.4	9.6	28.78	0.02
2/1/2019 14:45	10.51	187.2	14.2	9.75	28.78	0.01
2/1/2019 15:00	12.39	202.2	9.75	9.66	28.79	0.01
2/1/2019 15:15	11.41	202	9.65	9.39	28.79	0.02
2/1/2019 15:30	10.18	208.3	8.85	9.25	28.79	0.01
2/1/2019 15:45	7.652	201	11.86	9.15	28.79	0
2/1/2019 16:00	6.929	182.9	11.63	9.08	28.79	0
2/1/2019 16:15	8.08	187.5	12.8	9.09	28.79	0.01
2/1/2019 16:30	9.04	184.1	11.64	9.11	28.79	0.01
2/1/2019 16:45	10.1	191.1	10.72	9	28.79	0.02
2/1/2019 17:00	8.5	206.8	11.17	9.01	28.79	0
2/1/2019 17:15	7.945	205.6	9.3	8.94	28.79	0.01
2/1/2019 17:30	5.678	195.6	9.66	8.8	28.79	0.02
2/1/2019 17:45	4.09	178.6	14.89	8.66	28.79	0.01
2/1/2019 18:00	4.99	191.6	15.53	8.72	28.78	0.02
2/1/2019 18:15	5.296	201.2	18.31	8.71	28.78	0.01
2/1/2019 18:30	6.374	210.6	10.35	8.68	28.78	0.01
2/1/2019 18:45	7.014	206.1	11.25	8.67	28.78	0.01
2/1/2019 19:00	7.432	200.8	11.79	8.62	28.8	0.02
2/1/2019 19:15	7.708	207.8	9.67	8.56	28.8	0
2/1/2019 19:30	7.617	203.6	7.592	8.45	28.8	0.01
2/1/2019 19:45	7.454	197.9	9.74	8.37	28.8	0.01
2/1/2019 20:00	9.02	192.3	9.92	8.31	28.81	0.01
2/1/2019 20:15	7.625	188.6	9.09	8.21	28.81	0
2/1/2019 20:30	8.44	195.2	9.98	8.17	28.81	0.01
2/1/2019 20:45	7.256	220.9	15.26	8.14	28.81	0.01
2/1/2019 21:00	10.1	228	12.06	8.12	28.82	0.01
2/1/2019 21:15	10.19	230.5	10.07	7.953	28.82	0
2/1/2019 21:30	9.22	230.7	10.22	7.719	28.82	0.01
2/1/2019 21:45	8.97	227.2	8.83	7.537	28.82	0
2/1/2019 22:00	6.864	227.8	9.72	7.408	28.83	0.01
2/1/2019 22:15	5.314	211	10.34	7.378	28.83	0
2/1/2019 22:30	3.244	168.8	24.26	7.344	28.83	0
2/1/2019 22:45	3.507	152.3	20.73	7.276	28.83	0
2/1/2019 23:00	5.093	168.4	13.37	7.381	28.85	0.01
2/1/2019 23:15	4.365	145.9	16.78	7.21	28.85	0
2/1/2019 23:30	5.46	149.2	12.03	7.256	28.85	0
2/1/2019 23:45	6.558	171.9	13.28	7.332	28.85	0
2/2/2019 0:00	6.12	178.3	9.94	7.313	28.84	0
2/2/2019 0:15	5.379	182.5	10.49	7.332	28.84	0
2/2/2019 0:30	7.148	173.8	12.43	7.39	28.84	0
2/2/2019 0:45	7.745	169	8.79	7.391	28.84	0
2/2/2019 1:00	8.92	153.6	6.534	7.186	28.86	0
2/2/2019 1:15	7.857	148.6	8.57	7.075	28.86	0
2/2/2019 1:30	8.18	158.1	8.1	7.033	28.86	0
2/2/2019 1:45	9.48	174.6	6.587	7.003	28.86	0
2/2/2019 2:00	8.87	171.7	7.963	6.875	28.82	0
2/2/2019 2:15	7.157	157.5	15.12	6.817	28.82	0
2/2/2019 2:30	7.489	147.4	8.33	6.776	28.82	0
2/2/2019 2:45	7.333	164.8	13.82	6.829	28.82	0
2/2/2019 3:00	5.83	183.7	7.322	6.928	28.86	0
2/2/2019 3:15	6.621	178.3	7.656	6.893	28.86	0
2/2/2019 3:30	5.727	193	11.4	6.898	28.86	0
2/2/2019 3:45	6.213	208	8.11	6.9	28.86	0
2/2/2019 4:00	3.499	176.8	7.306	6.794	28.85	0
2/2/2019 4:15	1.464	172.5	10.89	6.726	28.85	0
2/2/2019 4:30	2.034	159.1	16.96	6.769	28.85	0
2/2/2019 4:45	5.046	174.3	9.11	6.739	28.85	0
2/2/2019 5:00	5.233	180.4	8.22	6.649	28.86	0
2/2/2019 5:15	7.374	167.6	8.89	6.59	28.86	0
2/2/2019 5:30	6.831	146	9.22	6.448	28.86	0
2/2/2019 5:45	6.644	145.2	7.678	6.426	28.86	0

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2/2/2019 6:00	5.01	146.5	10.41	6.4	28.84	0
2/2/2019 6:15	4.499	144.8	10.56	6.339	28.84	0
2/2/2019 6:30	3.98	166.1	9.89	6.476	28.84	0
2/2/2019 6:45	3.755	169.1	10.91	6.385	28.84	0
2/2/2019 7:00	5.36	148.3	9.27	6.267	28.82	0
2/2/2019 7:15	3.052	162.3	7.985	6.254	28.82	0
2/2/2019 7:30	1.211	145.5	11.77	6.176	28.82	0.01
2/2/2019 7:45	0.295	92.9	9.38	6.124	28.82	0
2/2/2019 8:00	1.251	91	2.501	6.197	28.85	0
2/2/2019 8:15	2.423	122.4	10.63	6.116	28.85	0
2/2/2019 8:30	0.895	166.8	19.43	6.154	28.85	0
2/2/2019 8:45	1.092	124.6	15.63	6.334	28.85	0
2/2/2019 9:00	0.651	83.2	3.343	6.47	28.83	0
2/2/2019 9:15	1.092	143.3	37.59	6.748	28.83	0
2/2/2019 9:30	2.215	207.2	18.51	6.674	28.83	0
2/2/2019 9:45	2.294	189.6	10.63	6.854	28.83	0
2/2/2019 10:00	1.785	216.1	18.06	7.167	28.83	0
2/2/2019 10:15	4.301	201.4	9.99	7.055	28.83	0
2/2/2019 10:30	4.047	198.5	8.67	7.132	28.83	0
2/2/2019 10:45	4.661	195.5	8.3	7.221	28.83	0
2/2/2019 11:00	4.317	204.2	8.16	7.308	28.81	0
2/2/2019 11:15	3.698	211.2	12.59	7.538	28.81	0
2/2/2019 11:30	4.276	203.6	18.08	7.745	28.81	0
2/2/2019 11:45	2.304	212.9	21.82	7.901	28.81	0
2/2/2019 12:00	3.748	229.3	19.08	7.791	28.79	0
2/2/2019 12:15	2.468	240.1	21.08	7.799	28.79	0
2/2/2019 12:30	3.965	247.7	13.37	7.691	28.79	0
2/2/2019 12:45	4.234	265.1	21.74	7.735	28.79	0
2/2/2019 13:00	4.522	277.5	10.73	7.677	28.77	0
2/2/2019 13:15	4.942	281.2	15.81	7.594	28.77	0
2/2/2019 13:30	5.804	272.6	6.888	7.312	28.77	0
2/2/2019 13:45	6.715	270.2	13.9	7.315	28.77	0
2/2/2019 14:00	6.798	282.8	6.268	7.253	28.75	0
2/2/2019 14:15	4.935	285.9	8.55	7.45	28.75	0
2/2/2019 14:30	4.09	287.1	12.36	7.624	28.75	0
2/2/2019 14:45	4.714	312.2	5.914	7.646	28.75	0
2/2/2019 15:00	4.661	324.5	7.336	7.245	28.72	0
2/2/2019 15:15	4.594	325.8	7.252	7.178	28.72	0
2/2/2019 15:30	4.884	324.5	6.706	7.222	28.72	0
2/2/2019 15:45	3.96	356.5	24.15	7.241	28.72	0
2/2/2019 16:00	3.573	6.74	22.41	6.801	28.71	0
2/2/2019 16:15	2.569	10.37	24.92	6.864	28.71	0
2/2/2019 16:30	4.869	331.7	10.61	6.644	28.71	0
2/2/2019 16:45	7.97	325.7	7.591	6.316	28.71	0
2/2/2019 17:00	6.675	316.3	4.959	5.973	28.71	0
2/2/2019 17:15	3.115	347.1	15.71	5.669	28.71	0
2/2/2019 17:30	2.994	347.7	8.71	5.685	28.71	0
2/2/2019 17:45	5.829	329.6	5.01	5.712	28.71	0
2/2/2019 18:00	6.728	340.9	17.14	5.76	28.69	0
2/2/2019 18:15	6.687	350.5	17.05	5.814	28.69	0
2/2/2019 18:30	6.787	355.6	13.76	5.622	28.69	0
2/2/2019 18:45	8.19	10.75	12.08	5.521	28.69	0
2/2/2019 19:00	8.69	16.28	8.66	5.406	28.66	0
2/2/2019 19:15	10.33	23.58	7.622	5.154	28.66	0
2/2/2019 19:30	8.63	21.51	13.24	4.957	28.66	0
2/2/2019 19:45	7.966	19.61	10.62	4.875	28.66	0
2/2/2019 20:00	8.44	14.89	9.94	4.911	28.63	0
2/2/2019 20:15	8.7	14.91	8.37	4.91	28.63	0
2/2/2019 20:30	10.18	15.77	9.72	4.802	28.63	0
2/2/2019 20:45	9.24	12.82	12.29	4.745	28.63	0
2/2/2019 21:00	8.79	23.99	8.44	4.803	28.62	0
2/2/2019 21:15	11.41	15.92	10.77	4.764	28.62	0
2/2/2019 21:30	11.34	20.89	11.21	4.659	28.62	0
2/2/2019 21:45	10.25	17.89	12.93	4.788	28.62	0
2/2/2019 22:00	9.98	17.37	10.75	4.71	28.61	0
2/2/2019 22:15	10.62	16.42	9.11	4.625	28.61	0

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2/2/2019 22:30	9.37	20.19	10.07	4.571	28.61	0
2/2/2019 22:45	8.23	19.57	9.49	4.454	28.61	0
2/2/2019 23:00	8.41	22.1	8	4.129	28.62	0
2/2/2019 23:15	9.62	20.03	10.99	4.109	28.62	0
2/2/2019 23:30	8.29	9.9	13.31	4.188	28.62	0
2/2/2019 23:45	10.35	18.98	10.69	4.046	28.62	0
2/3/2019 0:00	11.54	22.33	8.28	3.795	28.61	0
2/3/2019 0:15	10.33	17.22	11.2	3.72	28.61	0
2/3/2019 0:30	9.31	12	11.09	3.745	28.61	0
2/3/2019 0:45	8.61	23.55	9.41	3.858	28.61	0
2/3/2019 1:00	6.142	14.69	10.74	3.774	28.6	0
2/3/2019 1:15	2.749	311.7	17.45	3.697	28.6	0
2/3/2019 1:30	2.619	309.2	14.14	3.548	28.6	0
2/3/2019 1:45	1.642	3.838	17.22	3.743	28.6	0
2/3/2019 2:00	1.406	36.92	6.387	3.528	28.59	0
2/3/2019 2:15	3.278	37.17	10.05	3.226	28.59	0
2/3/2019 2:30	2.86	36.11	9.91	3	28.59	0
2/3/2019 2:45	5.826	33.43	7.724	2.956	28.59	0
2/3/2019 3:00	3.134	50.46	5.377	2.749	28.58	0
2/3/2019 3:15	2.549	41.56	9.74	2.776	28.58	0
2/3/2019 3:30	3.212	24.09	10.14	2.773	28.58	0
2/3/2019 3:45	1.931	116.6	30.5	2.547	28.58	0
2/3/2019 4:00	2.369	209.4	18.15	2.761	28.58	0
2/3/2019 4:15	0.909	316.8	94.2	2.713	28.58	0
2/3/2019 4:30	1.113	120.6	12.9	2.456	28.58	0
2/3/2019 4:45	4.802	181.3	24.04	2.551	28.58	0
2/3/2019 5:00	5.624	198.7	6.495	2.681	28.58	0
2/3/2019 5:15	4.779	193.4	5.791	2.712	28.58	0
2/3/2019 5:30	5.31	196.7	8.31	2.717	28.58	0
2/3/2019 5:45	5.682	192.8	6.723	2.69	28.58	0
2/3/2019 6:00	5.4	197	7.562	2.735	28.57	0
2/3/2019 6:15	6.158	194.6	10.69	2.854	28.57	0
2/3/2019 6:30	7.834	183.3	6.933	2.797	28.57	0
2/3/2019 6:45	10.35	189	8.01	2.776	28.57	0
2/3/2019 7:00	10.67	185.9	8.51	2.724	28.55	0
2/3/2019 7:15	13.24	198.1	12.47	2.691	28.55	0
2/3/2019 7:30	13.95	201.6	10.01	2.584	28.55	0
2/3/2019 7:45	13.11	200.9	9.38	2.484	28.55	0
2/3/2019 8:00	12.29	199.4	8.64	2.375	28.57	0
2/3/2019 8:15	12.94	201	9.49	2.308	28.57	0
2/3/2019 8:30	13.39	202	9.76	2.355	28.57	0
2/3/2019 8:45	14.17	196.7	8.93	2.424	28.57	0
2/3/2019 9:00	13.5	210.4	11.61	2.555	28.6	0
2/3/2019 9:15	11.27	190.7	10.26	2.529	28.6	0
2/3/2019 9:30	12.3	190	10.05	2.562	28.6	0
2/3/2019 9:45	12.73	185.5	8.17	2.639	28.6	0
2/3/2019 10:00	12.92	184.4	9.74	2.792	28.6	0
2/3/2019 10:15	11.96	180.1	9.51	2.886	28.6	0
2/3/2019 10:30	15.3	184.8	9.72	2.946	28.6	0
2/3/2019 10:45	14.15	185.9	9.94	3.008	28.6	0
2/3/2019 11:00	13.7	188.6	10.52	3.235	28.6	0
2/3/2019 11:15	15.79	183.7	10.29	3.313	28.6	0
2/3/2019 11:30	13.96	187.6	9.82	3.288	28.6	0
2/3/2019 11:45	12.73	186.2	10.99	3.345	28.6	0
2/3/2019 12:00	13.17	188.8	10.17	3.397	28.6	0
2/3/2019 12:15	12.85	194.2	10.05	3.478	28.6	0
2/3/2019 12:30	11.98	202.1	13.14	3.686	28.6	0
2/3/2019 12:45	11.13	201.4	9.17	3.785	28.6	0
2/3/2019 13:00	11.76	215	16.31	3.793	28.58	0
2/3/2019 13:15	10.7	215.8	7.468	3.865	28.58	0
2/3/2019 13:30	8.21	202.7	11	3.863	28.58	0
2/3/2019 13:45	5.382	216.7	9.05	3.865	28.58	0
2/3/2019 14:00	5.761	243.5	12.39	3.686	28.57	0
2/3/2019 14:15	5.793	266.6	17.8	3.267	28.57	0
2/3/2019 14:30	5.477	254.3	14.38	3.076	28.57	0
2/3/2019 14:45	5.267	237	13.45	2.824	28.57	0

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2/3/2019 15:00	3.517	308.7	21.51	2.446	28.56	0
2/3/2019 15:15	5.564	322.3	13.59	2.286	28.56	0
2/3/2019 15:30	5.825	312.7	6.26	1.995	28.56	0.01
2/3/2019 15:45	5.625	322.7	7.138	1.782	28.56	0
2/3/2019 16:00	7.247	9.26	28.53	1.306	28.57	0
2/3/2019 16:15	10.22	15.97	11.43	0.103	28.57	0
2/3/2019 16:30	6.214	11.71	16.25	-0.141	28.57	0
2/3/2019 16:45	7.596	23.03	9.94	-0.524	28.57	0
2/3/2019 17:00	9.11	31.61	11.11	-0.76	28.57	0
2/3/2019 17:15	7.929	32.47	7.527	-0.791	28.57	0
2/3/2019 17:30	5.891	36.27	9.06	-0.792	28.57	0
2/3/2019 17:45	5.644	46.4	7.611	-0.827	28.57	0
2/3/2019 18:00	5.189	42.84	7.553	-0.884	28.58	0
2/3/2019 18:15	4.396	45.79	15.71	-0.93	28.58	0
2/3/2019 18:30	7.251	27.98	8.14	-0.911	28.58	0
2/3/2019 18:45	7.236	32.53	7.225	-0.928	28.58	0
2/3/2019 19:00	5.809	35.45	9.34	-0.967	28.55	0
2/3/2019 19:15	5.397	24.71	11.97	-0.987	28.55	0
2/3/2019 19:30	5.486	33.06	10.3	-1.069	28.55	0
2/3/2019 19:45	6.195	31.05	10.17	-1.158	28.55	0
2/3/2019 20:00	3.949	19.98	12.7	-1.14	28.58	0
2/3/2019 20:15	5.578	25.54	9	-1.122	28.58	0
2/3/2019 20:30	7.526	30.61	8.29	-1.228	28.58	0
2/3/2019 20:45	7.291	31.91	10.24	-1.226	28.58	0
2/3/2019 21:00	7.244	23.44	7.688	-1.26	28.55	0
2/3/2019 21:15	5.043	5.968	14.56	-1.211	28.55	0
2/3/2019 21:30	3.076	315	25.25	-0.966	28.55	0
2/3/2019 21:45	5.782	31.76	12.74	-1.1	28.55	0
2/3/2019 22:00	5.428	22.4	8.35	-1.317	28.57	0
2/3/2019 22:15	5.584	33.46	9.36	-1.393	28.57	0
2/3/2019 22:30	7.209	20.82	8.66	-1.53	28.57	0
2/3/2019 22:45	4.717	17.34	9	-1.43	28.57	0
2/3/2019 23:00	4.06	19.91	7.323	-1.432	28.58	0
2/3/2019 23:15	4.249	17.05	12.34	-1.419	28.58	0
2/3/2019 23:30	1.515	347.1	37	-1.345	28.58	0
2/3/2019 23:45	0.892	43.53	3.758	-1.351	28.58	0
2/4/2019 0:00	1.855	24.79	2.424	-1.321	28.57	0
2/4/2019 0:15	3.031	24.47	9.62	-1.394	28.57	0
2/4/2019 0:30	3.63	21	7.752	-1.421	28.57	0
2/4/2019 0:45	5.482	7.269	13.94	-1.438	28.57	0
2/4/2019 1:00	2.589	336.9	15.13	-1.39	28.6	0
2/4/2019 1:15	4.677	14.35	27.23	-1.339	28.6	0
2/4/2019 1:30	10.36	21.21	9.9	-1.639	28.6	0
2/4/2019 1:45	9.68	22.29	9.67	-1.743	28.6	0
2/4/2019 2:00	12.92	15.4	14	-1.895	28.61	0
2/4/2019 2:15	13.84	5.742	16.09	-1.916	28.61	0
2/4/2019 2:30	12.32	0.237	16.38	-1.902	28.61	0
2/4/2019 2:45	8.99	347.1	19.48	-1.907	28.61	0
2/4/2019 3:00	10.26	360	19.41	-2.135	28.62	0
2/4/2019 3:15	11.67	320.7	11.59	-2.463	28.62	0
2/4/2019 3:30	14.12	340.2	23.38	-2.965	28.62	0
2/4/2019 3:45	7.411	345.5	18.2	-3.219	28.62	0
2/4/2019 4:00	8.36	344.3	19.37	-3.263	28.64	0
2/4/2019 4:15	7.455	313.6	13.38	-3.427	28.64	0
2/4/2019 4:30	8.74	328	15.89	-3.488	28.64	0
2/4/2019 4:45	9.16	333.8	14.44	-3.719	28.64	0
2/4/2019 5:00	9.8	346.7	23.4	-3.974	28.68	0
2/4/2019 5:15	12.11	4.417	21.26	-4.209	28.68	0
2/4/2019 5:30	11.55	358.3	18.27	-4.437	28.68	0
2/4/2019 5:45	12.69	3.708	17.32	-4.567	28.68	0
2/4/2019 6:00	11.05	359.5	19.24	-4.545	28.71	0
2/4/2019 6:15	12.24	348.6	18.46	-4.55	28.71	0
2/4/2019 6:30	11.35	354.4	22.39	-4.66	28.71	0
2/4/2019 6:45	9.51	336.3	24.89	-4.674	28.71	0
2/4/2019 7:00	9.44	353.4	29.37	-4.69	28.73	0
2/4/2019 7:15	10.24	351.1	22.44	-4.846	28.73	0

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2/4/2019 7:30	9.02	350.6	24.18	-5.066	28.73	0
2/4/2019 7:45	7.949	344.4	26.47	-5.131	28.73	0
2/4/2019 8:00	8.01	348.2	26.73	-5.121	28.74	0
2/4/2019 8:15	9.36	349.5	24.72	-5.147	28.74	0
2/4/2019 8:30	6.392	323.1	41.03	-5.098	28.74	0
2/4/2019 8:45	6.894	354.6	40.28	-4.954	28.74	0
2/4/2019 9:00	3.287	34.86	46.03	-4.942	28.75	0
2/4/2019 9:15	4.935	27.59	28.96	-4.938	28.75	0
2/4/2019 9:30	6.792	339.4	25.62	-5.005	28.75	0
2/4/2019 9:45	9.4	348.1	16.62	-5.357	28.75	0
2/4/2019 10:00	8.27	331.1	14.42	-5.59	28.77	0
2/4/2019 10:15	6.841	353.8	18.84	-5.621	28.77	0
2/4/2019 10:30	8.37	16.33	14.05	-5.644	28.77	0
2/4/2019 10:45	8.76	15.54	14.24	-5.69	28.77	0
2/4/2019 11:00	10.88	10.35	15.21	-5.619	28.78	0
2/4/2019 11:15	10.91	14.84	11.88	-5.638	28.78	0
2/4/2019 11:30	10.78	16.61	12.72	-5.589	28.78	0
2/4/2019 11:45	9.96	14.46	14.38	-5.462	28.78	0
2/4/2019 12:00	10.56	1.176	16.98	-5.359	28.79	0
2/4/2019 12:15	10.09	8.98	18.53	-5.302	28.79	0
2/4/2019 12:30	9.73	5.547	16.76	-5.231	28.79	0
2/4/2019 12:45	8.92	348.1	18.51	-5.18	28.79	0
2/4/2019 13:00	10.99	3.926	17.82	-5.211	28.8	0
2/4/2019 13:15	10.87	9.18	13.58	-5.224	28.8	0
2/4/2019 13:30	10.91	5.419	17.36	-5.226	28.8	0
2/4/2019 13:45	9.19	8.12	18.09	-5.268	28.8	0
2/4/2019 14:00	9.17	5.469	18.79	-5.199	28.81	0
2/4/2019 14:15	10.12	8.9	22.26	-5.203	28.81	0
2/4/2019 14:30	7.03	8.17	19.48	-5.145	28.81	0
2/4/2019 14:45	7.823	2.743	24.42	-5.094	28.81	0
2/4/2019 15:00	7.457	3.564	15	-4.988	28.83	0
2/4/2019 15:15	8.29	7.563	11.53	-4.903	28.83	0
2/4/2019 15:30	8.97	1.278	19.17	-4.851	28.83	0
2/4/2019 15:45	8.2	18.19	14.99	-4.934	28.83	0
2/4/2019 16:00	7.436	10.26	17.88	-4.885	28.85	0
2/4/2019 16:15	7.284	21.98	17.6	-4.811	28.85	0
2/4/2019 16:30	9.78	14.04	10.55	-4.796	28.85	0
2/4/2019 16:45	8.09	12.85	18.47	-4.727	28.85	0
2/4/2019 17:00	10.16	27.95	11.78	-4.911	28.85	0
2/4/2019 17:15	9.4	25.05	12.46	-4.946	28.85	0
2/4/2019 17:30	9.97	18.18	12.36	-4.925	28.85	0
2/4/2019 17:45	8.27	12.1	10.87	-5.073	28.85	0
2/4/2019 18:00	8.04	359.1	17.23	-5.033	28.87	0
2/4/2019 18:15	5.428	10.86	20.28	-5.177	28.87	0
2/4/2019 18:30	4.887	13.86	17.09	-5.222	28.87	0
2/4/2019 18:45	4.2	22.6	16.79	-5.249	28.87	0
2/4/2019 19:00	5.354	20.23	21.95	-5.074	28.86	0
2/4/2019 19:15	5.657	15.07	17.46	-5.082	28.86	0
2/4/2019 19:30	4.328	353.8	17.7	-5.163	28.86	0
2/4/2019 19:45	5.451	12.01	15.56	-4.903	28.86	0
2/4/2019 20:00	6.672	18.33	15.45	-4.93	28.86	0
2/4/2019 20:15	5.064	47.4	51.68	-5.585	28.86	0
2/4/2019 20:30	2.404	100.9	12.98	-6.547	28.86	0
2/4/2019 20:45	2.071	61.02	20.36	-6.423	28.86	0
2/4/2019 21:00	4.357	22	9.91	-5.521	28.88	0
2/4/2019 21:15	6.354	359.1	19.37	-5.666	28.88	0
2/4/2019 21:30	5.021	10.02	16.01	-5.786	28.88	0
2/4/2019 21:45	3.729	40.38	16.76	-5.522	28.88	0
2/4/2019 22:00	5.155	22.5	14.39	-5.709	28.89	0
2/4/2019 22:15	2.146	20.79	16.63	-5.804	28.89	0
2/4/2019 22:30	0.865	49.6	0.466	-6.068	28.89	0
2/4/2019 22:45	1.825	76.69	13.55	-6.091	28.89	0
2/4/2019 23:00	3.158	101.8	9.52	-6.342	28.9	0
2/4/2019 23:15	4.487	105.7	6.345	-5.984	28.9	0
2/4/2019 23:30	4.131	99.4	11.99	-6.148	28.9	0
2/4/2019 23:45	3.167	59.82	18.33	-6.025	28.9	0

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2/5/2019 0:00	3.143	43.35	21.77	-6.139	28.92	0
2/5/2019 0:15	3.629	50.21	14.32	-6.082	28.92	0
2/5/2019 0:30	4.326	60.75	15.15	-6.429	28.92	0
2/5/2019 0:45	4.589	85.7	16.63	-5.541	28.92	0
2/5/2019 1:00	4.491	118.6	9.44	-5.436	28.93	0
2/5/2019 1:15	1.971	116	41.7	-5.472	28.93	0
2/5/2019 1:30	0.971	332.6	66.72	-4.895	28.93	0
2/5/2019 1:45	0.29	47.08	9.36	-5.345	28.93	0
2/5/2019 2:00	0.188	39.99	1.923	-5.26	28.95	0
2/5/2019 2:15	0.776	343.3	34.64	-5.371	28.95	0
2/5/2019 2:30	1.128	184.8	57.77	-5.721	28.95	0
2/5/2019 2:45	2.804	182.2	2.064	-5.837	28.95	0
2/5/2019 3:00	3.905	182.9	2.46	-5.924	28.95	0
2/5/2019 3:15	4.516	172.6	9.88	-6.261	28.95	0
2/5/2019 3:30	3.486	140	5.413	-6.344	28.95	0
2/5/2019 3:45	3.142	132.4	17.14	-6.485	28.95	0
2/5/2019 4:00	4.153	170.4	7.143	-6.171	28.96	0
2/5/2019 4:15	4.165	180.7	9	-6.334	28.96	0
2/5/2019 4:30	4.068	177.3	9.16	-6.53	28.96	0
2/5/2019 4:45	2.766	142.9	17.19	-6.699	28.96	0
2/5/2019 5:00	1.483	111.5	3.91	-6.819	28.98	0
2/5/2019 5:15	2.984	107.6	15.57	-6.892	28.98	0
2/5/2019 5:30	2.562	140.7	19.98	-6.308	28.98	0
2/5/2019 5:45	1.319	132.2	1.68	-5.818	28.98	0
2/5/2019 6:00	0.333	124.5	0.08	-5.932	28.99	0
2/5/2019 6:15	1.145	121.2	5.469	-6.007	28.99	0
2/5/2019 6:30	1.525	102.2	3.826	-6.648	28.99	0
2/5/2019 6:45	3.027	113.7	13.37	-7.139	28.99	0
2/5/2019 7:00	2.214	123.8	8.91	-6.677	29	0
2/5/2019 7:15	2.213	126.8	1.333	-6.218	29	0
2/5/2019 7:30	1.291	137.2	12.29	-6.38	29	0
2/5/2019 7:45	0.1	319	0.412	-6.367	29	0
2/5/2019 8:00	0	0	0	-6.247	29.02	0
2/5/2019 8:15	0.381	16.68	1.29	-5.366	29.02	0
2/5/2019 8:30	0.406	19.89	1.108	-4.961	29.02	0
2/5/2019 8:45	0.214	84.8	6.239	-3.946	29.02	0
2/5/2019 9:00	0.864	86.5	0.179	-3.548	29.05	0
2/5/2019 9:15	0.967	86.5	0.194	-3.933	29.05	0
2/5/2019 9:30	1.048	86.6	0.163	-2.566	29.05	0
2/5/2019 9:45	1.71	93.2	6.163	-3.05	29.05	0
2/5/2019 10:00	1.162	105.3	6.515	-3.325	29.04	0
2/5/2019 10:15	1.94	153.2	9.37	-3.311	29.04	0
2/5/2019 10:30	3.373	165.6	4.606	-3.388	29.04	0
2/5/2019 10:45	3.554	190.2	9.9	-3.235	29.04	0
2/5/2019 11:00	3.677	202.5	16.47	-3.047	29.05	0
2/5/2019 11:15	2.949	205.6	12.37	-2.634	29.05	0
2/5/2019 11:30	3.387	188.6	18.3	-2.613	29.05	0
2/5/2019 11:45	2.847	286.3	51.74	-2.615	29.05	0
2/5/2019 12:00	2.777	245	55.8	-2.083	29.08	0
2/5/2019 12:15	2.616	219.5	42.73	-1.849	29.08	0
2/5/2019 12:30	3.639	207.2	22.98	-1.939	29.08	0
2/5/2019 12:45	2.858	321.8	64.44	-1.712	29.08	0
2/5/2019 13:00	2.929	208.7	42.86	-1.66	29.06	0
2/5/2019 13:15	1.462	200.1	13.12	-1.552	29.06	0
2/5/2019 13:30	4.898	241.4	16.28	-0.421	29.06	0
2/5/2019 13:45	5.867	246	11.91	-1.471	29.06	0.01
2/5/2019 14:00	4.403	245.1	24.37	-1.126	29.09	0
2/5/2019 14:15	3.273	309	20.96	-1.401	29.09	0
2/5/2019 14:30	4.179	300.4	16.88	-2.036	29.09	0
2/5/2019 14:45	8.14	305	9.94	-2.237	29.09	0
2/5/2019 15:00	9.65	315.3	5.602	-2.239	29.08	0
2/5/2019 15:15	8.44	304.3	7.645	-1.802	29.08	0
2/5/2019 15:30	6.488	296	10.92	-1.702	29.08	0
2/5/2019 15:45	6.884	309.6	10.56	-1.743	29.08	0
2/5/2019 16:00	6.057	306.4	4.718	-2.203	29.12	0
2/5/2019 16:15	5.373	300.5	9.14	-2.582	29.12	0



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2/5/2019 16:30	5.092	304.4	4.985	-2.777	29.12	0
2/5/2019 16:45	3.548	339.1	31.96	-2.873	29.12	0
2/5/2019 17:00	2.048	10.63	11.48	-2.775	29.14	0
2/5/2019 17:15	3.824	27.44	11.14	-3.136	29.14	0
2/5/2019 17:30	3.746	30.63	9.03	-3.457	29.14	0
2/5/2019 17:45	2.075	35.38	4.415	-3.367	29.14	0
2/5/2019 18:00	2.041	45.66	3.656	-3.731	29.16	0
2/5/2019 18:15	2.341	41.41	7.594	-3.524	29.16	0
2/5/2019 18:30	1.885	42.64	4.09	-3.489	29.16	0
2/5/2019 18:45	1.18	56.4	11.12	-4.044	29.16	0
2/5/2019 19:00	2.297	115.1	29.84	-4.127	29.18	0
2/5/2019 19:15	2.245	112.5	12.02	-4.116	29.18	0
2/5/2019 19:30	2.81	104.1	8.03	-4.311	29.18	0
2/5/2019 19:45	1.956	73	8.66	-4.477	29.18	0
2/5/2019 20:00	1.425	41.91	8.27	-4.777	29.19	0
2/5/2019 20:15	0.793	47.55	5.617	-4.43	29.19	0
2/5/2019 20:30	2.174	55.86	11.13	-4.605	29.19	0
2/5/2019 20:45	2.385	35.73	7.304	-4.397	29.19	0
2/5/2019 21:00	3.449	42.82	10.53	-4.315	29.2	0
2/5/2019 21:15	3.995	51.95	4.278	-4.326	29.2	0
2/5/2019 21:30	4.514	50.59	4.4	-4.372	29.2	0
2/5/2019 21:45	3.738	44.82	5.965	-4.444	29.2	0
2/5/2019 22:00	3.598	51.17	7.279	-4.761	29.22	0
2/5/2019 22:15	2.766	50.72	8.05	-4.963	29.22	0
2/5/2019 22:30	3.017	32.98	5.09	-4.801	29.22	0
2/5/2019 22:45	3.613	43.62	6.956	-5.027	29.22	0
2/5/2019 23:00	3.201	28.74	4.958	-5	29.23	0
2/5/2019 23:15	3.017	27.23	4.936	-5.106	29.23	0
2/5/2019 23:30	3.533	12.34	8.17	-5.3	29.23	0
2/5/2019 23:45	3.471	27.93	11.13	-5.096	29.23	0
2/6/2019 0:00	3.4	35.54	4.739	-5.101	29.25	0
2/6/2019 0:15	2.941	21.89	8.38	-4.939	29.25	0
2/6/2019 0:30	3.354	37.23	6.093	-5.14	29.25	0
2/6/2019 0:45	3.189	29.32	7.538	-5.432	29.25	0
2/6/2019 1:00	3.019	27.1	9.27	-5.969	29.27	0
2/6/2019 1:15	3.293	37.41	9.42	-6.006	29.27	0
2/6/2019 1:30	2.122	42.01	9.53	-6.202	29.27	0
2/6/2019 1:45	1.887	46.83	21.61	-6.207	29.27	0
2/6/2019 2:00	3.341	106.5	14.89	-6.018	29.27	0
2/6/2019 2:15	3.013	132.6	2.786	-5.336	29.27	0
2/6/2019 2:30	1.991	142.3	5.526	-5.045	29.27	0
2/6/2019 2:45	2.379	145.1	5.519	-6.343	29.27	0
2/6/2019 3:00	1.679	135.4	7.959	-5.788	29.28	0
2/6/2019 3:15	0.982	162.3	31.39	-5.431	29.28	0
2/6/2019 3:30	3.624	197.4	6.464	-6.09	29.28	0
2/6/2019 3:45	4.295	170.8	6.92	-6.299	29.28	0
2/6/2019 4:00	3.956	167.6	13.48	-6.305	29.29	0
2/6/2019 4:15	2.251	148	15.7	-6.433	29.29	0
2/6/2019 4:30	2.239	159	10.78	-6.123	29.29	0
2/6/2019 4:45	2.457	180.8	12.49	-6.381	29.29	0
2/6/2019 5:00	1.438	138.2	25.52	-6.411	29.3	0
2/6/2019 5:15	0.941	104.8	0.624	-6.134	29.3	0
2/6/2019 5:30	0.866	98.8	0.12	-6.221	29.3	0
2/6/2019 5:45	1.645	146.7	10.56	-5.746	29.3	0
2/6/2019 6:00	3.103	153.6	6.264	-5.634	29.31	0
2/6/2019 6:15	2.606	133.5	21.82	-6.266	29.31	0
2/6/2019 6:30	2.082	100.2	0.163	-6.646	29.31	0
2/6/2019 6:45	2.093	120.7	14.71	-6.146	29.31	0
2/6/2019 7:00	1.971	159.5	18.94	-5.846	29.33	0
2/6/2019 7:15	0.683	164.2	0.772	-5.848	29.33	0
2/6/2019 7:30	0.11	46.85	30.61	-6.541	29.33	0
2/6/2019 7:45	0.551	24.96	7.136	-6.448	29.33	0
2/6/2019 8:00	0.397	30.87	0.147	-5.605	29.36	0
2/6/2019 8:15	0.305	30.96	0.076	-4.849	29.36	0
2/6/2019 8:30	0.868	31.13	0.107	-4.635	29.36	0
2/6/2019 8:45	1.622	33.85	3.8	-5.094	29.36	0

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2/6/2019 9:00	1.962	33.83	6.593	-5.056	29.38	0
2/6/2019 9:15	1.235	56.45	1.134	-4.529	29.38	0
2/6/2019 9:30	0.659	86.7	11.94	-4.614	29.38	0
2/6/2019 9:45	2.74	150.5	17.79	-4.017	29.38	0
2/6/2019 10:00	3.106	178	12.6	-3.756	29.39	0
2/6/2019 10:15	3.469	214.7	7.779	-3.669	29.39	0
2/6/2019 10:30	2.734	198.6	6.204	-3.238	29.39	0
2/6/2019 10:45	1.738	166	17.2	-2.367	29.39	0
2/6/2019 11:00	2.153	193.8	22.92	-2.119	29.42	0
2/6/2019 11:15	2.019	226.1	6.327	-1.827	29.42	0
2/6/2019 11:30	2.03	215	10.35	-1.249	29.42	0
2/6/2019 11:45	2.863	202	12.2	-1.236	29.42	0
2/6/2019 12:00	2.617	190.3	14.25	-0.779	29.43	0
2/6/2019 12:15	1.863	142.9	26.97	-0.489	29.43	0
2/6/2019 12:30	0.675	327.7	80.8	0.497	29.43	0
2/6/2019 12:45	1.734	201.8	35.23	0.19	29.43	0
2/6/2019 13:00	0.556	134.7	18.81	1.26	29.44	0
2/6/2019 13:15	1.255	308.4	43.25	0.753	29.44	0
2/6/2019 13:30	1.015	333	32.32	0.705	29.44	0.01
2/6/2019 13:45	1.967	12.91	16.3	0.39	29.44	0
2/6/2019 14:00	3.847	26.68	19.62	0.307	29.44	0
2/6/2019 14:15	6.558	21.25	10.86	-0.298	29.44	0
2/6/2019 14:30	7.133	18.22	11.3	-0.296	29.44	0
2/6/2019 14:45	7.137	24.04	8.94	-0.308	29.44	0
2/6/2019 15:00	6.571	22.58	11.22	-0.181	29.45	0
2/6/2019 15:15	5.48	19	15.14	-0.017	29.45	0
2/6/2019 15:30	5.73	20.21	8.19	-0.116	29.45	0
2/6/2019 15:45	5.425	20.36	8.51	-0.095	29.45	0
2/6/2019 16:00	3.286	329.7	30.82	0.332	29.45	0
2/6/2019 16:15	3.633	356	17.14	0.07	29.45	0
2/6/2019 16:30	4.192	334.4	28.89	0.039	29.45	0
2/6/2019 16:45	2.796	304.8	9.78	0.147	29.45	0
2/6/2019 17:00	2.354	307.4	8.98	0.052	29.46	0
2/6/2019 17:15	1.515	285.9	18.14	-0.116	29.46	0
2/6/2019 17:30	1.367	274.2	10.74	-0.395	29.46	0
2/6/2019 17:45	1.704	23.81	16.17	-1.154	29.46	0
2/6/2019 18:00	2.619	10.87	5.224	-1.353	29.45	0
2/6/2019 18:15	2.54	27.25	8.84	-1.772	29.45	0
2/6/2019 18:30	2.821	21.2	2.608	-1.96	29.45	0
2/6/2019 18:45	3.142	23.86	7.34	-2.448	29.45	0
2/6/2019 19:00	2.625	45.53	5.872	-2.529	29.46	0
2/6/2019 19:15	2.328	81.6	12.22	-2.557	29.46	0
2/6/2019 19:30	2.915	104.7	10.95	-3.066	29.46	0
2/6/2019 19:45	2.778	69.92	11.69	-2.67	29.46	0
2/6/2019 20:00	3.186	46.72	5.307	-2.6	29.47	0
2/6/2019 20:15	2.744	62.37	7.56	-2.621	29.47	0
2/6/2019 20:30	1.967	92.8	14.42	-3.105	29.47	0
2/6/2019 20:45	2.549	110.8	0.91	-3.22	29.47	0
2/6/2019 21:00	1.381	110.3	0.185	-3.089	29.48	0
2/6/2019 21:15	1.388	111.7	1.862	-3.007	29.48	0
2/6/2019 21:30	1.869	101.5	6.087	-3.253	29.48	0
2/6/2019 21:45	2.191	104.1	5.745	-3.68	29.48	0
2/6/2019 22:00	1.694	86.3	7.22	-3.788	29.5	0
2/6/2019 22:15	1.833	108.7	16.99	-3.369	29.5	0
2/6/2019 22:30	2.836	117.8	2.467	-3.298	29.5	0
2/6/2019 22:45	3.777	109.2	3.603	-3.566	29.5	0
2/6/2019 23:00	4.046	117.9	3.006	-3.265	29.5	0
2/6/2019 23:15	3.901	134.3	4.348	-3.193	29.5	0
2/6/2019 23:30	3.341	143.1	7.354	-3.328	29.5	0
2/6/2019 23:45	3.69	139.9	7.423	-3.062	29.5	0
2/7/2019 0:00	2.13	116.7	3.319	-4.029	29.52	0
2/7/2019 0:15	2.46	124.3	1.819	-3.924	29.52	0
2/7/2019 0:30	3.046	134.4	6.571	-3.257	29.52	0
2/7/2019 0:45	3.072	132.3	9.7	-3.133	29.52	0
2/7/2019 1:00	1.902	138.6	4.235	-3.481	29.51	0
2/7/2019 1:15	1.812	127.5	3.064	-3.945	29.51	0

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2/7/2019 1:30	1.795	133.7	5.658	-3.643	29.51	0
2/7/2019 1:45	2.864	146.2	10.37	-3.504	29.51	0
2/7/2019 2:00	2.161	98.8	13.27	-4.091	29.51	0
2/7/2019 2:15	3.063	118.1	6.756	-4.007	29.51	0
2/7/2019 2:30	2.351	138.2	10.16	-4.131	29.51	0
2/7/2019 2:45	1.968	105.3	22.29	-4.263	29.51	0
2/7/2019 3:00	2.044	93.3	5.805	-4.072	29.51	0
2/7/2019 3:15	3.289	111.9	4.562	-3.52	29.51	0
2/7/2019 3:30	2.806	96.6	9.43	-3.976	29.51	0
2/7/2019 3:45	3.203	105.8	9.21	-4.248	29.51	0
2/7/2019 4:00	2.677	125	9.16	-4.132	29.51	0
2/7/2019 4:15	3.399	150.1	7.942	-3.863	29.51	0
2/7/2019 4:30	3.479	143.2	14.65	-3.684	29.51	0
2/7/2019 4:45	3.013	115.4	8.61	-3.528	29.51	0
2/7/2019 5:00	3.526	110.6	5.667	-4	29.5	0
2/7/2019 5:15	3.443	119.6	4.295	-3.419	29.5	0
2/7/2019 5:30	2.67	119.9	6.948	-3.478	29.5	0
2/7/2019 5:45	3.309	126.9	9.91	-3.531	29.5	0
2/7/2019 6:00	1.78	121.4	4.379	-4.044	29.5	0
2/7/2019 6:15	2.125	120.3	26.29	-4.541	29.5	0
2/7/2019 6:30	2.264	91.4	8.03	-4.729	29.5	0
2/7/2019 6:45	2.707	117.1	15.1	-4.741	29.5	0
2/7/2019 7:00	3.895	90.9	23.12	-4.413	29.5	0
2/7/2019 7:15	3.429	45.59	8.71	-4.531	29.5	0
2/7/2019 7:30	2.868	45.53	7.098	-4.657	29.5	0
2/7/2019 7:45	2.002	43.51	6.075	-4.139	29.5	0
2/7/2019 8:00	2.192	29.86	4.216	-4.142	29.5	0
2/7/2019 8:15	2.798	30.71	6.766	-4.464	29.5	0
2/7/2019 8:30	3.235	53.79	7.366	-4.978	29.5	0
2/7/2019 8:45	3.984	47.72	12.78	-4.965	29.5	0
2/7/2019 9:00	3.492	15.37	10.25	-4.292	29.51	0
2/7/2019 9:15	3.015	359.5	9.19	-3.948	29.51	0
2/7/2019 9:30	3.683	350.5	17.91	-3.488	29.51	0
2/7/2019 9:45	3.586	316.8	10.79	-2.711	29.51	0
2/7/2019 10:00	3.794	314.4	4.123	-2.291	29.51	0
2/7/2019 10:15	3.389	312.4	4.839	-1.908	29.51	0
2/7/2019 10:30	3.163	313.3	3.578	-1.819	29.51	0
2/7/2019 10:45	1.538	291.7	8.13	-1.102	29.51	0
2/7/2019 11:00	1.568	310.3	11.43	-0.255	29.5	0
2/7/2019 11:15	1.897	343.2	13.59	-0.297	29.5	0
2/7/2019 11:30	2.751	339.2	3.005	-0.436	29.5	0
2/7/2019 11:45	3.098	332.4	10.22	0.067	29.5	0
2/7/2019 12:00	3.39	331.7	6.05	0.589	29.49	0
2/7/2019 12:15	3.113	330.8	7.408	1.064	29.49	0
2/7/2019 12:30	3.308	317.6	4.889	1.479	29.49	0
2/7/2019 12:45	2.517	330.5	17.53	1.833	29.49	0
2/7/2019 13:00	2.256	7.96	12.31	1.617	29.48	0
2/7/2019 13:15	2.795	17.28	11.94	1.727	29.48	0
2/7/2019 13:30	3.247	19.19	6.331	1.538	29.48	0
2/7/2019 13:45	3.277	23.95	7.19	1.761	29.48	0
2/7/2019 14:00	4.035	19.33	7.463	1.935	29.44	0
2/7/2019 14:15	3.891	23.63	9.16	1.923	29.44	0
2/7/2019 14:30	2.859	23.75	9.42	2.123	29.44	0
2/7/2019 14:45	3.537	21.64	9.88	1.926	29.44	0.01
2/7/2019 15:00	3.332	23.54	7.413	1.704	29.43	0
2/7/2019 15:15	4.372	18.52	8.49	1.46	29.43	0
2/7/2019 15:30	2.373	13.19	14.98	1.416	29.43	0
2/7/2019 15:45	0.258	340.5	5.896	1.923	29.43	0
2/7/2019 16:00	1.92	12.79	18.34	1.562	29.44	0
2/7/2019 16:15	2.206	13.71	12.87	0.951	29.44	0
2/7/2019 16:30	2.302	30.75	12.51	0.919	29.44	0
2/7/2019 16:45	2.51	34.44	12.42	0.789	29.44	0
2/7/2019 17:00	3.456	28.67	11.77	0.662	29.43	0
2/7/2019 17:15	6.118	29.66	9.56	0.453	29.43	0
2/7/2019 17:30	7.45	25.28	7.918	0.267	29.43	0
2/7/2019 17:45	7.082	24.69	6.828	0.071	29.43	0

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2/7/2019 18:00	5.604	25.5	7.618	-0.195	29.43	0
2/7/2019 18:15	5.125	28.26	6.243	-0.568	29.43	0
2/7/2019 18:30	5.002	24.87	6.803	-0.864	29.43	0
2/7/2019 18:45	4.633	19.14	7.453	-0.929	29.43	0
2/7/2019 19:00	5.112	18.11	6.74	-0.658	29.41	0
2/7/2019 19:15	4.747	26.13	6.132	-1.053	29.41	0
2/7/2019 19:30	5.525	28.81	7.107	-1.294	29.41	0
2/7/2019 19:45	4.381	26.61	8.48	-1.233	29.41	0
2/7/2019 20:00	4.456	29.87	7.15	-1.384	29.4	0
2/7/2019 20:15	4.138	34.9	8.17	-1.318	29.4	0
2/7/2019 20:30	4.528	31.12	7.876	-1.371	29.4	0
2/7/2019 20:45	4.054	24.61	8.38	-1.404	29.4	0
2/7/2019 21:00	3.349	30.42	7.841	-1.412	29.41	0
2/7/2019 21:15	3.723	39.75	6.512	-1.183	29.41	0
2/7/2019 21:30	3.618	35.97	6.29	-1.372	29.41	0
2/7/2019 21:45	3.937	21.97	9.01	-1.523	29.41	0
2/7/2019 22:00	3.867	25.46	6.814	-1.507	29.41	0
2/7/2019 22:15	3.496	20.67	10.84	-1.575	29.41	0
2/7/2019 22:30	3.408	18.46	5.747	-1.603	29.41	0
2/7/2019 22:45	1.881	30.82	6.994	-1.54	29.41	0
2/7/2019 23:00	1.276	33.14	7.416	-1.406	29.4	0
2/7/2019 23:15	1.07	51.82	12.22	-1.18	29.4	0
2/7/2019 23:30	2.55	122.8	12.86	-0.728	29.4	0
2/7/2019 23:45	3.949	137.3	6.733	-0.733	29.4	0
2/8/2019 0:00	3.481	140.4	4.543	-0.81	29.38	0
2/8/2019 0:15	3.69	140.6	3.458	-0.806	29.38	0
2/8/2019 0:30	3.903	146	4.733	-0.832	29.38	0
2/8/2019 0:45	3.864	150	3.893	-0.801	29.38	0
2/8/2019 1:00	2.961	139.7	8.22	-0.901	29.38	0
2/8/2019 1:15	3.396	123.6	5.343	-1.029	29.38	0
2/8/2019 1:30	4.299	125.7	20.95	-1.548	29.38	0
2/8/2019 1:45	3.636	156.2	25.62	-0.902	29.38	0
2/8/2019 2:00	4.07	179.7	16.14	-0.904	29.38	0
2/8/2019 2:15	3.421	136.4	11.2	-1.222	29.38	0
2/8/2019 2:30	2.039	73.53	19.79	-1.489	29.38	0
2/8/2019 2:45	2.047	106.1	9.09	-1.081	29.38	0
2/8/2019 3:00	0.297	133.1	12.93	-1.174	29.36	0
2/8/2019 3:15	2.1	180.3	19.43	-0.788	29.36	0
2/8/2019 3:30	0.702	228.9	14.37	-0.75	29.36	0
2/8/2019 3:45	0.681	218.6	6.67	-0.901	29.36	0
2/8/2019 4:00	2.379	192.6	8.63	-0.877	29.32	0
2/8/2019 4:15	3.508	185.1	12.12	-1.024	29.32	0
2/8/2019 4:30	3.819	174.2	8.37	-1.042	29.32	0
2/8/2019 4:45	3.118	168	10.12	-1.074	29.32	0
2/8/2019 5:00	2.088	177.9	18.04	-1.059	29.3	0
2/8/2019 5:15	1.586	174.5	12.97	-1.222	29.3	0
2/8/2019 5:30	3.056	154.6	8.06	-1.556	29.3	0
2/8/2019 5:45	2.789	152.1	5.615	-1.458	29.3	0
2/8/2019 6:00	2.7	167.2	8.56	-1.252	29.29	0
2/8/2019 6:15	3.277	156.2	10.18	-1.009	29.29	0
2/8/2019 6:30	3.031	150.5	3.688	-1.104	29.29	0
2/8/2019 6:45	3.742	161.6	8.05	-1.185	29.29	0
2/8/2019 7:00	4.515	166.5	6.466	-1.009	29.28	0
2/8/2019 7:15	3.801	183.4	6.832	-0.921	29.28	0
2/8/2019 7:30	3.169	171.1	10.43	-0.771	29.28	0
2/8/2019 7:45	3.55	179.2	8.45	-1.077	29.28	0
2/8/2019 8:00	3.401	190.2	8.09	-1.102	29.27	0
2/8/2019 8:15	2.27	132.8	31.46	-1.259	29.27	0
2/8/2019 8:30	1.327	88.2	34.42	-1.528	29.27	0
2/8/2019 8:45	4.353	160.7	5.484	-1.105	29.27	0
2/8/2019 9:00	4.216	153.3	6.514	-1.005	29.24	0
2/8/2019 9:15	4.285	154.6	4.518	-1.144	29.24	0
2/8/2019 9:30	5.41	169.2	15.02	-1.044	29.24	0
2/8/2019 9:45	6.68	155.1	13.14	-0.916	29.24	0
2/8/2019 10:00	6.488	141.7	9.18	-0.632	29.23	0
2/8/2019 10:15	6.192	150.7	8.6	-0.333	29.23	0

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2/8/2019 10:30	6.28	148.4	6.718	-0.285	29.23	0
2/8/2019 10:45	6.453	143.6	7.769	-0.003	29.23	0
2/8/2019 11:00	6.04	152.2	8.17	0.316	29.2	0
2/8/2019 11:15	5.706	149.1	9.87	0.424	29.2	0
2/8/2019 11:30	5.545	138.8	11.26	0.759	29.2	0
2/8/2019 11:45	4.066	141.7	17.75	1.041	29.2	0
2/8/2019 12:00	3.761	136.5	19.95	1.224	29.16	0
2/8/2019 12:15	5.648	146.7	11.29	1.314	29.16	0
2/8/2019 12:30	5.476	160.9	18.88	1.443	29.16	0
2/8/2019 12:45	6.717	179.9	20.88	1.482	29.16	0
2/8/2019 13:00	8.36	189.2	18.47	1.256	29.12	0
2/8/2019 13:15	10.97	213.1	15.28	0.094	29.12	0
2/8/2019 13:30	6.213	189.1	8.32	-0.608	29.12	0
2/8/2019 13:45	5.241	188.1	7.608	-0.742	29.12	0
2/8/2019 14:00	2.862	146.6	13.28	-0.669	29.07	0
2/8/2019 14:15	2.877	109.3	16.44	-0.608	29.07	0
2/8/2019 14:30	3.306	81.1	12.58	-0.619	29.07	0
2/8/2019 14:45	4.148	95.4	10.78	-0.611	29.07	0
2/8/2019 15:00	4.246	87.7	10.46	-0.605	29.06	0
2/8/2019 15:15	3.56	81.6	13.77	-0.521	29.06	0
2/8/2019 15:30	3.224	70.25	13.08	-0.383	29.06	0
2/8/2019 15:45	3.778	94.1	11.36	-0.371	29.06	0
2/8/2019 16:00	3.308	47.37	15.26	-0.393	29	0
2/8/2019 16:15	2.623	24.54	3.953	-0.365	29	0
2/8/2019 16:30	4.251	12.45	5.847	-0.346	29	0
2/8/2019 16:45	5.496	15.02	8.37	-0.437	29	0
2/8/2019 17:00	4.45	358.5	15.25	-0.519	29	0
2/8/2019 17:15	4.072	326.3	5.587	-0.542	29	0
2/8/2019 17:30	4.592	328	2.943	-0.533	29	0
2/8/2019 17:45	3.693	348.4	20.57	-0.596	29	0
2/8/2019 18:00	3.793	21.38	6.317	-0.723	28.97	0
2/8/2019 18:15	2.741	20.77	9.13	-0.79	28.97	0
2/8/2019 18:30	2.02	15.48	6.605	-0.85	28.97	0
2/8/2019 18:45	2.635	52.06	8.43	-0.908	28.97	0
2/8/2019 19:00	1.225	151.8	27.96	-0.869	28.93	0
2/8/2019 19:15	5.184	158.2	8.03	-0.785	28.93	0
2/8/2019 19:30	7.349	134.4	13.97	-1.184	28.93	0
2/8/2019 19:45	8.06	128.4	14.14	-1.521	28.93	0
2/8/2019 20:00	12.93	130.7	11.3	-1.807	28.91	0
2/8/2019 20:15	14.98	128.9	9.56	-2.037	28.91	0
2/8/2019 20:30	15.02	130.3	9.22	-2.052	28.91	0
2/8/2019 20:45	14.03	126.8	10.15	-2.01	28.91	0
2/8/2019 21:00	12.53	125.6	9.94	-1.957	28.89	0
2/8/2019 21:15	10.57	120.6	11.93	-2.044	28.89	0
2/8/2019 21:30	9.4	119.2	13.19	-2.184	28.89	0
2/8/2019 21:45	8.72	117.2	14.23	-2.274	28.89	0
2/8/2019 22:00	8.69	119	12.96	-2.422	28.85	0
2/8/2019 22:15	8.54	112.3	13.26	-2.617	28.85	0
2/8/2019 22:30	9.97	113.7	12.4	-2.625	28.85	0
2/8/2019 22:45	10.07	119.2	11.49	-2.799	28.85	0
2/8/2019 23:00	9.19	114.2	14.95	-2.849	28.81	0
2/8/2019 23:15	9.66	118.5	12.82	-2.762	28.81	0
2/8/2019 23:30	9.65	114.1	14.26	-2.69	28.81	0
2/8/2019 23:45	12.68	115.3	13.87	-2.643	28.81	0
2/9/2019 0:00	13.85	106	12.72	-2.798	28.79	0
2/9/2019 0:15	13.04	98.2	13.13	-2.775	28.79	0
2/9/2019 0:30	11.28	109.3	13.84	-2.515	28.79	0
2/9/2019 0:45	10.38	103.4	14.18	-2.428	28.79	0
2/9/2019 1:00	10.79	114.7	14.76	-2.255	28.79	0
2/9/2019 1:15	12.25	117	12.12	-2.163	28.79	0
2/9/2019 1:30	11.69	110.9	13.42	-2.142	28.79	0
2/9/2019 1:45	13.65	108.8	14.22	-2.078	28.79	0
2/9/2019 2:00	14.03	108.6	12.72	-2.014	28.77	0
2/9/2019 2:15	16.18	114.1	13.07	-1.863	28.77	0
2/9/2019 2:30	15.64	106.1	13.88	-1.751	28.77	0
2/9/2019 2:45	13.49	115.3	12.91	-1.517	28.77	0

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2/9/2019 3:00	16.19	110	12.67	-1.423	28.75	0
2/9/2019 3:15	12.28	96.4	14.94	-1.081	28.75	0
2/9/2019 3:30	12.66	98.3	17.91	-0.614	28.75	0
2/9/2019 3:45	9.06	90.9	16.22	-0.521	28.75	0
2/9/2019 4:00	7.39	98.7	21.34	-0.345	28.72	0
2/9/2019 4:15	4.763	97.6	28.95	-0.2	28.72	0
2/9/2019 4:30	2.991	220.7	47.37	-0.675	28.72	0
2/9/2019 4:45	3.036	220.1	63.57	-0.834	28.72	0
2/9/2019 5:00	4.35	218.5	48.51	-0.84	28.73	0
2/9/2019 5:15	5.294	254.3	18.85	-1.119	28.73	0
2/9/2019 5:30	3.287	256.2	48.14	-1.146	28.73	0
2/9/2019 5:45	4.855	270.5	17.56	-1.955	28.73	0
2/9/2019 6:00	5.559	279.7	5.041	-2.318	28.76	0
2/9/2019 6:15	5.906	279.5	9.5	-2.386	28.76	0
2/9/2019 6:30	6.334	315.4	13.4	-2.518	28.76	0
2/9/2019 6:45	5.903	332.7	10.22	-2.613	28.76	0
2/9/2019 7:00	2.897	336.6	22.9	-2.584	28.77	0
2/9/2019 7:15	4.385	355.4	10.45	-2.479	28.77	0
2/9/2019 7:30	4.525	14.96	13.82	-2.342	28.77	0
2/9/2019 7:45	1.791	350.8	13.92	-2.354	28.77	0
2/9/2019 8:00	1.357	346.5	23.19	-2.475	28.79	0
2/9/2019 8:15	3.314	15.43	18.6	-2.36	28.79	0
2/9/2019 8:30	6.167	9.18	14.33	-2.462	28.79	0
2/9/2019 8:45	10.69	10.14	13.47	-2.405	28.79	0
2/9/2019 9:00	9.41	10.44	16.41	-2.292	28.79	0
2/9/2019 9:15	8.21	8.59	17.01	-2.152	28.79	0
2/9/2019 9:30	7.986	10.94	16.49	-2.306	28.79	0
2/9/2019 9:45	9.64	11.71	10.14	-2.345	28.79	0
2/9/2019 10:00	7.553	9.45	10.7	-2.383	28.83	0
2/9/2019 10:15	4.667	6.285	12.28	-2.268	28.83	0
2/9/2019 10:30	4.73	10.76	13.02	-2.175	28.83	0
2/9/2019 10:45	7.623	12.46	12.56	-2.129	28.83	0
2/9/2019 11:00	10.32	3.049	14.04	-2.084	28.87	0
2/9/2019 11:15	11.17	15.9	12.66	-1.983	28.87	0
2/9/2019 11:30	9.18	25.97	18.42	-1.75	28.87	0
2/9/2019 11:45	12.06	10.63	15.15	-1.911	28.87	0
2/9/2019 12:00	7.05	10.31	14.09	-1.955	28.89	0
2/9/2019 12:15	5.226	15.73	19.14	-1.935	28.89	0
2/9/2019 12:30	8.16	12.23	14.04	-2.007	28.89	0
2/9/2019 12:45	8.28	7.405	16.05	-2.053	28.89	0
2/9/2019 13:00	10.12	5.082	13.77	-2.014	28.88	0
2/9/2019 13:15	9.3	17.41	10.79	-2.114	28.88	0
2/9/2019 13:30	9.4	5.113	14.76	-2.059	28.88	0
2/9/2019 13:45	8.39	7.432	13.3	-1.862	28.88	0
2/9/2019 14:00	9.49	7.143	11.86	-1.777	28.87	0
2/9/2019 14:15	8.96	2.917	14.87	-1.539	28.87	0
2/9/2019 14:30	9	358	15.85	-1.463	28.87	0
2/9/2019 14:45	8.91	357.9	16.11	-1.383	28.87	0
2/9/2019 15:00	10.3	4.16	15.13	-1.593	28.9	0
2/9/2019 15:15	10.21	1.827	16.79	-1.611	28.9	0
2/9/2019 15:30	9.24	3.898	15.65	-1.673	28.9	0
2/9/2019 15:45	10.59	3.819	13.47	-1.632	28.9	0
2/9/2019 16:00	9.25	4.521	13.61	-1.359	28.91	0
2/9/2019 16:15	6.788	6.32	13.12	-1.591	28.91	0
2/9/2019 16:30	6.927	7.945	11.05	-1.629	28.91	0
2/9/2019 16:45	9.4	7.132	14.43	-1.551	28.91	0
2/9/2019 17:00	8.01	346.7	15.39	-1.563	28.89	0
2/9/2019 17:15	7.474	335.4	14.46	-1.595	28.89	0
2/9/2019 17:30	7.218	343.8	13.14	-1.742	28.89	0
2/9/2019 17:45	6.585	357.6	17.24	-2.116	28.89	0
2/9/2019 18:00	4.453	337.7	29.77	-2.135	28.92	0
2/9/2019 18:15	6.127	18.12	8.66	-2.207	28.92	0
2/9/2019 18:30	5.798	19.1	7.688	-2.45	28.92	0
2/9/2019 18:45	6.714	17.29	7.974	-2.66	28.92	0
2/9/2019 19:00	6.482	15.23	10.58	-2.674	28.94	0
2/9/2019 19:15	5.402	8.52	14.75	-2.58	28.94	0

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2/9/2019 19:30	4.431	26.87	7.8	-3.223	28.94	0
2/9/2019 19:45	5.976	20.16	11.03	-3.256	28.94	0
2/9/2019 20:00	6.408	11.66	8.49	-3.4	28.96	0
2/9/2019 20:15	5.257	5.016	12.15	-3.385	28.96	0
2/9/2019 20:30	5.8	12.3	9.76	-3.574	28.96	0
2/9/2019 20:45	5.14	19.75	6.8	-3.844	28.96	0
2/9/2019 21:00	4.678	19.54	6.731	-3.743	28.97	0
2/9/2019 21:15	4.216	0.529	15.64	-3.692	28.97	0
2/9/2019 21:30	5.896	337.7	11.42	-4.248	28.97	0
2/9/2019 21:45	5.736	348.5	13.72	-3.824	28.97	0
2/9/2019 22:00	5.942	2.06	14.67	-3.861	28.98	0
2/9/2019 22:15	5.641	357.3	16.67	-4.19	28.98	0
2/9/2019 22:30	5.46	9.22	13.53	-3.814	28.98	0
2/9/2019 22:45	6.023	355.8	21.02	-4.017	28.98	0
2/9/2019 23:00	4.798	355.4	19.96	-3.767	28.99	0
2/9/2019 23:15	7.398	16.84	10.46	-3.928	28.99	0
2/9/2019 23:30	7.277	10.94	12.51	-4.183	28.99	0
2/9/2019 23:45	5.628	15.55	11.36	-4.246	28.99	0
2/10/2019 0:00	5.297	2.947	14.36	-4.519	29	0
2/10/2019 0:15	4.645	16.25	11.32	-4.566	29	0
2/10/2019 0:30	6.367	11.05	7.954	-4.777	29	0
2/10/2019 0:45	6.319	9.4	13.56	-4.476	29	0
2/10/2019 1:00	6.059	348	20.6	-4.338	29	0
2/10/2019 1:15	9.89	7.932	12.04	-4.046	29	0
2/10/2019 1:30	8.71	9.3	11.07	-4.249	29	0
2/10/2019 1:45	8.4	6.455	12.62	-4.227	29	0
2/10/2019 2:00	10	12.28	17.6	-3.882	29	0
2/10/2019 2:15	10.05	15.95	14.87	-4.107	29	0
2/10/2019 2:30	7.585	15.27	16	-4.509	29	0
2/10/2019 2:45	6.477	355.5	18.31	-4.286	29	0
2/10/2019 3:00	7.594	348.2	14.17	-3.411	29	0
2/10/2019 3:15	8.25	344.7	14.39	-3.609	29	0
2/10/2019 3:30	8.7	359.7	16.62	-3.744	29	0
2/10/2019 3:45	4.833	24.31	19.8	-4.934	29	0
2/10/2019 4:00	2.117	31.98	20.23	-5.365	28.99	0
2/10/2019 4:15	4.392	19.64	28.53	-4.787	28.99	0
2/10/2019 4:30	5.195	29.19	16.25	-4.991	28.99	0
2/10/2019 4:45	5.138	14.01	18.15	-4.828	28.99	0
2/10/2019 5:00	3.366	39.58	16.7	-4.89	28.99	0
2/10/2019 5:15	2.763	135	48.17	-4.898	28.99	0
2/10/2019 5:30	2.407	312.9	68.07	-4.66	28.99	0
2/10/2019 5:45	0.777	48.64	26.49	-4.374	28.99	0
2/10/2019 6:00	3.478	173.7	14.2	-6.127	29	0
2/10/2019 6:15	3.263	143.1	19.71	-6.146	29	0
2/10/2019 6:30	3.552	125.1	10.45	-6.739	29	0
2/10/2019 6:45	5.735	119.3	6.534	-6.115	29	0
2/10/2019 7:00	4.987	125.6	8.51	-5.982	28.99	0
2/10/2019 7:15	3.378	150.3	7.103	-5.787	28.99	0
2/10/2019 7:30	4.13	134.5	14.32	-5.942	28.99	0
2/10/2019 7:45	4.699	126.3	5.087	-6.626	28.99	0
2/10/2019 8:00	4.17	118.5	5.331	-5.903	28.99	0
2/10/2019 8:15	1.977	118.1	2.761	-4.931	28.99	0
2/10/2019 8:30	3.611	115.3	6.509	-4.691	28.99	0
2/10/2019 8:45	3.755	115.1	6.574	-4.747	28.99	0
2/10/2019 9:00	2.815	106.6	4.356	-4.201	28.99	0
2/10/2019 9:15	1.946	139.7	16.97	-3.968	28.99	0
2/10/2019 9:30	2.818	143.4	7.843	-3.763	28.99	0
2/10/2019 9:45	4.221	138.9	7.132	-3.986	28.99	0
2/10/2019 10:00	3.743	153.3	15.53	-3.454	29	0
2/10/2019 10:15	4.485	152.5	10.77	-3.014	29	0
2/10/2019 10:30	6.613	147.9	8.39	-2.926	29	0
2/10/2019 10:45	9.13	147.2	9.65	-2.69	29	0
2/10/2019 11:00	8.88	143.8	10.82	-2.331	29	0
2/10/2019 11:15	9.25	157.4	14.91	-2.101	29	0
2/10/2019 11:30	11.29	169	13.08	-2.033	29	0
2/10/2019 11:45	9.72	156.9	16.41	-1.965	29	0

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2/10/2019 12:00	7.464	179.4	15.76	-1.494	28.98	0
2/10/2019 12:15	7.785	191.3	13.54	-1.268	28.98	0
2/10/2019 12:30	11.34	186	12.13	-0.965	28.98	0
2/10/2019 12:45	13.24	181.1	9.89	-0.726	28.98	0
2/10/2019 13:00	13.21	176.7	8.72	-0.659	28.96	0
2/10/2019 13:15	10.74	182.2	9.64	-0.493	28.96	0
2/10/2019 13:30	13.86	184.8	7.824	-0.453	28.96	0
2/10/2019 13:45	13.3	176.7	9.12	-0.491	28.96	0
2/10/2019 14:00	13.2	170.5	9.18	-0.524	28.93	0
2/10/2019 14:15	13.5	165.4	9.2	-0.435	28.93	0
2/10/2019 14:30	12.27	167	7.905	-0.356	28.93	0
2/10/2019 14:45	13.31	156.8	10.75	-0.309	28.93	0
2/10/2019 15:00	16.64	149.2	8.14	-0.347	28.87	0
2/10/2019 15:15	14.9	147.4	8.16	-0.16	28.87	0
2/10/2019 15:30	15.75	149.5	7.576	0.148	28.87	0
2/10/2019 15:45	12.54	156.7	8.42	0.278	28.87	0
2/10/2019 16:00	13.42	161.6	12.33	0.28	28.86	0
2/10/2019 16:15	18.51	166.3	13.39	0.087	28.86	0
2/10/2019 16:30	17.14	167.9	9.21	-0.638	28.86	0
2/10/2019 16:45	11.78	157.8	12.26	-1.109	28.86	0
2/10/2019 17:00	11.4	137.1	12.03	-1.423	28.81	0
2/10/2019 17:15	8.11	113.2	9.33	-1.37	28.81	0
2/10/2019 17:30	9.39	115.5	9.73	-1.19	28.81	0
2/10/2019 17:45	12.12	120.6	8.68	-0.638	28.81	0
2/10/2019 18:00	12.85	129.2	9.27	-0.178	28.73	0
2/10/2019 18:15	11.04	134.4	8.77	-0.015	28.73	0
2/10/2019 18:30	12.05	144.1	8.36	0.414	28.73	0
2/10/2019 18:45	15.27	160.4	11.45	1.099	28.73	0
2/10/2019 19:00	15.99	165.7	16.19	1.092	28.71	0
2/10/2019 19:15	15.97	167.8	10.69	1.116	28.71	0
2/10/2019 19:30	16.68	171	9.77	-0.004	28.71	0
2/10/2019 19:45	16.3	174.4	7.903	-0.118	28.71	0
2/10/2019 20:00	13.92	197.3	12.81	-0.121	28.72	0
2/10/2019 20:15	17.44	183.3	10.06	-0.217	28.72	0
2/10/2019 20:30	18.71	177.9	7.696	-0.256	28.72	0
2/10/2019 20:45	19.11	176.5	8.57	-0.149	28.72	0
2/10/2019 21:00	19.27	180.8	7.995	0.033	28.72	0
2/10/2019 21:15	19.13	184.1	8.07	0.143	28.72	0
2/10/2019 21:30	17.39	175.7	10.31	0.066	28.72	0
2/10/2019 21:45	17.36	180.2	8.65	0.038	28.72	0
2/10/2019 22:00	13.47	186.3	8.22	-0.008	28.76	0
2/10/2019 22:15	12.64	173.6	10.39	0.055	28.76	0
2/10/2019 22:30	9.65	204.7	27.21	0.099	28.76	0
2/10/2019 22:45	14.07	192.1	7.576	0.206	28.76	0
2/10/2019 23:00	13.24	199.5	8.09	0.214	28.78	0
2/10/2019 23:15	12.36	204.4	6.753	0.183	28.78	0
2/10/2019 23:30	8.82	229.3	13.67	0.097	28.78	0
2/10/2019 23:45	6.629	244.3	13.3	-0.031	28.78	0
2/11/2019 0:00	4.796	255.4	20.15	-0.158	28.79	0
2/11/2019 0:15	7.068	238.7	33.14	-0.122	28.79	0
2/11/2019 0:30	11.86	314.1	13.26	-0.758	28.79	0
2/11/2019 0:45	9.11	330.4	10.64	-1.322	28.79	0
2/11/2019 1:00	7.242	312.2	5.956	-1.521	28.84	0
2/11/2019 1:15	8.89	316.1	7.715	-1.621	28.84	0
2/11/2019 1:30	5.612	337	19.38	-1.711	28.84	0
2/11/2019 1:45	3.613	328.9	32.32	-1.711	28.84	0
2/11/2019 2:00	1.078	36.37	21.95	-1.893	28.87	0
2/11/2019 2:15	3.492	28.37	9.72	-1.86	28.87	0
2/11/2019 2:30	2.203	327.2	30.32	-1.829	28.87	0
2/11/2019 2:45	2.861	335.3	37.18	-2.059	28.87	0
2/11/2019 3:00	3.682	19.2	13.72	-2.052	28.88	0
2/11/2019 3:15	5.224	9.73	14.92	-1.86	28.88	0
2/11/2019 3:30	4.362	15.84	17.89	-1.854	28.88	0
2/11/2019 3:45	5.204	22.93	12.11	-2.006	28.88	0
2/11/2019 4:00	5.724	29.48	10.29	-2.223	28.9	0
2/11/2019 4:15	3.97	25.04	10.46	-2.244	28.9	0



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2/11/2019 4:30	3.039	77.62	23.53	-2.157	28.9	0
2/11/2019 4:45	2.085	84.1	9.12	-2.207	28.9	0
2/11/2019 5:00	2.221	95.1	1.436	-2.217	28.93	0
2/11/2019 5:15	1.073	97.9	3.594	-2.202	28.93	0
2/11/2019 5:30	1.08	34.23	20.95	-2.294	28.93	0
2/11/2019 5:45	2.357	48.77	6.882	-2.523	28.93	0
2/11/2019 6:00	1.767	32.86	11.37	-2.622	28.94	0
2/11/2019 6:15	2.084	9.14	5.41	-2.523	28.94	0
2/11/2019 6:30	2.134	3.507	23.32	-2.405	28.94	0
2/11/2019 6:45	3.059	43.99	9.98	-2.553	28.94	0
2/11/2019 7:00	2.872	31.45	24.17	-2.612	28.92	0
2/11/2019 7:15	3.547	72.01	21.27	-2.081	28.92	0
2/11/2019 7:30	4.042	80.7	18.78	-1.696	28.92	0
2/11/2019 7:45	4.155	85	19.25	-1.076	28.92	0
2/11/2019 8:00	2.462	66.52	11.06	-1.586	28.92	0
2/11/2019 8:15	2.971	61.28	17.82	-1.071	28.92	0
2/11/2019 8:30	2.994	79.78	19.52	-1.008	28.92	0
2/11/2019 8:45	3.811	95.8	14.5	-0.575	28.92	0
2/11/2019 9:00	3.226	104.8	14.84	-0.832	28.91	0
2/11/2019 9:15	2.434	79.76	15.57	-1.24	28.91	0
2/11/2019 9:30	2.848	87.5	20.39	-1.658	28.91	0
2/11/2019 9:45	3.295	110.4	10.47	-1.14	28.91	0
2/11/2019 10:00	6.164	135.4	9.71	-0.323	28.94	0
2/11/2019 10:15	7.019	139.7	10.68	0.195	28.94	0
2/11/2019 10:30	7.587	136.2	10.44	0.565	28.94	0
2/11/2019 10:45	5.998	154.4	15.65	0.628	28.94	0
2/11/2019 11:00	6.382	149.8	10.3	0.897	28.94	0
2/11/2019 11:15	6.82	139	9.31	1.096	28.94	0
2/11/2019 11:30	8.31	134.1	11.73	1.285	28.94	0
2/11/2019 11:45	7.954	138.8	10.33	1.234	28.94	0
2/11/2019 12:00	7.887	138.6	10.32	1.091	28.91	0
2/11/2019 12:15	9.29	145.4	9.91	0.985	28.91	0
2/11/2019 12:30	9.15	145.4	11.57	0.769	28.91	0
2/11/2019 12:45	7.541	128.8	14.71	0.687	28.91	0
2/11/2019 13:00	5.938	109.6	11.75	0.453	28.9	0
2/11/2019 13:15	4.252	107.2	12.37	0.281	28.9	0
2/11/2019 13:30	4.449	120.9	13.8	0.224	28.9	0
2/11/2019 13:45	4.47	88.8	19.72	0.095	28.9	0
2/11/2019 14:00	9.17	131.5	15.02	0.111	28.85	0
2/11/2019 14:15	13.9	133	11.31	-0.175	28.85	0
2/11/2019 14:30	14.96	134.3	11.96	-0.513	28.85	0
2/11/2019 14:45	15.49	134	10.39	-0.62	28.85	0
2/11/2019 15:00	17.47	132.8	9.47	-0.63	28.85	0
2/11/2019 15:15	18.53	133.9	9.89	-0.698	28.85	0
2/11/2019 15:30	15.84	134.5	10.66	-0.819	28.85	0
2/11/2019 15:45	14.25	132.8	10.34	-0.292	28.85	0
2/11/2019 16:00	14.66	130.4	10.17	-0.082	28.83	0
2/11/2019 16:15	15.46	131.9	10.18	-0.168	28.83	0
2/11/2019 16:30	13.29	132.6	9.24	-0.352	28.83	0
2/11/2019 16:45	13.21	131.8	9.55	-0.469	28.83	0
2/11/2019 17:00	14.16	129	9.93	-0.665	28.82	0
2/11/2019 17:15	15.05	131.3	10.44	-0.666	28.82	0
2/11/2019 17:30	16.77	133.9	9.76	-0.743	28.82	0
2/11/2019 17:45	17.02	132.5	9.42	-1.142	28.82	0
2/11/2019 18:00	16.94	133.4	9.96	-1.2	28.84	0
2/11/2019 18:15	17.9	134.4	9.52	-1.153	28.84	0
2/11/2019 18:30	16.57	129.8	10.28	-1.279	28.84	0
2/11/2019 18:45	16.27	131.8	9.3	-0.901	28.84	0
2/11/2019 19:00	16.96	132.4	9.41	-0.706	28.83	0
2/11/2019 19:15	16.54	133.7	9.29	-0.604	28.83	0
2/11/2019 19:30	15.07	133.3	9.97	-0.618	28.83	0
2/11/2019 19:45	14.79	131.9	9.95	-0.78	28.83	0
2/11/2019 20:00	12.41	132.3	9.83	-0.942	28.82	0
2/11/2019 20:15	11.45	133.8	9.19	-1.156	28.82	0
2/11/2019 20:30	11.44	132	10.14	-1.148	28.82	0
2/11/2019 20:45	10.12	130.4	9.5	-1.136	28.82	0

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2/11/2019 21:00	9.41	132.6	9.55	-0.9	28.84	0
2/11/2019 21:15	8.44	130.8	9.17	-1.13	28.84	0
2/11/2019 21:30	5.443	128.2	8.54	-1.112	28.84	0
2/11/2019 21:45	3.587	150.4	14.26	-1.191	28.84	0
2/11/2019 22:00	3.39	155.1	24.5	-1.489	28.87	0
2/11/2019 22:15	3.075	150.5	13.3	-1.335	28.87	0
2/11/2019 22:30	2.414	163.3	15.22	-1.377	28.87	0
2/11/2019 22:45	3.268	137.2	10.53	-1.268	28.87	0
2/11/2019 23:00	3.48	135	9.83	-1.031	28.86	0
2/11/2019 23:15	3.761	133.5	10.55	-0.982	28.86	0
2/11/2019 23:30	3.683	137.5	10.04	-1.043	28.86	0
2/11/2019 23:45	3.966	143.4	10.31	-1.288	28.86	0
2/12/2019 0:00	3.512	149.7	11.19	-1.312	28.88	0
2/12/2019 0:15	3.567	142.9	11.99	-1.306	28.88	0
2/12/2019 0:30	3.2	146.2	10.08	-1.138	28.88	0
2/12/2019 0:45	3.238	149.1	12.78	-1.185	28.88	0
2/12/2019 1:00	3.249	149.6	9.59	-1.233	28.89	0
2/12/2019 1:15	3.716	134.3	8.97	-0.988	28.89	0
2/12/2019 1:30	3.677	134.8	9.55	-0.808	28.89	0
2/12/2019 1:45	3.675	142.3	10.38	-0.709	28.89	0
2/12/2019 2:00	3.883	142.9	10.12	-0.705	28.86	0
2/12/2019 2:15	4.099	139.4	10.58	-0.549	28.86	0
2/12/2019 2:30	3.694	137.2	10.73	-0.492	28.86	0
2/12/2019 2:45	3.005	140.5	11.98	-0.477	28.86	0
2/12/2019 3:00	3.479	129.2	11.27	-0.319	28.86	0
2/12/2019 3:15	3.212	120	8.02	-0.163	28.86	0
2/12/2019 3:30	2.93	119.3	8.06	-0.077	28.86	0
2/12/2019 3:45	3.391	130.4	10.24	-0.098	28.86	0
2/12/2019 4:00	2.711	118.7	9.03	0.054	28.87	0
2/12/2019 4:15	2.515	141.4	19.67	0.135	28.87	0
2/12/2019 4:30	3.074	143.7	11.26	0.117	28.87	0
2/12/2019 4:45	3.243	138.3	10.76	0.124	28.87	0
2/12/2019 5:00	3.307	129.1	12.62	0.179	28.86	0
2/12/2019 5:15	2.709	143.1	13.88	0.223	28.86	0
2/12/2019 5:30	3.175	141.6	11.52	0.124	28.86	0
2/12/2019 5:45	3.183	137.3	9.24	0.115	28.86	0
2/12/2019 6:00	2.494	142	11.84	0.182	28.86	0
2/12/2019 6:15	2.99	151.1	9.11	0.209	28.86	0
2/12/2019 6:30	2.742	150	10.79	0.165	28.86	0
2/12/2019 6:45	2.928	149	9.34	0.153	28.86	0
2/12/2019 7:00	3.191	150.5	9.34	0.185	28.87	0
2/12/2019 7:15	3.34	144.3	9.23	0.163	28.87	0
2/12/2019 7:30	2.677	124.9	24.75	0.206	28.87	0
2/12/2019 7:45	3.401	154.5	9.91	0.292	28.87	0
2/12/2019 8:00	3.54	151.5	9.29	0.284	28.84	0
2/12/2019 8:15	3.507	142.4	8.71	0.326	28.84	0
2/12/2019 8:30	3.715	139.4	9.24	0.396	28.84	0
2/12/2019 8:45	3.278	145.3	9.25	0.455	28.84	0
2/12/2019 9:00	2.171	134	14.39	0.512	28.86	0
2/12/2019 9:15	2.273	169.8	17.32	0.43	28.86	0
2/12/2019 9:30	2.424	187.4	12.48	0.108	28.86	0
2/12/2019 9:45	2.386	172.3	12.38	0.095	28.86	0
2/12/2019 10:00	2.361	159.7	14.66	0.167	28.87	0
2/12/2019 10:15	0.231	118.8	22.25	0.295	28.87	0
2/12/2019 10:30	0	0	0	0.424	28.87	0
2/12/2019 10:45	7.952	179.9	17.04	0.315	28.87	0
2/12/2019 11:00	7.291	150.8	15.02	0.138	28.85	0
2/12/2019 11:15	7.219	131.3	8.51	0.414	28.85	0
2/12/2019 11:30	8.09	141.8	11.01	0.664	28.85	0
2/12/2019 11:45	7.975	149.2	8.67	0.682	28.85	0
2/12/2019 12:00	7.465	138.9	10.7	0.659	28.87	0
2/12/2019 12:15	6.577	138.1	14.31	0.709	28.87	0
2/12/2019 12:30	5.902	141.2	9.28	0.788	28.87	0
2/12/2019 12:45	6.39	141	12.14	0.98	28.87	0
2/12/2019 13:00	5.912	139.3	10.83	0.978	28.85	0
2/12/2019 13:15	5.499	160.7	13.98	0.822	28.85	0

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2/12/2019 13:30	5.848	158.9	10.12	0.425	28.85	0
2/12/2019 13:45	6.068	145.6	5.505	0.333	28.85	0
2/12/2019 14:00	5.505	138.4	6.368	0.271	28.88	0
2/12/2019 14:15	5.166	130	8.38	0.286	28.88	0
2/12/2019 14:30	5.403	123.4	6.601	0.273	28.88	0
2/12/2019 14:45	7.117	126.5	6.37	0.305	28.88	0
2/12/2019 15:00	6.968	130.9	7.63	0.264	28.87	0
2/12/2019 15:15	6.042	131.8	7.505	0.233	28.87	0
2/12/2019 15:30	5.27	126.7	7.675	0.239	28.87	0
2/12/2019 15:45	7.153	126.1	6.329	0.328	28.87	0
2/12/2019 16:00	6.904	121	7.747	0.517	28.87	0
2/12/2019 16:15	7.222	122.4	15	0.756	28.87	0
2/12/2019 16:30	7.338	134	11.24	0.921	28.87	0
2/12/2019 16:45	7.384	132.3	8.4	1.159	28.87	0
2/12/2019 17:00	8.35	133	8.22	1.302	28.88	0
2/12/2019 17:15	9.1	136.5	7.221	1.591	28.88	0
2/12/2019 17:30	6.974	137.6	9.64	1.737	28.88	0
2/12/2019 17:45	6.663	139.8	9.28	1.964	28.88	0
2/12/2019 18:00	6.922	146.8	8.4	1.999	28.87	0
2/12/2019 18:15	7.753	144.6	7.505	2.061	28.87	0
2/12/2019 18:30	7.291	144.1	8.52	2.185	28.87	0
2/12/2019 18:45	6.064	139.8	8.1	2.254	28.87	0
2/12/2019 19:00	6.053	142.1	7.258	2.274	28.91	0
2/12/2019 19:15	6.081	142.1	7.143	2.24	28.91	0
2/12/2019 19:30	5.8	144.2	5.448	2.312	28.91	0
2/12/2019 19:45	6.237	154.5	9.81	2.38	28.91	0
2/12/2019 20:00	5.281	161.9	5.985	2.426	28.88	0
2/12/2019 20:15	4.266	153.6	7.314	2.368	28.88	0
2/12/2019 20:30	3.799	143.1	7.915	2.372	28.88	0
2/12/2019 20:45	3.41	134.6	10.06	2.382	28.88	0
2/12/2019 21:00	4.497	135.9	7.211	2.657	28.89	0.01
2/12/2019 21:15	4.334	130.3	5.734	2.725	28.89	0
2/12/2019 21:30	4.902	130.2	9.12	2.438	28.89	0
2/12/2019 21:45	3.929	135.5	6.656	2.331	28.89	0
2/12/2019 22:00	2.627	130	4.309	2.305	28.87	0.02
2/12/2019 22:15	2.058	132	9.46	2.284	28.87	0
2/12/2019 22:30	3.363	153.4	10.77	2.238	28.87	0
2/12/2019 22:45	3.958	145.6	14.47	2.138	28.87	0
2/12/2019 23:00	3.693	150.3	11.79	1.8	28.87	0.02
2/12/2019 23:15	3.285	131.3	11.77	1.791	28.87	0
2/12/2019 23:30	3.521	125.5	7.131	1.949	28.87	0
2/12/2019 23:45	3.113	129.3	9.14	2.063	28.87	0
2/13/2019 0:00	1.117	151.9	11.57	2.183	28.85	0
2/13/2019 0:15	1.731	169	14.9	2.388	28.85	0.01
2/13/2019 0:30	1.146	167	17.26	2.57	28.85	0.01
2/13/2019 0:45	1.766	192.4	14.27	2.544	28.85	0
2/13/2019 1:00	1.147	149.8	21.95	2.017	28.84	0
2/13/2019 1:15	1.468	110.7	6.272	1.527	28.84	0
2/13/2019 1:30	1.122	121	28.85	1.911	28.84	0
2/13/2019 1:45	2.32	146.3	26.92	1.983	28.84	0
2/13/2019 2:00	1.541	141.3	20.66	1.826	28.82	0.01
2/13/2019 2:15	1.928	129.3	6.4	1.798	28.82	0.01
2/13/2019 2:30	3.34	139.8	11.33	1.639	28.82	0
2/13/2019 2:45	5.274	155.9	11.41	1.066	28.82	0
2/13/2019 3:00	5.442	130.8	8.16	1.03	28.8	0.02
2/13/2019 3:15	4.252	120.7	7.319	0.978	28.8	0
2/13/2019 3:30	2.189	109.3	6.334	0.84	28.8	0
2/13/2019 3:45	3.13	115.6	6.655	0.842	28.8	0.02
2/13/2019 4:00	4.495	109.2	7.423	1.003	28.79	0
2/13/2019 4:15	4.827	117.4	7.78	1.193	28.79	0
2/13/2019 4:30	3.053	118.1	6.895	1.27	28.79	0
2/13/2019 4:45	1.684	122.1	5.605	1.273	28.79	0
2/13/2019 5:00	2.475	149	15.81	1.551	28.79	0.02
2/13/2019 5:15	2.869	155.9	18.08	1.367	28.79	0
2/13/2019 5:30	3.845	189.5	13.06	1.396	28.79	0
2/13/2019 5:45	3.578	170.4	15.04	1.213	28.79	0

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2/13/2019 6:00	2.93	147.8	6.873	1.221	28.78	0
2/13/2019 6:15	2.501	145.1	23.32	1.151	28.78	0.01
2/13/2019 6:30	4.619	207.8	16.56	1.196	28.78	0.01
2/13/2019 6:45	4.276	219.5	7.315	0.904	28.78	0
2/13/2019 7:00	4.252	205.1	5.517	1.104	28.78	0
2/13/2019 7:15	3.58	190.2	10.72	0.89	28.78	0
2/13/2019 7:30	3.547	152.8	18.2	0.906	28.78	0
2/13/2019 7:45	2.433	124.5	11.79	0.83	28.78	0.01
2/13/2019 8:00	1.763	127.2	7.743	0.7	28.77	0.01
2/13/2019 8:15	1.918	116.9	3.676	0.737	28.77	0
2/13/2019 8:30	2.377	106.9	6.292	0.739	28.77	0
2/13/2019 8:45	1.334	102	14.88	0.848	28.77	0
2/13/2019 9:00	1.746	154.3	9.07	1.092	28.8	0
2/13/2019 9:15	1.246	162.8	10.43	1.121	28.8	0
2/13/2019 9:30	1.387	117.4	18.81	1.21	28.8	0.01
2/13/2019 9:45	1.249	102.8	0.217	1.296	28.8	0.01
2/13/2019 10:00	0.155	103	0.314	1.386	28.79	0
2/13/2019 10:15	0.065	104.5	0.012	1.781	28.79	0
2/13/2019 10:30	0.01	104.5	0.004	2.505	28.79	0.01
2/13/2019 10:45	0.329	104.5	0.108	1.929	28.79	0.01
2/13/2019 11:00	1.517	104.5	0.239	1.534	28.8	0.01
2/13/2019 11:15	0.387	104.5	0.151	2.472	28.8	0.01
2/13/2019 11:30	0.212	65.96	26.11	3.331	28.8	0.02
2/13/2019 11:45	1.167	328.9	9.49	2.183	28.8	0
2/13/2019 12:00	1.302	14.44	12.68	2.35	28.8	0.02
2/13/2019 12:15	0.345	21.98	0.029	3.374	28.8	0
2/13/2019 12:30	0.863	23.29	4.028	3.333	28.8	0.02
2/13/2019 12:45	3.389	24.44	7.685	2.504	28.8	0
2/13/2019 13:00	1.733	355.3	21.2	3.251	28.77	0
2/13/2019 13:15	0.494	325.3	0.121	2.836	28.77	0
2/13/2019 13:30	1.98	307.6	13.32	2.96	28.77	0
2/13/2019 13:45	2.316	307.5	7.046	2.976	28.77	0
2/13/2019 14:00	4.79	312.2	6.506	2.842	28.77	0
2/13/2019 14:15	6.636	352.6	21.05	2.08	28.77	0
2/13/2019 14:30	6.14	15.36	13.08	1.762	28.77	0.01
2/13/2019 14:45	6.939	19.94	9.72	1.621	28.77	0.02
2/13/2019 15:00	8.68	19.91	7.528	1.512	28.76	0.01
2/13/2019 15:15	8.73	20.17	9.54	1.473	28.76	0.01
2/13/2019 15:30	7.158	21.98	7.871	1.537	28.76	0.02
2/13/2019 15:45	6.179	19.41	8.27	1.642	28.76	0.01
2/13/2019 16:00	7.093	16.77	8.08	1.571	28.75	0.01
2/13/2019 16:15	6.156	15.96	9.47	1.513	28.75	0.01
2/13/2019 16:30	8.16	20.57	7.121	1.343	28.75	0.01
2/13/2019 16:45	8.09	15.9	7.654	1.441	28.75	0
2/13/2019 17:00	6.248	8.07	10.78	1.401	28.77	0.01
2/13/2019 17:15	7.839	1.827	14.64	1.443	28.77	0.01
2/13/2019 17:30	8.46	5.164	15.73	1.42	28.77	0
2/13/2019 17:45	6.425	9.2	11.74	1.287	28.77	0
2/13/2019 18:00	7.671	9.84	11.59	1.342	28.74	0.01
2/13/2019 18:15	9.64	7.166	13.99	1.24	28.74	0
2/13/2019 18:30	8.84	9.76	13.59	1.182	28.74	0
2/13/2019 18:45	10.8	11.29	12.38	1.1	28.74	0
2/13/2019 19:00	8.91	13.48	12.7	1.076	28.75	0
2/13/2019 19:15	9.15	16.8	9.99	1.114	28.75	0
2/13/2019 19:30	7.025	28.39	12.85	0.968	28.75	0
2/13/2019 19:45	7.819	25.51	9.92	0.747	28.75	0
2/13/2019 20:00	8.11	24.97	10.59	0.662	28.73	0
2/13/2019 20:15	6.617	29.9	11.89	0.494	28.73	0
2/13/2019 20:30	7.738	27.51	9.06	0.331	28.73	0
2/13/2019 20:45	7.666	29.45	10.53	0.15	28.73	0
2/13/2019 21:00	8.03	27.66	9.24	0.146	28.73	0
2/13/2019 21:15	7.759	30.56	10.05	0.13	28.73	0
2/13/2019 21:30	7.237	33.35	8.76	0	28.73	0
2/13/2019 21:45	6.538	28.22	7.249	-0.137	28.73	0
2/13/2019 22:00	6.345	26.4	7.062	-0.318	28.7	0
2/13/2019 22:15	5.905	23.62	6.84	-0.4	28.7	0

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2/13/2019 22:30	4.908	21.77	7.827	-0.539	28.7	0
2/13/2019 22:45	5.192	22.13	8.57	-0.59	28.7	0
2/13/2019 23:00	4.432	19.73	11.64	-0.662	28.68	0
2/13/2019 23:15	4.715	30.39	13.24	-0.733	28.68	0
2/13/2019 23:30	3.183	31.94	27.18	-0.767	28.68	0
2/13/2019 23:45	3.213	30.25	20.85	-0.879	28.68	0
2/14/2019 0:00	3.044	25.76	18.76	-0.449	28.67	0
2/14/2019 0:15	3.117	37.02	26.98	-0.174	28.67	0
2/14/2019 0:30	3.948	31.46	27.07	-0.147	28.67	0
2/14/2019 0:45	2.504	40.43	24.71	1.046	28.67	0
2/14/2019 1:00	3.926	95.2	33.16	1.92	28.64	0
2/14/2019 1:15	4.437	135.8	12.97	2.488	28.64	0
2/14/2019 1:30	3.56	124.2	17.75	2.736	28.64	0
2/14/2019 1:45	2.952	151.6	20.52	2.649	28.64	0
2/14/2019 2:00	4.678	152.8	16.78	2.548	28.6	0
2/14/2019 2:15	5.465	111.7	21.75	2.485	28.6	0
2/14/2019 2:30	3.462	104.5	23.76	1.953	28.6	0
2/14/2019 2:45	3.161	130.6	12.84	2.457	28.6	0
2/14/2019 3:00	4.82	125.4	14.77	2.647	28.57	0
2/14/2019 3:15	6.964	126.9	14.77	2.408	28.57	0
2/14/2019 3:30	6.978	124.7	11.87	2.477	28.57	0
2/14/2019 3:45	7.904	105.9	12.34	2.925	28.57	0
2/14/2019 4:00	7.467	106.4	12.15	2.968	28.56	0
2/14/2019 4:15	7.481	107.9	13.86	3.391	28.56	0
2/14/2019 4:30	8.05	112.7	14.12	3.886	28.56	0
2/14/2019 4:45	8.8	102.7	15.07	3.942	28.56	0
2/14/2019 5:00	8.4	105.2	17.29	4.22	28.49	0
2/14/2019 5:15	9.28	101.4	20.32	4.501	28.49	0
2/14/2019 5:30	8.47	112.6	20.15	4.503	28.49	0
2/14/2019 5:45	8.4	117	17.72	4.792	28.49	0
2/14/2019 6:00	8.96	92.8	18.6	4.778	28.46	0
2/14/2019 6:15	11.6	112.5	14.11	4.566	28.46	0
2/14/2019 6:30	12.54	112.7	13.71	4.668	28.46	0
2/14/2019 6:45	12	111.4	13.1	4.517	28.46	0
2/14/2019 7:00	13.65	115.5	13.73	4.563	28.44	0.01
2/14/2019 7:15	15.97	112.8	13.17	4.777	28.44	0
2/14/2019 7:30	12.85	105.3	13.95	4.665	28.44	0
2/14/2019 7:45	17.13	111.9	14.66	4.882	28.44	0
2/14/2019 8:00	15.07	109.7	12.72	5.003	28.42	0.02
2/14/2019 8:15	14.45	119.8	13.1	5.127	28.42	0
2/14/2019 8:30	13.7	121.7	11.41	5.329	28.42	0
2/14/2019 8:45	14.79	111.3	16.47	5.161	28.42	0.01
2/14/2019 9:00	13.21	128.3	15.81	5.187	28.41	0.01
2/14/2019 9:15	14.47	132.6	12.44	5.14	28.41	0.01
2/14/2019 9:30	12.36	132.7	11.98	4.945	28.41	0.01
2/14/2019 9:45	11.86	119.7	14.19	5.078	28.41	0.01
2/14/2019 10:00	9.7	110.6	13.77	5.032	28.4	0.01
2/14/2019 10:15	11.73	124.3	13.11	5.19	28.4	0
2/14/2019 10:30	12.04	109.3	14.91	5.495	28.4	0.01
2/14/2019 10:45	13.27	106.6	14.55	5.982	28.4	0.01
2/14/2019 11:00	14.3	105.1	16.64	6.305	28.36	0.02
2/14/2019 11:15	10.18	128.8	13.75	6.404	28.36	0.02
2/14/2019 11:30	13.52	122.3	11.59	6.955	28.36	0.02
2/14/2019 11:45	14.23	130.1	11.22	6.864	28.36	0.02
2/14/2019 12:00	11.5	125.1	14.04	6.958	28.29	0.02
2/14/2019 12:15	10.7	118.1	15.17	7.154	28.29	0.02
2/14/2019 12:30	11.49	119	14.21	7.08	28.29	0.02
2/14/2019 12:45	11.51	127.5	11.75	6.989	28.29	0.02
2/14/2019 13:00	12.65	131	14.91	6.926	28.29	0.02
2/14/2019 13:15	13.59	138.4	11.7	6.679	28.29	0.01
2/14/2019 13:30	14.77	140.9	12.06	6.373	28.29	0.02
2/14/2019 13:45	17.15	127.8	11.19	6.262	28.29	0.04
2/14/2019 14:00	14.22	126.5	14.12	5.993	28.3	0.02
2/14/2019 14:15	14.03	127.1	11.55	5.152	28.3	0.03
2/14/2019 14:30	12.62	127.2	10.45	4.169	28.3	0.06
2/14/2019 14:45	10.59	115.6	13.14	3.623	28.3	0.03

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2/14/2019 15:00	6.197	99.3	11.07	3.375	28.28	0.01
2/14/2019 15:15	4.174	99.7	13.44	3.53	28.28	0.02
2/14/2019 15:30	4.681	143.3	17.45	3.773	28.28	0.01
2/14/2019 15:45	9.45	119.9	13.73	4.152	28.28	0.01
2/14/2019 16:00	12.31	117.7	14.57	4.485	28.28	0.01
2/14/2019 16:15	16.96	128.7	13.15	4.697	28.28	0.02
2/14/2019 16:30	15.59	128	11.83	4.353	28.28	0.01
2/14/2019 16:45	15.15	132.7	11.34	4.197	28.28	0.01
2/14/2019 17:00	15.13	129	11.62	4.255	28.28	0.01
2/14/2019 17:15	16.89	134.5	9.78	4.545	28.28	0.01
2/14/2019 17:30	12.94	149.8	13.82	4.491	28.28	0.01
2/14/2019 17:45	10.34	167.8	10.76	4.276	28.28	0.01
2/14/2019 18:00	12.52	156.8	5.681	4.33	28.37	0
2/14/2019 18:15	10.13	155.4	5.691	4	28.37	0.01
2/14/2019 18:30	9.92	150.3	5.986	3.739	28.37	0
2/14/2019 18:45	10.26	153.5	5.555	3.457	28.37	0.01
2/14/2019 19:00	10.77	152.8	6.218	3.33	28.44	0.01
2/14/2019 19:15	11.47	162.6	11.1	3.458	28.44	0.01
2/14/2019 19:30	10.13	178.1	17.15	3.215	28.44	0.01
2/14/2019 19:45	9.58	163.9	11.32	3.079	28.44	0.01
2/14/2019 20:00	7.551	155.2	14.35	2.961	28.5	0.01
2/14/2019 20:15	8.21	124.1	10.75	2.83	28.5	0
2/14/2019 20:30	8.68	122.1	8.86	2.605	28.5	0.01
2/14/2019 20:45	6.408	123.5	8.06	2.888	28.5	0
2/14/2019 21:00	8.68	126.8	7.929	3.209	28.5	0
2/14/2019 21:15	7.569	126.6	7.268	3.258	28.5	0
2/14/2019 21:30	6.421	117.9	8.41	3.725	28.5	0
2/14/2019 21:45	5.734	112.3	8.83	3.685	28.5	0
2/14/2019 22:00	4.819	123.5	21.57	3.73	28.5	0
2/14/2019 22:15	5.797	133	18.6	3.748	28.5	0
2/14/2019 22:30	6.81	149.3	35.88	3.353	28.5	0
2/14/2019 22:45	5.252	119.8	16.03	3.356	28.5	0
2/14/2019 23:00	5.034	115.2	24.39	3.296	28.52	0
2/14/2019 23:15	1.615	28.15	18.77	2.273	28.52	0
2/14/2019 23:30	1.677	69.2	6.41	2.507	28.52	0
2/14/2019 23:45	3.598	123	15.25	3.013	28.52	0
2/15/2019 0:00	5.004	91.7	11.18	2.98	28.55	0
2/15/2019 0:15	4.496	140.8	16.54	2.73	28.55	0
2/15/2019 0:30	6.938	135.6	23.73	3.7	28.55	0
2/15/2019 0:45	3.627	114.5	60.38	2.625	28.55	0
2/15/2019 1:00	8.16	138.3	25.03	3.408	28.56	0
2/15/2019 1:15	7.554	103.8	9.34	3.299	28.56	0
2/15/2019 1:30	7.072	103.7	9.09	3.649	28.56	0
2/15/2019 1:45	5.95	98	11.08	3.804	28.56	0
2/15/2019 2:00	5.003	77.24	17.69	3.804	28.56	0
2/15/2019 2:15	4.988	105.5	72.3	3.178	28.56	0
2/15/2019 2:30	4.802	138.8	18.16	3.136	28.56	0
2/15/2019 2:45	4.797	122.1	20.43	3.274	28.56	0
2/15/2019 3:00	4.693	128.9	26.69	3.268	28.61	0.01
2/15/2019 3:15	4.449	175.3	38.34	3.349	28.61	0
2/15/2019 3:30	4.802	164.7	15.35	3.392	28.61	0
2/15/2019 3:45	4.595	136.8	12.98	3.461	28.61	0
2/15/2019 4:00	6.141	159.9	12.63	3.398	28.62	0
2/15/2019 4:15	5.082	135.5	26.09	3.473	28.62	0
2/15/2019 4:30	7.678	143.3	15.2	3.388	28.62	0
2/15/2019 4:45	3.48	92.3	17.98	3.261	28.62	0
2/15/2019 5:00	4.057	140.1	19.62	3.692	28.63	0
2/15/2019 5:15	6.356	163.9	22.07	3.443	28.63	0
2/15/2019 5:30	6.46	159.2	21.53	3.191	28.63	0
2/15/2019 5:45	6.166	151.5	17.05	3.238	28.63	0
2/15/2019 6:00	5.398	143.1	15.8	3.182	28.67	0
2/15/2019 6:15	4.046	113.6	16.26	3.343	28.67	0
2/15/2019 6:30	4.953	148.1	23.4	3.601	28.67	0
2/15/2019 6:45	5.287	153.1	13.77	3.497	28.67	0
2/15/2019 7:00	3.167	159.3	27.19	3.229	28.7	0
2/15/2019 7:15	3.657	140.5	22.08	3.555	28.7	0

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2/15/2019 7:30	5.381	135.2	9.09	3.425	28.7	0
2/15/2019 7:45	5.882	146.1	12.53	3.584	28.7	0
2/15/2019 8:00	6.052	149.2	9.02	3.551	28.71	0
2/15/2019 8:15	5.525	144.8	10.43	3.507	28.71	0
2/15/2019 8:30	4.294	155.5	21.59	3.465	28.71	0
2/15/2019 8:45	4.591	153.9	26.88	3.645	28.71	0
2/15/2019 9:00	4.747	151.6	10.27	3.94	28.73	0
2/15/2019 9:15	3.879	163.6	13.42	3.969	28.73	0
2/15/2019 9:30	3.831	173.3	19.7	4.06	28.73	0
2/15/2019 9:45	3.862	163.5	10	4.321	28.73	0
2/15/2019 10:00	3.637	175.4	16.56	4.212	28.76	0
2/15/2019 10:15	2.743	171.7	18.77	4.466	28.76	0
2/15/2019 10:30	3.048	155.2	11.48	4.787	28.76	0
2/15/2019 10:45	1.787	148.3	40.32	5.28	28.76	0
2/15/2019 11:00	3.551	191.6	14.15	5.375	28.79	0
2/15/2019 11:15	5.035	191	6.889	5.448	28.79	0
2/15/2019 11:30	4.461	203.7	11.6	5.512	28.79	0
2/15/2019 11:45	6.212	217	11.53	5.555	28.79	0
2/15/2019 12:00	17.42	219.8	8.21	4.997	28.82	0
2/15/2019 12:15	12.09	198.8	9.75	4.695	28.82	0.01
2/15/2019 12:30	9.01	190.2	10.39	4.534	28.82	0
2/15/2019 12:45	13.69	193.9	11.68	4.39	28.82	0.01
2/15/2019 13:00	11.08	191.6	10.38	4.042	28.84	0
2/15/2019 13:15	7.625	152.3	17.23	4.139	28.84	0
2/15/2019 13:30	5.904	135.5	11.38	4.755	28.84	0
2/15/2019 13:45	6.051	131.4	13.4	5.191	28.84	0
2/15/2019 14:00	5.32	139.3	26.76	5.436	28.85	0
2/15/2019 14:15	8.94	173.9	14.45	5.671	28.85	0
2/15/2019 14:30	9.72	185.9	16.38	5.894	28.85	0
2/15/2019 14:45	7.484	207.3	9	5.57	28.85	0
2/15/2019 15:00	4.619	191.2	12.88	5.895	28.84	0
2/15/2019 15:15	4.917	183.2	19.69	5.933	28.84	0
2/15/2019 15:30	7.123	194.1	12.29	6.301	28.84	0
2/15/2019 15:45	5.595	193.8	13.02	6.461	28.84	0
2/15/2019 16:00	4.169	227	9.57	6.866	28.85	0
2/15/2019 16:15	5.213	227.8	5.101	6.272	28.85	0
2/15/2019 16:30	4.526	218.7	8.73	6.447	28.85	0
2/15/2019 16:45	2.677	205	9.49	6.932	28.85	0
2/15/2019 17:00	2.777	214.4	14.64	6.819	28.86	0
2/15/2019 17:15	6.838	210	7.712	6.088	28.86	0
2/15/2019 17:30	4.514	260.8	38.4	5.778	28.86	0
2/15/2019 17:45	3.543	298.6	8.79	5.435	28.86	0
2/15/2019 18:00	3.731	318.6	3.832	5.432	28.86	0
2/15/2019 18:15	2.149	13.54	38.61	5.304	28.86	0
2/15/2019 18:30	3.524	110.1	7.281	4.678	28.86	0
2/15/2019 18:45	3.007	60.62	26.14	4.113	28.86	0
2/15/2019 19:00	4.465	45.23	7.362	3.963	28.87	0
2/15/2019 19:15	2.277	40.55	9.19	3.68	28.87	0
2/15/2019 19:30	2.925	138	25.98	3.3	28.87	0
2/15/2019 19:45	3.297	144.9	7.789	3.297	28.87	0
2/15/2019 20:00	1.32	123	12.52	3.784	28.88	0
2/15/2019 20:15	1.319	46.76	19.2	2.606	28.88	0
2/15/2019 20:30	2.915	103.1	34.06	2.615	28.88	0
2/15/2019 20:45	3.17	94	33.2	2.113	28.88	0
2/15/2019 21:00	3.23	140.3	19.77	2.677	28.86	0
2/15/2019 21:15	1.344	66.1	29.53	3.815	28.86	0
2/15/2019 21:30	2.388	69.41	17.11	2.449	28.86	0
2/15/2019 21:45	1.938	79.35	9.93	2.726	28.86	0
2/15/2019 22:00	2.8	91.8	6.911	3.44	28.89	0
2/15/2019 22:15	2.098	85.1	2.308	3.732	28.89	0
2/15/2019 22:30	1.627	103	19.32	4.15	28.89	0
2/15/2019 22:45	5.602	179.3	13.09	3.083	28.89	0
2/15/2019 23:00	5.228	143.8	18.36	3.526	28.89	0.01
2/15/2019 23:15	2.369	34.25	37.27	2.795	28.89	0
2/15/2019 23:30	3.468	23.78	5.48	3.003	28.89	0
2/15/2019 23:45	2.451	45.2	20.47	3.062	28.89	0

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2/16/2019 0:00	1.809	77.58	12.56	2.952	28.87	0
2/16/2019 0:15	2.641	51.67	22.14	3.507	28.87	0
2/16/2019 0:30	3.402	24.5	39.22	2.774	28.87	0
2/16/2019 0:45	5.302	186.3	14.8	2.146	28.87	0
2/16/2019 1:00	2.065	68.63	35.32	1.522	28.91	0
2/16/2019 1:15	2.777	347.4	27.96	1.699	28.91	0
2/16/2019 1:30	2.589	303.4	4.848	1.557	28.91	0
2/16/2019 1:45	3.205	312.5	7.038	2.075	28.91	0
2/16/2019 2:00	4.819	250.7	25.61	2.217	28.89	0
2/16/2019 2:15	4.275	220.8	10.37	2.327	28.89	0
2/16/2019 2:30	4.895	186.7	15.51	2.286	28.89	0
2/16/2019 2:45	2.575	134.8	22.81	1.928	28.89	0
2/16/2019 3:00	2.478	85.3	7.639	1.532	28.92	0
2/16/2019 3:15	2.341	73.09	3.64	1.9	28.92	0
2/16/2019 3:30	2.055	82.6	5.704	2.496	28.92	0
2/16/2019 3:45	1.583	81	0.193	2.715	28.92	0
2/16/2019 4:00	1.497	60.57	8.75	2.723	28.92	0
2/16/2019 4:15	0.705	56.55	0	3.044	28.92	0
2/16/2019 4:30	0.2	63.84	3.316	3.381	28.92	0
2/16/2019 4:45	0.01	91	0.005	3.316	28.92	0
2/16/2019 5:00	0.319	91	0.086	2.923	28.92	0
2/16/2019 5:15	0.352	90.9	0.146	2.514	28.92	0
2/16/2019 5:30	0.564	90.9	0.144	1.999	28.92	0
2/16/2019 5:45	0.709	87.6	9.54	1.645	28.92	0
2/16/2019 6:00	1.655	61.15	2.938	1.927	28.95	0
2/16/2019 6:15	0.219	63.92	0.059	1.96	28.95	0
2/16/2019 6:30	1.772	153.3	40.04	2.228	28.95	0
2/16/2019 6:45	2.334	155.2	4.943	2.354	28.95	0
2/16/2019 7:00	2.01	151.1	7.35	2.191	28.95	0
2/16/2019 7:15	1.756	161.3	16.13	1.848	28.95	0
2/16/2019 7:30	2.891	165.3	10.94	2.069	28.95	0
2/16/2019 7:45	4.747	177	4.011	1.711	28.95	0
2/16/2019 8:00	4.768	156.1	11.32	1.669	28.99	0
2/16/2019 8:15	4.66	153.9	8.23	1.74	28.99	0
2/16/2019 8:30	2.615	137.8	28.48	1.695	28.99	0
2/16/2019 8:45	0.751	78.17	40.88	1.841	28.99	0
2/16/2019 9:00	1.08	30.56	1.977	1.991	28.99	0.01
2/16/2019 9:15	1.355	73.25	68.73	2.159	28.99	0
2/16/2019 9:30	1.382	161.3	53.91	2.147	28.99	0
2/16/2019 9:45	3.697	154.4	27.19	2.169	28.99	0
2/16/2019 10:00	4.233	158.6	5.997	2.18	28.99	0
2/16/2019 10:15	3.965	181.6	14.37	2.269	28.99	0
2/16/2019 10:30	3.261	179	9.53	2.278	28.99	0
2/16/2019 10:45	3.65	196.7	12.92	2.397	28.99	0
2/16/2019 11:00	2.422	172	9.58	2.426	29.02	0
2/16/2019 11:15	3.331	189	21.48	2.523	29.02	0
2/16/2019 11:30	4.28	204	4.509	2.503	29.02	0
2/16/2019 11:45	3.599	211.6	7.586	2.614	29.02	0.01
2/16/2019 12:00	3.061	218.1	5.753	2.835	29.03	0
2/16/2019 12:15	2.155	229.5	3.47	3.103	29.03	0
2/16/2019 12:30	0.308	222	8.13	3.71	29.03	0
2/16/2019 12:45	0.701	184.3	27.19	3.694	29.03	0
2/16/2019 13:00	3.264	198.3	14.14	3.291	29.02	0
2/16/2019 13:15	4.026	182.9	10.72	3.065	29.02	0
2/16/2019 13:30	3.486	187.9	13.95	3.064	29.02	0
2/16/2019 13:45	2.731	174.3	21.14	3.348	29.02	0
2/16/2019 14:00	2.379	142.2	14.8	3.606	29.02	0
2/16/2019 14:15	3.246	162.5	7.816	3.514	29.02	0
2/16/2019 14:30	2.467	135.9	11.59	3.532	29.02	0
2/16/2019 14:45	3.099	114.7	13.12	3.735	29.02	0
2/16/2019 15:00	3.871	99.9	10.33	3.56	29.01	0
2/16/2019 15:15	3.262	109.7	8.79	3.615	29.01	0
2/16/2019 15:30	3.318	106.1	8.72	3.619	29.01	0.01
2/16/2019 15:45	3.295	113.7	7.521	3.551	29.01	0
2/16/2019 16:00	2.401	82	23.13	3.49	29.01	0.03
2/16/2019 16:15	2.274	36.97	8.11	3.352	29.01	0.01



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2/16/2019 16:30	3.222	95.7	15.48	3.234	29.01	0
2/16/2019 16:45	4.979	123.6	4.599	3.079	29.01	0
2/16/2019 17:00	3.376	123.8	12.4	3.119	29.01	0.02
2/16/2019 17:15	6.036	221.3	14.77	2.542	29.01	0.03
2/16/2019 17:30	5.556	201.4	9.01	2.317	29.01	0.01
2/16/2019 17:45	8.54	213	6.933	2.14	29.01	0.01
2/16/2019 18:00	7.658	201.3	8.29	1.812	29.04	0.02
2/16/2019 18:15	3.571	143.2	53.57	1.566	29.04	0.03
2/16/2019 18:30	4.665	102.8	8.9	1.38	29.04	0.02
2/16/2019 18:45	4.396	106.4	6.126	1.337	29.04	0.01
2/16/2019 19:00	5.697	109.3	9.07	1.218	29.06	0.01
2/16/2019 19:15	4.824	128.2	10.01	1.096	29.06	0
2/16/2019 19:30	4.407	130.3	8.24	1.088	29.06	0
2/16/2019 19:45	5.055	136.3	8.83	1.091	29.06	0
2/16/2019 20:00	5.166	143.4	8.97	1.175	29.05	0
2/16/2019 20:15	5.821	142	8.56	1.318	29.05	0
2/16/2019 20:30	5.368	138.2	8.81	1.314	29.05	0
2/16/2019 20:45	4.677	128.4	7.757	1.214	29.05	0
2/16/2019 21:00	4.785	125.8	7.394	1.186	29.09	0
2/16/2019 21:15	5.757	130.2	8.34	1.225	29.09	0
2/16/2019 21:30	5.866	139.2	8.31	1.384	29.09	0
2/16/2019 21:45	4.847	141.9	7.447	1.4	29.09	0
2/16/2019 22:00	5.009	150.2	8.74	1.503	29.08	0.01
2/16/2019 22:15	5.141	146.5	7.721	1.482	29.08	0
2/16/2019 22:30	5.724	156.1	8.07	1.502	29.08	0
2/16/2019 22:45	4.334	139.2	10.38	1.402	29.08	0
2/16/2019 23:00	3.911	139.7	11.61	1.385	29.12	0
2/16/2019 23:15	4.481	167.6	11.15	1.487	29.12	0
2/16/2019 23:30	3.004	168.6	10.52	1.388	29.12	0
2/16/2019 23:45	2.656	159.6	9.38	1.151	29.12	0
2/17/2019 0:00	3.928	144.6	6.562	1.159	29.11	0
2/17/2019 0:15	3.99	142	5.94	1.204	29.11	0
2/17/2019 0:30	3.311	136.1	9.75	1.242	29.11	0
2/17/2019 0:45	2.418	151	10.04	1.24	29.11	0
2/17/2019 1:00	3.25	165.2	9.23	1.285	29.14	0
2/17/2019 1:15	5.163	156.2	4.095	1.469	29.14	0
2/17/2019 1:30	3.777	170.4	9.61	1.173	29.14	0
2/17/2019 1:45	4.081	186.6	8.08	1.113	29.14	0
2/17/2019 2:00	3.587	184.5	11.57	1.03	29.13	0
2/17/2019 2:15	3.048	196.4	8.97	1.108	29.13	0
2/17/2019 2:30	4.329	204.3	6.929	1.145	29.13	0
2/17/2019 2:45	3.18	186.6	19.12	1.233	29.13	0
2/17/2019 3:00	1.761	199.1	11.3	1.198	29.18	0
2/17/2019 3:15	0.661	226.8	13.8	1.114	29.18	0
2/17/2019 3:30	0.591	184.9	54.09	1.375	29.18	0
2/17/2019 3:45	0.98	97	6.005	1.228	29.18	0
2/17/2019 4:00	1.793	101.7	0.187	0.954	29.17	0
2/17/2019 4:15	2.538	111.5	11.34	0.553	29.17	0
2/17/2019 4:30	3.796	160.9	11.85	0.315	29.17	0
2/17/2019 4:45	3.517	188.2	9.71	0.111	29.17	0
2/17/2019 5:00	2.808	174.3	8.12	0.44	29.18	0
2/17/2019 5:15	2.209	184.7	3.15	0.947	29.18	0
2/17/2019 5:30	2.876	180.1	7.583	0.749	29.18	0
2/17/2019 5:45	2.449	156.4	8.46	0.339	29.18	0
2/17/2019 6:00	3.265	161.1	6.465	0.311	29.23	0
2/17/2019 6:15	2.672	160	10.43	0.472	29.23	0
2/17/2019 6:30	3.122	189.3	5.491	0.606	29.23	0
2/17/2019 6:45	0.871	191.1	4.726	0.388	29.23	0
2/17/2019 7:00	1.099	236.2	35.08	0.136	29.23	0
2/17/2019 7:15	1.057	295.6	20.49	0.214	29.23	0
2/17/2019 7:30	2.006	229.1	25.74	0.376	29.23	0
2/17/2019 7:45	0.866	197.4	0.378	0.366	29.23	0
2/17/2019 8:00	1.267	152	88.1	0.228	29.27	0
2/17/2019 8:15	0.641	40.85	15.41	0.358	29.27	0
2/17/2019 8:30	0.665	14.79	8.37	0.617	29.27	0
2/17/2019 8:45	1.092	5.475	18.54	0.641	29.27	0

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2/17/2019 9:00	1.321	342.8	19.87	0.838	29.29	0
2/17/2019 9:15	1.146	348.4	5.461	1.023	29.29	0
2/17/2019 9:30	1.394	2.015	11.29	1.291	29.29	0
2/17/2019 9:45	1.078	29.7	6.438	1.367	29.29	0
2/17/2019 10:00	1.131	9.82	9.99	1.674	29.31	0
2/17/2019 10:15	0.559	9.73	0.905	2.822	29.31	0
2/17/2019 10:30	1.402	22.59	15.11	2.297	29.31	0
2/17/2019 10:45	0.075	47.71	8.53	3.509	29.31	0
2/17/2019 11:00	0.752	254.9	67.48	2.945	29.33	0
2/17/2019 11:15	0.551	248.3	17.44	3.105	29.33	0
2/17/2019 11:30	1.496	217.5	35.86	3.058	29.33	0
2/17/2019 11:45	2.594	305	19.19	3.252	29.33	0
2/17/2019 12:00	2.198	321.6	7.126	3.362	29.35	0
2/17/2019 12:15	0.573	326.2	0.371	3.607	29.35	0
2/17/2019 12:30	2.318	292.2	21.76	3.13	29.35	0
2/17/2019 12:45	5.485	274.9	5.348	2.869	29.35	0
2/17/2019 13:00	5.306	282.8	13.23	2.894	29.35	0
2/17/2019 13:15	2.5	347.5	28.82	3.538	29.35	0
2/17/2019 13:30	3.917	21.58	21.24	3.631	29.35	0
2/17/2019 13:45	5.13	25.11	15.83	3.5	29.35	0
2/17/2019 14:00	5.252	339.3	21.11	3.71	29.34	0
2/17/2019 14:15	5.125	330.6	12.56	3.413	29.34	0
2/17/2019 14:30	6.556	325.3	15.38	3.157	29.34	0
2/17/2019 14:45	5.696	351.9	15.28	3.127	29.34	0
2/17/2019 15:00	4.381	9.04	18.25	3.142	29.36	0
2/17/2019 15:15	2.675	336.3	16.34	3.254	29.36	0
2/17/2019 15:30	1.87	334.4	8.37	3.384	29.36	0
2/17/2019 15:45	1.995	318.2	7.312	3.483	29.36	0
2/17/2019 16:00	4.802	310.3	7.761	3.355	29.38	0
2/17/2019 16:15	5.026	326.8	11.18	3.21	29.38	0
2/17/2019 16:30	4.276	312.2	5.694	3.203	29.38	0
2/17/2019 16:45	3.96	307	5.761	3.245	29.38	0
2/17/2019 17:00	5.312	332.9	13.59	3.465	29.4	0
2/17/2019 17:15	4.018	313.1	6.36	3.28	29.4	0
2/17/2019 17:30	3.068	298.8	4.971	3.156	29.4	0
2/17/2019 17:45	2.39	325.7	13.81	2.988	29.4	0
2/17/2019 18:00	1.484	357.5	15.05	2.94	29.42	0
2/17/2019 18:15	1.3	345.5	5.371	2.81	29.42	0
2/17/2019 18:30	1.602	2.625	10.2	2.32	29.42	0
2/17/2019 18:45	1.119	7.672	1.249	2.32	29.42	0
2/17/2019 19:00	0.755	126.7	27.31	2.13	29.41	0
2/17/2019 19:15	1.592	118.9	3.703	2.246	29.41	0
2/17/2019 19:30	0.815	77.87	12.69	1.482	29.41	0
2/17/2019 19:45	1.869	91.8	8.36	1.631	29.41	0
2/17/2019 20:00	1.715	115.8	8.07	1.668	29.46	0
2/17/2019 20:15	2.177	148.5	20.11	1.498	29.46	0
2/17/2019 20:30	3.311	157.9	10.86	1.979	29.46	0
2/17/2019 20:45	2.692	126	29.09	1.885	29.46	0
2/17/2019 21:00	2.082	99	5.232	1.56	29.44	0
2/17/2019 21:15	1.572	128.8	29.92	1.654	29.44	0
2/17/2019 21:30	3.343	136.6	5.462	1.759	29.44	0
2/17/2019 21:45	3.795	137	3.784	1.779	29.44	0
2/17/2019 22:00	3.147	131.1	1.268	1.724	29.49	0
2/17/2019 22:15	2.857	117.7	6.915	1.209	29.49	0
2/17/2019 22:30	2.787	110.8	7.227	1.261	29.49	0
2/17/2019 22:45	3.7	107.8	6.077	0.889	29.49	0
2/17/2019 23:00	2.636	124.9	9.58	1.222	29.47	0
2/17/2019 23:15	2.308	150.5	17.18	1.341	29.47	0
2/17/2019 23:30	2.139	139.3	7.305	1.666	29.47	0
2/17/2019 23:45	1.398	101.9	28.55	1.542	29.47	0
2/18/2019 0:00	1.834	32.14	2.615	0.846	29.48	0
2/18/2019 0:15	1.748	38.68	8.1	1.466	29.48	0
2/18/2019 0:30	2.374	40.06	11.26	1.36	29.48	0
2/18/2019 0:45	1.79	34.99	7.194	1.478	29.48	0
2/18/2019 1:00	1.4	50.68	3.332	1.548	29.51	0
2/18/2019 1:15	1.379	47.67	2.591	1.755	29.51	0

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2/18/2019 1:30	1.285	65.02	2.888	1.586	29.51	0
2/18/2019 1:45	0.813	90.6	21.39	1.868	29.51	0
2/18/2019 2:00	2.627	114.8	7.384	1.451	29.5	0
2/18/2019 2:15	2.498	111.2	3.125	1.93	29.5	0
2/18/2019 2:30	1.953	95.6	13.72	1.115	29.5	0
2/18/2019 2:45	3.344	140.7	12.81	1.353	29.5	0
2/18/2019 3:00	3.424	155.2	9.49	1.504	29.52	0
2/18/2019 3:15	3.154	130	7.456	1.517	29.52	0
2/18/2019 3:30	2.008	130.3	6.678	1.429	29.52	0
2/18/2019 3:45	2.651	150.7	15.59	1.255	29.52	0
2/18/2019 4:00	3.181	196.6	9.15	0.413	29.5	0
2/18/2019 4:15	4.495	193.1	15.65	0.58	29.5	0
2/18/2019 4:30	4.66	197.9	8.34	0.497	29.5	0
2/18/2019 4:45	4.576	187.6	5.822	0.589	29.5	0
2/18/2019 5:00	4.02	187.4	6.371	0.431	29.52	0
2/18/2019 5:15	2.222	164.2	5.639	0.456	29.52	0
2/18/2019 5:30	2.064	145.5	19.07	0.638	29.52	0
2/18/2019 5:45	2.254	117.4	6.148	0.732	29.52	0
2/18/2019 6:00	1.223	122.6	66.95	0.687	29.53	0
2/18/2019 6:15	0.244	10.52	11.2	0.496	29.53	0
2/18/2019 6:30	0.281	46.61	0.434	0.627	29.53	0
2/18/2019 6:45	0.225	94.5	9.09	0.9	29.53	0
2/18/2019 7:00	3.309	152.8	11.02	1.053	29.53	0
2/18/2019 7:15	5.389	214.9	15.79	0.593	29.53	0
2/18/2019 7:30	5.341	246.8	34.77	0.199	29.53	0
2/18/2019 7:45	3.398	241.7	12.85	0.507	29.53	0
2/18/2019 8:00	1.059	228.4	59.03	0.557	29.54	0
2/18/2019 8:15	0.225	35.3	7.103	-0.074	29.54	0
2/18/2019 8:30	0.93	37.4	29.14	0.032	29.54	0
2/18/2019 8:45	3.739	97.3	16.9	0.04	29.54	0
2/18/2019 9:00	4.46	101.6	13.21	0.121	29.54	0
2/18/2019 9:15	2.577	101	11.72	0.328	29.54	0
2/18/2019 9:30	2.104	89.2	12.99	0.493	29.54	0
2/18/2019 9:45	3.394	111.9	6.836	0.697	29.54	0
2/18/2019 10:00	2.966	119.2	5.334	0.882	29.56	0
2/18/2019 10:15	2.857	123.1	6.472	0.978	29.56	0
2/18/2019 10:30	2.289	140.4	11.92	1.065	29.56	0
2/18/2019 10:45	2.22	146	13.47	1.278	29.56	0
2/18/2019 11:00	1.039	45.06	8.95	1.169	29.56	0.02
2/18/2019 11:15	0.67	43.84	2.408	1.49	29.56	0.01
2/18/2019 11:30	1.936	77.72	10.04	1.53	29.56	0
2/18/2019 11:45	2.437	94.4	9.59	1.689	29.56	0
2/18/2019 12:00	2.05	71.96	7.474	1.919	29.55	0.01
2/18/2019 12:15	2.001	93.5	7.653	1.941	29.55	0
2/18/2019 12:30	2.069	97.3	9.69	1.937	29.55	0
2/18/2019 12:45	1.865	63.27	10.74	1.968	29.55	0
2/18/2019 13:00	2.589	45.31	7.195	1.898	29.55	0
2/18/2019 13:15	2.683	42.69	9.87	1.906	29.55	0
2/18/2019 13:30	3.301	27.15	5.401	1.938	29.55	0
2/18/2019 13:45	4.116	43.89	6.306	2.071	29.55	0
2/18/2019 14:00	3.368	76.2	21.81	2.646	29.54	0
2/18/2019 14:15	2.907	112.7	13.68	3.131	29.54	0
2/18/2019 14:30	1.931	77.21	20.47	3.246	29.54	0
2/18/2019 14:45	2.729	69.72	15.48	3.084	29.54	0
2/18/2019 15:00	2.971	53.86	11.33	3.133	29.52	0
2/18/2019 15:15	2.697	48.61	27.7	3.284	29.52	0
2/18/2019 15:30	2.151	19.48	6.479	3.406	29.52	0
2/18/2019 15:45	2.514	24.08	12.35	3.377	29.52	0
2/18/2019 16:00	1.993	37.01	2.638	3.417	29.52	0
2/18/2019 16:15	2.469	29.79	8.6	3.344	29.52	0
2/18/2019 16:30	2.268	49.9	3.992	3.182	29.52	0
2/18/2019 16:45	1.732	39.05	3.565	3.088	29.52	0
2/18/2019 17:00	2.443	36.03	5.195	3.023	29.51	0
2/18/2019 17:15	3.151	26.89	9.9	2.902	29.51	0
2/18/2019 17:30	2.805	39.26	3.978	2.772	29.51	0
2/18/2019 17:45	3.017	29.88	12.61	2.686	29.51	0

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2/18/2019 18:00	2.265	23.28	10.51	2.596	29.49	0
2/18/2019 18:15	1.849	34.66	2.662	2.619	29.49	0
2/18/2019 18:30	2.345	23.56	6.896	2.64	29.49	0
2/18/2019 18:45	2.559	44.02	5.271	2.534	29.49	0
2/18/2019 19:00	2.64	33.63	7.641	2.383	29.5	0
2/18/2019 19:15	1.884	25.59	1.458	2.538	29.5	0
2/18/2019 19:30	3.176	30.83	5.649	2.409	29.5	0
2/18/2019 19:45	2.184	47.88	1.695	2.07	29.5	0
2/18/2019 20:00	1.662	46.41	3.979	2.167	29.51	0
2/18/2019 20:15	1.319	43.1	6.071	2.254	29.51	0
2/18/2019 20:30	1.717	173.2	10.53	2.172	29.51	0
2/18/2019 20:45	3.255	162.9	10.78	2.499	29.51	0
2/18/2019 21:00	2.087	125.6	16.03	2.683	29.47	0
2/18/2019 21:15	1.774	106.3	16.27	2.426	29.47	0
2/18/2019 21:30	3.175	147.1	7.456	2.465	29.47	0
2/18/2019 21:45	4.127	162.9	14.01	2.568	29.47	0
2/18/2019 22:00	6.844	184.3	8.19	2.724	29.49	0
2/18/2019 22:15	3.976	177.2	9.2	2.022	29.49	0.02
2/18/2019 22:30	1.601	96.2	41.96	1.69	29.49	0.01
2/18/2019 22:45	5.343	98.8	11.86	1.286	29.49	0
2/18/2019 23:00	4.807	95	7.019	1.196	29.49	0.01
2/18/2019 23:15	4.932	101.4	7.934	1.283	29.49	0
2/18/2019 23:30	5.458	121.2	9.47	1.454	29.49	0
2/18/2019 23:45	5.578	139.1	7.092	1.576	29.49	0
2/19/2019 0:00	6.009	134.8	7.394	1.715	29.44	0
2/19/2019 0:15	5.413	144.3	8.72	1.753	29.44	0
2/19/2019 0:30	4.512	142.7	7.956	1.706	29.44	0
2/19/2019 0:45	4.336	141.3	8.53	1.741	29.44	0
2/19/2019 1:00	5.548	151	7.276	1.702	29.47	0
2/19/2019 1:15	5.195	152.8	5.037	1.619	29.47	0
2/19/2019 1:30	5.465	154.7	5.097	1.582	29.47	0
2/19/2019 1:45	5.583	152.7	5.243	1.634	29.47	0
2/19/2019 2:00	5.269	149.5	6.543	1.643	29.45	0
2/19/2019 2:15	4.658	156.5	6.949	1.618	29.45	0
2/19/2019 2:30	4.06	155.8	8.14	1.608	29.45	0
2/19/2019 2:45	4.452	153.2	5.126	1.594	29.45	0
2/19/2019 3:00	5.12	148.3	6.035	1.62	29.44	0
2/19/2019 3:15	6.531	151	5.796	1.713	29.44	0
2/19/2019 3:30	5.959	150.4	6.117	1.771	29.44	0
2/19/2019 3:45	4.658	146.1	7.89	1.676	29.44	0
2/19/2019 4:00	5.465	160.3	10.23	1.752	29.44	0
2/19/2019 4:15	4.666	162.8	8.48	1.818	29.44	0
2/19/2019 4:30	5.664	167.6	12.57	1.853	29.44	0
2/19/2019 4:45	6.651	176.4	8.09	2.055	29.44	0
2/19/2019 5:00	6.522	172.5	10.74	1.593	29.4	0
2/19/2019 5:15	2.764	153.1	7.472	1.346	29.4	0
2/19/2019 5:30	1.9	109.4	23.52	1.315	29.4	0
2/19/2019 5:45	1.843	128.2	25.84	1.17	29.4	0
2/19/2019 6:00	5.89	147.5	9.28	1.355	29.4	0
2/19/2019 6:15	5.236	142.7	9.12	1.348	29.4	0
2/19/2019 6:30	6.337	139.1	7.756	1.378	29.4	0
2/19/2019 6:45	5.821	137.9	9.98	1.302	29.4	0
2/19/2019 7:00	4.805	137.6	12.75	1.149	29.37	0
2/19/2019 7:15	2.712	121.2	8.77	1.047	29.37	0
2/19/2019 7:30	2.765	112.6	6.793	0.92	29.37	0
2/19/2019 7:45	3.985	134.9	9.66	0.879	29.37	0
2/19/2019 8:00	4.388	141.2	9.94	1.005	29.38	0
2/19/2019 8:15	3.257	146.6	11.15	1.067	29.38	0
2/19/2019 8:30	5.411	146.9	8.78	1.115	29.38	0
2/19/2019 8:45	4.621	154.9	7.975	1.145	29.38	0.01
2/19/2019 9:00	5.539	159.9	7.009	1.14	29.35	0
2/19/2019 9:15	6.123	158.5	6.541	1.211	29.35	0
2/19/2019 9:30	5.021	170.3	14.05	1.355	29.35	0
2/19/2019 9:45	3.827	166.8	10.6	1.498	29.35	0
2/19/2019 10:00	3.817	153.3	13.58	1.66	29.35	0
2/19/2019 10:15	3.841	149.9	15.75	1.752	29.35	0

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2/19/2019 10:30	2.786	118.3	13.81	1.711	29.35	0
2/19/2019 10:45	0.692	119.2	3.885	1.788	29.35	0
2/19/2019 11:00	3.461	120.2	9.53	1.684	29.34	0
2/19/2019 11:15	4.408	133.4	7.915	1.8	29.34	0
2/19/2019 11:30	5.139	152.2	11.38	1.906	29.34	0
2/19/2019 11:45	6.988	183.7	8.44	2.164	29.34	0
2/19/2019 12:00	7.77	180.9	6.651	2.267	29.3	0
2/19/2019 12:15	7.894	181.8	7.31	2.346	29.3	0
2/19/2019 12:30	6.412	174	12.71	2.402	29.3	0
2/19/2019 12:45	5.891	155.6	8.68	2.26	29.3	0
2/19/2019 13:00	5.119	169.6	15.7	2.393	29.26	0.01
2/19/2019 13:15	5.748	174.9	10.2	2.493	29.26	0
2/19/2019 13:30	6.699	183.7	9.56	2.658	29.26	0.01
2/19/2019 13:45	6.843	177.4	9.1	2.619	29.26	0.01
2/19/2019 14:00	6.656	174.7	9.73	2.609	29.24	0.01
2/19/2019 14:15	7.68	179.8	9.22	2.677	29.24	0
2/19/2019 14:30	8.11	185.8	9.09	2.748	29.24	0.01
2/19/2019 14:45	7.496	189	8.41	2.755	29.24	0.01
2/19/2019 15:00	9.4	184.5	9.12	2.723	29.2	0.01
2/19/2019 15:15	8.52	180.3	8.23	2.689	29.2	0.02
2/19/2019 15:30	8.54	175.9	8.9	2.634	29.2	0.01
2/19/2019 15:45	8.08	157.7	11.06	2.482	29.2	0.01
2/19/2019 16:00	6.637	149.2	8.93	2.414	29.15	0.02
2/19/2019 16:15	9.03	153.9	7.982	2.46	29.15	0
2/19/2019 16:30	8.38	154.7	8.26	2.473	29.15	0.01
2/19/2019 16:45	7.637	147.7	9.31	2.362	29.15	0
2/19/2019 17:00	7.031	145	8.77	2.243	29.13	0
2/19/2019 17:15	6.959	144.6	8.3	2.195	29.13	0
2/19/2019 17:30	7.542	150	12	2.277	29.13	0.01
2/19/2019 17:45	8.85	157.9	8.11	2.346	29.13	0
2/19/2019 18:00	7.804	156.6	7.799	2.38	29.1	0.01
2/19/2019 18:15	8.18	162.5	7.778	2.405	29.1	0.01
2/19/2019 18:30	8.19	159.5	8.05	2.466	29.1	0.03
2/19/2019 18:45	7.277	171	8.94	2.576	29.1	0.01
2/19/2019 19:00	7.36	181.3	11.31	2.749	29.05	0
2/19/2019 19:15	6.437	189.3	8.54	2.795	29.05	0.01
2/19/2019 19:30	5.175	182.1	10	2.85	29.05	0.01
2/19/2019 19:45	5.353	176	11.64	2.793	29.05	0.01
2/19/2019 20:00	5.168	180.3	14.12	2.831	29.05	0
2/19/2019 20:15	2.832	259	87.6	2.761	29.05	0.01
2/19/2019 20:30	2.629	26.72	15.46	2.559	29.05	0.02
2/19/2019 20:45	2.59	39.88	22.9	2.539	29.05	0.01
2/19/2019 21:00	2.379	84.9	18.19	2.489	29.05	0.01
2/19/2019 21:15	1.909	119.2	18.04	2.526	29.05	0
2/19/2019 21:30	1.692	145.3	10.81	2.562	29.05	0
2/19/2019 21:45	2.137	117.7	11.15	2.429	29.05	0
2/19/2019 22:00	3.443	115.8	10.42	2.492	29.02	0
2/19/2019 22:15	3.392	119.7	11.54	2.453	29.02	0
2/19/2019 22:30	2.358	88.6	20.81	2.306	29.02	0
2/19/2019 22:45	3.986	88.3	6.683	2.204	29.02	0.01
2/19/2019 23:00	3.006	80.1	5.331	2.154	29	0
2/19/2019 23:15	2.965	93.4	14.2	2.048	29	0.01
2/19/2019 23:30	0.898	65.75	5.427	1.999	29	0.01
2/19/2019 23:45	0.807	81.4	5.392	1.97	29	0.02
2/20/2019 0:00	1.643	55.42	18.31	1.877	29.01	0
2/20/2019 0:15	3.086	63.46	15.82	1.793	29.01	0.01
2/20/2019 0:30	3.158	43.21	11.75	1.682	29.01	0.02
2/20/2019 0:45	3.363	15.15	17.95	1.411	29.01	0.05
2/20/2019 1:00	6.646	321.7	12.58	0.852	28.99	0.01
2/20/2019 1:15	4.448	314.5	4.486	0.315	28.99	0
2/20/2019 1:30	3.88	315.2	4.176	0.204	28.99	0
2/20/2019 1:45	2.478	307.3	9.5	0.232	28.99	0.01
2/20/2019 2:00	1.089	352	19.2	0.186	29.01	0
2/20/2019 2:15	1.697	11.22	7.647	0.453	29.01	0
2/20/2019 2:30	1.899	271.6	48.8	0.446	29.01	0
2/20/2019 2:45	3.417	266.4	7.463	0.251	29.01	0

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2/20/2019 3:00	1.613	305.2	31.5	0.482	28.99	0
2/20/2019 3:15	0.09	7.941	0.043	0.105	28.99	0
2/20/2019 3:30	1.319	341.9	8.15	0.215	28.99	0
2/20/2019 3:45	1.188	237	54.32	0.284	28.99	0.01
2/20/2019 4:00	1.134	331.9	23.36	0.443	29.01	0
2/20/2019 4:15	3.968	319.4	16.79	0.616	29.01	0
2/20/2019 4:30	2.804	9.31	10.57	0.572	29.01	0
2/20/2019 4:45	1.15	46.38	15.49	0.619	29.01	0
2/20/2019 5:00	3.229	44.38	11.23	0.916	28.99	0
2/20/2019 5:15	1.862	45.94	16.44	0.766	28.99	0
2/20/2019 5:30	1.189	219.1	36.44	0.189	28.99	0
2/20/2019 5:45	0.831	25.92	19.65	0.187	28.99	0
2/20/2019 6:00	1.769	31.14	17.28	0.099	29.01	0
2/20/2019 6:15	1.726	68.23	16.37	-0.198	29.01	0
2/20/2019 6:30	2.455	50.35	17.18	0.195	29.01	0
2/20/2019 6:45	1.085	24.05	58.49	0.115	29.01	0
2/20/2019 7:00	0.791	72.69	47.46	0.065	29	0
2/20/2019 7:15	2.033	122.9	70.52	-0.287	29	0
2/20/2019 7:30	2.475	163.7	64.22	-0.51	29	0
2/20/2019 7:45	1.764	178.4	83.5	-0.561	29	0
2/20/2019 8:00	2.726	227.2	6.331	-0.488	29.02	0
2/20/2019 8:15	0.529	189.7	55.87	-0.287	29.02	0
2/20/2019 8:30	0.085	31.91	9.6	-0.082	29.02	0
2/20/2019 8:45	2.001	46.23	14.74	0.256	29.02	0
2/20/2019 9:00	1.958	145.1	21.69	-0.065	29.02	0
2/20/2019 9:15	2.952	202.9	25.22	0.073	29.02	0
2/20/2019 9:30	2.719	262.3	7.143	0.141	29.02	0.01
2/20/2019 9:45	0.591	152.6	29.76	0.134	29.02	0
2/20/2019 10:00	0.544	112.5	0.088	0.377	29.02	0
2/20/2019 10:15	2.168	176.2	35.09	0.489	29.02	0.01
2/20/2019 10:30	3.633	222	4.904	0.714	29.02	0.01
2/20/2019 10:45	3.126	204.5	5.035	1.101	29.02	0.02
2/20/2019 11:00	1.133	158.9	12.28	2.18	29.01	0.01
2/20/2019 11:15	0.591	236.2	31.2	2.793	29.01	0.01
2/20/2019 11:30	1.068	259.8	57.56	2.983	29.01	0.02
2/20/2019 11:45	2.041	147.5	31.4	2.891	29.01	0.02
2/20/2019 12:00	1.595	131	8.82	2.53	29.01	0.01
2/20/2019 12:15	1.793	87.9	23.89	2.578	29.01	0.01
2/20/2019 12:30	0.616	61.82	4.956	2.791	29.01	0
2/20/2019 12:45	1.328	15.47	51.68	2.737	29.01	0
2/20/2019 13:00	3.218	313	17.75	2.785	29.02	0
2/20/2019 13:15	2.554	316.8	15.62	2.947	29.02	0
2/20/2019 13:30	1.561	8.13	22.32	2.753	29.02	0.01
2/20/2019 13:45	0.797	16.74	32.38	2.777	29.02	0
2/20/2019 14:00	1.975	357.1	39.22	3.097	29.02	0
2/20/2019 14:15	2.005	6.568	34.38	3.046	29.02	0
2/20/2019 14:30	3.893	308.7	18.61	3.358	29.02	0
2/20/2019 14:45	4.969	305.2	17.71	3.328	29.02	0
2/20/2019 15:00	5.382	322.9	13.31	3.229	29.03	0
2/20/2019 15:15	7.285	337.8	12.37	3.045	29.03	0
2/20/2019 15:30	4.984	322.1	13.4	3.094	29.03	0
2/20/2019 15:45	4.153	326.1	25.75	3.351	29.03	0
2/20/2019 16:00	5	347.1	21.35	3.48	29.03	0
2/20/2019 16:15	6.533	332.7	13.68	3.146	29.03	0
2/20/2019 16:30	3.05	317.1	12.67	3.053	29.03	0
2/20/2019 16:45	3.04	357.2	27.34	2.937	29.03	0
2/20/2019 17:00	1.478	299.1	25.76	3.178	29.04	0
2/20/2019 17:15	2.248	322	33.42	3.117	29.04	0
2/20/2019 17:30	2.187	315.7	42.1	2.921	29.04	0
2/20/2019 17:45	2.332	24.61	7.015	2.347	29.04	0
2/20/2019 18:00	4.865	14	6.918	1.972	29.04	0
2/20/2019 18:15	4.751	23.17	22.24	2.147	29.04	0
2/20/2019 18:30	3.587	33.77	15.78	1.791	29.04	0
2/20/2019 18:45	4.575	351.9	18.21	1.758	29.04	0
2/20/2019 19:00	3.164	333	24.92	1.728	29.07	0
2/20/2019 19:15	3.209	10.57	23.74	1.619	29.07	0

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2/20/2019 19:30	9.28	19.12	7.796	1.852	29.07	0
2/20/2019 19:45	10.7	13.99	9.72	2.121	29.07	0
2/20/2019 20:00	9.75	12.77	9.78	2.024	29.08	0
2/20/2019 20:15	8.42	9.69	12.46	1.95	29.08	0
2/20/2019 20:30	8.7	17.03	10.95	2.037	29.08	0
2/20/2019 20:45	8.49	12.16	11.85	1.928	29.08	0
2/20/2019 21:00	7.768	11.88	12.22	1.899	29.1	0
2/20/2019 21:15	5.69	356.1	16.83	1.971	29.1	0
2/20/2019 21:30	4.366	10.39	26.8	2.169	29.1	0
2/20/2019 21:45	7.226	41.15	18.69	2.258	29.1	0
2/20/2019 22:00	7.633	39.64	18.88	2.234	29.15	0
2/20/2019 22:15	5.621	27.61	10.69	2.126	29.15	0
2/20/2019 22:30	3.064	27.48	24.78	1.864	29.15	0
2/20/2019 22:45	1.995	37.26	45.61	1.596	29.15	0
2/20/2019 23:00	5.477	355.6	19.25	1.725	29.13	0
2/20/2019 23:15	7.643	333.8	9.12	1.376	29.13	0
2/20/2019 23:30	5.82	352.4	21.85	1.154	29.13	0
2/20/2019 23:45	3.496	26.88	12.41	0.742	29.13	0
2/21/2019 0:00	3.566	30.83	7.47	0.512	29.17	0
2/21/2019 0:15	3.798	25.97	6.39	0.629	29.17	0
2/21/2019 0:30	3.683	33.68	10.14	0.51	29.17	0
2/21/2019 0:45	5.045	26.07	9.84	0.316	29.17	0
2/21/2019 1:00	5.602	18.92	9.2	0.392	29.18	0
2/21/2019 1:15	6.761	11.6	6.874	0.854	29.18	0
2/21/2019 1:30	6.032	11.87	8.36	0.774	29.18	0
2/21/2019 1:45	3.766	34.12	18.07	0.321	29.18	0
2/21/2019 2:00	4.762	72.8	7.821	-0.015	29.19	0
2/21/2019 2:15	4.471	90.5	15.01	-0.151	29.19	0
2/21/2019 2:30	3.419	134.6	33.84	-0.731	29.19	0
2/21/2019 2:45	4.203	173.3	5.983	0.03	29.19	0
2/21/2019 3:00	4.734	188.9	15.3	-0.443	29.22	0
2/21/2019 3:15	4.857	219.2	7.12	-0.891	29.22	0
2/21/2019 3:30	5.307	217.5	13.86	-0.825	29.22	0
2/21/2019 3:45	4.888	184.1	6.703	-0.763	29.22	0
2/21/2019 4:00	4.482	175.8	6.93	-0.86	29.22	0
2/21/2019 4:15	4.854	177.5	7.49	-0.951	29.22	0
2/21/2019 4:30	5.132	183	10.16	-1.099	29.22	0
2/21/2019 4:45	4.912	186.7	14.22	-1.045	29.22	0
2/21/2019 5:00	4.341	170.9	7.849	-0.976	29.22	0
2/21/2019 5:15	2.222	192.5	15.56	-1.069	29.22	0
2/21/2019 5:30	0.88	169	4.659	-1.04	29.22	0
2/21/2019 5:45	1.44	103.6	26.45	-1.342	29.22	0
2/21/2019 6:00	1.966	62.95	2.896	-1.306	29.25	0
2/21/2019 6:15	2.229	56.31	0.131	-1.545	29.25	0
2/21/2019 6:30	2.267	54.49	9.5	-1.459	29.25	0
2/21/2019 6:45	2.264	40.79	5.725	-1.319	29.25	0
2/21/2019 7:00	1.822	89.6	31.04	-1.428	29.27	0
2/21/2019 7:15	2.499	125.9	9.02	-1.478	29.27	0
2/21/2019 7:30	2.097	188.2	14.85	-0.948	29.27	0
2/21/2019 7:45	2.793	229.7	39.03	-1.176	29.27	0
2/21/2019 8:00	1.049	309.8	22.15	-1.088	29.27	0
2/21/2019 8:15	0.043	335.3	0.01	0.226	29.27	0
2/21/2019 8:30	0.946	320.9	7.704	-0.276	29.27	0
2/21/2019 8:45	1.496	227.2	72.65	0.667	29.27	0
2/21/2019 9:00	1.669	178.6	4.444	0.227	29.27	0
2/21/2019 9:15	2.815	170.5	6.322	0.272	29.27	0
2/21/2019 9:30	2.744	201.1	14.79	0.296	29.27	0
2/21/2019 9:45	2.596	165.3	8.88	1.294	29.27	0
2/21/2019 10:00	2.191	154.9	6.427	1.943	29.3	0
2/21/2019 10:15	1.421	144.4	9.87	2.807	29.3	0
2/21/2019 10:30	2.545	191.8	30.87	3.056	29.3	0
2/21/2019 10:45	3.123	220.1	13.21	2.871	29.3	0
2/21/2019 11:00	2.343	230.4	22.22	3.237	29.31	0
2/21/2019 11:15	2.064	228.5	33.53	3.758	29.31	0
2/21/2019 11:30	1.158	284.5	36.07	4.633	29.31	0
2/21/2019 11:45	0.967	30.9	36.66	4.517	29.31	0

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2/21/2019 12:00	1.642	202.4	40.69	4.799	29.3	0
2/21/2019 12:15	1.227	347.3	65.11	5.324	29.3	0
2/21/2019 12:30	2.221	158.1	29.3	4.974	29.3	0
2/21/2019 12:45	1.436	244.8	79.14	5.471	29.3	0
2/21/2019 13:00	0.858	358.3	45.44	5.717	29.27	0
2/21/2019 13:15	1.19	110.4	35.84	5.459	29.27	0
2/21/2019 13:30	0.906	79.87	29.52	5.843	29.27	0
2/21/2019 13:45	1.657	49.28	33.94	5.603	29.27	0
2/21/2019 14:00	2.956	220.4	41.44	6.242	29.27	0
2/21/2019 14:15	4.47	220.6	23.84	5.979	29.27	0
2/21/2019 14:30	2.467	252.9	36.77	6.241	29.27	0
2/21/2019 14:45	4.105	244.2	21.58	6.186	29.27	0
2/21/2019 15:00	2.645	248	41.5	6.346	29.27	0
2/21/2019 15:15	2.979	171.4	37.76	6.262	29.27	0
2/21/2019 15:30	4.404	203.7	60.44	6.251	29.27	0
2/21/2019 15:45	4.901	239	19.04	6.345	29.27	0
2/21/2019 16:00	5.404	265.3	11.39	6.297	29.26	0
2/21/2019 16:15	4.119	254.8	14.6	6.343	29.26	0
2/21/2019 16:30	3.777	266.4	20.08	6.255	29.26	0
2/21/2019 16:45	3.831	275.3	18.54	6.122	29.26	0
2/21/2019 17:00	4.142	270.3	6.052	5.716	29.25	0
2/21/2019 17:15	4.634	273.9	7.04	5.498	29.25	0
2/21/2019 17:30	3.603	282.2	6.37	5.055	29.25	0
2/21/2019 17:45	2.795	305.9	18.98	4.913	29.25	0
2/21/2019 18:00	3.839	322.8	6.896	4.547	29.25	0
2/21/2019 18:15	3.643	312.2	6.515	4.246	29.25	0
2/21/2019 18:30	1.937	12.03	27.27	3.63	29.25	0
2/21/2019 18:45	2.015	38.58	0.141	3.061	29.25	0
2/21/2019 19:00	1.086	38.67	0.112	3.073	29.27	0
2/21/2019 19:15	1.764	58.74	14.6	2.487	29.27	0
2/21/2019 19:30	2.75	99.6	6.692	2.112	29.27	0
2/21/2019 19:45	2.439	136.8	29.63	2.225	29.27	0
2/21/2019 20:00	2.873	175.4	8.01	2.879	29.29	0
2/21/2019 20:15	2.822	171.3	7.354	2.638	29.29	0
2/21/2019 20:30	2.217	159.3	4.138	1.887	29.29	0
2/21/2019 20:45	0.963	114	7.612	1.553	29.29	0
2/21/2019 21:00	3.68	180.2	15.52	1.286	29.28	0
2/21/2019 21:15	5.405	163.6	11.78	1.266	29.28	0
2/21/2019 21:30	5.372	137.2	7.087	1.529	29.28	0
2/21/2019 21:45	4.154	141.2	8.23	1.289	29.28	0
2/21/2019 22:00	4.698	143.2	7.707	1.496	29.28	0
2/21/2019 22:15	5.377	156.2	5.838	1.223	29.28	0
2/21/2019 22:30	5.227	147.9	7.507	1.325	29.28	0
2/21/2019 22:45	5.433	140.1	7.608	1.554	29.28	0
2/21/2019 23:00	5.666	149.1	7.573	1.412	29.27	0
2/21/2019 23:15	6.249	159.7	6.88	1.444	29.27	0
2/21/2019 23:30	6.065	148	8.17	1.493	29.27	0
2/21/2019 23:45	5.689	141.9	7.965	1.449	29.27	0
2/22/2019 0:00	5.858	157.6	10.76	1.478	29.25	0
2/22/2019 0:15	6.76	157.8	6.859	1.521	29.25	0
2/22/2019 0:30	5.672	148.2	9.35	1.601	29.25	0
2/22/2019 0:45	5.248	145.3	7.581	1.691	29.25	0
2/22/2019 1:00	6.064	150	6.617	1.767	29.25	0
2/22/2019 1:15	4.934	150.9	8.25	1.871	29.25	0
2/22/2019 1:30	5.53	150.2	8.16	1.863	29.25	0
2/22/2019 1:45	6.252	163.9	7.977	1.598	29.25	0
2/22/2019 2:00	5.416	162.8	9.05	1.709	29.24	0
2/22/2019 2:15	5.926	158.3	6.832	1.75	29.24	0
2/22/2019 2:30	6.338	157	5.728	1.864	29.24	0
2/22/2019 2:45	5.998	158.4	6.73	1.988	29.24	0
2/22/2019 3:00	5.731	163.6	7.516	1.881	29.24	0
2/22/2019 3:15	6.173	155.5	7.059	1.782	29.24	0
2/22/2019 3:30	6.801	159	7.645	2.014	29.24	0
2/22/2019 3:45	7.333	167.8	7.965	1.942	29.24	0
2/22/2019 4:00	7.475	167.1	9.8	1.868	29.23	0
2/22/2019 4:15	7.244	162.3	6.988	1.939	29.23	0



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2/22/2019 4:30	6.73	159.7	6.742	2.15	29.23	0
2/22/2019 4:45	7.814	157.3	8.69	2.256	29.23	0
2/22/2019 5:00	6.741	149	7.807	2.401	29.21	0
2/22/2019 5:15	6.405	152.4	6.799	2.258	29.21	0
2/22/2019 5:30	7.583	155	7.807	2.37	29.21	0
2/22/2019 5:45	7.059	155.2	9.49	2.338	29.21	0
2/22/2019 6:00	7.332	152.7	6.807	2.352	29.21	0
2/22/2019 6:15	8.18	157.1	6.699	2.321	29.21	0
2/22/2019 6:30	8.02	156.4	6.496	2.315	29.21	0
2/22/2019 6:45	7.592	149.1	8.83	2.406	29.21	0
2/22/2019 7:00	8.24	168.7	9.26	2.262	29.16	0
2/22/2019 7:15	6.245	172.1	8.76	2.105	29.16	0
2/22/2019 7:30	6.277	153.8	8.18	2.213	29.16	0
2/22/2019 7:45	8.94	156	9.13	2.524	29.16	0
2/22/2019 8:00	11.49	168.3	7.508	2.706	29.17	0
2/22/2019 8:15	11.28	168.9	6.413	2.702	29.17	0
2/22/2019 8:30	9.93	157.1	8.73	2.785	29.17	0
2/22/2019 8:45	9.54	158.7	8.12	2.574	29.17	0
2/22/2019 9:00	11	160.8	6.405	2.449	29.16	0
2/22/2019 9:15	15.26	164.7	7.629	2.468	29.16	0
2/22/2019 9:30	14.83	166.3	6.698	2.414	29.16	0
2/22/2019 9:45	13.2	160.2	8.32	2.471	29.16	0
2/22/2019 10:00	12.71	159.9	8.36	2.726	29.12	0
2/22/2019 10:15	13.83	163.8	8.86	3.162	29.12	0
2/22/2019 10:30	12.04	161.2	9.59	3.258	29.12	0
2/22/2019 10:45	11.76	160.8	8.33	3.342	29.12	0
2/22/2019 11:00	12.79	167.1	8.13	3.572	29.09	0
2/22/2019 11:15	12.83	166.3	8.98	3.698	29.09	0
2/22/2019 11:30	13.1	174.6	10.25	3.624	29.09	0
2/22/2019 11:45	12.5	175.8	12.59	3.882	29.09	0
2/22/2019 12:00	12.8	167.1	11.05	4.211	29.06	0
2/22/2019 12:15	12.45	178.8	18.34	4.436	29.06	0
2/22/2019 12:30	19.14	209.2	11.28	4.409	29.06	0
2/22/2019 12:45	16.44	215.7	13.36	3.512	29.06	0.01
2/22/2019 13:00	15.23	213.8	10.25	2.562	29.08	0.01
2/22/2019 13:15	13.77	196.3	12.55	2.136	29.08	0.02
2/22/2019 13:30	13.89	179.1	9.98	1.927	29.08	0.02
2/22/2019 13:45	10.21	183.2	10.57	1.543	29.08	0.02
2/22/2019 14:00	6.937	179.4	14.48	1.553	29.07	0.02
2/22/2019 14:15	2.95	77.77	50.73	1.412	29.07	0.01
2/22/2019 14:30	4.039	20.43	24.13	0.784	29.07	0.02
2/22/2019 14:45	4.754	84.2	81.7	1.103	29.07	0
2/22/2019 15:00	4.629	126.6	58.69	1.52	29.07	0
2/22/2019 15:15	3.515	294.7	67.67	1.741	29.07	0
2/22/2019 15:30	9.64	226.7	12.25	2.585	29.07	0
2/22/2019 15:45	7.357	197.6	30.97	2.506	29.07	0
2/22/2019 16:00	8.17	227.3	13.3	2.599	29.11	0
2/22/2019 16:15	7.094	210	11.76	2.589	29.11	0
2/22/2019 16:30	5.607	200.9	13.86	2.627	29.11	0
2/22/2019 16:45	7.66	207.1	9.45	2.677	29.11	0
2/22/2019 17:00	7.796	205.2	8.08	2.656	29.1	0.01
2/22/2019 17:15	5.497	188.6	12.51	2.552	29.1	0
2/22/2019 17:30	2.934	150.7	23.71	2.165	29.1	0
2/22/2019 17:45	5.831	177.7	10.9	2.407	29.1	0
2/22/2019 18:00	5.842	182.9	7.83	2.327	29.11	0
2/22/2019 18:15	4.94	182.2	7.257	2.251	29.11	0
2/22/2019 18:30	4.173	145.4	18.6	2.021	29.11	0.01
2/22/2019 18:45	4.406	112.6	8.26	1.911	29.11	0.01
2/22/2019 19:00	3.557	118.6	8.13	1.825	29.15	0
2/22/2019 19:15	4.115	120.6	6.497	1.799	29.15	0
2/22/2019 19:30	4.15	121.8	9.14	1.782	29.15	0
2/22/2019 19:45	2.751	114.9	9.88	1.742	29.15	0
2/22/2019 20:00	2.694	112.8	10.86	1.642	29.15	0
2/22/2019 20:15	3.534	141.8	6.174	1.635	29.15	0
2/22/2019 20:30	4.832	142.9	9.47	1.587	29.15	0
2/22/2019 20:45	2.212	124.6	11.19	1.499	29.15	0.01

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2/22/2019 21:00	2.311	125.6	13.46	1.409	29.17	0
2/22/2019 21:15	3.035	120.4	11.13	1.539	29.17	0
2/22/2019 21:30	2.439	114.3	16.02	1.632	29.17	0
2/22/2019 21:45	3.084	131.2	9.12	1.735	29.17	0
2/22/2019 22:00	2.404	140.5	12.67	1.732	29.18	0
2/22/2019 22:15	3.265	126.9	10.07	1.773	29.18	0
2/22/2019 22:30	3.335	146.6	16.37	1.765	29.18	0
2/22/2019 22:45	5.14	139.1	8.34	1.861	29.18	0
2/22/2019 23:00	4.876	142.7	12.79	1.987	29.17	0
2/22/2019 23:15	5.502	146.2	8.06	1.946	29.17	0
2/22/2019 23:30	3.75	143.9	10.35	1.88	29.17	0
2/22/2019 23:45	3.576	140.8	5.471	1.869	29.17	0
2/23/2019 0:00	3.275	139.3	6.008	1.803	29.2	0
2/23/2019 0:15	3.883	147.8	8.7	1.831	29.2	0
2/23/2019 0:30	3.408	165.7	14.28	1.971	29.2	0
2/23/2019 0:45	2.785	164.5	11.41	2.015	29.2	0
2/23/2019 1:00	2.443	163.1	16.58	1.935	29.21	0
2/23/2019 1:15	3.334	155.4	6.208	2.162	29.21	0
2/23/2019 1:30	2.634	169.8	21.66	2.165	29.21	0
2/23/2019 1:45	7.02	188.1	5.984	2.356	29.21	0
2/23/2019 2:00	6.55	192.5	5.939	2.276	29.22	0
2/23/2019 2:15	6.757	199.2	6.101	2.235	29.22	0
2/23/2019 2:30	6.689	197.9	5.667	2.216	29.22	0
2/23/2019 2:45	6.654	210	8.5	2.216	29.22	0
2/23/2019 3:00	3.956	206.1	8.93	2.147	29.24	0
2/23/2019 3:15	4.076	192.6	9.1	2.195	29.24	0
2/23/2019 3:30	5.51	198.7	10.34	2.29	29.24	0
2/23/2019 3:45	4.31	177.8	14.58	2.203	29.24	0
2/23/2019 4:00	5.206	186	8.15	2.201	29.23	0
2/23/2019 4:15	5.042	194.6	6.485	2.095	29.23	0
2/23/2019 4:30	4.326	200	3.984	2.153	29.23	0
2/23/2019 4:45	2.788	202.5	5.304	2.162	29.23	0
2/23/2019 5:00	2.09	146.9	18.29	2.034	29.24	0
2/23/2019 5:15	3.797	135.4	8.02	1.884	29.24	0
2/23/2019 5:30	3.145	157.9	15.71	1.559	29.24	0
2/23/2019 5:45	3.558	132.4	7.751	1.827	29.24	0
2/23/2019 6:00	2.939	133.6	5.998	1.586	29.26	0
2/23/2019 6:15	4.375	128.3	4.804	1.734	29.26	0
2/23/2019 6:30	4.98	138.7	7.051	1.88	29.26	0
2/23/2019 6:45	5.661	130.9	7.256	1.975	29.26	0
2/23/2019 7:00	5.377	136.5	7.991	1.945	29.24	0
2/23/2019 7:15	5.894	134.9	6.086	1.977	29.24	0
2/23/2019 7:30	6.118	129	6.569	2.081	29.24	0
2/23/2019 7:45	5.069	139.5	8.26	2.121	29.24	0
2/23/2019 8:00	4.212	145.9	6.807	2.175	29.27	0
2/23/2019 8:15	4.59	141.1	6.768	2.394	29.27	0
2/23/2019 8:30	4.499	148.8	5.462	2.455	29.27	0
2/23/2019 8:45	5.135	157.9	7.563	2.565	29.27	0
2/23/2019 9:00	6.596	159.4	7.058	2.836	29.28	0
2/23/2019 9:15	6.849	162.9	7.368	3.055	29.28	0
2/23/2019 9:30	6.476	178.1	9.45	3.27	29.28	0
2/23/2019 9:45	6.528	178.7	10.72	3.405	29.28	0
2/23/2019 10:00	6.287	170.4	11.36	3.659	29.27	0
2/23/2019 10:15	7.343	190	9.7	4.107	29.27	0
2/23/2019 10:30	7.421	187.3	9.02	4.07	29.27	0
2/23/2019 10:45	7.319	194.9	12.45	4.18	29.27	0
2/23/2019 11:00	7.367	186.8	11.27	4.144	29.27	0
2/23/2019 11:15	8.44	189.1	11.8	4.451	29.27	0
2/23/2019 11:30	6.496	175.3	20.8	4.879	29.27	0
2/23/2019 11:45	4.787	158.9	13.5	4.733	29.27	0
2/23/2019 12:00	3.391	152.4	18.15	5.069	29.28	0
2/23/2019 12:15	4.179	145.8	26.07	5.073	29.28	0
2/23/2019 12:30	3.84	175.1	22.86	5.259	29.28	0
2/23/2019 12:45	5.845	187.7	19.8	5.701	29.28	0
2/23/2019 13:00	6.457	198.9	10.92	5.731	29.27	0
2/23/2019 13:15	6.357	207.7	13.26	5.63	29.27	0

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2/23/2019 13:30	9.29	218.8	9.49	5.456	29.27	0
2/23/2019 13:45	7.282	184.3	33.8	5.282	29.27	0
2/23/2019 14:00	5.675	99.9	22.67	4.36	29.25	0
2/23/2019 14:15	6.689	105.5	11.96	3.668	29.25	0
2/23/2019 14:30	4.978	109.8	12.28	3.803	29.25	0
2/23/2019 14:45	4.883	71.25	75.74	4.106	29.25	0
2/23/2019 15:00	5.959	318.1	13.18	3.615	29.24	0
2/23/2019 15:15	5.794	4.478	13.94	3.475	29.24	0
2/23/2019 15:30	4.923	36.14	8.18	3.168	29.24	0
2/23/2019 15:45	5.678	39.33	13.33	3.092	29.24	0
2/23/2019 16:00	5.476	37.54	13.9	3.241	29.23	0
2/23/2019 16:15	4.595	348.9	16.97	3.391	29.23	0
2/23/2019 16:30	4.687	359.2	21.01	3.396	29.23	0
2/23/2019 16:45	4.945	30.73	10.91	3.018	29.23	0
2/23/2019 17:00	2.678	15.42	6.681	2.99	29.23	0
2/23/2019 17:15	1.367	22.92	23.24	3.188	29.23	0
2/23/2019 17:30	3.94	16.68	9.96	3.116	29.23	0
2/23/2019 17:45	2.829	18.15	11.94	3.111	29.23	0
2/23/2019 18:00	3.394	34.26	6.082	2.773	29.23	0.01
2/23/2019 18:15	3.458	50.7	8.31	2.597	29.23	0
2/23/2019 18:30	4.554	33.73	8.07	2.6	29.23	0
2/23/2019 18:45	3.899	12.03	12.4	2.653	29.23	0
2/23/2019 19:00	2.406	330.2	9.3	2.627	29.23	0
2/23/2019 19:15	1.922	321.9	3.845	2.815	29.23	0
2/23/2019 19:30	0.95	334.6	8.49	2.688	29.23	0
2/23/2019 19:45	0.764	239.7	59.13	2.998	29.23	0
2/23/2019 20:00	0.735	228.4	9.81	3.112	29.21	0.01
2/23/2019 20:15	2.384	345.6	16.28	2.634	29.21	0
2/23/2019 20:30	3.503	351.3	6.68	2.087	29.21	0
2/23/2019 20:45	3.411	326.8	18.04	2.057	29.21	0
2/23/2019 21:00	2.494	0.317	46.89	2.23	29.21	0
2/23/2019 21:15	2.869	25.95	10.16	2.126	29.21	0
2/23/2019 21:30	2.535	11.78	4.565	2.088	29.21	0
2/23/2019 21:45	1.291	11.34	12.81	2.07	29.21	0
2/23/2019 22:00	2.582	21.17	5.738	1.741	29.22	0
2/23/2019 22:15	2.809	17.05	8.56	1.703	29.22	0
2/23/2019 22:30	3.245	32.13	6.305	1.925	29.22	0
2/23/2019 22:45	2.147	23.69	22.61	1.776	29.22	0
2/23/2019 23:00	2.863	38.7	15.25	1.598	29.19	0
2/23/2019 23:15	4.065	23.36	12.21	1.502	29.19	0
2/23/2019 23:30	3.77	19.86	8.96	1.534	29.19	0
2/23/2019 23:45	3.914	19.41	13.89	1.516	29.19	0
2/24/2019 0:00	3.253	26.1	15.25	1.517	29.2	0
2/24/2019 0:15	3.198	35.76	10.03	1.509	29.2	0
2/24/2019 0:30	3.863	51.94	16.51	1.537	29.2	0
2/24/2019 0:45	2.88	59.83	15.48	1.6	29.2	0
2/24/2019 1:00	3.533	90.8	19.01	1.72	29.19	0
2/24/2019 1:15	8.69	119.4	12.48	2.258	29.19	0
2/24/2019 1:30	10.15	128	11.38	2.1	29.19	0
2/24/2019 1:45	10.47	125.1	10.17	1.842	29.19	0
2/24/2019 2:00	9.66	124.9	11.39	1.643	29.16	0
2/24/2019 2:15	5.739	111.3	10.91	1.5	29.16	0
2/24/2019 2:30	4.948	115.1	14.19	1.646	29.16	0
2/24/2019 2:45	5.294	125.1	13.11	1.651	29.16	0
2/24/2019 3:00	7.741	131.9	10.12	1.798	29.15	0
2/24/2019 3:15	6.961	125.5	12.3	1.784	29.15	0
2/24/2019 3:30	5.963	130.8	13.43	1.799	29.15	0
2/24/2019 3:45	5.681	140.6	12.93	1.953	29.15	0
2/24/2019 4:00	4.113	122.7	11.3	2.071	29.11	0
2/24/2019 4:15	1.591	26.16	36.76	1.567	29.11	0
2/24/2019 4:30	0.677	16.26	9.26	1.194	29.11	0
2/24/2019 4:45	0.12	48.67	0.057	1.388	29.11	0
2/24/2019 5:00	5.196	114.5	34.33	2.062	29.12	0
2/24/2019 5:15	7.239	119.9	11.52	2.12	29.12	0
2/24/2019 5:30	8.81	122	11.11	2.22	29.12	0
2/24/2019 5:45	10.65	130.7	14.36	1.73	29.12	0

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2/24/2019 6:00	12.02	114.6	14.26	0.652	29.1	0
2/24/2019 6:15	9.06	108.5	13.43	0.708	29.1	0
2/24/2019 6:30	9.48	113	12.98	1.251	29.1	0
2/24/2019 6:45	8.5	103.8	11.63	1.327	29.1	0
2/24/2019 7:00	8.3	111.1	10.7	1.889	29.09	0
2/24/2019 7:15	8.67	114.4	11.3	2.215	29.09	0
2/24/2019 7:30	7.775	112.5	11.06	2.228	29.09	0
2/24/2019 7:45	6.956	111.9	9.39	2.244	29.09	0.01
2/24/2019 8:00	5.023	132.7	9.48	2.319	29.1	0
2/24/2019 8:15	1.399	59.82	15.85	1.712	29.1	0
2/24/2019 8:30	1.41	24.21	11.73	1.996	29.1	0
2/24/2019 8:45	3.734	25.81	11.36	1.189	29.1	0
2/24/2019 9:00	4.159	24.31	15.4	1.315	29.08	0
2/24/2019 9:15	2.737	35.19	13.47	1.557	29.08	0
2/24/2019 9:30	1.887	42.27	35.03	1.941	29.08	0
2/24/2019 9:45	5.773	139.2	16	2.868	29.08	0
2/24/2019 10:00	6.949	109.9	22.49	3.032	29.1	0
2/24/2019 10:15	5.101	121.3	37.13	3.392	29.1	0
2/24/2019 10:30	7.219	172.9	14.27	3.414	29.1	0
2/24/2019 10:45	9.02	155.9	9.64	3.301	29.1	0
2/24/2019 11:00	9.26	160.1	10.92	2.919	29.11	0
2/24/2019 11:15	11.58	161.7	8.5	2.771	29.11	0
2/24/2019 11:30	10.49	147.4	11.14	2.566	29.11	0
2/24/2019 11:45	7.581	122.6	21.62	2.13	29.11	0
2/24/2019 12:00	5.52	99.4	18.23	1.857	29.11	0
2/24/2019 12:15	5.068	82.3	26.98	1.77	29.11	0.01
2/24/2019 12:30	6.711	45.85	14.37	1.777	29.11	0
2/24/2019 12:45	5.761	15.97	16.51	2.229	29.11	0
2/24/2019 13:00	5.191	18.22	13.51	2.627	29.08	0
2/24/2019 13:15	6.058	24.71	9.87	2.912	29.08	0
2/24/2019 13:30	9.4	17.34	10.08	2.863	29.08	0
2/24/2019 13:45	8.67	18.65	8.6	2.911	29.08	0
2/24/2019 14:00	9.24	24.71	8.65	2.937	29.06	0
2/24/2019 14:15	10.38	24.05	8.04	3.153	29.06	0
2/24/2019 14:30	10.17	23.2	9.82	3.347	29.06	0
2/24/2019 14:45	10.2	25.64	11.02	3.353	29.06	0
2/24/2019 15:00	10.82	23.29	10.4	3.362	29.06	0
2/24/2019 15:15	9.39	27.17	12.26	3.462	29.06	0
2/24/2019 15:30	8.03	20.08	11.78	3.558	29.06	0
2/24/2019 15:45	6.87	29.54	8.72	3.597	29.06	0
2/24/2019 16:00	6.833	21.38	12.84	3.659	29.08	0
2/24/2019 16:15	7.696	30.4	11.35	3.606	29.08	0
2/24/2019 16:30	8.39	14.58	10.58	3.538	29.08	0
2/24/2019 16:45	6.805	31.99	17.72	3.496	29.08	0
2/24/2019 17:00	4.243	46.84	15.59	3.396	29.08	0
2/24/2019 17:15	4.462	22.2	13.19	3.226	29.08	0
2/24/2019 17:30	7.832	27.37	10.69	3.039	29.08	0
2/24/2019 17:45	7.551	28.25	9.52	2.804	29.08	0
2/24/2019 18:00	5.505	29.02	8.21	2.764	29.1	0
2/24/2019 18:15	3.314	38.58	12.65	2.773	29.1	0
2/24/2019 18:30	1.926	52.57	21.33	2.67	29.1	0
2/24/2019 18:45	3.652	45.37	15.69	2.722	29.1	0
2/24/2019 19:00	3.399	50.86	8.63	2.784	29.11	0
2/24/2019 19:15	5.602	46.24	8.61	2.845	29.11	0
2/24/2019 19:30	5.01	38.83	12.4	2.69	29.11	0
2/24/2019 19:45	6.429	27.72	7.1	2.414	29.11	0
2/24/2019 20:00	6.557	32.12	7.835	2.577	29.09	0
2/24/2019 20:15	6.857	33.9	8.4	2.538	29.09	0
2/24/2019 20:30	6.82	28.79	7.238	2.377	29.09	0
2/24/2019 20:45	7.199	31.67	9.04	2.457	29.09	0
2/24/2019 21:00	6.353	32.34	8.55	2.568	29.1	0
2/24/2019 21:15	6.151	40.75	10.97	2.612	29.1	0
2/24/2019 21:30	6.583	36.35	8.67	2.627	29.1	0
2/24/2019 21:45	5.824	41	9.96	2.644	29.1	0
2/24/2019 22:00	3.667	52.95	15.42	2.474	29.11	0
2/24/2019 22:15	5.445	30.6	8.21	2.254	29.11	0

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2/24/2019 22:30	4.313	57.41	20.83	2.412	29.11	0
2/24/2019 22:45	5.625	81.9	17.17	2.588	29.11	0
2/24/2019 23:00	7.157	96.3	13.51	2.512	29.08	0
2/24/2019 23:15	5.069	59.5	14.67	1.749	29.08	0
2/24/2019 23:30	4.947	58.44	9.75	1.651	29.08	0
2/24/2019 23:45	4.47	52.16	8.27	1.259	29.08	0
2/25/2019 0:00	4.619	36.69	8.17	0.715	29.09	0
2/25/2019 0:15	4.357	31.74	9.1	0.715	29.09	0
2/25/2019 0:30	4.848	53.7	12.9	0.839	29.09	0
2/25/2019 0:45	6.259	58.19	16.96	1.15	29.09	0
2/25/2019 1:00	5.073	70.2	17.99	1.269	29.06	0
2/25/2019 1:15	5.688	87.5	16.75	1.49	29.06	0
2/25/2019 1:30	5.419	76.56	31.62	1.484	29.06	0
2/25/2019 1:45	3.973	9.15	16.99	0.585	29.06	0
2/25/2019 2:00	2.73	21.33	18.18	0.55	29.07	0
2/25/2019 2:15	3.699	19.76	10.89	0.569	29.07	0
2/25/2019 2:30	3.609	23.82	9.96	0.455	29.07	0
2/25/2019 2:45	5.145	19.4	11.1	-0.057	29.07	0
2/25/2019 3:00	5.461	30.18	11.41	-0.434	29.05	0
2/25/2019 3:15	5.961	21.89	10.84	-0.314	29.05	0
2/25/2019 3:30	4.081	28.93	23.33	-0.557	29.05	0
2/25/2019 3:45	5.524	38.62	20	-0.224	29.05	0
2/25/2019 4:00	5.931	44.18	14.47	0.48	29.02	0
2/25/2019 4:15	4.554	44.63	14.66	0.545	29.02	0
2/25/2019 4:30	4.687	40	22.33	0.365	29.02	0
2/25/2019 4:45	3.663	38.21	21.84	0.317	29.02	0
2/25/2019 5:00	3.076	31.35	14.57	0.04	29	0
2/25/2019 5:15	4.511	36.25	23.22	0.004	29	0
2/25/2019 5:30	3.669	46.28	24.49	-0.386	29	0
2/25/2019 5:45	4.699	20.7	10.35	-1.439	29	0
2/25/2019 6:00	5.037	27.26	13.4	-1.384	29.01	0
2/25/2019 6:15	5.812	36.82	12.27	-1.3	29.01	0
2/25/2019 6:30	5.885	40.64	11.23	-1.425	29.01	0
2/25/2019 6:45	6.526	30.37	10.31	-1.96	29.01	0
2/25/2019 7:00	5.988	29.13	10.4	-2.143	28.99	0
2/25/2019 7:15	4.946	23.05	11.54	-2.141	28.99	0
2/25/2019 7:30	5.604	43.35	13.94	-2.18	28.99	0
2/25/2019 7:45	6.725	34.01	12.5	-1.874	28.99	0
2/25/2019 8:00	7.534	31.05	21.59	-1.735	28.97	0
2/25/2019 8:15	6.481	43.2	18.82	-1.507	28.97	0
2/25/2019 8:30	5.759	29.86	15.65	-0.989	28.97	0
2/25/2019 8:45	4.571	36.27	9.54	-0.515	28.97	0
2/25/2019 9:00	1.671	33.68	17.68	-0.157	28.99	0
2/25/2019 9:15	0.192	13.96	4.104	0.019	28.99	0
2/25/2019 9:30	0.084	11.46	8.28	0.143	28.99	0
2/25/2019 9:45	0.001	309.6	3.076	0.841	28.99	0
2/25/2019 10:00	3.335	23.26	7.482	1.299	28.95	0
2/25/2019 10:15	2.142	13.4	4.112	2.043	28.95	0
2/25/2019 10:30	2.64	14.63	10.7	2.413	28.95	0
2/25/2019 10:45	3.592	17.94	19.4	2.608	28.95	0
2/25/2019 11:00	4.058	18.43	33.2	2.919	28.93	0
2/25/2019 11:15	0.001	180.4	0.303	3.181	28.93	0
2/25/2019 11:30	0.724	18.81	10.95	3.541	28.93	0
2/25/2019 11:45	4.56	10.15	25.85	3.848	28.93	0
2/25/2019 12:00	5.706	5.553	26.63	4.127	28.93	0
2/25/2019 12:15	5.595	357.9	22.39	4.318	28.93	0
2/25/2019 12:30	6.152	16.66	16.52	4.421	28.93	0
2/25/2019 12:45	6.356	8.74	15.23	4.148	28.93	0
2/25/2019 13:00	5.863	19.36	15.61	3.934	28.92	0
2/25/2019 13:15	7.352	359.1	23.93	4.111	28.92	0
2/25/2019 13:30	6.907	19.27	12.36	4.098	28.92	0
2/25/2019 13:45	7.126	15.73	14.49	4.182	28.92	0
2/25/2019 14:00	6.533	8.81	14.74	4.253	28.9	0
2/25/2019 14:15	7.019	19.22	13.95	4.199	28.9	0
2/25/2019 14:30	6.942	29.86	12.6	4.241	28.9	0
2/25/2019 14:45	4.034	123.9	69.35	4.036	28.9	0

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2/25/2019 15:00	4.853	263	26.63	3.793	28.9	0
2/25/2019 15:15	3.693	184.8	43.5	3.879	28.9	0
2/25/2019 15:30	5.85	252.8	22.78	3.77	28.9	0
2/25/2019 15:45	9.44	266.8	12.07	3.363	28.9	0
2/25/2019 16:00	7.549	285	7.19	3.209	28.91	0
2/25/2019 16:15	8.37	311.3	14.49	3.05	28.91	0
2/25/2019 16:30	8.13	343.6	15.05	2.832	28.91	0
2/25/2019 16:45	8.41	316.3	12.62	2.457	28.91	0
2/25/2019 17:00	4.046	2.712	19.7	2.264	28.92	0
2/25/2019 17:15	2.965	80.4	21.49	2.333	28.92	0
2/25/2019 17:30	5.031	99.8	16.6	2.218	28.92	0
2/25/2019 17:45	4.714	95	14.8	1.966	28.92	0
2/25/2019 18:00	6.277	150.3	11.99	1.424	28.96	0
2/25/2019 18:15	7.321	163.2	10.47	0.91	28.96	0
2/25/2019 18:30	5.821	186.7	10.51	0.651	28.96	0
2/25/2019 18:45	4.066	179.1	22.57	0.69	28.96	0
2/25/2019 19:00	3.225	207.7	12.25	0.654	28.98	0
2/25/2019 19:15	3.249	153.6	25.96	0.808	28.98	0
2/25/2019 19:30	6.256	134.5	7.133	1.024	28.98	0
2/25/2019 19:45	2.889	67.24	34.16	0.531	28.98	0
2/25/2019 20:00	3.098	89.5	32.02	0.444	29	0
2/25/2019 20:15	4.219	99.2	6.959	0.671	29	0
2/25/2019 20:30	3.869	81.9	20.61	0.74	29	0
2/25/2019 20:45	2.704	41.23	16.17	0.683	29	0
2/25/2019 21:00	2.773	42.53	19.67	0.575	29.02	0
2/25/2019 21:15	2.778	82.8	13.38	0.661	29.02	0
2/25/2019 21:30	1.804	81.4	15.7	0.595	29.02	0
2/25/2019 21:45	4.043	334.3	20.86	0.22	29.02	0
2/25/2019 22:00	6.034	347.8	17.56	0.355	29.06	0
2/25/2019 22:15	4.165	3.403	9.8	0.313	29.06	0
2/25/2019 22:30	3.117	12.06	11.84	0.701	29.06	0
2/25/2019 22:45	3.207	14.18	7.488	0.362	29.06	0
2/25/2019 23:00	2.12	354.1	27.26	0.34	29.07	0
2/25/2019 23:15	1.884	349.5	7.844	0.695	29.07	0
2/25/2019 23:30	1.246	56	10.95	0.406	29.07	0
2/25/2019 23:45	1.582	59.55	5.406	0.299	29.07	0
2/26/2019 0:00	3.327	51.2	6.615	-0.031	29.11	0
2/26/2019 0:15	4.308	26.47	8.58	-0.061	29.11	0
2/26/2019 0:30	5.418	20.49	9.83	-0.499	29.11	0
2/26/2019 0:45	7.395	17.83	11.49	-0.494	29.11	0
2/26/2019 1:00	5.144	31.3	8.48	-0.421	29.12	0
2/26/2019 1:15	4.069	35.43	6.384	-0.192	29.12	0
2/26/2019 1:30	4.01	62.73	10.11	-0.084	29.12	0
2/26/2019 1:45	3.156	66.78	7.503	0.004	29.12	0
2/26/2019 2:00	2.275	38.51	5.936	0.132	29.13	0
2/26/2019 2:15	3.159	52.57	6.165	-0.702	29.13	0
2/26/2019 2:30	3.188	46.75	8.44	-1.074	29.13	0
2/26/2019 2:45	3.021	31.46	13.28	-1.295	29.13	0
2/26/2019 3:00	3.861	24.61	6.471	-1.444	29.16	0
2/26/2019 3:15	4.393	26.08	6.231	-1.543	29.16	0
2/26/2019 3:30	3.755	25.62	7.725	-1.521	29.16	0
2/26/2019 3:45	3.583	18.38	7.25	-1.599	29.16	0
2/26/2019 4:00	3.685	19.72	7.186	-1.642	29.18	0
2/26/2019 4:15	3.985	16.4	6.977	-1.821	29.18	0
2/26/2019 4:30	3.518	13.22	7.69	-1.786	29.18	0
2/26/2019 4:45	3.394	19.15	8.88	-1.84	29.18	0
2/26/2019 5:00	3.422	16.79	8.67	-1.938	29.2	0
2/26/2019 5:15	2.853	22.49	13.09	-1.991	29.2	0
2/26/2019 5:30	2.965	36.92	9.63	-2.046	29.2	0
2/26/2019 5:45	3.624	43.21	8.01	-2.161	29.2	0
2/26/2019 6:00	3.56	41.92	13.88	-2.169	29.2	0
2/26/2019 6:15	3.828	67.79	15.09	-1.69	29.2	0
2/26/2019 6:30	3.647	60	16.25	-1.753	29.2	0
2/26/2019 6:45	5.246	99.7	11.07	-1.655	29.2	0
2/26/2019 7:00	6.825	115.5	7.906	-1.242	29.21	0
2/26/2019 7:15	6.327	114.1	8.51	-1.37	29.21	0

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2/26/2019 7:30	5.523	109.3	9.67	-1.073	29.21	0
2/26/2019 7:45	5.684	117	10.34	-0.867	29.21	0
2/26/2019 8:00	4.925	125.2	8.56	-0.66	29.25	0
2/26/2019 8:15	3.48	119.2	14.21	-0.226	29.25	0
2/26/2019 8:30	2.189	90.6	28.62	-0.049	29.25	0
2/26/2019 8:45	1.724	104.8	55.95	0.508	29.25	0
2/26/2019 9:00	1.417	93.9	65.14	0.94	29.28	0
2/26/2019 9:15	3.913	95.9	51.84	1.114	29.28	0
2/26/2019 9:30	6.066	114.2	18.09	1.245	29.28	0
2/26/2019 9:45	7.446	116	19.24	1.738	29.28	0
2/26/2019 10:00	8.88	113.7	17.15	2.011	29.28	0
2/26/2019 10:15	10.99	99.3	17.61	1.979	29.28	0
2/26/2019 10:30	12.86	114.6	19.21	2.14	29.28	0
2/26/2019 10:45	11.3	126.5	16.64	2.548	29.28	0
2/26/2019 11:00	10.86	117.8	18.95	2.576	29.27	0
2/26/2019 11:15	10.48	103.3	29.11	2.581	29.27	0
2/26/2019 11:30	11.27	86.5	22.46	2.304	29.27	0
2/26/2019 11:45	12.43	91.6	20.73	2.243	29.27	0
2/26/2019 12:00	11.2	102.6	24.94	2.475	29.27	0
2/26/2019 12:15	12.18	112.1	12.88	2.456	29.27	0
2/26/2019 12:30	12.12	113	13.09	2.572	29.27	0
2/26/2019 12:45	11.97	113.5	23.22	2.639	29.27	0
2/26/2019 13:00	10.23	109.6	21.71	2.93	29.25	0
2/26/2019 13:15	13.2	126	14.67	2.829	29.25	0
2/26/2019 13:30	14.65	111	17.03	2.5	29.25	0
2/26/2019 13:45	15.03	104.8	16.22	2.499	29.25	0
2/26/2019 14:00	12.46	113.5	17.42	2.837	29.25	0
2/26/2019 14:15	15.53	112.8	17.22	2.408	29.25	0
2/26/2019 14:30	15.92	125.1	13.63	2.375	29.25	0
2/26/2019 14:45	17.44	118.5	13.23	1.853	29.25	0
2/26/2019 15:00	14.47	120.5	14.54	1.774	29.25	0
2/26/2019 15:15	16.7	120.7	13.46	1.623	29.25	0
2/26/2019 15:30	19.86	123.6	14.45	1.278	29.25	0
2/26/2019 15:45	20.13	122.7	13.03	1.016	29.25	0
2/26/2019 16:00	16.82	127.9	12.96	0.974	29.23	0
2/26/2019 16:15	18.65	124.9	13.02	0.733	29.23	0
2/26/2019 16:30	16.26	120.7	14.11	0.616	29.23	0
2/26/2019 16:45	13.02	112.3	13.34	0.471	29.23	0
2/26/2019 17:00	16.04	114.7	13.52	0.192	29.22	0
2/26/2019 17:15	12.63	108.6	17.41	0.019	29.22	0
2/26/2019 17:30	10.15	111.1	15.7	-0.181	29.22	0
2/26/2019 17:45	10.62	108.9	16.15	-0.444	29.22	0
2/26/2019 18:00	10.26	111.8	14.67	-0.63	29.22	0
2/26/2019 18:15	8.97	105.9	17.24	-0.75	29.22	0
2/26/2019 18:30	8.21	105.9	16.5	-0.842	29.22	0
2/26/2019 18:45	8.82	111.8	12.65	-0.957	29.22	0
2/26/2019 19:00	7.364	99.3	15.32	-1.047	29.22	0
2/26/2019 19:15	7.931	88.7	17.1	-1.06	29.22	0
2/26/2019 19:30	6.425	87.8	22.6	-1.282	29.22	0
2/26/2019 19:45	7.621	98	17.41	-0.956	29.22	0
2/26/2019 20:00	6.148	86.8	22.15	-0.878	29.18	0
2/26/2019 20:15	8.73	92.8	19.78	-0.788	29.18	0
2/26/2019 20:30	11.32	110.1	18.55	-0.696	29.18	0
2/26/2019 20:45	10.01	111.7	13.97	-0.737	29.18	0
2/26/2019 21:00	9.13	109.9	18.48	-0.664	29.17	0
2/26/2019 21:15	10.3	107.3	14.52	-0.72	29.17	0
2/26/2019 21:30	12.07	105.9	14.39	-0.719	29.17	0
2/26/2019 21:45	13.19	101.1	16.74	-0.761	29.17	0
2/26/2019 22:00	12.19	85.1	20.96	-0.896	29.15	0
2/26/2019 22:15	12.15	98.8	19.97	-0.844	29.15	0
2/26/2019 22:30	13.77	104.5	16.48	-0.729	29.15	0
2/26/2019 22:45	8.5	103.3	24.3	-0.797	29.15	0
2/26/2019 23:00	9.43	110.1	20.89	-0.712	29.1	0
2/26/2019 23:15	8.66	99.2	18.66	-0.585	29.1	0
2/26/2019 23:30	5.726	95	23.81	-0.698	29.1	0
2/26/2019 23:45	3.653	103.8	15.65	-0.842	29.1	0

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2/27/2019 0:00	3.23	48.76	29.11	-0.882	29.07	0
2/27/2019 0:15	6.22	54.24	22.41	-0.827	29.07	0
2/27/2019 0:30	4.976	62.59	26.7	-0.569	29.07	0
2/27/2019 0:45	5.72	75.01	18.98	-0.649	29.07	0
2/27/2019 1:00	9.86	91.4	17.55	-0.152	29.05	0
2/27/2019 1:15	7.379	79.35	22.03	-0.047	29.05	0
2/27/2019 1:30	9.46	86.8	22.98	0.073	29.05	0
2/27/2019 1:45	6.329	52.09	30.75	-0.783	29.05	0
2/27/2019 2:00	5.071	53.15	18.32	-1.077	29.04	0
2/27/2019 2:15	5.763	30.58	21.55	-1.047	29.04	0
2/27/2019 2:30	8.59	81.9	29.64	-0.454	29.04	0
2/27/2019 2:45	6.337	106.1	28.55	0.143	29.04	0
2/27/2019 3:00	8	111.5	15.95	0.157	28.99	0
2/27/2019 3:15	12.44	103.1	21.11	0.391	28.99	0
2/27/2019 3:30	14.89	101.6	19.48	0.449	28.99	0
2/27/2019 3:45	11.94	102.1	16.98	0.459	28.99	0
2/27/2019 4:00	10.58	98.8	20.41	0.518	29	0
2/27/2019 4:15	7.947	102.5	21.19	0.475	29	0
2/27/2019 4:30	3.805	117	25.98	0.427	29	0
2/27/2019 4:45	1.568	104.9	56.35	0.443	29	0
2/27/2019 5:00	3.958	161.1	28.7	0.495	28.99	0
2/27/2019 5:15	2.14	154.6	17.23	0.384	28.99	0
2/27/2019 5:30	2.881	36.31	69.79	0.71	28.99	0
2/27/2019 5:45	3.281	158.1	55.83	0.739	28.99	0
2/27/2019 6:00	5.195	142.2	30.46	1.173	28.97	0
2/27/2019 6:15	2.07	137	28.4	0.982	28.97	0
2/27/2019 6:30	2.263	167.6	61.62	1.059	28.97	0
2/27/2019 6:45	2.857	184.5	45.64	1.08	28.97	0
2/27/2019 7:00	3.513	193.9	25.73	1.099	28.98	0
2/27/2019 7:15	5.54	162.5	13.58	1.169	28.98	0
2/27/2019 7:30	6.614	155.1	13.2	1.214	28.98	0
2/27/2019 7:45	7.254	155.4	11.19	1.326	28.98	0
2/27/2019 8:00	7.386	161.2	12.03	1.52	28.97	0
2/27/2019 8:15	7.095	158.8	9.35	1.639	28.97	0
2/27/2019 8:30	4.545	156.9	16.32	1.745	28.97	0
2/27/2019 8:45	4.921	161.8	15.32	1.908	28.97	0
2/27/2019 9:00	3.482	143.9	16.14	2.087	28.99	0
2/27/2019 9:15	1.948	155.2	38.25	2.295	28.99	0
2/27/2019 9:30	4.07	308.9	19.36	2.056	28.99	0
2/27/2019 9:45	3.851	329.3	26.58	2.145	28.99	0
2/27/2019 10:00	4.986	310	17.86	2.292	29.01	0
2/27/2019 10:15	3.748	327.4	18.45	2.758	29.01	0
2/27/2019 10:30	2.788	326.3	31.48	3.015	29.01	0
2/27/2019 10:45	3.576	165.2	80.9	3.299	29.01	0
2/27/2019 11:00	4.68	98.6	50.49	3.606	29	0
2/27/2019 11:15	9.87	132.6	23.57	3.91	29	0
2/27/2019 11:30	11.95	137.5	11.8	4.311	29	0
2/27/2019 11:45	11.9	145.2	13.76	4.592	29	0
2/27/2019 12:00	13.32	149.3	12.55	4.925	29.01	0
2/27/2019 12:15	12.39	144.4	12.24	5.441	29.01	0
2/27/2019 12:30	13.17	150.6	15.74	5.443	29.01	0
2/27/2019 12:45	11.35	141.1	17.4	5.661	29.01	0
2/27/2019 13:00	9.42	204.6	19.23	5.808	29.04	0
2/27/2019 13:15	13.27	178.4	12.29	5.919	29.04	0
2/27/2019 13:30	12.19	171.7	12.67	5.855	29.04	0
2/27/2019 13:45	10.57	167	13.3	5.96	29.04	0
2/27/2019 14:00	9.97	161.9	10.6	5.849	29.05	0
2/27/2019 14:15	10.85	169.3	7.947	5.722	29.05	0
2/27/2019 14:30	8.45	217.1	34.36	5.407	29.05	0
2/27/2019 14:45	6.76	244.1	16.05	5.318	29.05	0
2/27/2019 15:00	5.906	235.4	16.63	5.38	29.06	0
2/27/2019 15:15	4.486	227.4	20.99	5.465	29.06	0
2/27/2019 15:30	6.777	253.7	26.24	5.247	29.06	0
2/27/2019 15:45	7.802	266.8	9.51	4.645	29.06	0
2/27/2019 16:00	9.58	257.9	11.07	4.124	29.1	0
2/27/2019 16:15	8.64	264.3	8.46	3.765	29.1	0



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2/27/2019 16:30	8.07	248	9.49	3.527	29.1	0
2/27/2019 16:45	7.266	258.7	9.04	3.276	29.1	0
2/27/2019 17:00	6.798	246.5	12.07	3.185	29.12	0
2/27/2019 17:15	4.014	250.5	9.59	3.019	29.12	0
2/27/2019 17:30	3.457	234.5	16.93	2.9	29.12	0
2/27/2019 17:45	5.647	233.2	7.955	2.793	29.12	0
2/27/2019 18:00	5.999	237	7.812	2.661	29.14	0
2/27/2019 18:15	5.169	235.4	10.04	2.559	29.14	0
2/27/2019 18:30	2.805	208.6	6.633	2.496	29.14	0
2/27/2019 18:45	3.43	182	22.92	2.453	29.14	0
2/27/2019 19:00	2.92	144.5	26.81	2.342	29.15	0
2/27/2019 19:15	4.356	122.6	13.18	2.184	29.15	0
2/27/2019 19:30	5.575	127	7.718	2.331	29.15	0
2/27/2019 19:45	5.775	136.6	10.49	2.393	29.15	0
2/27/2019 20:00	5.73	133.3	9.44	2.25	29.19	0
2/27/2019 20:15	5.115	118.6	17.54	2.095	29.19	0
2/27/2019 20:30	5.14	133.6	14.46	1.902	29.19	0
2/27/2019 20:45	5.513	141.6	13.29	1.768	29.19	0
2/27/2019 21:00	4.889	142.7	17.25	1.599	29.2	0
2/27/2019 21:15	5.576	170.9	16.34	1.576	29.2	0
2/27/2019 21:30	5.881	164.9	19	1.572	29.2	0
2/27/2019 21:45	5.799	191.8	19.74	1.333	29.2	0
2/27/2019 22:00	5.449	175.8	26.67	1.237	29.21	0
2/27/2019 22:15	5.521	179.9	22.52	1.319	29.21	0
2/27/2019 22:30	5.395	192.6	18.17	1.346	29.21	0
2/27/2019 22:45	4.203	192.6	14.84	1.279	29.21	0
2/27/2019 23:00	2.826	191	18.05	1.159	29.24	0
2/27/2019 23:15	1.351	155.1	27.5	1.19	29.24	0
2/27/2019 23:30	2.995	104.6	6.781	0.994	29.24	0
2/27/2019 23:45	3.599	97.9	7.498	0.877	29.24	0
2/28/2019 0:00	3.79	109.9	10.21	0.658	29.23	0
2/28/2019 0:15	4.59	131.5	7.422	0.557	29.23	0
2/28/2019 0:30	3.661	126.5	9.84	0.554	29.23	0
2/28/2019 0:45	3.534	128.4	7.14	0.359	29.23	0
2/28/2019 1:00	2.996	156.1	12.51	0.518	29.24	0
2/28/2019 1:15	3.831	140.3	9.66	0.078	29.24	0
2/28/2019 1:30	1.476	91.8	23.83	-0.505	29.24	0
2/28/2019 1:45	2.239	102.6	17.56	-0.851	29.24	0
2/28/2019 2:00	3.495	136	10.18	-0.2	29.26	0
2/28/2019 2:15	3.661	151.4	9.68	-0.185	29.26	0
2/28/2019 2:30	2.688	142.1	21.69	-0.073	29.26	0
2/28/2019 2:45	3.184	112.5	6.759	-0.498	29.26	0
2/28/2019 3:00	3.613	145	9.84	-0.735	29.25	0
2/28/2019 3:15	3.112	154.1	9.48	-0.382	29.25	0
2/28/2019 3:30	3.304	144.2	10.19	-0.31	29.25	0
2/28/2019 3:45	4.243	144.4	8.01	-0.478	29.25	0
2/28/2019 4:00	4.879	169.8	6.305	-0.607	29.23	0
2/28/2019 4:15	3.915	171.8	6.9	-0.583	29.23	0
2/28/2019 4:30	1.817	165	12.7	-0.726	29.23	0
2/28/2019 4:45	1.974	191.7	27.16	-1.169	29.23	0
2/28/2019 5:00	3.177	174.6	21.46	-1.143	29.22	0
2/28/2019 5:15	2.85	68.34	39.02	-1.497	29.22	0
2/28/2019 5:30	0.734	138.8	33.15	-1.79	29.22	0
2/28/2019 5:45	3.229	187	16.91	-1.363	29.22	0
2/28/2019 6:00	3.669	196.8	13.77	-1.799	29.24	0
2/28/2019 6:15	4.268	185	9.43	-1.832	29.24	0
2/28/2019 6:30	4.462	182.2	8.94	-1.992	29.24	0
2/28/2019 6:45	4.132	169.5	9.95	-1.949	29.24	0
2/28/2019 7:00	2.148	105.6	30.07	-1.834	29.25	0
2/28/2019 7:15	2.149	85.1	18.05	-1.91	29.25	0
2/28/2019 7:30	3.527	147.2	13.51	-1.521	29.25	0
2/28/2019 7:45	2.75	136.1	14.15	-1.19	29.25	0
2/28/2019 8:00	2.565	151.9	17.16	-0.765	29.25	0
2/28/2019 8:15	1.039	154.3	40.87	-0.107	29.25	0
2/28/2019 8:30	1.665	109.2	24.63	0.263	29.25	0
2/28/2019 8:45	2.049	143.6	14.51	0.623	29.25	0

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2/28/2019 9:00	1.595	107.4	25.45	1.583	29.25	0
2/28/2019 9:15	2.255	83.9	20.55	1.649	29.25	0
2/28/2019 9:30	2.685	103.3	20.09	1.914	29.25	0
2/28/2019 9:45	2.794	72.5	22.28	2.001	29.25	0
2/28/2019 10:00	2.169	60.08	31.37	2.754	29.24	0
2/28/2019 10:15	0.81	173.6	83.9	4.01	29.24	0
2/28/2019 10:30	1.558	255.9	29.88	4.272	29.24	0
2/28/2019 10:45	1.267	289.1	27.31	4.55	29.24	0
2/28/2019 11:00	2.209	352.1	26.63	5.222	29.25	0
2/28/2019 11:15	2.264	338.8	29.22	5.483	29.25	0
2/28/2019 11:30	2.582	193.8	38.43	5.939	29.25	0
2/28/2019 11:45	2.821	234.9	30.84	5.604	29.25	0
2/28/2019 12:00	4.417	260	49.03	5.805	29.24	0
2/28/2019 12:15	3.633	233.3	50.19	6.025	29.24	0
2/28/2019 12:30	3.766	203.2	42.99	6.529	29.24	0
2/28/2019 12:45	4.361	276	25.6	6.396	29.24	0
2/28/2019 13:00	5.446	290.2	12.78	6.571	29.23	0
2/28/2019 13:15	2.815	292.4	16.93	6.737	29.23	0
2/28/2019 13:30	2.945	343.8	23.3	7.033	29.23	0
2/28/2019 13:45	2.018	306.7	47.58	7.213	29.23	0
2/28/2019 14:00	1.636	302.9	21.67	7.45	29.24	0
2/28/2019 14:15	2.177	301.4	48.91	7.63	29.24	0
2/28/2019 14:30	4.515	50.33	19.78	7.157	29.24	0
2/28/2019 14:45	4.483	9.53	35.23	7.295	29.24	0
2/28/2019 15:00	5.629	347.7	32.43	7.437	29.23	0
2/28/2019 15:15	7.709	339.2	21.46	7.326	29.23	0
2/28/2019 15:30	7.388	317.2	11.63	7.25	29.23	0
2/28/2019 15:45	6.784	326.7	18.28	7.403	29.23	0
2/28/2019 16:00	6.27	333.6	34.62	7.471	29.23	0
2/28/2019 16:15	7.379	29.15	9.74	6.786	29.23	0
2/28/2019 16:30	6.688	17.46	11.94	6.741	29.23	0
2/28/2019 16:45	6.09	22.02	10.79	6.691	29.23	0
2/28/2019 17:00	6.841	25.72	8.39	6.44	29.23	0
2/28/2019 17:15	5.359	17.79	9.95	6.252	29.23	0
2/28/2019 17:30	3.862	351.2	18.49	5.902	29.23	0
2/28/2019 17:45	4.61	316.7	5.059	5.436	29.23	0
2/28/2019 18:00	5.059	332.3	17.81	5.173	29.21	0
2/28/2019 18:15	4.955	324.2	14.29	4.985	29.21	0
2/28/2019 18:30	5.226	311.3	4.756	4.882	29.21	0
2/28/2019 18:45	4.519	310	6.428	4.571	29.21	0
2/28/2019 19:00	4.315	313.8	11.49	4.663	29.23	0
2/28/2019 19:15	1.381	39.14	56.77	4.155	29.23	0
2/28/2019 19:30	0.969	124.8	7.108	4.048	29.23	0
2/28/2019 19:45	4.829	247	16.6	4.262	29.23	0
2/28/2019 20:00	3.286	243	17.86	3.639	29.27	0
2/28/2019 20:15	2.38	299.9	22.45	3.471	29.27	0
2/28/2019 20:30	0.677	17.7	21.14	3.245	29.27	0
2/28/2019 20:45	1.511	76.6	18.39	2.912	29.27	0
2/28/2019 21:00	2.063	89.4	9.15	2.83	29.29	0
2/28/2019 21:15	1.626	76.65	6.499	3.046	29.29	0
2/28/2019 21:30	1.351	76.06	2.888	3.017	29.29	0
2/28/2019 21:45	1.682	79.91	5.864	2.718	29.29	0
2/28/2019 22:00	1.938	38.38	16.29	2.954	29.28	0
2/28/2019 22:15	3.211	41.91	10.77	2.781	29.28	0
2/28/2019 22:30	4.156	28.68	7.209	2.227	29.28	0
2/28/2019 22:45	5.516	21.96	7.579	2.276	29.28	0
2/28/2019 23:00	6.165	9.11	11.32	2.756	29.29	0
2/28/2019 23:15	1.88	6.768	15.16	2.796	29.29	0
2/28/2019 23:30	0.492	281.9	40.82	2.479	29.29	0
2/28/2019 23:45	0.905	82.3	56.31	2.309	29.29	0
3/1/2019 0:00	2.363	16.49	12.83	2.343	29.31	0
3/1/2019 0:15	2.105	17.7	13.47	2.48	29.31	0
3/1/2019 0:30	2.41	31.89	7.923	2.341	29.31	0
3/1/2019 0:45	1.52	59.57	9.39	2.245	29.31	0
3/1/2019 1:00	1.096	60.98	5.653	2.326	29.29	0
3/1/2019 1:15	1.616	64.37	8.89	2.645	29.29	0

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3/1/2019 1:30	2.174	113.5	26.07	1.903	29.29	0
3/1/2019 1:45	1.425	114.8	32.95	2.255	29.29	0
3/1/2019 2:00	1.541	85.7	6.13	2.441	29.31	0
3/1/2019 2:15	2.017	166	39.54	2.33	29.31	0
3/1/2019 2:30	1.958	148.6	45.55	2.48	29.31	0
3/1/2019 2:45	1.19	153	51.87	2.028	29.31	0
3/1/2019 3:00	1.231	190.6	23.31	1.721	29.3	0
3/1/2019 3:15	1.909	9.89	16.12	1.949	29.3	0
3/1/2019 3:30	2.356	330.7	9.63	1.573	29.3	0
3/1/2019 3:45	1.505	1.133	21.65	2.179	29.3	0
3/1/2019 4:00	0.104	46.1	2.352	1.217	29.29	0
3/1/2019 4:15	2.2	177.1	20.53	1.016	29.29	0
3/1/2019 4:30	2.153	167.3	3.487	1.04	29.29	0
3/1/2019 4:45	1.177	139.9	19.6	1.072	29.29	0
3/1/2019 5:00	1.835	73.74	10.59	0.59	29.27	0
3/1/2019 5:15	2.682	40.44	10.44	0.336	29.27	0
3/1/2019 5:30	2.45	38.67	15.58	0.798	29.27	0
3/1/2019 5:45	2.413	70.18	4.122	0.374	29.27	0
3/1/2019 6:00	2.789	71.66	3.589	0.302	29.29	0
3/1/2019 6:15	2.105	67.6	8.04	0.428	29.29	0
3/1/2019 6:30	3.002	140.1	26.27	0.183	29.29	0
3/1/2019 6:45	2.299	159.4	30.87	0.839	29.29	0
3/1/2019 7:00	1.717	72.17	13.13	0.822	29.29	0
3/1/2019 7:15	3.061	29.61	4.421	-0.243	29.29	0
3/1/2019 7:30	2.152	269.1	58.72	0.133	29.29	0
3/1/2019 7:45	0.868	7.647	41.88	0.146	29.29	0
3/1/2019 8:00	2.17	25.7	9.96	0.258	29.27	0
3/1/2019 8:15	2.644	355.2	14.03	0.521	29.27	0
3/1/2019 8:30	3.279	340.1	6.876	1.324	29.27	0
3/1/2019 8:45	1.161	350.5	33.8	2.136	29.27	0
3/1/2019 9:00	0.3	94.4	29.94	2.279	29.32	0
3/1/2019 9:15	0.573	57.61	17.93	2.5	29.32	0
3/1/2019 9:30	1.255	318.6	42.83	3.703	29.32	0
3/1/2019 9:45	0.785	291	54.93	3.283	29.32	0
3/1/2019 10:00	1.371	241.8	32.98	3.388	29.31	0
3/1/2019 10:15	1.975	332.6	13.48	3.832	29.31	0
3/1/2019 10:30	2.271	357.2	19.92	4.116	29.31	0
3/1/2019 10:45	3.169	2.12	28.63	4.254	29.31	0
3/1/2019 11:00	3.26	338.9	26.53	5.151	29.28	0
3/1/2019 11:15	4.772	352.5	24.17	5.762	29.28	0
3/1/2019 11:30	8.44	18.26	22.18	6.108	29.28	0
3/1/2019 11:45	11.15	28.46	9.18	6.211	29.28	0
3/1/2019 12:00	10.04	30.38	10.93	6.557	29.27	0
3/1/2019 12:15	8.32	37.12	13.26	6.852	29.27	0
3/1/2019 12:30	7.575	35.39	16.97	7.128	29.27	0
3/1/2019 12:45	6.8	29.09	18.68	7.447	29.27	0
3/1/2019 13:00	6.618	12.14	29.05	7.373	29.26	0
3/1/2019 13:15	3.777	3.215	31.31	8.14	29.26	0
3/1/2019 13:30	6.964	342.1	18.17	8.08	29.26	0
3/1/2019 13:45	5.768	323.2	36.52	8.21	29.26	0
3/1/2019 14:00	4.378	332.6	28.77	7.973	29.28	0
3/1/2019 14:15	5.73	338.6	17.73	7.618	29.28	0
3/1/2019 14:30	9.67	324.8	7.911	7.823	29.28	0
3/1/2019 14:45	6.657	332.8	8.5	7.536	29.28	0
3/1/2019 15:00	4.346	332.4	19.69	7.713	29.28	0
3/1/2019 15:15	5.965	316.9	21.16	7.981	29.28	0
3/1/2019 15:30	3.589	340.3	23.93	8.36	29.28	0
3/1/2019 15:45	5.581	330.8	28.32	8.04	29.28	0
3/1/2019 16:00	6.249	299.1	19.37	8.08	29.27	0
3/1/2019 16:15	7.233	304.7	20.46	7.876	29.27	0
3/1/2019 16:30	6.067	286.3	10.29	7.903	29.27	0
3/1/2019 16:45	5.804	303.5	17.37	7.765	29.27	0
3/1/2019 17:00	6.22	309.2	11.96	7.501	29.27	0
3/1/2019 17:15	6.916	304.2	8.85	7.082	29.27	0
3/1/2019 17:30	6.657	305.2	7.8	6.653	29.27	0
3/1/2019 17:45	6.653	316.7	4.122	5.874	29.27	0

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3/1/2019 18:00	5.277	316.6	4.602	5.404	29.28	0
3/1/2019 18:15	5.386	308.9	6.342	5.287	29.28	0
3/1/2019 18:30	4.833	307.9	5.663	5.155	29.28	0
3/1/2019 18:45	3.686	343	31.51	4.893	29.28	0
3/1/2019 19:00	1.701	25.49	13.16	4.673	29.29	0
3/1/2019 19:15	3.091	17.81	15.21	4.273	29.29	0
3/1/2019 19:30	3.48	18.59	10.81	3.912	29.29	0
3/1/2019 19:45	4.397	27.19	12.55	3.622	29.29	0
3/1/2019 20:00	6.776	27.26	9.61	3.61	29.28	0
3/1/2019 20:15	4.877	35.68	13.02	3.333	29.28	0
3/1/2019 20:30	5.829	43.04	10.61	2.804	29.28	0
3/1/2019 20:45	7.385	42.09	9.24	2.931	29.28	0
3/1/2019 21:00	6.886	42.88	7.389	2.938	29.29	0
3/1/2019 21:15	6.734	41.58	6.25	2.571	29.29	0
3/1/2019 21:30	6.605	42.7	6.765	2.112	29.29	0
3/1/2019 21:45	7.027	40.31	5.979	1.744	29.29	0
3/1/2019 22:00	6.265	37.44	8.83	1.767	29.32	0
3/1/2019 22:15	7.854	40.42	6.982	1.841	29.32	0
3/1/2019 22:30	7.64	39.34	8.15	2.387	29.32	0
3/1/2019 22:45	6.985	36.15	7.503	2.407	29.32	0
3/1/2019 23:00	6.259	39.99	7.643	2.375	29.29	0
3/1/2019 23:15	5.654	42.12	8.91	2.124	29.29	0
3/1/2019 23:30	5.315	43.29	10.46	1.934	29.29	0
3/1/2019 23:45	4.662	50.2	8.09	1.562	29.29	0
3/2/2019 0:00	2.697	48.42	7.534	1.454	29.32	0
3/2/2019 0:15	2.542	25.46	17.42	1.607	29.32	0
3/2/2019 0:30	2.622	358.6	12.25	2.009	29.32	0
3/2/2019 0:45	3.123	339.1	3.394	1.763	29.32	0
3/2/2019 1:00	2.301	9.74	14.63	1.95	29.3	0
3/2/2019 1:15	2.109	107	17.48	2.003	29.3	0
3/2/2019 1:30	3.707	78.87	21.85	1.167	29.3	0
3/2/2019 1:45	3.439	57.44	7.809	0.795	29.3	0
3/2/2019 2:00	2.794	43.01	9.76	0.915	29.32	0
3/2/2019 2:15	2.061	25.38	8.96	1.355	29.32	0
3/2/2019 2:30	2.421	26.6	11.38	1.62	29.32	0
3/2/2019 2:45	2.846	358.4	11.06	1.364	29.32	0
3/2/2019 3:00	2.831	312.2	11.93	1.352	29.29	0
3/2/2019 3:15	2.13	295.6	1.715	1.266	29.29	0
3/2/2019 3:30	0.639	328.6	23.67	1.059	29.29	0
3/2/2019 3:45	1.585	337.4	10.4	1.235	29.29	0
3/2/2019 4:00	0.633	8.67	26.03	0.989	29.31	0
3/2/2019 4:15	1.938	55.41	6.737	0.363	29.31	0
3/2/2019 4:30	3.782	28.06	8.4	0.284	29.31	0
3/2/2019 4:45	3.492	28.82	4.864	0.032	29.31	0
3/2/2019 5:00	3.409	37.69	10.35	-0.261	29.28	0
3/2/2019 5:15	4.727	51.24	10.05	-0.947	29.28	0
3/2/2019 5:30	5.334	38.05	10.67	-1.684	29.28	0
3/2/2019 5:45	6.692	31.78	8.05	-1.338	29.28	0
3/2/2019 6:00	6.32	31.76	8.06	-1.49	29.29	0
3/2/2019 6:15	5.558	30.83	6.849	-1.473	29.29	0
3/2/2019 6:30	5.468	22.46	9.86	-1.43	29.29	0
3/2/2019 6:45	6.686	33.1	11.42	-1.384	29.29	0
3/2/2019 7:00	6.743	35.33	9.15	-1.657	29.3	0
3/2/2019 7:15	6.091	31.94	8.14	-1.504	29.3	0
3/2/2019 7:30	5.934	23.71	9.66	-1.116	29.3	0
3/2/2019 7:45	5.021	21.29	8.76	-0.738	29.3	0
3/2/2019 8:00	4.31	39.77	10.29	-0.423	29.31	0
3/2/2019 8:15	4.24	30.78	8.03	-0.059	29.31	0
3/2/2019 8:30	4.124	35.5	9.79	0.327	29.31	0
3/2/2019 8:45	3.595	22.06	5.866	0.774	29.31	0
3/2/2019 9:00	2.866	26.28	13.53	1.532	29.3	0
3/2/2019 9:15	2.853	2.208	28.88	2.362	29.3	0
3/2/2019 9:30	2.243	15.95	22.71	3.161	29.3	0
3/2/2019 9:45	2.365	9.91	18.45	4.011	29.3	0
3/2/2019 10:00	2.691	5.12	17.97	4.33	29.29	0
3/2/2019 10:15	3.554	7.714	18.03	5.152	29.29	0

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3/2/2019 10:30	3.696	32.59	20.41	5.393	29.29	0
3/2/2019 10:45	3.312	25.69	24.28	6.101	29.29	0
3/2/2019 11:00	3.046	44.64	16.72	6.406	29.29	0
3/2/2019 11:15	3.277	39.19	33.01	6.861	29.29	0
3/2/2019 11:30	4.251	76.49	32.49	7.389	29.29	0
3/2/2019 11:45	5.99	87	46.93	7.68	29.29	0
3/2/2019 12:00	10.56	149.7	13.08	8.1	29.28	0
3/2/2019 12:15	7.995	126.4	24.54	8.08	29.28	0
3/2/2019 12:30	9.83	122	14.3	7.964	29.28	0
3/2/2019 12:45	9.11	128.4	15.27	8.2	29.28	0
3/2/2019 13:00	9.03	142.4	19.02	8.34	29.26	0
3/2/2019 13:15	8.36	138.4	21.2	8.63	29.26	0
3/2/2019 13:30	9.07	116.6	32.86	8.47	29.26	0
3/2/2019 13:45	7.107	123.3	22.83	8.51	29.26	0
3/2/2019 14:00	8.33	83.4	22.46	8.28	29.27	0
3/2/2019 14:15	8.25	97.1	19.63	7.87	29.27	0
3/2/2019 14:30	7.597	102.9	12.94	7.953	29.27	0
3/2/2019 14:45	7.324	89.2	19.9	8.08	29.27	0
3/2/2019 15:00	7.192	76.83	18.55	7.875	29.28	0
3/2/2019 15:15	6.548	83.7	25.17	8.36	29.28	0
3/2/2019 15:30	6.725	112.4	35.7	8.05	29.28	0
3/2/2019 15:45	12.65	145.4	13.68	7.674	29.28	0
3/2/2019 16:00	12.13	131.9	14.68	7.485	29.28	0
3/2/2019 16:15	10.02	125.8	13.51	7.113	29.28	0
3/2/2019 16:30	8.37	128.4	13.8	6.992	29.28	0
3/2/2019 16:45	8.61	134.5	12.17	6.687	29.28	0
3/2/2019 17:00	6.436	130.4	12.25	6.53	29.3	0
3/2/2019 17:15	5.442	122.4	18.01	6.274	29.3	0
3/2/2019 17:30	6.566	135.2	15.2	5.779	29.3	0
3/2/2019 17:45	8.46	124.6	13.07	5.43	29.3	0
3/2/2019 18:00	6.24	114.7	15.43	5.111	29.29	0
3/2/2019 18:15	6.696	124.6	18.13	4.853	29.29	0
3/2/2019 18:30	6.624	110.3	17.97	4.563	29.29	0
3/2/2019 18:45	4.418	108.1	19.18	4.33	29.29	0
3/2/2019 19:00	2.908	76.52	20.11	4.026	29.31	0
3/2/2019 19:15	1.748	48.4	18.94	3.785	29.31	0
3/2/2019 19:30	0.779	56.7	12.73	3.561	29.31	0
3/2/2019 19:45	2.111	125.7	38.21	3.389	29.31	0
3/2/2019 20:00	3.214	165.7	17.49	3.107	29.35	0
3/2/2019 20:15	5.711	128.6	11.24	3.078	29.35	0
3/2/2019 20:30	5.3	108.1	11.9	2.949	29.35	0
3/2/2019 20:45	4.691	96.7	17.62	2.772	29.35	0
3/2/2019 21:00	3.879	84.3	15.38	2.766	29.36	0
3/2/2019 21:15	3.594	90	35.13	2.665	29.36	0
3/2/2019 21:30	4.016	75.24	33.25	2.742	29.36	0
3/2/2019 21:45	3.621	81.1	24.12	2.595	29.36	0
3/2/2019 22:00	3.37	89.9	13.15	2.429	29.36	0
3/2/2019 22:15	2.092	92.8	18.99	2.561	29.36	0
3/2/2019 22:30	2.773	115.7	28.91	2.232	29.36	0
3/2/2019 22:45	6.82	139.9	9.84	2.098	29.36	0
3/2/2019 23:00	7.19	126.1	11.93	2.082	29.38	0
3/2/2019 23:15	7.865	125.2	13.2	2.056	29.38	0
3/2/2019 23:30	8.24	126.7	11.52	2.013	29.38	0
3/2/2019 23:45	7.875	127.1	14.17	2.028	29.38	0
3/3/2019 0:00	7.26	124.6	12.59	1.902	29.38	0
3/3/2019 0:15	5.267	116.6	15.88	1.564	29.38	0
3/3/2019 0:30	6.271	127.6	10.1	1.699	29.38	0
3/3/2019 0:45	7.258	126.1	11.46	1.706	29.38	0
3/3/2019 1:00	8.38	125.4	10.32	1.76	29.39	0
3/3/2019 1:15	6.794	122.4	12.82	1.628	29.39	0
3/3/2019 1:30	6.14	122.7	13.79	1.353	29.39	0
3/3/2019 1:45	9.75	132.6	10.39	1.441	29.39	0
3/3/2019 2:00	11.74	129	11.4	1.44	29.41	0
3/3/2019 2:15	10.84	128.2	12.34	1.308	29.41	0
3/3/2019 2:30	9.91	125.9	11.63	1.179	29.41	0
3/3/2019 2:45	10.37	130.4	10.26	1.201	29.41	0

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3/3/2019 3:00	9.35	127.6	11.33	1.062	29.39	0
3/3/2019 3:15	8.62	130.3	12.06	0.94	29.39	0
3/3/2019 3:30	6.463	118.8	14.91	0.772	29.39	0
3/3/2019 3:45	5.701	120.5	18.41	0.612	29.39	0
3/3/2019 4:00	5.749	120.7	12.32	0.5	29.42	0
3/3/2019 4:15	4.597	103.8	22.15	0.308	29.42	0
3/3/2019 4:30	4.418	101.8	18.6	0.145	29.42	0
3/3/2019 4:45	3.425	86.5	26.7	-0.008	29.42	0
3/3/2019 5:00	3.497	89.2	24.05	0.152	29.41	0
3/3/2019 5:15	2.381	63.28	11.68	0.178	29.41	0
3/3/2019 5:30	1.545	40.17	15.51	0.07	29.41	0
3/3/2019 5:45	0.705	82	26.65	-0.106	29.41	0
3/3/2019 6:00	1.279	148.9	19.22	0.027	29.41	0
3/3/2019 6:15	2.597	147.3	13.79	0.018	29.41	0
3/3/2019 6:30	2.907	98.7	32.32	0.094	29.41	0
3/3/2019 6:45	1.906	109.4	17.52	-0.074	29.41	0
3/3/2019 7:00	3.474	110.5	16.59	0.137	29.43	0
3/3/2019 7:15	4.498	112	16.27	0.104	29.43	0
3/3/2019 7:30	5.413	111.9	15.71	0.253	29.43	0
3/3/2019 7:45	4.487	102.1	25.37	0.567	29.43	0
3/3/2019 8:00	4.611	120	18.82	0.796	29.44	0
3/3/2019 8:15	3.856	110.5	19.14	1.1	29.44	0
3/3/2019 8:30	5.056	106.5	24.98	1.305	29.44	0
3/3/2019 8:45	8.87	127.4	14.6	1.456	29.44	0
3/3/2019 9:00	8.76	127.7	11.79	1.594	29.43	0
3/3/2019 9:15	8.01	118.4	16.43	1.902	29.43	0
3/3/2019 9:30	8.92	120.3	16.32	2.253	29.43	0
3/3/2019 9:45	9.82	120.1	20.15	2.398	29.43	0
3/3/2019 10:00	9.6	114	14.78	2.67	29.42	0
3/3/2019 10:15	8.73	130.3	18.13	2.962	29.42	0
3/3/2019 10:30	9.81	130.5	13.34	3.103	29.42	0
3/3/2019 10:45	14.48	137.5	11.35	3.104	29.42	0
3/3/2019 11:00	13.67	138	14.43	3.114	29.42	0
3/3/2019 11:15	13.71	132.5	11.65	3.492	29.42	0
3/3/2019 11:30	12.98	137.2	11.85	3.551	29.42	0
3/3/2019 11:45	12.94	144	9.81	3.973	29.42	0
3/3/2019 12:00	10.55	137	13.64	4.138	29.42	0
3/3/2019 12:15	8.89	130.2	20.74	4.459	29.42	0
3/3/2019 12:30	10.19	123	17.98	4.43	29.42	0
3/3/2019 12:45	9.22	128.4	22.42	4.589	29.42	0
3/3/2019 13:00	10.36	131.8	20.59	4.864	29.42	0
3/3/2019 13:15	10.35	130	15.17	5.047	29.42	0
3/3/2019 13:30	8.69	118.5	17.34	4.915	29.42	0
3/3/2019 13:45	9.24	111.5	20.49	4.971	29.42	0
3/3/2019 14:00	9.47	127.5	19.96	5.156	29.39	0
3/3/2019 14:15	9.11	120.6	22.91	5.297	29.39	0
3/3/2019 14:30	8.5	112.2	16.87	5.403	29.39	0
3/3/2019 14:45	8.14	120.8	21.08	5.535	29.39	0
3/3/2019 15:00	8.98	111.5	16.45	5.447	29.38	0
3/3/2019 15:15	9.18	122.3	27.36	5.393	29.38	0
3/3/2019 15:30	8.99	106.1	20.64	5.385	29.38	0
3/3/2019 15:45	9.85	114.9	12.39	5.275	29.38	0
3/3/2019 16:00	10.45	125.1	11.64	5.108	29.39	0
3/3/2019 16:15	10.77	117.4	13.52	4.9	29.39	0
3/3/2019 16:30	11.17	116.4	12.65	4.625	29.39	0
3/3/2019 16:45	10.58	115.4	11.88	4.413	29.39	0
3/3/2019 17:00	10.54	114.3	14.44	4.179	29.37	0
3/3/2019 17:15	9.78	119.5	11.91	3.831	29.37	0
3/3/2019 17:30	10.55	130.6	11.22	3.507	29.37	0
3/3/2019 17:45	11.17	128.6	11.28	3.064	29.37	0
3/3/2019 18:00	10.66	129.3	11.1	2.71	29.37	0
3/3/2019 18:15	9.48	126.8	11.32	2.341	29.37	0
3/3/2019 18:30	9.81	123.6	11.99	2.006	29.37	0
3/3/2019 18:45	8.87	123.8	11.97	1.728	29.37	0
3/3/2019 19:00	11.47	131.7	10.95	1.4	29.41	0
3/3/2019 19:15	10.57	134	9.9	1.141	29.41	0

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3/3/2019 19:30	8.6	132.2	10.47	0.879	29.41	0
3/3/2019 19:45	10.83	130.2	10.88	0.762	29.41	0
3/3/2019 20:00	10.59	128.1	10.35	0.683	29.38	0
3/3/2019 20:15	9.37	133.4	9.7	0.483	29.38	0
3/3/2019 20:30	9.79	130.6	11.69	0.428	29.38	0
3/3/2019 20:45	7.232	127.7	13.79	0.23	29.38	0
3/3/2019 21:00	7.125	137.3	14.35	0.074	29.41	0
3/3/2019 21:15	6.676	131.9	12.95	-0.017	29.41	0
3/3/2019 21:30	8.81	143.3	9.6	-0.305	29.41	0
3/3/2019 21:45	7.013	139.5	11.71	-0.5	29.41	0
3/3/2019 22:00	7.125	139.7	11.15	-0.595	29.41	0
3/3/2019 22:15	7.135	136.6	10.53	-0.688	29.41	0
3/3/2019 22:30	8.14	131.5	11.37	-0.7	29.41	0
3/3/2019 22:45	10.8	132.9	10.7	-0.715	29.41	0
3/3/2019 23:00	10.47	125.2	10.9	-0.878	29.39	0
3/3/2019 23:15	9.3	123.3	12.98	-1.008	29.39	0
3/3/2019 23:30	8.92	128.8	10.22	-0.997	29.39	0
3/3/2019 23:45	7.894	138	13.11	-1.161	29.39	0
3/4/2019 0:00	7.101	139.5	12.86	-1.116	29.4	0
3/4/2019 0:15	5.987	126.8	14.77	-1.159	29.4	0
3/4/2019 0:30	5.711	136.4	12.23	-1.177	29.4	0
3/4/2019 0:45	6.793	126.7	13.75	-1.174	29.4	0
3/4/2019 1:00	5.196	121.8	13.7	-1.264	29.41	0
3/4/2019 1:15	7.442	126.6	12.22	-1.305	29.41	0
3/4/2019 1:30	6.422	128.7	13.09	-1.329	29.41	0
3/4/2019 1:45	7.28	125.8	13.92	-1.15	29.41	0
3/4/2019 2:00	7.216	125.6	12.99	-1.219	29.41	0
3/4/2019 2:15	6.662	125.8	11.33	-1.352	29.41	0
3/4/2019 2:30	6.581	120.9	11.51	-1.301	29.41	0
3/4/2019 2:45	6.031	113.9	13.36	-1.502	29.41	0
3/4/2019 3:00	5.051	117.5	12.3	-1.63	29.39	0
3/4/2019 3:15	4.603	115.9	15.76	-1.596	29.39	0
3/4/2019 3:30	5.025	123.2	14.53	-1.591	29.39	0
3/4/2019 3:45	4.597	120.3	13.18	-1.686	29.39	0
3/4/2019 4:00	4.83	102	14.44	-1.582	29.38	0
3/4/2019 4:15	4.336	116.4	11.68	-1.543	29.38	0
3/4/2019 4:30	4.318	113.7	13.23	-1.576	29.38	0
3/4/2019 4:45	4.714	99.1	15.43	-1.737	29.38	0
3/4/2019 5:00	4.729	121.4	12.99	-1.84	29.39	0
3/4/2019 5:15	5.091	121.3	15.8	-1.746	29.39	0
3/4/2019 5:30	5.019	120	10.66	-1.744	29.39	0
3/4/2019 5:45	4.536	119	13.1	-1.816	29.39	0
3/4/2019 6:00	4.764	111.9	11.58	-1.983	29.41	0
3/4/2019 6:15	4.351	114	10.68	-2.089	29.41	0
3/4/2019 6:30	4.408	117.3	9.7	-2.052	29.41	0
3/4/2019 6:45	5.36	117.6	11.32	-2.119	29.41	0
3/4/2019 7:00	5.773	115.1	10.74	-2.204	29.41	0
3/4/2019 7:15	5.748	117.6	8.78	-2.188	29.41	0
3/4/2019 7:30	5.877	119.3	9.68	-1.778	29.41	0
3/4/2019 7:45	6.022	128.5	11.25	-1.394	29.41	0
3/4/2019 8:00	7.669	127.3	10.74	-0.973	29.41	0
3/4/2019 8:15	6.801	123.5	12.5	-0.591	29.41	0
3/4/2019 8:30	6.976	125.8	16.08	-0.203	29.41	0
3/4/2019 8:45	8.3	133.8	12.53	0.214	29.41	0
3/4/2019 9:00	7.767	127.7	12.95	0.741	29.41	0
3/4/2019 9:15	7.358	131.9	16.16	1.156	29.41	0
3/4/2019 9:30	7.281	129.3	14.59	1.53	29.41	0
3/4/2019 9:45	7.942	143.8	14.53	1.78	29.41	0
3/4/2019 10:00	7.805	137.6	13.5	1.976	29.43	0
3/4/2019 10:15	7.589	141.7	26.12	2.635	29.43	0
3/4/2019 10:30	7.025	149.5	19.78	2.951	29.43	0
3/4/2019 10:45	6.586	130	21.25	3.362	29.43	0
3/4/2019 11:00	7.227	137.9	29.73	3.332	29.41	0
3/4/2019 11:15	10.06	141.6	20.36	3.507	29.41	0
3/4/2019 11:30	9.89	136.9	11.87	3.689	29.41	0
3/4/2019 11:45	10.65	147.2	13.19	4.113	29.41	0

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3/4/2019 12:00	9.44	135.1	16.72	3.995	29.4	0
3/4/2019 12:15	9.21	138.2	23.06	4.47	29.4	0
3/4/2019 12:30	10.43	146.4	11.95	4.396	29.4	0
3/4/2019 12:45	8.34	137.6	19.48	4.88	29.4	0
3/4/2019 13:00	7.531	145.6	19.95	4.999	29.39	0
3/4/2019 13:15	8.87	142.8	18.3	5.155	29.39	0
3/4/2019 13:30	8.74	153.6	24.2	5.25	29.39	0
3/4/2019 13:45	9.11	130.5	20.26	5.237	29.39	0
3/4/2019 14:00	9.28	146.4	23.48	5.387	29.37	0
3/4/2019 14:15	9.37	151.4	20.53	5.473	29.37	0
3/4/2019 14:30	6.225	120.5	23.63	5.6	29.37	0
3/4/2019 14:45	6.63	126.3	24.87	5.584	29.37	0
3/4/2019 15:00	7.168	130.8	27	5.479	29.38	0
3/4/2019 15:15	7.563	80.7	23.93	5.487	29.38	0
3/4/2019 15:30	9.3	124.8	20.39	5.353	29.38	0
3/4/2019 15:45	9.62	123.8	19.4	5.288	29.38	0
3/4/2019 16:00	8.25	117.8	18.02	5.164	29.36	0
3/4/2019 16:15	8.23	122.1	19.81	5.041	29.36	0
3/4/2019 16:30	8.15	112.5	18.01	4.843	29.36	0
3/4/2019 16:45	9.49	113.4	14.22	4.449	29.36	0
3/4/2019 17:00	8.55	102.3	13.22	4.222	29.38	0
3/4/2019 17:15	8.47	119.9	14.66	3.915	29.38	0
3/4/2019 17:30	10.09	116.2	14.7	3.702	29.38	0
3/4/2019 17:45	9.88	117.7	13.23	3.334	29.38	0
3/4/2019 18:00	9.29	117.5	14.64	2.967	29.37	0
3/4/2019 18:15	8.72	111.1	12.06	2.662	29.37	0
3/4/2019 18:30	8.8	117.9	12.42	2.305	29.37	0
3/4/2019 18:45	7.377	120.7	13.69	1.994	29.37	0
3/4/2019 19:00	9.71	117.1	14.87	1.867	29.38	0
3/4/2019 19:15	9.33	109	15.44	1.724	29.38	0
3/4/2019 19:30	10.47	109.5	15.93	1.693	29.38	0
3/4/2019 19:45	10.65	117.7	14.86	1.593	29.38	0
3/4/2019 20:00	10.7	117.5	14.39	1.509	29.36	0
3/4/2019 20:15	12.42	120.2	13.85	1.518	29.36	0
3/4/2019 20:30	12.87	122.6	14.69	1.374	29.36	0
3/4/2019 20:45	12.21	121.2	13.48	1.189	29.36	0
3/4/2019 21:00	12.83	126.7	11.29	1.075	29.37	0
3/4/2019 21:15	13.62	129.5	12.1	0.957	29.37	0
3/4/2019 21:30	14.71	128.5	12.46	0.783	29.37	0
3/4/2019 21:45	13.19	125.6	11.75	0.651	29.37	0
3/4/2019 22:00	11.28	123.2	11.59	0.434	29.36	0
3/4/2019 22:15	11.87	117.9	11.19	0.429	29.36	0
3/4/2019 22:30	10.83	124.5	11.86	0.365	29.36	0
3/4/2019 22:45	11.17	124.8	9.49	0.601	29.36	0
3/4/2019 23:00	11.34	116.5	10.3	0.786	29.34	0
3/4/2019 23:15	8.3	126.6	14.79	0.533	29.34	0
3/4/2019 23:30	9.58	132.5	11.52	0.677	29.34	0
3/4/2019 23:45	9.47	133.9	10.2	0.91	29.34	0
3/5/2019 0:00	8.3	132.9	14.48	0.838	29.35	0
3/5/2019 0:15	5.778	119.8	13.33	0.423	29.35	0
3/5/2019 0:30	6.95	124.5	12.98	0.629	29.35	0
3/5/2019 0:45	7.575	131.9	9.86	0.732	29.35	0
3/5/2019 1:00	8.57	127.4	12.42	0.796	29.31	0
3/5/2019 1:15	10.61	134	9.83	0.998	29.31	0
3/5/2019 1:30	9.76	129.7	10.29	1.079	29.31	0
3/5/2019 1:45	9.63	127.1	11.77	1.118	29.31	0
3/5/2019 2:00	11.79	125.1	9.13	1.35	29.32	0
3/5/2019 2:15	10.41	131.2	11.4	1.403	29.32	0
3/5/2019 2:30	9.11	128.9	12.54	1.368	29.32	0
3/5/2019 2:45	7.181	122.5	17.04	1.299	29.32	0
3/5/2019 3:00	5.841	129.7	19.63	1.139	29.31	0
3/5/2019 3:15	5.034	144.4	12.39	1.118	29.31	0
3/5/2019 3:30	6.074	131	12.62	1.206	29.31	0
3/5/2019 3:45	6.394	133.4	12.54	1.278	29.31	0
3/5/2019 4:00	3.63	113.2	14.42	1.004	29.28	0
3/5/2019 4:15	3.893	56.86	33.83	0.146	29.28	0



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3/5/2019 4:30	3.953	5.059	15.26	-0.397	29.28	0
3/5/2019 4:45	3.352	326.3	26.46	0.284	29.28	0
3/5/2019 5:00	4.166	313.9	6.336	0.388	29.28	0
3/5/2019 5:15	3.665	349.6	26.99	-0.281	29.28	0
3/5/2019 5:30	3.93	341	27.3	-0.632	29.28	0
3/5/2019 5:45	4.666	322.1	9.53	-0.841	29.28	0
3/5/2019 6:00	4.515	339.8	25.73	-1.2	29.26	0
3/5/2019 6:15	4.275	10.08	13.95	-1.35	29.26	0
3/5/2019 6:30	4.725	17.79	8.84	-1.669	29.26	0
3/5/2019 6:45	4.729	16.14	9.29	-1.655	29.26	0
3/5/2019 7:00	5.233	17.71	6.465	-1.652	29.24	0
3/5/2019 7:15	4.097	20.52	11.24	-1.63	29.24	0
3/5/2019 7:30	4.583	21.06	9.46	-1.088	29.24	0
3/5/2019 7:45	3.21	30.94	25.4	-0.632	29.24	0
3/5/2019 8:00	4.224	38.86	24.12	-0.626	29.21	0
3/5/2019 8:15	4.597	44.31	23.1	0.084	29.21	0
3/5/2019 8:30	3.973	27.77	20.36	0.11	29.21	0
3/5/2019 8:45	3.415	46.12	26.37	0.782	29.21	0
3/5/2019 9:00	2.739	49.69	14.43	0.938	29.25	0
3/5/2019 9:15	1.587	40.96	12.14	0.962	29.25	0
3/5/2019 9:30	1.715	52.92	14.81	1.432	29.25	0
3/5/2019 9:45	1.691	64.31	27.24	2.46	29.25	0
3/5/2019 10:00	2.857	35.49	17.93	3.285	29.21	0
3/5/2019 10:15	2.456	58.5	41.24	4.369	29.21	0
3/5/2019 10:30	3.295	64.04	54.85	4.909	29.21	0
3/5/2019 10:45	4.974	63.85	37.17	5.053	29.21	0
3/5/2019 11:00	5.162	94.2	27.96	5.473	29.19	0
3/5/2019 11:15	3.935	68.27	42.03	5.704	29.19	0
3/5/2019 11:30	3.966	40.35	22.06	6.18	29.19	0
3/5/2019 11:45	4.023	55.24	36.93	6.721	29.19	0
3/5/2019 12:00	4.222	31.29	36.71	6.701	29.17	0
3/5/2019 12:15	3.589	351.2	87.3	7.286	29.17	0
3/5/2019 12:30	4.994	192.9	47.39	7.37	29.17	0
3/5/2019 12:45	5.47	158.7	51.52	7.608	29.17	0
3/5/2019 13:00	4.359	169.6	47.61	7.861	29.14	0
3/5/2019 13:15	5.399	211.8	34.19	7.718	29.14	0
3/5/2019 13:30	2.624	221.3	70.32	8.15	29.14	0
3/5/2019 13:45	5.112	155.2	36.38	8.45	29.14	0
3/5/2019 14:00	4.281	202.2	29.43	8.28	29.1	0
3/5/2019 14:15	3.053	30.88	45.95	8.22	29.1	0
3/5/2019 14:30	3.836	314.6	37.49	8.42	29.1	0
3/5/2019 14:45	4.927	291.3	33.61	8.59	29.1	0
3/5/2019 15:00	7.786	330.2	12.09	8.46	29.08	0
3/5/2019 15:15	9.5	315	13.25	8.2	29.08	0
3/5/2019 15:30	9.27	314.6	9.79	8.34	29.08	0
3/5/2019 15:45	8.92	297.6	16.27	8.04	29.08	0
3/5/2019 16:00	9.23	308.4	11.25	7.821	29.06	0
3/5/2019 16:15	8.15	315.6	10.21	7.786	29.06	0
3/5/2019 16:30	7.09	316.4	13.61	7.727	29.06	0
3/5/2019 16:45	5.263	329.1	28.88	7.486	29.06	0
3/5/2019 17:00	4.762	21.1	12.92	7.04	29.04	0
3/5/2019 17:15	5.895	25.53	12.79	6.515	29.04	0
3/5/2019 17:30	3.798	33.07	14.74	6.062	29.04	0
3/5/2019 17:45	3.806	23.25	22.19	5.652	29.04	0
3/5/2019 18:00	2.138	53.39	20.63	5.344	29.02	0
3/5/2019 18:15	7.341	15.01	21.73	5.15	29.02	0
3/5/2019 18:30	8.6	27.33	11.45	4.604	29.02	0
3/5/2019 18:45	7.292	30.54	11.07	4.157	29.02	0
3/5/2019 19:00	6.148	43.68	11.75	4.257	29.03	0
3/5/2019 19:15	5.038	44.58	12.29	3.933	29.03	0
3/5/2019 19:30	5.259	30.65	16.16	3.5	29.03	0
3/5/2019 19:45	5.529	43.51	11.49	3.243	29.03	0
3/5/2019 20:00	3.991	51.66	9.94	3.14	29	0
3/5/2019 20:15	4.861	38.22	12.73	3.113	29	0
3/5/2019 20:30	4.759	48.69	11.91	2.759	29	0
3/5/2019 20:45	4.845	56.38	16.55	2.44	29	0

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3/5/2019 21:00	3.77	42.13	9.72	2.096	29.01	0
3/5/2019 21:15	3.593	32.23	10.35	1.833	29.01	0
3/5/2019 21:30	2.948	29.11	10.69	1.736	29.01	0
3/5/2019 21:45	3.823	19.89	10.71	1.602	29.01	0
3/5/2019 22:00	3.457	27.53	10.45	1.332	28.97	0
3/5/2019 22:15	3.758	36.1	13.42	1.243	28.97	0
3/5/2019 22:30	4.21	30.57	9.49	0.866	28.97	0
3/5/2019 22:45	4.683	26.22	9.63	0.838	28.97	0
3/5/2019 23:00	4.167	33.36	10.23	0.673	28.97	0
3/5/2019 23:15	4.216	29.16	9.67	0.553	28.97	0
3/5/2019 23:30	4.856	22.95	7.973	0.202	28.97	0
3/5/2019 23:45	4.484	22.17	8.58	0.166	28.97	0
3/6/2019 0:00	4.981	21.53	8.92	0.119	28.91	0
3/6/2019 0:15	4.641	25.27	7.012	0.157	28.91	0
3/6/2019 0:30	4.872	24.79	7.141	-0.044	28.91	0
3/6/2019 0:45	5.281	25.99	10.33	-0.044	28.91	0
3/6/2019 1:00	5.788	29.29	9.86	-0.169	28.91	0
3/6/2019 1:15	5.896	23.18	9.5	-0.173	28.91	0
3/6/2019 1:30	5.809	19.01	9.17	-0.255	28.91	0
3/6/2019 1:45	5.186	31.98	12.22	-0.184	28.91	0
3/6/2019 2:00	5.73	43.24	12.54	-0.249	28.91	0
3/6/2019 2:15	6.139	24.8	8.83	-0.286	28.91	0
3/6/2019 2:30	4.959	34.35	8.06	-0.256	28.91	0
3/6/2019 2:45	6.916	32.5	8.24	-0.275	28.91	0
3/6/2019 3:00	7.54	31.48	8.11	-0.191	28.86	0
3/6/2019 3:15	7.775	34.1	11.46	-0.309	28.86	0
3/6/2019 3:30	9.4	34.72	9.59	-0.22	28.86	0
3/6/2019 3:45	8.7	29.49	9.1	-0.05	28.86	0
3/6/2019 4:00	5.833	27.34	11.82	-0.049	28.85	0
3/6/2019 4:15	6.258	38.36	8.57	-0.026	28.85	0
3/6/2019 4:30	6.183	28.17	8.74	-0.086	28.85	0
3/6/2019 4:45	6.439	28.63	9.69	-0.028	28.85	0
3/6/2019 5:00	6.875	27.88	10.93	0.097	28.84	0
3/6/2019 5:15	7.57	32.94	10.63	0.323	28.84	0
3/6/2019 5:30	9.18	37.41	11.02	0.199	28.84	0
3/6/2019 5:45	10.25	35.01	8.5	0.192	28.84	0
3/6/2019 6:00	9.77	28.87	8.88	0.311	28.79	0
3/6/2019 6:15	8.69	29.68	9.83	0.327	28.79	0
3/6/2019 6:30	6.438	15.96	11.56	0.215	28.79	0
3/6/2019 6:45	9.41	25.26	7.341	0.213	28.79	0
3/6/2019 7:00	10.81	27.93	9.97	-0.119	28.8	0
3/6/2019 7:15	7.939	27.3	10.31	-0.087	28.8	0
3/6/2019 7:30	6.631	24.27	10.45	0.143	28.8	0
3/6/2019 7:45	6.846	30.56	12.22	0.371	28.8	0
3/6/2019 8:00	6.452	28.9	9.55	0.391	28.77	0
3/6/2019 8:15	5.943	25.64	8.31	0.281	28.77	0
3/6/2019 8:30	6.226	29.33	9.28	0.397	28.77	0
3/6/2019 8:45	7.08	36.41	7.395	0.438	28.77	0
3/6/2019 9:00	4.724	30.19	7.555	0.391	28.77	0
3/6/2019 9:15	4.097	36.58	7.951	0.446	28.77	0
3/6/2019 9:30	3.056	37.32	10.23	0.672	28.77	0
3/6/2019 9:45	2.514	41.67	13.48	1.078	28.77	0
3/6/2019 10:00	1.789	24.23	15.65	1.339	28.75	0
3/6/2019 10:15	0.801	54.25	13.23	1.742	28.75	0
3/6/2019 10:30	2.727	42.7	12.35	1.876	28.75	0
3/6/2019 10:45	3.692	43.35	12.25	1.892	28.75	0
3/6/2019 11:00	4.104	40.22	9.96	2.209	28.77	0
3/6/2019 11:15	3.004	49.26	16.15	2.507	28.77	0
3/6/2019 11:30	2.847	64.42	18.01	3.003	28.77	0
3/6/2019 11:45	0.94	49.55	39.82	3.276	28.77	0
3/6/2019 12:00	0.661	12.76	11.65	3.454	28.77	0
3/6/2019 12:15	1.662	21.87	20.71	3.455	28.77	0
3/6/2019 12:30	3.277	42.17	9	3.42	28.77	0
3/6/2019 12:45	2.75	39.13	18	3.492	28.77	0
3/6/2019 13:00	2.812	41.69	15.13	3.474	28.77	0
3/6/2019 13:15	4.017	343.4	30.76	2.883	28.77	0

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3/6/2019 13:30	4.101	329.9	14.87	2.32	28.77	0
3/6/2019 13:45	2.5	0.365	26.12	2.141	28.77	0
3/6/2019 14:00	3.267	43.82	20.63	1.938	28.78	0
3/6/2019 14:15	1.974	53.43	17.37	1.915	28.78	0
3/6/2019 14:30	0.208	35.22	9.59	2.15	28.78	0
3/6/2019 14:45	0.737	131.1	19.19	2.277	28.78	0
3/6/2019 15:00	0.824	122.2	32.22	2.162	28.79	0.01
3/6/2019 15:15	3.189	186.3	26.18	1.96	28.79	0
3/6/2019 15:30	4.151	192.2	11.66	1.882	28.79	0
3/6/2019 15:45	5.521	194.5	9.96	1.698	28.79	0.01
3/6/2019 16:00	7.352	198.6	12.43	1.169	28.8	0.01
3/6/2019 16:15	7.244	184.3	6.068	0.736	28.8	0
3/6/2019 16:30	7.235	192.6	7.811	0.573	28.8	0.01
3/6/2019 16:45	6.511	196.4	5.674	0.393	28.8	0
3/6/2019 17:00	4.263	169.4	13.25	0.274	28.83	0
3/6/2019 17:15	2.911	155.1	9.13	0.179	28.83	0
3/6/2019 17:30	3.748	161.8	8.63	0.15	28.83	0
3/6/2019 17:45	3.672	136.8	7.151	0.104	28.83	0
3/6/2019 18:00	4.051	138.1	5.85	0.073	28.82	0
3/6/2019 18:15	5.745	151.3	4.553	0.067	28.82	0
3/6/2019 18:30	5.759	164.1	7.041	0.083	28.82	0
3/6/2019 18:45	5.421	178.6	9.11	0.118	28.82	0
3/6/2019 19:00	4.742	179	8.41	0.14	28.86	0
3/6/2019 19:15	5.745	188	5.759	0.142	28.86	0
3/6/2019 19:30	4.596	182.8	5.38	0.084	28.86	0
3/6/2019 19:45	4.261	168.7	9.77	0.071	28.86	0
3/6/2019 20:00	2.847	142.9	9.75	0.032	28.87	0
3/6/2019 20:15	3.868	124.3	7.509	0.044	28.87	0
3/6/2019 20:30	4.65	122.7	5.512	0.129	28.87	0
3/6/2019 20:45	5.459	127.7	6.886	0.363	28.87	0
3/6/2019 21:00	6.469	123.3	7.447	0.576	28.91	0
3/6/2019 21:15	5.956	125.2	7.316	0.796	28.91	0
3/6/2019 21:30	5.678	130.8	7.853	1.022	28.91	0
3/6/2019 21:45	4.7	134.3	8.92	1.106	28.91	0
3/6/2019 22:00	5.315	139.3	9.13	1.121	28.91	0
3/6/2019 22:15	5.309	138.8	9.8	1.191	28.91	0
3/6/2019 22:30	4.452	129.3	6.725	1.081	28.91	0
3/6/2019 22:45	5.49	138.2	8.37	1.181	28.91	0
3/6/2019 23:00	5.624	150.1	10.2	1.222	28.96	0
3/6/2019 23:15	4.164	142.6	11.64	0.985	28.96	0
3/6/2019 23:30	6.77	165.6	9	1.106	28.96	0
3/6/2019 23:45	3.895	134.5	14.39	0.785	28.96	0
3/7/2019 0:00	5.145	153.1	14.64	0.843	28.96	0
3/7/2019 0:15	7.386	169.4	8.46	1.067	28.96	0
3/7/2019 0:30	8.52	170	7.355	1.004	28.96	0
3/7/2019 0:45	8.38	157.6	8.27	0.678	28.96	0
3/7/2019 1:00	6.291	139.1	9.92	0.489	29	0
3/7/2019 1:15	6.241	139.1	6.114	0.352	29	0
3/7/2019 1:30	6.573	139.4	5.871	0.333	29	0
3/7/2019 1:45	6.007	134.4	6.914	0.386	29	0
3/7/2019 2:00	5.888	137.2	7.918	0.423	28.99	0
3/7/2019 2:15	6.6	145.8	6.362	0.613	28.99	0
3/7/2019 2:30	5.517	136.5	7.967	0.344	28.99	0
3/7/2019 2:45	5.929	130	7.251	0.505	28.99	0
3/7/2019 3:00	5.68	130.9	7.964	0.735	29.01	0
3/7/2019 3:15	5.389	128	6.609	0.723	29.01	0
3/7/2019 3:30	4.691	129.9	7.877	0.737	29.01	0
3/7/2019 3:45	5.234	130.6	8.19	0.904	29.01	0
3/7/2019 4:00	5.964	138	8.72	1.127	29.01	0
3/7/2019 4:15	6.12	139.9	6.488	1.215	29.01	0
3/7/2019 4:30	5.368	149.2	12.03	1.379	29.01	0
3/7/2019 4:45	5.319	169.7	15.33	1.355	29.01	0
3/7/2019 5:00	7.303	177.9	8.55	0.907	29.01	0
3/7/2019 5:15	3.035	97.3	48.07	0.176	29.01	0
3/7/2019 5:30	4.042	111.3	27.97	0.005	29.01	0
3/7/2019 5:45	6.117	141.6	9.51	0.089	29.01	0

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3/7/2019 6:00	5.778	128.7	9.62	-0.001	29.03	0
3/7/2019 6:15	4.002	99	14.72	-0.032	29.03	0
3/7/2019 6:30	4.134	110.1	22.42	-0.054	29.03	0
3/7/2019 6:45	6.189	141.8	8.31	0.046	29.03	0
3/7/2019 7:00	6.059	146.6	8.57	0.067	29.02	0
3/7/2019 7:15	6.457	137.4	8.25	0.063	29.02	0
3/7/2019 7:30	6.224	140.5	9.24	0.085	29.02	0
3/7/2019 7:45	5.797	144.6	8.67	0.166	29.02	0
3/7/2019 8:00	5.461	166.8	11.5	0.272	29.07	0
3/7/2019 8:15	6.701	181.8	8.99	0.345	29.07	0
3/7/2019 8:30	7.806	183.4	6.368	0.343	29.07	0
3/7/2019 8:45	5.602	153.3	9.7	0.361	29.07	0
3/7/2019 9:00	4.066	145.5	8.63	0.435	29.07	0
3/7/2019 9:15	4.556	162	9.23	0.825	29.07	0
3/7/2019 9:30	5.085	172.3	9.57	1.214	29.07	0
3/7/2019 9:45	3.283	172.5	12.31	1.51	29.07	0
3/7/2019 10:00	4.183	171.8	13.57	1.883	29.11	0
3/7/2019 10:15	5.418	174.9	15.31	2.172	29.11	0
3/7/2019 10:30	6.315	196.6	12.86	2.486	29.11	0
3/7/2019 10:45	8.65	207.4	10.37	2.738	29.11	0
3/7/2019 11:00	8.4	206.2	10.49	2.798	29.11	0.02
3/7/2019 11:15	8.41	210.1	9.47	2.954	29.11	0.03
3/7/2019 11:30	8.28	209.3	10.79	3.284	29.11	0.04
3/7/2019 11:45	8.36	207.5	11.02	3.415	29.11	0.03
3/7/2019 12:00	7.12	195.6	9.22	3.417	29.12	0.02
3/7/2019 12:15	7.275	237.7	15.01	3.271	29.12	0.02
3/7/2019 12:30	9.61	237.3	13.48	2.461	29.12	0.02
3/7/2019 12:45	5.512	203.2	23.56	1.227	29.12	0.02
3/7/2019 13:00	2.427	88.4	48.21	1.598	29.14	0.01
3/7/2019 13:15	3.498	92	51.53	1.562	29.14	0.01
3/7/2019 13:30	2.658	72.75	31.45	2.021	29.14	0
3/7/2019 13:45	2.88	86.9	17.32	2.161	29.14	0
3/7/2019 14:00	4.811	111.6	9.01	2.258	29.14	0
3/7/2019 14:15	5.548	124.6	12.92	2.166	29.14	0.01
3/7/2019 14:30	3.939	99.1	24.65	2.049	29.14	0.01
3/7/2019 14:45	4.069	3.135	29.26	1.786	29.14	0.01
3/7/2019 15:00	4.332	43.37	12.75	2.121	29.14	0.03
3/7/2019 15:15	2.192	58.18	9.44	2.388	29.14	0
3/7/2019 15:30	1.902	63.65	6.792	2.756	29.14	0
3/7/2019 15:45	1.749	79.62	2.245	3.014	29.14	0
3/7/2019 16:00	0.729	220.5	45.96	3.056	29.13	0.02
3/7/2019 16:15	2.434	111.8	48.01	3.002	29.13	0
3/7/2019 16:30	9.64	200.8	36.84	3.065	29.13	0
3/7/2019 16:45	10.69	198.3	9.22	2.669	29.13	0
3/7/2019 17:00	7.798	190.2	13.66	2.469	29.12	0
3/7/2019 17:15	7.612	180.6	13.97	2.402	29.12	0
3/7/2019 17:30	6.563	156.2	10.35	2.346	29.12	0
3/7/2019 17:45	6.141	148.3	9.28	2.126	29.12	0
3/7/2019 18:00	6.384	140.6	8.17	1.841	29.14	0
3/7/2019 18:15	6.862	140.1	6.229	1.463	29.14	0
3/7/2019 18:30	7.304	137.2	7.528	1.423	29.14	0
3/7/2019 18:45	7.184	133.7	6.857	1.483	29.14	0
3/7/2019 19:00	5.505	133.7	8.25	1.395	29.15	0
3/7/2019 19:15	6.01	143.8	7.975	1.404	29.15	0
3/7/2019 19:30	7.609	155.6	5.147	1.508	29.15	0
3/7/2019 19:45	7.404	152.8	5.597	1.459	29.15	0
3/7/2019 20:00	7.099	150.5	6.605	1.512	29.14	0
3/7/2019 20:15	6.388	147.2	7.784	1.533	29.14	0
3/7/2019 20:30	4.231	129.6	7.478	1.385	29.14	0
3/7/2019 20:45	4.598	143.6	10.67	1.413	29.14	0
3/7/2019 21:00	7.526	159.4	6.66	1.494	29.16	0
3/7/2019 21:15	7.959	171.4	8.9	1.398	29.16	0
3/7/2019 21:30	6.562	171.9	8.54	1.48	29.16	0
3/7/2019 21:45	6.35	159.6	7.226	1.207	29.16	0
3/7/2019 22:00	6.325	172	7.377	1.455	29.16	0
3/7/2019 22:15	6.684	176.7	7.124	1.628	29.16	0

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3/7/2019 22:30	3.932	161.7	9.73	1.441	29.16	0
3/7/2019 22:45	2.258	156	18.81	1.289	29.16	0
3/7/2019 23:00	5.187	177.3	9.28	1.809	29.17	0
3/7/2019 23:15	6.21	178.9	9.2	1.786	29.17	0
3/7/2019 23:30	5.211	172.1	7.627	1.56	29.17	0
3/7/2019 23:45	5.12	157	9.47	1.279	29.17	0
3/8/2019 0:00	5.659	169	7.43	1.301	29.14	0
3/8/2019 0:15	4.636	167.7	9.33	1.235	29.14	0
3/8/2019 0:30	5.253	162.6	8.44	1.049	29.14	0
3/8/2019 0:45	6.415	176.4	6.927	1.394	29.14	0
3/8/2019 1:00	5.212	166.7	9.74	1.375	29.16	0
3/8/2019 1:15	4.774	155.7	8.64	1.177	29.16	0
3/8/2019 1:30	4.51	173	9.61	1.244	29.16	0
3/8/2019 1:45	3.895	169.8	6.36	1.478	29.16	0
3/8/2019 2:00	3.54	160.6	8.3	1.236	29.13	0
3/8/2019 2:15	3.056	157.5	9.65	1.223	29.13	0
3/8/2019 2:30	2.717	141.4	13.44	1.123	29.13	0
3/8/2019 2:45	2.41	157.1	23.61	1.194	29.13	0
3/8/2019 3:00	4.087	154.1	8.4	1.148	29.14	0
3/8/2019 3:15	4.094	181.7	10.57	1.237	29.14	0
3/8/2019 3:30	3.562	186.4	9.67	1.413	29.14	0
3/8/2019 3:45	4.206	199.3	16.03	1.484	29.14	0
3/8/2019 4:00	4.925	238	25.55	0.874	29.12	0
3/8/2019 4:15	3.623	180.4	13.79	-0.02	29.12	0
3/8/2019 4:30	2.659	122.4	13.68	-0.022	29.12	0
3/8/2019 4:45	2.319	66.81	10.95	-0.197	29.12	0
3/8/2019 5:00	2.227	55.58	12.28	-0.25	29.13	0
3/8/2019 5:15	1.476	64.04	5.949	-0.121	29.13	0
3/8/2019 5:30	1.391	64.97	4.904	-0.012	29.13	0
3/8/2019 5:45	0.232	56.03	0.023	0.106	29.13	0
3/8/2019 6:00	0.564	42.84	3.385	0.066	29.12	0
3/8/2019 6:15	2.053	2.753	12.99	-0.123	29.12	0
3/8/2019 6:30	1.758	2.102	15.51	-0.076	29.12	0
3/8/2019 6:45	0.809	14.67	7.556	0.065	29.12	0
3/8/2019 7:00	1.2	40.35	20.75	0.148	29.13	0
3/8/2019 7:15	2.42	62.76	7.467	0.16	29.13	0
3/8/2019 7:30	0.806	79.28	6.604	0.033	29.13	0
3/8/2019 7:45	0.295	62.84	2.327	0.456	29.13	0
3/8/2019 8:00	3.207	220.2	72.27	0.787	29.14	0
3/8/2019 8:15	5.359	252.3	6.348	0.442	29.14	0
3/8/2019 8:30	3.255	268.8	8.08	0.603	29.14	0
3/8/2019 8:45	3.711	251.5	17.9	0.478	29.14	0
3/8/2019 9:00	2.897	248.3	14.06	0.575	29.15	0
3/8/2019 9:15	1.115	15.96	35.93	0.468	29.15	0
3/8/2019 9:30	2.128	69.78	18.6	0.23	29.15	0
3/8/2019 9:45	1.39	68.1	2.415	0.357	29.15	0.01
3/8/2019 10:00	1.926	58.47	5.155	0.521	29.16	0
3/8/2019 10:15	2.453	58.36	6.354	0.81	29.16	0
3/8/2019 10:30	3.544	55.55	12.82	1.198	29.16	0
3/8/2019 10:45	3.605	30.59	13.74	1.644	29.16	0
3/8/2019 11:00	3.313	8.08	12.91	1.955	29.16	0
3/8/2019 11:15	1.201	32.39	13.53	2.505	29.16	0
3/8/2019 11:30	1.74	258.6	42.71	2.995	29.16	0.01
3/8/2019 11:45	2.477	284.9	16	2.836	29.16	0
3/8/2019 12:00	4.603	296.6	13.1	2.983	29.15	0
3/8/2019 12:15	4.866	318.7	15.19	3.028	29.15	0
3/8/2019 12:30	6.677	324	9.41	2.885	29.15	0
3/8/2019 12:45	6.228	325.7	8.76	2.731	29.15	0
3/8/2019 13:00	3.019	308.3	23.19	2.936	29.14	0
3/8/2019 13:15	3.849	249.7	53	2.858	29.14	0
3/8/2019 13:30	7.384	181.7	18.45	2.98	29.14	0
3/8/2019 13:45	5.572	149.7	17.32	2.671	29.14	0
3/8/2019 14:00	2.505	114.5	35.42	2.854	29.14	0
3/8/2019 14:15	1.789	126.9	32.07	3.138	29.14	0
3/8/2019 14:30	3.62	238.7	31.41	3.132	29.14	0
3/8/2019 14:45	5.655	259.1	9.36	3.032	29.14	0

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3/8/2019 15:00	5.461	274.3	13.68	2.984	29.13	0
3/8/2019 15:15	4.537	284.3	11.91	2.973	29.13	0
3/8/2019 15:30	3.596	301.4	16.4	3.134	29.13	0
3/8/2019 15:45	2.665	305.6	9.58	3.059	29.13	0
3/8/2019 16:00	3.094	326.4	13.04	3.136	29.12	0
3/8/2019 16:15	2.79	350.2	21.13	3.071	29.12	0
3/8/2019 16:30	3.49	320.4	13.63	3.065	29.12	0
3/8/2019 16:45	4.493	332.6	8.78	3.041	29.12	0
3/8/2019 17:00	3.561	329	6.302	3.021	29.12	0
3/8/2019 17:15	2.495	333.7	7.991	2.948	29.12	0
3/8/2019 17:30	1.68	329	4.401	2.832	29.12	0
3/8/2019 17:45	0.036	3.352	0.014	2.632	29.12	0
3/8/2019 18:00	1.721	46.66	9.95	2.449	29.1	0
3/8/2019 18:15	2.12	40.24	2.527	2.368	29.1	0
3/8/2019 18:30	2.927	25.73	4.335	1.95	29.1	0
3/8/2019 18:45	2.621	13.85	8.62	1.759	29.1	0
3/8/2019 19:00	1.64	12.18	8.2	1.552	29.13	0
3/8/2019 19:15	1.929	9.77	10.55	1.8	29.13	0
3/8/2019 19:30	3.311	32.98	5.999	1.348	29.13	0
3/8/2019 19:45	3.875	31.29	8.42	0.776	29.13	0
3/8/2019 20:00	2.085	28.79	11.03	0.772	29.14	0
3/8/2019 20:15	1.829	37.89	9.03	0.732	29.14	0
3/8/2019 20:30	2.426	36.18	7.802	0.794	29.14	0
3/8/2019 20:45	1.641	50.85	7.777	0.937	29.14	0
3/8/2019 21:00	2.182	130.4	29.94	0.96	29.15	0
3/8/2019 21:15	3.394	197.2	17.62	0.793	29.15	0
3/8/2019 21:30	3.247	192.5	17.6	0.832	29.15	0
3/8/2019 21:45	2.383	76.65	13.68	-0.223	29.15	0
3/8/2019 22:00	0.816	73.71	0.096	-0.31	29.14	0
3/8/2019 22:15	0.028	73.71	0.014	0.031	29.14	0
3/8/2019 22:30	0.187	56.19	7.446	-0.068	29.14	0
3/8/2019 22:45	1.085	36.87	5.919	-0.634	29.14	0
3/8/2019 23:00	0.999	31.56	2.1	-0.418	29.16	0
3/8/2019 23:15	0.057	35.26	0.032	-0.106	29.16	0
3/8/2019 23:30	0.426	37.14	1.652	-0.565	29.16	0
3/8/2019 23:45	0.191	38.98	0.049	-0.765	29.16	0
3/9/2019 0:00	0.001	58.01	0.004	-0.151	29.16	0
3/9/2019 0:15	0.798	62.95	7.037	-0.42	29.16	0
3/9/2019 0:30	1.272	82.7	1.912	-0.603	29.16	0
3/9/2019 0:45	0.188	83.5	0.078	-0.368	29.16	0
3/9/2019 1:00	0.527	83.8	0.131	-0.366	29.15	0
3/9/2019 1:15	0.569	83.6	0.21	-0.288	29.15	0
3/9/2019 1:30	0.211	93.6	6.53	-0.187	29.15	0
3/9/2019 1:45	0.349	103.6	0.149	-0.344	29.15	0
3/9/2019 2:00	0.338	59.73	12.35	-0.784	29.15	0
3/9/2019 2:15	0.551	64.78	10.8	-0.846	29.15	0
3/9/2019 2:30	1.678	96.6	1.459	-0.683	29.15	0
3/9/2019 2:45	1.112	96.7	0.151	-0.893	29.15	0
3/9/2019 3:00	1.616	90.1	8.16	-0.974	29.16	0
3/9/2019 3:15	1.42	91.8	14.5	-0.807	29.16	0
3/9/2019 3:30	1.761	92.3	23.79	-0.584	29.16	0
3/9/2019 3:45	1.138	68.6	4.482	-0.665	29.16	0
3/9/2019 4:00	0.397	77.48	4.037	-0.269	29.17	0
3/9/2019 4:15	0.587	327.4	32.37	-1.324	29.17	0
3/9/2019 4:30	2.019	278.7	27.46	-1.479	29.17	0
3/9/2019 4:45	2.593	243	7.782	-1.272	29.17	0
3/9/2019 5:00	0.499	237.9	0.093	-0.989	29.16	0
3/9/2019 5:15	0.434	291	25.71	-1.224	29.16	0
3/9/2019 5:30	0.014	8.35	0.008	-1.532	29.16	0
3/9/2019 5:45	1.948	1.688	14.73	-1.635	29.16	0
3/9/2019 6:00	2.013	18.51	10.28	-1.896	29.16	0
3/9/2019 6:15	1.609	51.58	8.16	-2.133	29.16	0
3/9/2019 6:30	1.018	54.05	14.76	-2.113	29.16	0
3/9/2019 6:45	0.8	67.16	4.224	-1.898	29.16	0
3/9/2019 7:00	1.777	58.9	12.34	-1.845	29.17	0
3/9/2019 7:15	1.674	43.59	6.372	-1.817	29.17	0

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3/9/2019 7:30	1.24	45.56	9.48	-1.291	29.17	0
3/9/2019 7:45	0.168	32.74	0.031	-0.983	29.17	0
3/9/2019 8:00	0.74	38.14	1.182	-1.26	29.21	0
3/9/2019 8:15	1.375	30.2	4.72	-1.738	29.21	0
3/9/2019 8:30	0.198	277.6	24.7	-0.877	29.21	0
3/9/2019 8:45	2.797	255.2	8.12	-0.634	29.21	0
3/9/2019 9:00	2.848	256.6	10.56	-0.319	29.22	0
3/9/2019 9:15	3.165	258.4	11.61	0.206	29.22	0
3/9/2019 9:30	1.295	307.2	35.72	0.706	29.22	0
3/9/2019 9:45	1.296	273.9	15.75	0.781	29.22	0
3/9/2019 10:00	0.662	241	28.93	1.33	29.22	0
3/9/2019 10:15	2.298	217.8	26.78	1.704	29.22	0
3/9/2019 10:30	2.622	257	23.23	2.082	29.22	0
3/9/2019 10:45	1.729	267.4	44.47	2.46	29.22	0
3/9/2019 11:00	2.515	322.7	45.3	3.101	29.21	0
3/9/2019 11:15	4.16	293.4	15.17	3.469	29.21	0
3/9/2019 11:30	4.16	285.1	18.88	3.705	29.21	0
3/9/2019 11:45	2.781	14.81	38.69	4.598	29.21	0
3/9/2019 12:00	7.135	13.53	24.21	4.539	29.21	0
3/9/2019 12:15	9	30.32	10.3	4.636	29.21	0
3/9/2019 12:30	8.02	30.31	11.41	4.853	29.21	0
3/9/2019 12:45	7.022	35.85	14.24	5.091	29.21	0
3/9/2019 13:00	6.841	19.66	15.85	5.537	29.2	0
3/9/2019 13:15	6.727	39.4	17.19	5.586	29.2	0
3/9/2019 13:30	6.62	39.49	15.18	5.588	29.2	0
3/9/2019 13:45	6.573	30.36	13.87	5.995	29.2	0
3/9/2019 14:00	5.653	47.75	20.39	6.233	29.18	0
3/9/2019 14:15	5.033	24.28	19.12	6.223	29.18	0
3/9/2019 14:30	4.16	327.3	33.26	7.092	29.18	0
3/9/2019 14:45	4.636	332.9	45.74	6.789	29.18	0
3/9/2019 15:00	6.44	13.52	16.05	6.538	29.18	0
3/9/2019 15:15	5.134	28.99	15.3	7.101	29.18	0
3/9/2019 15:30	5.872	25.09	20.42	7.16	29.18	0
3/9/2019 15:45	5.216	345	29.03	7.505	29.18	0
3/9/2019 16:00	7.739	325.3	13.53	7.441	29.18	0
3/9/2019 16:15	8.04	320	7.764	7.069	29.18	0
3/9/2019 16:30	8.71	323.9	11.57	6.8	29.18	0
3/9/2019 16:45	8.59	334	19.81	6.844	29.18	0
3/9/2019 17:00	10.28	337	9.38	6.559	29.18	0
3/9/2019 17:15	8.24	346	18.32	6.285	29.18	0
3/9/2019 17:30	7.039	324.8	11.43	6	29.18	0
3/9/2019 17:45	7.205	319.6	10.26	5.632	29.18	0
3/9/2019 18:00	7.295	318.5	16.3	5.145	29.22	0
3/9/2019 18:15	6.771	319.3	14.36	4.793	29.22	0
3/9/2019 18:30	5.338	327	18.99	4.462	29.22	0
3/9/2019 18:45	4.575	346	15.96	4.509	29.22	0
3/9/2019 19:00	2.861	16.88	34.56	4.295	29.23	0
3/9/2019 19:15	3.069	358.6	22.36	4.198	29.23	0
3/9/2019 19:30	4.147	357	21.26	3.89	29.23	0
3/9/2019 19:45	5.247	20.99	29.07	3.835	29.23	0
3/9/2019 20:00	2.772	40.03	24.09	3.101	29.24	0
3/9/2019 20:15	3.815	36.48	10.57	2.999	29.24	0
3/9/2019 20:30	5.333	41.33	11.01	2.726	29.24	0
3/9/2019 20:45	5.436	36.74	12.25	2.57	29.24	0
3/9/2019 21:00	5.676	46.74	8.06	2.536	29.24	0
3/9/2019 21:15	6.021	39.34	8.32	2.655	29.24	0
3/9/2019 21:30	7.076	41.4	7.575	2.53	29.24	0
3/9/2019 21:45	7.162	41.89	8.24	2.397	29.24	0
3/9/2019 22:00	6.967	44.99	7.95	2.273	29.26	0
3/9/2019 22:15	8.4	37.33	9.58	2.148	29.26	0
3/9/2019 22:30	7.46	34.93	8.24	1.723	29.26	0
3/9/2019 22:45	5.744	40.34	6.631	1.704	29.26	0
3/9/2019 23:00	5.535	42.03	7.468	1.554	29.25	0
3/9/2019 23:15	4.922	49.46	12.5	1.192	29.25	0
3/9/2019 23:30	3.877	59.45	8.9	0.845	29.25	0
3/9/2019 23:45	3.777	62.47	5.595	1.05	29.25	0

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3/10/2019 0:00	3.605	57.6	8.1	1.37	29.28	0
3/10/2019 0:15	2.873	54.4	8.59	0.66	29.28	0
3/10/2019 0:30	3.962	49.56	4.431	0.968	29.28	0
3/10/2019 0:45	4.346	60.26	5.664	1.046	29.28	0
3/10/2019 1:00	3.658	56.69	6.953	0.743	29.29	0
3/10/2019 1:15	3.009	58.3	2.061	0.642	29.29	0
3/10/2019 1:30	1.819	120.5	63.19	0.391	29.29	0
3/10/2019 1:45	1.33	105.2	60.25	1.221	29.29	0
3/10/2019 2:00	2.106	67.03	73.94	1.16	29.29	0
3/10/2019 2:15	2.843	180.8	7.595	0.623	29.29	0
3/10/2019 2:30	1.576	162.9	13.91	0.699	29.29	0
3/10/2019 2:45	1.403	138.4	1.329	0.614	29.29	0
3/10/2019 3:00	0.819	128.8	12.07	0.465	29.31	0
3/10/2019 3:15	1.679	119.1	4.717	0.588	29.31	0
3/10/2019 3:30	1.793	115.9	6.283	0.071	29.31	0
3/10/2019 3:45	1.848	119.3	6.531	-0.095	29.31	0
3/10/2019 4:00	2.703	122.1	5.079	-0.386	29.31	0
3/10/2019 4:15	3.126	106.8	3.859	-0.353	29.31	0
3/10/2019 4:30	2.877	120.7	6.326	-0.013	29.31	0
3/10/2019 4:45	2.095	100.4	16.16	-0.007	29.31	0
3/10/2019 5:00	2.647	82.3	1.978	-0.296	29.32	0
3/10/2019 5:15	2.043	48.56	15.79	-0.681	29.32	0
3/10/2019 5:30	0.625	34.95	0.25	-0.056	29.32	0
3/10/2019 5:45	1.854	22.8	3.367	-1.232	29.32	0
3/10/2019 6:00	1.3	34.04	1.763	-1.394	29.33	0
3/10/2019 6:15	0.503	28	7.86	-1.396	29.33	0
3/10/2019 6:30	0.873	58.01	9.23	-1.256	29.33	0
3/10/2019 6:45	1.43	32.58	4.786	-1.077	29.33	0
3/10/2019 7:00	2.174	94.3	26.82	-0.634	29.35	0
3/10/2019 7:15	2.883	153.9	6.672	-0.161	29.35	0
3/10/2019 7:30	2.149	141.9	6.335	0.6	29.35	0
3/10/2019 7:45	0.988	133.6	2.916	1.332	29.35	0
3/10/2019 8:00	1.881	150.6	9.26	1.235	29.38	0
3/10/2019 8:15	1.889	170.4	13.29	0.942	29.38	0
3/10/2019 8:30	1.692	160.4	18.79	1.655	29.38	0
3/10/2019 8:45	2.481	139.2	18.16	2.189	29.38	0
3/10/2019 9:00	1.43	181.2	43.13	2.651	29.36	0
3/10/2019 9:15	1.367	259	12.07	2.859	29.36	0
3/10/2019 9:30	0.631	285.2	21.64	3.73	29.36	0
3/10/2019 9:45	2.074	317.7	21.41	4.227	29.36	0
3/10/2019 10:00	2.033	353.3	22.14	4.557	29.37	0
3/10/2019 10:15	2.258	358.7	28.63	4.989	29.37	0
3/10/2019 10:30	2.584	16.66	21.81	5.307	29.37	0
3/10/2019 10:45	3.517	11.98	22.62	5.545	29.37	0
3/10/2019 11:00	4.131	38.24	17.61	5.675	29.38	0
3/10/2019 11:15	4.411	24.56	14.89	6.327	29.38	0
3/10/2019 11:30	5.024	11.83	24.38	6.892	29.38	0
3/10/2019 11:45	5.021	10.27	18.6	7.482	29.38	0
3/10/2019 12:00	4.683	308	28.5	8.09	29.38	0
3/10/2019 12:15	5.773	306.3	23.72	8.3	29.38	0
3/10/2019 12:30	5.454	303.8	22.69	8.63	29.38	0
3/10/2019 12:45	8.88	285.6	16.98	8.74	29.38	0
3/10/2019 13:00	7.462	290.9	16.75	9.02	29.36	0
3/10/2019 13:15	4.875	3.285	31.17	9.02	29.36	0
3/10/2019 13:30	6.277	282.7	43.51	9.2	29.36	0
3/10/2019 13:45	8.75	280.3	10.16	9.42	29.36	0
3/10/2019 14:00	7.714	272.4	16.85	9.5	29.37	0
3/10/2019 14:15	7.722	262.5	14.42	9.59	29.37	0
3/10/2019 14:30	8.96	284.8	15.9	9.87	29.37	0
3/10/2019 14:45	9.29	271.1	14.8	9.72	29.37	0
3/10/2019 15:00	7.317	301.6	14.05	9.97	29.38	0
3/10/2019 15:15	7.696	283.5	17.99	10.17	29.38	0
3/10/2019 15:30	7.845	283	13.3	10.03	29.38	0
3/10/2019 15:45	4.526	281.1	23.27	10.33	29.38	0
3/10/2019 16:00	4.018	302.4	16.47	10.26	29.38	0
3/10/2019 16:15	1.736	318.3	34.95	10.36	29.38	0



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3/10/2019 16:30	4.523	217.8	18.23	9.96	29.38	0
3/10/2019 16:45	5.144	226.5	16.69	9.55	29.38	0
3/10/2019 17:00	4.132	253.9	13.95	9.33	29.35	0
3/10/2019 17:15	4.087	280.1	10.07	8.98	29.35	0
3/10/2019 17:30	4.666	296.9	8.6	8.57	29.35	0
3/10/2019 17:45	5.408	308.3	4.396	7.935	29.35	0
3/10/2019 18:00	6.56	315.4	3.195	7.588	29.35	0
3/10/2019 18:15	6.5	320.6	5.001	7.138	29.35	0
3/10/2019 18:30	4.626	329.3	3.305	7.269	29.35	0
3/10/2019 18:45	4.969	329.4	3.269	7.205	29.35	0
3/10/2019 19:00	4.448	336.3	7.94	7.164	29.39	0
3/10/2019 19:15	3.449	350.6	20.36	7.193	29.39	0
3/10/2019 19:30	3.507	32.04	17.01	6.303	29.39	0
3/10/2019 19:45	2.873	44.27	9.84	5.899	29.39	0
3/10/2019 20:00	4.31	78.05	21.53	5.893	29.39	0
3/10/2019 20:15	3.478	134.4	34.92	5.415	29.39	0
3/10/2019 20:30	2.877	179.9	17.55	5.759	29.39	0
3/10/2019 20:45	3.835	160	14.89	4.921	29.39	0
3/10/2019 21:00	3.74	166.7	7.261	4.498	29.39	0
3/10/2019 21:15	3.665	156.1	7.25	4.474	29.39	0
3/10/2019 21:30	4.823	149.7	7.672	4.355	29.39	0
3/10/2019 21:45	6.369	150.4	7.458	4.746	29.39	0
3/10/2019 22:00	6.191	148.7	7.416	4.398	29.37	0
3/10/2019 22:15	6.823	135.7	8.42	4.172	29.37	0
3/10/2019 22:30	7.724	134.2	6.802	4.325	29.37	0
3/10/2019 22:45	8.38	139.1	7.315	4.437	29.37	0
3/10/2019 23:00	6.152	144.1	9.8	4.467	29.38	0
3/10/2019 23:15	6.085	140.6	10.65	4.568	29.38	0
3/10/2019 23:30	6.708	142.3	9.35	4.434	29.38	0
3/10/2019 23:45	7.366	137.6	9.72	4.45	29.38	0
3/11/2019 0:00	7.857	150.9	9.25	4.375	29.38	0
3/11/2019 0:15	6.773	161	9.85	4.165	29.38	0
3/11/2019 0:30	6.828	151.5	11.05	4.142	29.38	0
3/11/2019 0:45	6.201	153.9	9.52	3.81	29.38	0
3/11/2019 1:00	5.922	163	9.17	3.922	29.37	0
3/11/2019 1:15	5.782	164.4	9.07	3.938	29.37	0
3/11/2019 1:30	6.269	165.3	6.799	3.583	29.37	0
3/11/2019 1:45	5.09	150.5	9.5	3.555	29.37	0
3/11/2019 2:00	6.821	153.6	8.31	3.825	29.35	0
3/11/2019 2:15	6.161	158.3	7.661	3.718	29.35	0
3/11/2019 2:30	3.167	168.8	11.12	3.388	29.35	0
3/11/2019 2:45	4.158	161.3	9.2	3.42	29.35	0
3/11/2019 3:00	4.933	160	9.86	3.212	29.34	0
3/11/2019 3:15	5.773	156.1	11.38	3.103	29.34	0
3/11/2019 3:30	7.792	146.8	9.28	3.251	29.34	0
3/11/2019 3:45	8.8	154	9.16	3.255	29.34	0
3/11/2019 4:00	8.22	155.9	9.47	3.553	29.33	0
3/11/2019 4:15	7.723	165.3	10.99	3.653	29.33	0
3/11/2019 4:30	6.967	183.2	11.13	3.109	29.33	0
3/11/2019 4:45	7.859	199.1	5.894	2.27	29.33	0
3/11/2019 5:00	7.343	203.5	5.761	1.942	29.34	0
3/11/2019 5:15	6.646	211.5	6.506	1.986	29.34	0
3/11/2019 5:30	5.853	198.4	5.065	1.795	29.34	0
3/11/2019 5:45	6.963	192.8	3.397	1.299	29.34	0
3/11/2019 6:00	7.79	174.8	10.26	1.439	29.33	0
3/11/2019 6:15	6.907	154.6	6.895	1.638	29.33	0
3/11/2019 6:30	5.717	140.5	5.87	1.75	29.33	0
3/11/2019 6:45	9.08	146.8	6.706	2.045	29.33	0
3/11/2019 7:00	9.2	152.7	6.917	2.57	29.32	0
3/11/2019 7:15	7.914	158.2	6.503	2.888	29.32	0
3/11/2019 7:30	7.152	157.4	6.996	2.672	29.32	0
3/11/2019 7:45	7.665	160.4	6.694	3.149	29.32	0
3/11/2019 8:00	7.126	152.7	9.88	3.918	29.29	0
3/11/2019 8:15	5.928	144.7	8.07	4.739	29.29	0
3/11/2019 8:30	5.063	152.8	11.44	5.337	29.29	0
3/11/2019 8:45	5.902	158	9.21	5.71	29.29	0

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3/11/2019 9:00	6.622	156.9	8.79	6.318	29.27	0
3/11/2019 9:15	6.903	161.4	10.81	6.995	29.27	0
3/11/2019 9:30	6.737	166.1	16.34	7.728	29.27	0
3/11/2019 9:45	6.266	168.8	10.57	8.29	29.27	0
3/11/2019 10:00	4.79	159.3	18.7	9	29.26	0
3/11/2019 10:15	6.11	163.2	30.63	9.44	29.26	0
3/11/2019 10:30	7.775	187.5	21.05	10.01	29.26	0
3/11/2019 10:45	8.75	188.9	13.54	9.77	29.26	0
3/11/2019 11:00	10	203.4	9.25	9.86	29.24	0
3/11/2019 11:15	9.42	218.1	15.31	9.84	29.24	0
3/11/2019 11:30	9.82	221.6	16.05	9.68	29.24	0
3/11/2019 11:45	6.426	221.7	18.76	9.67	29.24	0
3/11/2019 12:00	7.474	226.6	11.26	9.78	29.25	0
3/11/2019 12:15	6.091	214.5	12.67	9.68	29.25	0
3/11/2019 12:30	8.88	217.1	8.99	9.76	29.25	0
3/11/2019 12:45	9.37	217.9	10.09	9.66	29.25	0
3/11/2019 13:00	8.3	226.2	14.73	9.46	29.23	0
3/11/2019 13:15	7.29	220.9	15.74	9.32	29.23	0
3/11/2019 13:30	4.825	223.6	18.3	9.37	29.23	0
3/11/2019 13:45	5.369	208.2	23.72	9.29	29.23	0
3/11/2019 14:00	5.335	210	16.45	9.36	29.21	0
3/11/2019 14:15	5.439	234.7	19.97	9.46	29.21	0
3/11/2019 14:30	1.609	269.6	23.53	9.53	29.21	0
3/11/2019 14:45	3.092	240.7	21.75	9.53	29.21	0
3/11/2019 15:00	2.988	188.2	24.98	9.53	29.18	0
3/11/2019 15:15	4.2	185.2	17.8	9.52	29.18	0
3/11/2019 15:30	4.266	181.6	14.8	9.61	29.18	0
3/11/2019 15:45	3.712	191.2	12.19	9.65	29.18	0
3/11/2019 16:00	3.856	192.8	11.79	9.66	29.14	0
3/11/2019 16:15	4.628	183.1	16.3	9.71	29.14	0
3/11/2019 16:30	5.602	202	15.93	9.61	29.14	0
3/11/2019 16:45	4.543	249.8	30.93	9.47	29.14	0
3/11/2019 17:00	10.29	282.6	15.32	8.73	29.13	0
3/11/2019 17:15	12.16	286.6	12	8.27	29.13	0
3/11/2019 17:30	11.91	273.6	12.36	7.836	29.13	0
3/11/2019 17:45	9.91	264.8	12.65	7.637	29.13	0
3/11/2019 18:00	11.81	264.2	10.87	7.185	29.12	0
3/11/2019 18:15	9.71	262.5	11.9	6.437	29.12	0
3/11/2019 18:30	5.52	265.4	11.54	5.972	29.12	0
3/11/2019 18:45	5.837	286.4	25.73	5.734	29.12	0
3/11/2019 19:00	4.5	298	18.38	5.223	29.12	0
3/11/2019 19:15	2.185	289.9	33.67	5.137	29.12	0.01
3/11/2019 19:30	1.19	253.1	64.37	4.946	29.12	0
3/11/2019 19:45	2.336	219	54.5	4.595	29.12	0.02
3/11/2019 20:00	0.651	294.1	29.27	4.275	29.11	0.01
3/11/2019 20:15	2.036	325.9	20.66	3.962	29.11	0.02
3/11/2019 20:30	1.545	34.48	28.01	3.681	29.11	0.02
3/11/2019 20:45	2.088	68.67	14.86	3.566	29.11	0.02
3/11/2019 21:00	2.545	86.5	6.159	3.492	29.08	0.02
3/11/2019 21:15	3.956	106	11.63	3.431	29.08	0.02
3/11/2019 21:30	4.6	119.6	8.62	3.405	29.08	0.02
3/11/2019 21:45	4.749	118.9	8.42	3.345	29.08	0.01
3/11/2019 22:00	3.712	116.9	9.27	3.271	29.06	0.02
3/11/2019 22:15	4.738	106.6	9.02	3.167	29.06	0.02
3/11/2019 22:30	4.451	85.4	10.8	3.06	29.06	0.01
3/11/2019 22:45	3.192	85.6	36.32	3.014	29.06	0.01
3/11/2019 23:00	2.07	113.9	53.28	3.054	29.04	0.02
3/11/2019 23:15	4.725	123.3	20.8	3.243	29.04	0.02
3/11/2019 23:30	4.459	106.5	9.34	3.081	29.04	0.02
3/11/2019 23:45	3.418	113.6	12.99	3.094	29.04	0.02
3/12/2019 0:00	3.404	102.8	13.93	3.242	29	0.02
3/12/2019 0:15	3.883	134.3	24.36	3.342	29	0.02
3/12/2019 0:30	3.874	138	15.2	3.446	29	0.02
3/12/2019 0:45	2.899	108.3	15.95	3.349	29	0.03
3/12/2019 1:00	2.732	125.7	19.28	3.329	28.97	0.03
3/12/2019 1:15	3.833	149	22.25	3.693	28.97	0.03

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3/12/2019 1:30	4.87	161.6	20.57	3.898	28.97	0.03
3/12/2019 1:45	6.522	185.5	10.18	3.869	28.97	0.04
3/12/2019 2:00	7.335	191.9	10.43	3.669	28.94	0.03
3/12/2019 2:15	5.329	199.2	13.28	3.484	28.94	0.03
3/12/2019 2:30	5.74	203.2	13.13	3.381	28.94	0.03
3/12/2019 2:45	5.792	218.3	12.05	3.259	28.94	0.03
3/12/2019 3:00	3.719	238.5	16.12	3.108	28.92	0.02
3/12/2019 3:15	4.195	262	16.06	2.995	28.92	0.02
3/12/2019 3:30	3.455	236.8	17.56	2.832	28.92	0.03
3/12/2019 3:45	0.682	183.9	14.22	2.499	28.92	0.03
3/12/2019 4:00	2.304	146.9	33.34	2.111	28.93	0.04
3/12/2019 4:15	2.535	14.48	26.54	1.289	28.93	0.02
3/12/2019 4:30	1.94	353	9.72	0.651	28.93	0
3/12/2019 4:45	1.975	344.2	23.53	0.323	28.93	0
3/12/2019 5:00	0.819	16.75	0.125	0.172	28.96	0.01
3/12/2019 5:15	1.259	137.8	6.244	0.16	28.96	0
3/12/2019 5:30	2.065	120.7	4.451	0.131	28.96	0
3/12/2019 5:45	2.761	123.2	5.502	0.148	28.96	0
3/12/2019 6:00	2.779	121.7	3.579	0.186	28.94	0.01
3/12/2019 6:15	3.521	100.8	8.1	0.119	28.94	0
3/12/2019 6:30	4.751	118.5	8.13	0.151	28.94	0
3/12/2019 6:45	4.173	125.1	5.222	0.265	28.94	0.01
3/12/2019 7:00	2.744	119.9	7.842	0.33	28.98	0
3/12/2019 7:15	2.728	138.3	6.758	0.507	28.98	0
3/12/2019 7:30	1.536	102.4	10.53	0.581	28.98	0.01
3/12/2019 7:45	2.569	77.84	20.45	0.416	28.98	0
3/12/2019 8:00	2.789	107.8	28.91	0.643	28.98	0.01
3/12/2019 8:15	2.213	112.8	9.24	1.065	28.98	0
3/12/2019 8:30	0.792	102.7	22.29	1.376	28.98	0
3/12/2019 8:45	2.866	176.9	15.49	1.398	28.98	0.01
3/12/2019 9:00	4.391	200.6	7.102	1.318	29.02	0.02
3/12/2019 9:15	3.641	195	9.56	1.527	29.02	0.03
3/12/2019 9:30	2.886	188.8	5.372	1.602	29.02	0.02
3/12/2019 9:45	2.233	177	25.66	1.659	29.02	0.01
3/12/2019 10:00	2.847	176.4	28.24	1.733	29.01	0.01
3/12/2019 10:15	2.581	203.1	8.7	2.05	29.01	0.01
3/12/2019 10:30	1.503	208	4.079	2.174	29.01	0.01
3/12/2019 10:45	2.071	74.92	24.48	2.215	29.01	0
3/12/2019 11:00	2.342	62.41	7.396	2.2	29.04	0
3/12/2019 11:15	2.813	66.64	15.52	2.206	29.04	0.01
3/12/2019 11:30	5.134	50.2	9.59	2.289	29.04	0
3/12/2019 11:45	5.423	33.32	10.9	2.27	29.04	0.02
3/12/2019 12:00	5.076	344.6	27.47	2.426	29.07	0.01
3/12/2019 12:15	6.86	327	19.69	2.768	29.07	0.02
3/12/2019 12:30	3.653	38.55	16.5	2.766	29.07	0
3/12/2019 12:45	3.826	42.58	8.55	3.051	29.07	0
3/12/2019 13:00	4.167	32.79	9.68	3.127	29.07	0.02
3/12/2019 13:15	2.527	348.3	42.82	3.295	29.07	0
3/12/2019 13:30	2.12	309.6	12.73	3.455	29.07	0.01
3/12/2019 13:45	2.381	16.97	44.8	3.911	29.07	0
3/12/2019 14:00	3.023	52.64	23.23	4.423	29.08	0
3/12/2019 14:15	3.007	55.82	14.08	4.263	29.08	0
3/12/2019 14:30	2.462	47.76	11.66	4.368	29.08	0
3/12/2019 14:45	2.189	49.04	24.84	4.856	29.08	0
3/12/2019 15:00	1.617	31.21	22.88	5.45	29.08	0
3/12/2019 15:15	2.339	0.84	64.82	5.391	29.08	0
3/12/2019 15:30	3.578	258.5	14.93	5.725	29.08	0
3/12/2019 15:45	4.027	258.2	16.36	6.004	29.08	0
3/12/2019 16:00	3.851	297.3	29.93	5.801	29.08	0
3/12/2019 16:15	2.626	43.57	19.81	5.951	29.08	0
3/12/2019 16:30	3.672	77.24	15.75	6.252	29.08	0
3/12/2019 16:45	4.481	58.29	16.35	5.632	29.08	0
3/12/2019 17:00	3.283	54.72	18.31	5.078	29.1	0
3/12/2019 17:15	3.243	128.3	19.15	4.912	29.1	0
3/12/2019 17:30	2.155	141.8	8.9	4.58	29.1	0
3/12/2019 17:45	1.075	131.7	9.12	4.376	29.1	0

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3/12/2019 18:00	2.744	117.6	21.78	4.001	29.1	0
3/12/2019 18:15	2.952	124.4	10.75	3.901	29.1	0
3/12/2019 18:30	3.138	97.7	3.556	3.56	29.1	0
3/12/2019 18:45	2.936	82.2	8.03	2.889	29.1	0
3/12/2019 19:00	1.967	83.6	3.921	2.662	29.14	0
3/12/2019 19:15	1.601	128.3	59.9	2.818	29.14	0
3/12/2019 19:30	2.602	205.2	10.24	3.107	29.14	0
3/12/2019 19:45	4.206	197.9	11.15	2.818	29.14	0
3/12/2019 20:00	2.906	176.1	36.25	2.501	29.17	0
3/12/2019 20:15	2.749	162.9	16.13	2.345	29.17	0
3/12/2019 20:30	2.958	181.2	29.33	2.688	29.17	0
3/12/2019 20:45	5.745	18.56	29.58	2.001	29.17	0.01
3/12/2019 21:00	6.37	17.2	31.03	2.349	29.18	0.04
3/12/2019 21:15	5.129	65.48	15.22	2.374	29.18	0.02
3/12/2019 21:30	4.103	56.38	18.51	2.4	29.18	0.01
3/12/2019 21:45	3.174	94.3	15.29	2.462	29.18	0.01
3/12/2019 22:00	3.669	136.3	13.36	2.604	29.21	0.02
3/12/2019 22:15	4.372	159.9	7.738	2.496	29.21	0
3/12/2019 22:30	2.891	114.3	17.01	2.019	29.21	0
3/12/2019 22:45	5.157	98.2	8.97	1.699	29.21	0
3/12/2019 23:00	5.91	118.3	8.36	1.77	29.24	0
3/12/2019 23:15	5.263	118.2	8.58	1.871	29.24	0
3/12/2019 23:30	4.359	136.5	14.32	2.007	29.24	0
3/12/2019 23:45	4.031	137.7	9.7	2.231	29.24	0
3/13/2019 0:00	4.016	140.1	7.144	2.208	29.24	0
3/13/2019 0:15	2.988	135	8.12	2.197	29.24	0
3/13/2019 0:30	4.525	127.6	8.1	2.292	29.24	0
3/13/2019 0:45	5.041	144	5.258	2.311	29.24	0
3/13/2019 1:00	3.012	151.4	8.67	2.062	29.27	0
3/13/2019 1:15	3.557	136.6	6.691	2.346	29.27	0
3/13/2019 1:30	4.385	138.6	7.768	2.272	29.27	0
3/13/2019 1:45	2.842	103	25.2	2.4	29.27	0
3/13/2019 2:00	4.327	136.4	7.01	2.498	29.3	0
3/13/2019 2:15	4.114	127.2	6.747	2.664	29.3	0
3/13/2019 2:30	4.09	125.1	9.08	2.742	29.3	0
3/13/2019 2:45	3.727	123.1	5.983	2.727	29.3	0
3/13/2019 3:00	4.571	135.8	5.568	2.913	29.29	0
3/13/2019 3:15	3.802	128.6	7.511	3.007	29.29	0
3/13/2019 3:30	3.161	115.5	11.03	2.932	29.29	0
3/13/2019 3:45	4.157	124.1	8.44	2.844	29.29	0
3/13/2019 4:00	4.498	141.7	6.176	2.877	29.33	0
3/13/2019 4:15	3.75	131.2	5.627	2.969	29.33	0
3/13/2019 4:30	4.18	140.2	10.11	2.942	29.33	0
3/13/2019 4:45	4.084	152.3	7.492	2.957	29.33	0
3/13/2019 5:00	3.863	129	11.58	2.81	29.36	0
3/13/2019 5:15	2.412	121.1	6.322	2.837	29.36	0
3/13/2019 5:30	1.89	104.2	16.95	2.74	29.36	0
3/13/2019 5:45	4.084	131.9	5.628	2.84	29.36	0
3/13/2019 6:00	4.386	135.9	7.402	3.047	29.37	0
3/13/2019 6:15	4.101	146.3	5.516	3.05	29.37	0
3/13/2019 6:30	3.991	156.3	5.03	2.801	29.37	0
3/13/2019 6:45	2.484	147.2	12.69	3.037	29.37	0
3/13/2019 7:00	3.542	155.8	12.36	3.156	29.38	0
3/13/2019 7:15	5.497	156.4	4.315	3.239	29.38	0
3/13/2019 7:30	3.809	152.3	12.26	3.147	29.38	0
3/13/2019 7:45	4.08	182.9	11.54	2.977	29.38	0
3/13/2019 8:00	2.53	134.5	40.37	3.259	29.42	0
3/13/2019 8:15	0.426	88.6	4.646	3.331	29.42	0
3/13/2019 8:30	1.644	69.5	14.74	3.474	29.42	0
3/13/2019 8:45	1.949	94.5	17.09	3.574	29.42	0
3/13/2019 9:00	1.195	100.7	10.59	3.842	29.46	0
3/13/2019 9:15	2.443	100.7	20.84	4.144	29.46	0
3/13/2019 9:30	3.95	124.8	9.1	4.439	29.46	0
3/13/2019 9:45	4.203	153	20.17	4.819	29.46	0
3/13/2019 10:00	5.067	132.6	11.01	5.224	29.46	0
3/13/2019 10:15	5.675	159.7	21.29	5.517	29.46	0

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3/13/2019 10:30	5.763	139.9	17.6	6.061	29.46	0
3/13/2019 10:45	5.654	129	16.3	6.253	29.46	0.01
3/13/2019 11:00	3.375	128.3	51.61	6.445	29.49	0
3/13/2019 11:15	2.431	133.5	58.83	5.794	29.49	0
3/13/2019 11:30	1.294	55.24	22.55	5.947	29.49	0
3/13/2019 11:45	1.721	144.6	79.81	6.788	29.49	0
3/13/2019 12:00	2.753	183.8	47.96	6.447	29.5	0
3/13/2019 12:15	1.777	106.8	43.62	7.497	29.5	0
3/13/2019 12:30	2.72	129.9	59.17	8.07	29.5	0
3/13/2019 12:45	2.943	178	44.4	7.958	29.5	0
3/13/2019 13:00	3.956	283	50.9	7.541	29.49	0
3/13/2019 13:15	2.483	271	37.1	7.807	29.49	0
3/13/2019 13:30	3.777	270.1	36.58	8.02	29.49	0
3/13/2019 13:45	3.312	216.8	20.34	8.6	29.49	0
3/13/2019 14:00	4.791	263.7	15.54	8.77	29.48	0
3/13/2019 14:15	3.116	269.4	41.41	8.35	29.48	0
3/13/2019 14:30	3.112	315.3	20.22	9.43	29.48	0
3/13/2019 14:45	4.368	284.5	35.16	9.59	29.48	0
3/13/2019 15:00	3.451	308.7	45.53	9.67	29.5	0
3/13/2019 15:15	5.384	349.7	24.31	9.27	29.5	0
3/13/2019 15:30	2.807	329.8	26.76	9.84	29.5	0
3/13/2019 15:45	4.007	11.71	21.38	9.58	29.5	0
3/13/2019 16:00	3.771	356.7	28.31	9.26	29.5	0
3/13/2019 16:15	2.283	60.54	37.11	9.51	29.5	0
3/13/2019 16:30	2.942	28.32	18.37	9.41	29.5	0
3/13/2019 16:45	4.561	35.13	10.96	9.25	29.5	0
3/13/2019 17:00	5.201	38.89	11.42	8.96	29.51	0
3/13/2019 17:15	4.558	29.81	7.498	8.65	29.51	0
3/13/2019 17:30	3.839	28.69	8.38	8.24	29.51	0
3/13/2019 17:45	3.647	41.33	10.08	7.78	29.51	0
3/13/2019 18:00	2.995	34.6	5.954	7.415	29.5	0
3/13/2019 18:15	3.268	32.33	6.905	6.92	29.5	0
3/13/2019 18:30	4.348	38.54	10.12	6.361	29.5	0
3/13/2019 18:45	3.522	48.93	6.17	6.072	29.5	0
3/13/2019 19:00	2.684	92.7	26.3	6.124	29.52	0
3/13/2019 19:15	2.489	66.15	7.363	6.382	29.52	0
3/13/2019 19:30	1.845	80	7.014	5.585	29.52	0
3/13/2019 19:45	2.758	115.5	21.19	5.152	29.52	0
3/13/2019 20:00	3.393	153.7	9.08	5.013	29.53	0
3/13/2019 20:15	3.156	137.8	7.011	5.084	29.53	0
3/13/2019 20:30	3.212	140.7	10.87	4.743	29.53	0
3/13/2019 20:45	3.887	128.5	5.168	4.655	29.53	0
3/13/2019 21:00	2.849	115.7	8.09	3.603	29.52	0
3/13/2019 21:15	2.446	130.2	5.305	3.98	29.52	0
3/13/2019 21:30	7.833	191.7	23.21	3.489	29.52	0
3/13/2019 21:45	7.222	167.9	17.21	3.24	29.52	0
3/13/2019 22:00	3.881	119.7	27.64	3.129	29.54	0
3/13/2019 22:15	3.94	116.1	18.3	2.826	29.54	0
3/13/2019 22:30	4.858	144.5	7.516	3.569	29.54	0
3/13/2019 22:45	5.46	152.1	7.937	3.851	29.54	0
3/13/2019 23:00	5.03	147.3	13.71	3.928	29.57	0
3/13/2019 23:15	5.353	129.8	7.473	3.934	29.57	0
3/13/2019 23:30	6.473	137.5	6.189	4.1	29.57	0
3/13/2019 23:45	7.08	141.5	8.3	4.568	29.57	0
3/14/2019 0:00	5.592	152	6.519	4.32	29.59	0
3/14/2019 0:15	5.814	141.4	8.26	4.366	29.59	0
3/14/2019 0:30	6.116	135.6	6.298	4.547	29.59	0
3/14/2019 0:45	6.408	137.5	6.116	4.462	29.59	0
3/14/2019 1:00	5.611	145.8	6.381	4.362	29.58	0
3/14/2019 1:15	5.858	140.9	6.981	4.577	29.58	0
3/14/2019 1:30	5.271	148.4	6.872	4.407	29.58	0
3/14/2019 1:45	5.195	144.4	6.097	4.543	29.58	0
3/14/2019 2:00	4.749	143.6	5.801	4.531	29.57	0
3/14/2019 2:15	4.412	139.7	9.75	4.344	29.57	0
3/14/2019 2:30	3.22	117	10.23	3.642	29.57	0
3/14/2019 2:45	3.249	120.7	11.87	3.414	29.57	0

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3/14/2019 3:00	3.931	148.3	5.282	4.077	29.55	0
3/14/2019 3:15	4.233	141.8	5.595	4.048	29.55	0
3/14/2019 3:30	5.359	145.1	7.969	4.25	29.55	0
3/14/2019 3:45	5.519	144.6	7.642	4.375	29.55	0
3/14/2019 4:00	4.275	170.1	10.31	4.104	29.54	0
3/14/2019 4:15	3.376	166.2	11.84	4.056	29.54	0
3/14/2019 4:30	3.199	161.1	12.59	3.612	29.54	0
3/14/2019 4:45	2.498	148.6	13.53	3.235	29.54	0
3/14/2019 5:00	2.351	109.5	12.34	2.984	29.55	0
3/14/2019 5:15	3.179	126.5	7.652	3.128	29.55	0
3/14/2019 5:30	4.5	143.7	6.357	3.486	29.55	0
3/14/2019 5:45	4.075	156.2	6.498	3.579	29.55	0
3/14/2019 6:00	5.056	165.3	5.246	3.691	29.54	0
3/14/2019 6:15	5.061	171.2	8.11	3.865	29.54	0
3/14/2019 6:30	4.389	153.8	13.39	3.88	29.54	0
3/14/2019 6:45	3.734	148.3	21.29	3.826	29.54	0
3/14/2019 7:00	4.996	169.7	9.32	4.194	29.54	0
3/14/2019 7:15	4.294	161.8	10.77	4.331	29.54	0
3/14/2019 7:30	2.817	149.5	11.67	4.353	29.54	0
3/14/2019 7:45	1.783	149.8	24.19	4.216	29.54	0
3/14/2019 8:00	4.508	174.8	10.4	4.641	29.54	0
3/14/2019 8:15	4.432	170.1	14.45	4.855	29.54	0
3/14/2019 8:30	3.412	161.7	11.31	5.051	29.54	0
3/14/2019 8:45	3.314	155.5	16.46	5.416	29.54	0
3/14/2019 9:00	2.206	130.4	15.95	5.692	29.56	0
3/14/2019 9:15	2.816	159.4	15.61	6.008	29.56	0
3/14/2019 9:30	3.82	169.8	8.58	6.465	29.56	0
3/14/2019 9:45	3.959	165.6	13.35	6.952	29.56	0
3/14/2019 10:00	4.041	161.9	10.24	7.298	29.56	0
3/14/2019 10:15	4.028	158.6	15.54	7.832	29.56	0
3/14/2019 10:30	4.09	169.6	21.42	8.52	29.56	0
3/14/2019 10:45	3.872	173.9	25.02	9.04	29.56	0
3/14/2019 11:00	3.516	204.4	18.44	9.21	29.56	0
3/14/2019 11:15	2.98	229.6	28.34	9.56	29.56	0
3/14/2019 11:30	4.337	218.2	16.04	9.99	29.56	0
3/14/2019 11:45	5.28	201.3	27.25	10.39	29.56	0
3/14/2019 12:00	4.933	215.1	32.45	10.44	29.54	0
3/14/2019 12:15	3.91	215.4	32.26	10.82	29.54	0
3/14/2019 12:30	6.01	204.7	23.52	10.87	29.54	0
3/14/2019 12:45	4.473	245.4	36.6	11.12	29.54	0
3/14/2019 13:00	6.593	222	30.18	11.19	29.53	0
3/14/2019 13:15	7.343	232.9	24.89	11.24	29.53	0
3/14/2019 13:30	7.883	224.6	17.87	11.2	29.53	0
3/14/2019 13:45	7.209	251.8	14.04	11.17	29.53	0
3/14/2019 14:00	6.107	224.8	13.46	11.32	29.52	0
3/14/2019 14:15	6.208	221.2	26.29	11.5	29.52	0
3/14/2019 14:30	4.157	232.5	36.89	11.64	29.52	0
3/14/2019 14:45	6.462	210.5	20.63	11.49	29.52	0
3/14/2019 15:00	4.541	190.2	35.82	11.71	29.52	0
3/14/2019 15:15	7.391	216.4	14.42	11.73	29.52	0
3/14/2019 15:30	6.144	263	17.16	11.52	29.52	0
3/14/2019 15:45	6.709	275.5	10.94	11.1	29.52	0
3/14/2019 16:00	7.287	268.3	10.72	10.64	29.53	0
3/14/2019 16:15	8.38	260.6	7.504	10.34	29.53	0
3/14/2019 16:30	6.634	269.5	10.82	10.21	29.53	0
3/14/2019 16:45	6.488	245.8	12.26	10.27	29.53	0
3/14/2019 17:00	5.843	249.6	11.17	10.23	29.52	0
3/14/2019 17:15	6.556	230.5	14.14	10.22	29.52	0
3/14/2019 17:30	4.495	220.7	10.72	10.07	29.52	0
3/14/2019 17:45	1.902	252.5	25.81	10.01	29.52	0
3/14/2019 18:00	0.624	52.39	55.69	9.8	29.5	0
3/14/2019 18:15	2.961	87.8	8.72	9.62	29.5	0
3/14/2019 18:30	2.855	56.76	19.93	9.61	29.5	0
3/14/2019 18:45	4.293	15.97	10.02	9.16	29.5	0
3/14/2019 19:00	2.517	31.73	11.69	9.12	29.51	0
3/14/2019 19:15	2.356	20.24	8.94	8.75	29.51	0

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3/14/2019 19:30	0.936	214.2	34.09	8.98	29.51	0
3/14/2019 19:45	2.01	330.1	47.52	9.36	29.51	0
3/14/2019 20:00	5.148	74.86	14.3	8.06	29.53	0
3/14/2019 20:15	4.243	149.9	42.3	8.09	29.53	0
3/14/2019 20:30	3.758	211.7	26.96	8.32	29.53	0
3/14/2019 20:45	2.405	67.06	27.26	8.44	29.53	0
3/14/2019 21:00	2.645	24.06	9.73	7.512	29.54	0
3/14/2019 21:15	3.661	266.3	28.2	8.02	29.54	0
3/14/2019 21:30	6.507	217.3	7.386	7.696	29.54	0
3/14/2019 21:45	4.72	189.4	18.6	7.649	29.54	0
3/14/2019 22:00	2.02	233.9	13.41	7.484	29.53	0
3/14/2019 22:15	2.414	181.7	12.69	7.302	29.53	0
3/14/2019 22:30	1.335	237.3	55.75	7.599	29.53	0
3/14/2019 22:45	0.881	37.21	41.74	7.28	29.53	0
3/14/2019 23:00	3.822	213.9	7.199	7.659	29.55	0
3/14/2019 23:15	3.699	190.6	15.11	7.093	29.55	0
3/14/2019 23:30	3.827	122.1	13.42	6.202	29.55	0
3/14/2019 23:45	4.413	127.3	12.09	6.337	29.55	0
3/15/2019 0:00	6.013	126.2	6.878	6.845	29.53	0
3/15/2019 0:15	4.318	120.6	11.32	6.747	29.53	0
3/15/2019 0:30	3.309	127.6	8.01	6.595	29.53	0
3/15/2019 0:45	3.147	152.6	16.3	6.46	29.53	0
3/15/2019 1:00	4.675	168.7	8.39	6.589	29.54	0
3/15/2019 1:15	5.104	169.7	9.33	6.296	29.54	0
3/15/2019 1:30	4.938	178.1	13.82	6.087	29.54	0
3/15/2019 1:45	4.209	175.6	10.36	5.725	29.54	0
3/15/2019 2:00	3.145	123.4	24.86	5.166	29.55	0
3/15/2019 2:15	2.573	84.9	7.98	5.291	29.55	0
3/15/2019 2:30	2.964	131.2	10.47	5.553	29.55	0
3/15/2019 2:45	2.217	138.1	4.112	5.683	29.55	0
3/15/2019 3:00	3.391	163.5	12.41	5.606	29.55	0
3/15/2019 3:15	3.453	157.4	8.51	5.505	29.55	0
3/15/2019 3:30	1.724	111.3	16.05	5.533	29.55	0
3/15/2019 3:45	2.375	156.6	12.77	5.61	29.55	0
3/15/2019 4:00	1.489	151.3	16.65	5.499	29.54	0
3/15/2019 4:15	1.62	185.1	45.64	5.472	29.54	0
3/15/2019 4:30	1.877	187.6	45.56	5.08	29.54	0
3/15/2019 4:45	0.998	122.7	14.48	5.029	29.54	0
3/15/2019 5:00	1.169	109	0.099	4.97	29.53	0
3/15/2019 5:15	0.498	109	0.023	5.734	29.53	0
3/15/2019 5:30	0.593	115.2	2.494	5.84	29.53	0
3/15/2019 5:45	1.314	57.44	20.74	4.735	29.53	0
3/15/2019 6:00	2.487	22.42	15.8	4.657	29.54	0
3/15/2019 6:15	2.5	50.35	4.653	4.145	29.54	0
3/15/2019 6:30	3.102	43.99	7.393	4.002	29.54	0
3/15/2019 6:45	2.616	54.28	8.82	3.913	29.54	0
3/15/2019 7:00	2.36	59.41	6.972	4.536	29.54	0
3/15/2019 7:15	2.563	44.38	2.57	4.978	29.54	0
3/15/2019 7:30	1.717	352	51.6	5.259	29.54	0
3/15/2019 7:45	2.394	325.9	10.92	6.198	29.54	0
3/15/2019 8:00	2.019	323	18.67	6.393	29.55	0
3/15/2019 8:15	1.39	12.45	19.39	6.092	29.55	0
3/15/2019 8:30	0.955	40.13	20.76	6.768	29.55	0
3/15/2019 8:45	0.355	248.7	39.78	7.744	29.55	0
3/15/2019 9:00	2.05	190.8	27.31	7.668	29.54	0
3/15/2019 9:15	1.749	210.9	30.49	7.87	29.54	0
3/15/2019 9:30	1.462	317.9	71.39	8.36	29.54	0
3/15/2019 9:45	1.163	262.4	34.36	8.83	29.54	0
3/15/2019 10:00	1.98	40.63	41.45	9.55	29.54	0
3/15/2019 10:15	1.492	278.1	31.94	9.99	29.54	0
3/15/2019 10:30	1.626	313.1	26.27	10.43	29.54	0
3/15/2019 10:45	1.945	295	31.45	10.89	29.54	0
3/15/2019 11:00	2.93	300.3	22.52	11.18	29.5	0
3/15/2019 11:15	3.089	301.4	35.68	11.68	29.5	0
3/15/2019 11:30	3.39	340.5	19.33	12.08	29.5	0
3/15/2019 11:45	3.877	333.4	22.92	12.51	29.5	0

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3/15/2019 12:00	4.892	289.8	20.51	12.76	29.51	0
3/15/2019 12:15	6.262	279.6	17.26	12.92	29.51	0
3/15/2019 12:30	6.383	277.2	19.13	13.18	29.51	0
3/15/2019 12:45	6.397	294.5	22.62	13.56	29.51	0
3/15/2019 13:00	6.537	273.6	14.72	13.63	29.48	0
3/15/2019 13:15	7.858	276.8	10.38	13.62	29.48	0
3/15/2019 13:30	7.71	276.2	12.62	13.63	29.48	0
3/15/2019 13:45	7.538	287.5	17.29	13.98	29.48	0
3/15/2019 14:00	7.853	292.2	12.64	13.99	29.46	0
3/15/2019 14:15	6.77	295.6	15.39	14.1	29.46	0
3/15/2019 14:30	7.145	288.7	11.98	14.24	29.46	0
3/15/2019 14:45	5.964	286.8	16.66	14.44	29.46	0
3/15/2019 15:00	6.609	294	15.53	14.51	29.47	0
3/15/2019 15:15	5.15	318.6	30.69	14.74	29.47	0
3/15/2019 15:30	4.515	9.71	23.04	14.6	29.47	0
3/15/2019 15:45	5.49	11.52	20.44	14.34	29.47	0
3/15/2019 16:00	4.197	3.665	23.65	14.53	29.46	0
3/15/2019 16:15	6.184	19.02	12.62	14.01	29.46	0
3/15/2019 16:30	6.107	10.65	15.77	13.92	29.46	0
3/15/2019 16:45	6.389	8.09	16.64	13.97	29.46	0
3/15/2019 17:00	5.416	351	25.71	13.66	29.42	0
3/15/2019 17:15	6.524	300.5	7.469	13.05	29.42	0
3/15/2019 17:30	5.885	313.1	5.727	12.8	29.42	0
3/15/2019 17:45	6.224	314.9	6.032	12.39	29.42	0
3/15/2019 18:00	4.081	328	17	11.89	29.43	0
3/15/2019 18:15	3.27	345.1	30.41	11.85	29.43	0
3/15/2019 18:30	4.997	341.7	25.73	11.58	29.43	0
3/15/2019 18:45	3.703	29.48	17.87	10.94	29.43	0
3/15/2019 19:00	6.744	31.3	8.27	10.24	29.42	0
3/15/2019 19:15	7.183	38.39	6.885	9.97	29.42	0
3/15/2019 19:30	5.855	35.37	7.494	9.85	29.42	0
3/15/2019 19:45	5.939	26.9	9.44	9.49	29.42	0
3/15/2019 20:00	7.796	27.82	7.202	9.17	29.42	0
3/15/2019 20:15	7.465	30.19	7.047	8.87	29.42	0
3/15/2019 20:30	7.559	32.2	11.23	9.01	29.42	0
3/15/2019 20:45	8.11	37.49	11.5	9.15	29.42	0
3/15/2019 21:00	7.616	45.35	10.4	9.06	29.43	0
3/15/2019 21:15	6.746	45.65	11.63	8.65	29.43	0
3/15/2019 21:30	6.435	41.52	10.36	8.33	29.43	0
3/15/2019 21:45	6.088	33.93	10.12	8.22	29.43	0
3/15/2019 22:00	7.119	41.17	8.9	7.946	29.44	0
3/15/2019 22:15	6.098	42.07	8.61	7.553	29.44	0
3/15/2019 22:30	5.787	30.81	7.069	7.36	29.44	0
3/15/2019 22:45	4.754	30.29	7.804	7.245	29.44	0
3/15/2019 23:00	3.665	28.68	7.557	7.012	29.41	0
3/15/2019 23:15	4.755	25.76	8.42	7.237	29.41	0
3/15/2019 23:30	2.871	27.01	22.15	6.547	29.41	0
3/15/2019 23:45	2.213	307.7	37.77	6.927	29.41	0
3/16/2019 0:00	2.097	38.88	4.298	6.533	29.44	0
3/16/2019 0:15	2.931	37.48	6.412	6.191	29.44	0
3/16/2019 0:30	3.262	27.65	11.64	6.227	29.44	0
3/16/2019 0:45	2.801	39.67	6.788	6.634	29.44	0
3/16/2019 1:00	2.887	41.77	9.38	6.411	29.43	0
3/16/2019 1:15	4.329	105.3	20.6	6.869	29.43	0
3/16/2019 1:30	4.268	144	7.415	7.6	29.43	0
3/16/2019 1:45	3.438	150.1	10.85	7.31	29.43	0
3/16/2019 2:00	0.606	73.97	28.86	6.637	29.42	0
3/16/2019 2:15	1.903	25.84	8.54	6.446	29.42	0
3/16/2019 2:30	1.451	19.94	11.36	6.429	29.42	0
3/16/2019 2:45	2.306	359.9	12.75	6.55	29.42	0
3/16/2019 3:00	2.971	340	5.906	5.847	29.4	0
3/16/2019 3:15	1.312	341.7	9.42	5.912	29.4	0
3/16/2019 3:30	2.686	339.8	15.2	5.201	29.4	0
3/16/2019 3:45	2.545	12.79	14.96	5.065	29.4	0
3/16/2019 4:00	4.519	29.1	6.175	4.231	29.41	0
3/16/2019 4:15	4.705	23.91	8.35	4.034	29.41	0



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3/16/2019 4:30	5.363	20.99	9.52	4.412	29.41	0
3/16/2019 4:45	3.798	19.03	7.812	4.203	29.41	0
3/16/2019 5:00	3.72	33.72	9.12	4.284	29.43	0
3/16/2019 5:15	4.039	38.38	5.457	3.764	29.43	0
3/16/2019 5:30	5.083	36.85	6.755	3.633	29.43	0
3/16/2019 5:45	5.857	28.66	7.843	3.572	29.43	0
3/16/2019 6:00	5.624	22.32	6.665	3.797	29.44	0
3/16/2019 6:15	4.926	23.08	4.725	4.163	29.44	0
3/16/2019 6:30	3.967	21.18	4.874	4.256	29.44	0
3/16/2019 6:45	3.845	23.79	4.484	4.562	29.44	0
3/16/2019 7:00	4.845	27.52	3.777	4.448	29.45	0
3/16/2019 7:15	3.604	35.24	6.129	5.238	29.45	0
3/16/2019 7:30	3.774	31.27	7.106	4.86	29.45	0
3/16/2019 7:45	3.834	29.88	4.59	4.692	29.45	0
3/16/2019 8:00	3.606	19.52	5.612	5.287	29.45	0
3/16/2019 8:15	2.556	14.46	3.305	5.518	29.45	0
3/16/2019 8:30	2.421	34.9	11.89	5.761	29.45	0
3/16/2019 8:45	1.613	24.67	5.716	6.435	29.45	0
3/16/2019 9:00	1.826	18.25	19.26	7.4	29.43	0
3/16/2019 9:15	3.008	321.1	8.21	7.378	29.43	0
3/16/2019 9:30	2.817	313.9	12.3	8.09	29.43	0
3/16/2019 9:45	2.128	334.3	13.11	8.68	29.43	0
3/16/2019 10:00	2.225	308.2	17.04	9.13	29.43	0
3/16/2019 10:15	2.56	285.9	12.46	9.74	29.43	0
3/16/2019 10:30	3.706	301.2	12.66	9.88	29.43	0
3/16/2019 10:45	3.959	306.9	13.08	10.52	29.43	0
3/16/2019 11:00	4.002	302.5	13.03	11.16	29.45	0
3/16/2019 11:15	3.486	301.1	19.34	11.75	29.45	0
3/16/2019 11:30	3.926	290.7	23.76	12.47	29.45	0
3/16/2019 11:45	4.73	269.2	13.5	12.61	29.45	0
3/16/2019 12:00	4.892	279	9.78	12.83	29.44	0
3/16/2019 12:15	4.081	278.6	18.99	13.28	29.44	0
3/16/2019 12:30	5.205	283.9	17.08	13.5	29.44	0
3/16/2019 12:45	6.571	272.5	11.39	13.15	29.44	0
3/16/2019 13:00	4.551	313.3	15.76	13.46	29.43	0
3/16/2019 13:15	3.842	324.2	19.29	13.7	29.43	0
3/16/2019 13:30	4.573	273.6	14.17	13.73	29.43	0
3/16/2019 13:45	4.802	279.4	14.29	14.08	29.43	0
3/16/2019 14:00	3.579	267.8	18.45	14.16	29.42	0
3/16/2019 14:15	2.946	294.7	48.5	14.45	29.42	0
3/16/2019 14:30	2.571	292.7	22.5	15.02	29.42	0
3/16/2019 14:45	1.944	291.6	36.87	15.07	29.42	0
3/16/2019 15:00	1.915	255.8	30.63	15.53	29.41	0
3/16/2019 15:15	3.491	270.6	24.43	15.28	29.41	0
3/16/2019 15:30	4.277	292.6	17.53	15.39	29.41	0
3/16/2019 15:45	3.653	306.1	14.07	15.45	29.41	0
3/16/2019 16:00	5.108	285.2	7.976	15.24	29.41	0
3/16/2019 16:15	5.658	270.9	17.6	14.96	29.41	0
3/16/2019 16:30	5.654	284	6.939	14.64	29.41	0
3/16/2019 16:45	5.492	280	7.178	14.42	29.41	0
3/16/2019 17:00	6.581	280.3	4.184	14.21	29.43	0
3/16/2019 17:15	5.819	287.8	7.338	13.9	29.43	0
3/16/2019 17:30	5.616	305.3	4.265	13.41	29.43	0
3/16/2019 17:45	5.195	312.2	6.886	13.02	29.43	0
3/16/2019 18:00	4.764	336.3	14.39	12.81	29.43	0
3/16/2019 18:15	3.218	345.4	14.05	12.77	29.43	0
3/16/2019 18:30	4.309	7.843	11.7	12.5	29.43	0
3/16/2019 18:45	3.691	7.53	5.043	12.07	29.43	0
3/16/2019 19:00	3.66	10.11	9.61	12.07	29.43	0
3/16/2019 19:15	5.428	19.21	7.868	11.8	29.43	0
3/16/2019 19:30	5.685	29.07	8.94	11.6	29.43	0
3/16/2019 19:45	5.633	43.03	7.545	10.87	29.43	0
3/16/2019 20:00	5.228	52.1	8.08	10.84	29.43	0
3/16/2019 20:15	4.746	54.27	7.646	11	29.43	0
3/16/2019 20:30	3.612	53.45	7.026	10.76	29.43	0
3/16/2019 20:45	4.312	41.38	5.993	10.27	29.43	0

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3/16/2019 21:00	4.913	51.6	7.653	9.88	29.43	0
3/16/2019 21:15	4.604	46.5	6.71	9.45	29.43	0
3/16/2019 21:30	4.051	38.67	6.613	9.29	29.43	0
3/16/2019 21:45	4.171	49.99	5.818	8.87	29.43	0
3/16/2019 22:00	5.36	37.8	8.97	8.9	29.44	0
3/16/2019 22:15	5.015	36.24	8.03	8.69	29.44	0
3/16/2019 22:30	5.448	46.46	7.229	8.49	29.44	0
3/16/2019 22:45	4.801	44.16	9.82	8.35	29.44	0
3/16/2019 23:00	5.139	52.95	7.789	8.24	29.44	0
3/16/2019 23:15	4.11	59.63	10.27	8.07	29.44	0
3/16/2019 23:30	3.374	50.3	6.705	7.615	29.44	0
3/16/2019 23:45	3.059	39.48	11.55	7.342	29.44	0
3/17/2019 0:00	2.642	14.04	14.3	7.269	29.43	0
3/17/2019 0:15	2.251	19.98	15.29	6.902	29.43	0
3/17/2019 0:30	4.206	24.57	9.51	7.179	29.43	0
3/17/2019 0:45	4.075	33.41	10.19	6.698	29.43	0
3/17/2019 1:00	3.083	51.09	8.05	6.504	29.45	0
3/17/2019 1:15	3.437	81.4	11.54	6.683	29.45	0
3/17/2019 1:30	4.429	62.83	7.339	6.88	29.45	0
3/17/2019 1:45	3.75	27.82	15.9	6.865	29.45	0
3/17/2019 2:00	4.323	14.12	6.337	6.595	29.46	0
3/17/2019 2:15	3.255	16.14	3.984	6.805	29.46	0
3/17/2019 2:30	2.8	15.19	2.84	6.183	29.46	0
3/17/2019 2:45	3.098	0.149	13.02	6.528	29.46	0
3/17/2019 3:00	2.178	9.36	16.8	6.478	29.46	0
3/17/2019 3:15	2.024	19.13	5.356	5.9	29.46	0
3/17/2019 3:30	3.139	6.912	10.21	5.995	29.46	0
3/17/2019 3:45	3.223	40.04	8.83	5.116	29.46	0
3/17/2019 4:00	4.539	29.58	6.365	4.458	29.47	0
3/17/2019 4:15	3.89	37.86	7.796	4.194	29.47	0
3/17/2019 4:30	4.24	50.39	10.35	3.986	29.47	0
3/17/2019 4:45	4.057	14.26	17.55	4.321	29.47	0
3/17/2019 5:00	4.325	21.89	14.03	4.377	29.47	0
3/17/2019 5:15	4.418	38.31	6.887	4.423	29.47	0
3/17/2019 5:30	4.719	20.47	7.811	4.248	29.47	0
3/17/2019 5:45	4.288	17.59	9.12	4.164	29.47	0
3/17/2019 6:00	4.283	9.14	10.69	4.304	29.46	0
3/17/2019 6:15	2.731	6.027	16.68	4.39	29.46	0
3/17/2019 6:30	1.643	4.137	12.1	4.271	29.46	0
3/17/2019 6:45	2.93	37.62	9.24	3.759	29.46	0
3/17/2019 7:00	4.417	36.93	10.48	3.625	29.46	0
3/17/2019 7:15	4.061	29.35	13.46	3.992	29.46	0
3/17/2019 7:30	5.546	58.83	7.458	3.967	29.46	0
3/17/2019 7:45	4.666	57.22	8.02	3.953	29.46	0
3/17/2019 8:00	2.652	57.64	15.78	5.805	29.47	0
3/17/2019 8:15	2.893	28.53	14	5.899	29.47	0
3/17/2019 8:30	4.742	23.3	7.008	6.039	29.47	0
3/17/2019 8:45	3.722	23.48	11.66	6.62	29.47	0
3/17/2019 9:00	3.732	45.96	10.03	6.789	29.49	0
3/17/2019 9:15	3.328	50.5	10.44	7.338	29.49	0
3/17/2019 9:30	2.324	36.83	8.8	7.902	29.49	0
3/17/2019 9:45	0.571	343.2	64.04	9.62	29.49	0
3/17/2019 10:00	1.494	253.9	46.71	10.3	29.49	0
3/17/2019 10:15	1.644	350.2	53.09	10.81	29.49	0
3/17/2019 10:30	3.015	24.47	18.01	10.74	29.49	0
3/17/2019 10:45	3.353	22.48	13.81	10.98	29.49	0
3/17/2019 11:00	2.1	27.52	16.61	11.7	29.48	0
3/17/2019 11:15	2.734	42.63	22.02	11.93	29.48	0
3/17/2019 11:30	3.382	29.37	18.66	12.47	29.48	0
3/17/2019 11:45	3.873	29.76	22.05	13.31	29.48	0
3/17/2019 12:00	7.247	34.75	12.88	13.52	29.45	0
3/17/2019 12:15	6.393	29.81	10.43	13.96	29.45	0
3/17/2019 12:30	6.975	28.98	12.13	14.25	29.45	0
3/17/2019 12:45	7.137	29.38	12.29	14.62	29.45	0
3/17/2019 13:00	6.865	33.76	11.21	14.96	29.43	0
3/17/2019 13:15	7.653	28.84	10.94	15.31	29.43	0

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3/17/2019 13:30	7.809	30.58	9.35	15.64	29.43	0
3/17/2019 13:45	7.563	34.22	11.29	15.99	29.43	0
3/17/2019 14:00	9.33	33.7	10.76	16.21	29.42	0
3/17/2019 14:15	10.68	34.82	8.57	16.45	29.42	0
3/17/2019 14:30	9.51	20.56	13.79	16.89	29.42	0
3/17/2019 14:45	8.81	27.18	11.24	17.19	29.42	0
3/17/2019 15:00	9.12	24.27	11.43	17.61	29.4	0
3/17/2019 15:15	11.05	16.84	14.35	17.58	29.4	0
3/17/2019 15:30	11.3	13.93	10.74	17.72	29.4	0
3/17/2019 15:45	10.52	9.89	13.96	17.81	29.4	0
3/17/2019 16:00	10.61	3.89	16.8	17.92	29.41	0
3/17/2019 16:15	12.08	9.09	14.82	17.68	29.41	0
3/17/2019 16:30	12.22	8.12	14.09	17.54	29.41	0
3/17/2019 16:45	11.86	12.91	11.51	17.17	29.41	0
3/17/2019 17:00	10.63	9.58	12.21	16.93	29.38	0
3/17/2019 17:15	10.63	15.67	13.1	16.71	29.38	0
3/17/2019 17:30	11.52	19.32	10.31	16.36	29.38	0
3/17/2019 17:45	11.56	19.99	8.45	16.02	29.38	0
3/17/2019 18:00	9.11	21.12	10.94	15.43	29.38	0
3/17/2019 18:15	8.1	24.56	9.71	14.8	29.38	0
3/17/2019 18:30	9.48	25.8	8.96	14.57	29.38	0
3/17/2019 18:45	8.46	23.37	11.3	14.37	29.38	0
3/17/2019 19:00	9.24	32.3	10.61	14.15	29.4	0
3/17/2019 19:15	7.663	23.19	9.57	13.75	29.4	0
3/17/2019 19:30	8.7	26.91	9.84	13.26	29.4	0
3/17/2019 19:45	9.63	27.93	9.09	12.65	29.4	0
3/17/2019 20:00	8.44	30.41	8.87	12.52	29.38	0
3/17/2019 20:15	9.48	29.03	9.93	12.24	29.38	0
3/17/2019 20:30	7.715	34.87	9.72	11.86	29.38	0
3/17/2019 20:45	7.161	34.84	7.501	11.51	29.38	0
3/17/2019 21:00	5.951	29.46	7.353	11.23	29.41	0
3/17/2019 21:15	4.566	24.47	8.35	11.16	29.41	0
3/17/2019 21:30	4.681	22.02	8.68	11.05	29.41	0
3/17/2019 21:45	5.899	25.38	12.33	10.82	29.41	0
3/17/2019 22:00	5.403	16.06	8.07	10.19	29.41	0
3/17/2019 22:15	6.218	16.73	6.588	10.11	29.41	0
3/17/2019 22:30	5.074	29.2	5.569	9.75	29.41	0
3/17/2019 22:45	5.618	18.93	8.52	9.75	29.41	0
3/17/2019 23:00	4.405	24.92	12.31	9.8	29.41	0
3/17/2019 23:15	4.822	24.67	8.88	9.65	29.41	0
3/17/2019 23:30	5.958	15.72	7.65	9.35	29.41	0
3/17/2019 23:45	6.617	13.97	10.66	8.94	29.41	0
3/18/2019 0:00	6.923	16.35	10.41	8.26	29.38	0
3/18/2019 0:15	6.934	20.59	8.96	7.827	29.38	0
3/18/2019 0:30	6.279	17.22	11.14	7.405	29.38	0
3/18/2019 0:45	6.028	10.22	11.93	7.499	29.38	0
3/18/2019 1:00	5.94	17.38	7.662	7.804	29.4	0
3/18/2019 1:15	6.533	24.25	9.47	7.217	29.4	0
3/18/2019 1:30	7.424	17.8	9.27	7.156	29.4	0
3/18/2019 1:45	7.453	20.88	9.19	6.645	29.4	0
3/18/2019 2:00	6.787	18.36	8.52	6.947	29.38	0
3/18/2019 2:15	6.152	19.2	8.67	7.205	29.38	0
3/18/2019 2:30	6.64	22.36	8.75	7.188	29.38	0
3/18/2019 2:45	6.518	23.39	9.04	6.686	29.38	0
3/18/2019 3:00	7.334	27.81	7.977	6.687	29.37	0
3/18/2019 3:15	7.053	30.76	7.214	6.837	29.37	0
3/18/2019 3:30	6.62	23.29	7.901	7.734	29.37	0
3/18/2019 3:45	4.974	27.45	11.59	8.26	29.37	0
3/18/2019 4:00	5.023	33.55	11.88	8.7	29.38	0
3/18/2019 4:15	4.989	32.87	8.58	8.07	29.38	0
3/18/2019 4:30	5.035	27.66	8.89	7.886	29.38	0
3/18/2019 4:45	3.987	42.06	20	7.899	29.38	0
3/18/2019 5:00	3.416	79.66	32.57	7.971	29.38	0
3/18/2019 5:15	6.333	113.8	22.23	11.05	29.38	0
3/18/2019 5:30	10.19	120.8	6.95	13.55	29.38	0
3/18/2019 5:45	10.43	103.6	13.84	11.77	29.38	0

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3/18/2019 6:00	10.28	90.1	10.68	14.48	29.38	0
3/18/2019 6:15	9.27	75.2	17.79	15.36	29.38	0
3/18/2019 6:30	5.424	58.2	14.3	13.75	29.38	0
3/18/2019 6:45	6.797	72.6	13.41	12.65	29.38	0
3/18/2019 7:00	7.642	76.46	12.19	12.1	29.37	0
3/18/2019 7:15	8.16	51.84	9.97	9.08	29.37	0
3/18/2019 7:30	8.53	56.04	9.19	9.7	29.37	0
3/18/2019 7:45	6.535	54.82	10.8	10.78	29.37	0
3/18/2019 8:00	4.552	45.2	19.8	11.69	29.36	0
3/18/2019 8:15	5.529	38.31	15.46	11.61	29.36	0
3/18/2019 8:30	6.711	54.23	12.82	13.61	29.36	0
3/18/2019 8:45	5.106	28.58	13.8	13.62	29.36	0
3/18/2019 9:00	4.31	31.91	19.39	14.25	29.36	0
3/18/2019 9:15	3.638	59.31	50.59	15.46	29.36	0
3/18/2019 9:30	8.06	83.8	27.59	15.65	29.36	0
3/18/2019 9:45	6.43	45.6	22.02	15.82	29.36	0
3/18/2019 10:00	5.77	23.23	25.04	16.8	29.37	0
3/18/2019 10:15	7.784	76.34	44.33	18.09	29.37	0
3/18/2019 10:30	12.07	95.5	16.99	18.78	29.37	0
3/18/2019 10:45	12.28	104.9	17.42	19.06	29.37	0
3/18/2019 11:00	12.18	113.8	14.3	19.18	29.35	0
3/18/2019 11:15	11.77	107.5	12.54	19.47	29.35	0
3/18/2019 11:30	12.69	105	13.21	19.62	29.35	0
3/18/2019 11:45	14.13	107.8	11.42	19.76	29.35	0
3/18/2019 12:00	12.97	109.6	14.06	20.03	29.32	0
3/18/2019 12:15	12.16	102.6	17.1	20.2	29.32	0
3/18/2019 12:30	13.47	108.8	15.89	20.29	29.32	0
3/18/2019 12:45	15.19	114.9	14.38	20.5	29.32	0
3/18/2019 13:00	13.1	111.7	16.57	20.71	29.33	0
3/18/2019 13:15	13.2	118.7	15.06	21.06	29.33	0
3/18/2019 13:30	15.24	109.8	13.34	20.78	29.33	0
3/18/2019 13:45	14.24	101.6	19.43	20.97	29.33	0
3/18/2019 14:00	13.17	108.5	18.07	21.3	29.29	0
3/18/2019 14:15	13.85	108.4	20.56	21.41	29.29	0
3/18/2019 14:30	15.08	111.4	16.18	21.25	29.29	0
3/18/2019 14:45	16.63	116	15.63	21.1	29.29	0
3/18/2019 15:00	16.63	113.3	20.26	21.11	29.3	0
3/18/2019 15:15	15.97	112.1	14.89	20.98	29.3	0
3/18/2019 15:30	16.27	115.2	15.41	20.91	29.3	0
3/18/2019 15:45	18.3	110.8	15.93	20.75	29.3	0
3/18/2019 16:00	17.32	116.2	15.21	20.67	29.28	0
3/18/2019 16:15	16.53	119.7	15.86	20.52	29.28	0
3/18/2019 16:30	14.73	112.2	14.46	20.45	29.28	0
3/18/2019 16:45	15.16	123.4	15.32	20.21	29.28	0
3/18/2019 17:00	14.16	117.6	14.05	20.01	29.29	0
3/18/2019 17:15	14.17	118.7	13.67	19.78	29.29	0
3/18/2019 17:30	12.81	108	14.6	19.53	29.29	0
3/18/2019 17:45	10.96	107.8	17.59	19.23	29.29	0
3/18/2019 18:00	7.975	111.3	11.88	18.87	29.3	0
3/18/2019 18:15	5.367	128.7	13.9	18	29.3	0
3/18/2019 18:30	5.506	117.8	9.26	17.86	29.3	0
3/18/2019 18:45	6.402	114.6	13.32	17.59	29.3	0
3/18/2019 19:00	5.265	84.5	9.58	17.33	29.29	0
3/18/2019 19:15	4.146	77.35	15.95	16.87	29.29	0
3/18/2019 19:30	5.611	34.64	11.36	16.31	29.29	0
3/18/2019 19:45	2.478	32.51	19.37	16.18	29.29	0
3/18/2019 20:00	2.887	41.13	45.61	16.09	29.3	0
3/18/2019 20:15	5.071	95.6	12.36	16.26	29.3	0
3/18/2019 20:30	4.731	113.6	13.49	15.93	29.3	0
3/18/2019 20:45	6.423	115.4	11.81	15.54	29.3	0
3/18/2019 21:00	7.978	118.8	14.13	15.5	29.3	0
3/18/2019 21:15	9.89	126.2	8.43	15.32	29.3	0
3/18/2019 21:30	9.46	125.5	10.16	15.28	29.3	0
3/18/2019 21:45	9.12	108.7	11.56	14.98	29.3	0
3/18/2019 22:00	10.48	102	10.59	14.36	29.3	0
3/18/2019 22:15	14.24	120.3	8.75	14.41	29.3	0

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3/18/2019 22:30	16.14	118.7	9.68	15.33	29.3	0
3/18/2019 22:45	9.67	127.4	12.51	15.46	29.3	0
3/18/2019 23:00	5.411	96.5	33.81	15.09	29.3	0
3/18/2019 23:15	4.213	138.8	47.71	15.5	29.3	0
3/18/2019 23:30	3.057	165.9	18.42	15.53	29.3	0
3/18/2019 23:45	3.648	203.4	51.3	15.43	29.3	0
3/19/2019 0:00	5.568	117.6	50.85	15.88	29.29	0
3/19/2019 0:15	5.742	148.6	46.51	15.4	29.29	0
3/19/2019 0:30	8.73	120.2	25.8	15.98	29.29	0
3/19/2019 0:45	11.51	121.8	17.28	16	29.29	0
3/19/2019 1:00	15.8	110.2	13.03	16.17	29.26	0
3/19/2019 1:15	16.71	106.7	15	16.18	29.26	0
3/19/2019 1:30	16.93	119.2	12.46	16.22	29.26	0
3/19/2019 1:45	15.81	123.8	11.5	16.3	29.26	0
3/19/2019 2:00	14.86	122.2	11.88	16.23	29.29	0
3/19/2019 2:15	14.41	122.2	11.57	15.98	29.29	0
3/19/2019 2:30	13.52	112.9	13.01	16.02	29.29	0
3/19/2019 2:45	13.6	117	13.82	15.96	29.29	0
3/19/2019 3:00	13.83	118.8	10.79	16.02	29.27	0
3/19/2019 3:15	13.85	128.7	14.01	16.1	29.27	0
3/19/2019 3:30	12.9	127.4	13.59	16.14	29.27	0
3/19/2019 3:45	10.85	128.1	15.74	16.08	29.27	0
3/19/2019 4:00	10.44	126.3	16.82	16.02	29.25	0
3/19/2019 4:15	13.81	120.8	15.45	16.25	29.25	0
3/19/2019 4:30	11.48	134.2	15.93	16.03	29.25	0
3/19/2019 4:45	12.06	139	17	16.06	29.25	0
3/19/2019 5:00	9.76	142.8	18.91	15.75	29.23	0
3/19/2019 5:15	13.01	141.1	18.41	16.01	29.23	0
3/19/2019 5:30	15.49	138.2	15.18	16.29	29.23	0
3/19/2019 5:45	15.33	140.9	13.17	16.35	29.23	0
3/19/2019 6:00	15.1	134.2	13.39	16.37	29.21	0
3/19/2019 6:15	17.89	132.7	13.89	16.83	29.21	0
3/19/2019 6:30	19.85	126	12.73	17.13	29.21	0
3/19/2019 6:45	22.41	122.4	12.62	17.32	29.21	0
3/19/2019 7:00	22.13	122.1	11.91	17.52	29.22	0
3/19/2019 7:15	20.99	119.8	11.89	17.38	29.22	0
3/19/2019 7:30	18.97	118.5	9.58	16.95	29.22	0
3/19/2019 7:45	17.09	130.9	7.827	17.04	29.22	0
3/19/2019 8:00	16.45	127.3	8.66	17.25	29.25	0
3/19/2019 8:15	13.59	131	8.84	17.48	29.25	0
3/19/2019 8:30	12.05	130.8	9.38	17.75	29.25	0
3/19/2019 8:45	7.851	127.1	14.58	18.26	29.25	0
3/19/2019 9:00	9.01	121.8	22.11	18.47	29.25	0
3/19/2019 9:15	5.803	117.7	25.81	19.04	29.25	0
3/19/2019 9:30	6.478	121.5	29.3	19.58	29.25	0
3/19/2019 9:45	8.98	129.8	12.95	19.81	29.25	0
3/19/2019 10:00	10.07	119.2	18.29	20.34	29.24	0
3/19/2019 10:15	9.34	128.7	13.78	20.5	29.24	0
3/19/2019 10:30	9.61	129.3	19.15	21.11	29.24	0
3/19/2019 10:45	13.93	122.7	12.03	21.13	29.24	0
3/19/2019 11:00	17.48	127.3	14.18	21.17	29.23	0
3/19/2019 11:15	18.6	126.2	12.32	21.31	29.23	0
3/19/2019 11:30	20.31	122.8	14.11	21.56	29.23	0
3/19/2019 11:45	16.1	118	15.27	21.85	29.23	0
3/19/2019 12:00	17.41	131.3	14.99	22.13	29.22	0
3/19/2019 12:15	16.98	116.3	22.68	22.3	29.22	0
3/19/2019 12:30	14.19	111.2	18.37	22.48	29.22	0
3/19/2019 12:45	18.98	110.5	18.1	22.39	29.22	0
3/19/2019 13:00	17.18	109.2	16.56	22.62	29.2	0
3/19/2019 13:15	17.04	104.7	17.66	22.73	29.2	0
3/19/2019 13:30	17.45	103.3	17.6	22.76	29.2	0
3/19/2019 13:45	16.34	116.7	14.62	22.79	29.2	0
3/19/2019 14:00	15.4	112.3	17.67	22.91	29.18	0
3/19/2019 14:15	14.47	102.8	18.09	22.9	29.18	0
3/19/2019 14:30	14.42	112.8	17.96	22.96	29.18	0
3/19/2019 14:45	15.67	111.3	15.96	22.82	29.18	0

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3/19/2019 15:00	13.81	101.7	22.25	22.76	29.17	0
3/19/2019 15:15	15.06	109.8	19.36	22.7	29.17	0
3/19/2019 15:30	14.11	107.1	18.08	22.54	29.17	0
3/19/2019 15:45	13.31	111.5	16.23	22.52	29.17	0
3/19/2019 16:00	11.94	114.9	15.83	22.48	29.16	0
3/19/2019 16:15	10.8	113.8	14.89	22.4	29.16	0
3/19/2019 16:30	12.66	110.6	15.58	22.13	29.16	0
3/19/2019 16:45	13.53	116.6	14.47	21.85	29.16	0
3/19/2019 17:00	14.41	119.5	13.68	21.66	29.15	0
3/19/2019 17:15	14.52	115.9	13.71	21.51	29.15	0
3/19/2019 17:30	13.28	113.2	15.22	21.15	29.15	0
3/19/2019 17:45	14.04	113	13.45	20.81	29.15	0
3/19/2019 18:00	13.45	108.3	15.04	20.47	29.11	0
3/19/2019 18:15	12.4	109.7	14.3	19.98	29.11	0
3/19/2019 18:30	13.68	112.9	14.46	19.61	29.11	0
3/19/2019 18:45	13.79	115.4	13.45	19.49	29.11	0
3/19/2019 19:00	14.3	113.7	12.28	19.38	29.14	0
3/19/2019 19:15	12.91	115.5	13.09	19.05	29.14	0
3/19/2019 19:30	13.23	122.1	10.33	18.94	29.14	0
3/19/2019 19:45	13.03	118.5	12.64	18.74	29.14	0
3/19/2019 20:00	13.45	117.9	13.58	18.81	29.13	0
3/19/2019 20:15	14.43	121.5	14.1	18.66	29.13	0
3/19/2019 20:30	17.1	126.7	12.6	18.51	29.13	0
3/19/2019 20:45	18.02	123.9	12.6	18.29	29.13	0
3/19/2019 21:00	18.96	121.2	12.12	17.87	29.14	0
3/19/2019 21:15	17.32	113.2	12.02	17.69	29.14	0
3/19/2019 21:30	15.29	111	10.75	17.46	29.14	0
3/19/2019 21:45	11.48	124.8	11.54	17.22	29.14	0
3/19/2019 22:00	8.56	126.4	13.14	16.98	29.15	0
3/19/2019 22:15	13.21	130.3	12.55	17.04	29.15	0
3/19/2019 22:30	12.43	129.6	11.22	17.31	29.15	0
3/19/2019 22:45	15.66	132.6	12.16	17.54	29.15	0
3/19/2019 23:00	15.68	123.3	11.09	17.76	29.12	0
3/19/2019 23:15	15.89	122.5	12.98	17.98	29.12	0
3/19/2019 23:30	15.16	124.1	10.95	18.11	29.12	0
3/19/2019 23:45	14.58	121.3	10.99	17.97	29.12	0
3/20/2019 0:00	12.01	121.1	11.16	17.81	29.12	0
3/20/2019 0:15	12.45	116.5	12.92	17.96	29.12	0
3/20/2019 0:30	12.33	111	15.43	18.09	29.12	0
3/20/2019 0:45	10.35	107.7	15.76	18.05	29.12	0
3/20/2019 1:00	9.82	112.1	13.07	17.93	29.13	0
3/20/2019 1:15	11.76	118.3	11.96	18.1	29.13	0
3/20/2019 1:30	11.3	109.8	11.09	18.14	29.13	0
3/20/2019 1:45	9.4	110	12.2	17.88	29.13	0
3/20/2019 2:00	7.59	132.9	13.28	17.25	29.1	0
3/20/2019 2:15	7.969	133	13.54	16.87	29.1	0
3/20/2019 2:30	11.62	129	9.63	17.2	29.1	0
3/20/2019 2:45	10.02	132.2	10.91	17.22	29.1	0
3/20/2019 3:00	7.361	146.4	11.23	16.85	29.11	0
3/20/2019 3:15	7.396	172	15.65	16.82	29.11	0
3/20/2019 3:30	9.35	167.6	12.76	17.08	29.11	0
3/20/2019 3:45	12.48	157.3	6.421	17.19	29.11	0
3/20/2019 4:00	11.66	145	10.04	17	29.09	0
3/20/2019 4:15	11.59	126.6	10.95	17.52	29.09	0
3/20/2019 4:30	12.39	128.5	13.04	17.9	29.09	0
3/20/2019 4:45	12.55	125.8	14.89	18.04	29.09	0
3/20/2019 5:00	11.97	125.9	8.38	17.26	29.11	0
3/20/2019 5:15	15.11	123.6	9.21	17.49	29.11	0
3/20/2019 5:30	14.5	110	11.79	17.15	29.11	0
3/20/2019 5:45	10.41	114.6	12.09	16.2	29.11	0
3/20/2019 6:00	10.41	128.9	10.63	16.26	29.09	0
3/20/2019 6:15	10.67	135.8	8.81	16.28	29.09	0
3/20/2019 6:30	13.33	134.2	11.35	16.69	29.09	0
3/20/2019 6:45	12.76	140.7	9.02	16.41	29.09	0
3/20/2019 7:00	9.46	122	10.15	16.86	29.11	0
3/20/2019 7:15	10.41	115.3	9.95	17.29	29.11	0

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3/20/2019 7:30	10.83	97	11.01	17.34	29.11	0
3/20/2019 7:45	11.47	92.4	8.68	17.37	29.11	0
3/20/2019 8:00	10.95	96	10	17.53	29.09	0
3/20/2019 8:15	10.55	92.8	9.88	17.71	29.09	0
3/20/2019 8:30	8.96	98.3	12.94	18.06	29.09	0
3/20/2019 8:45	9.13	103.6	10.79	18.48	29.09	0
3/20/2019 9:00	6.787	104.3	16.02	19.06	29.1	0
3/20/2019 9:15	7.082	121.1	12.76	19.78	29.1	0
3/20/2019 9:30	5.991	71	25.6	19.74	29.1	0
3/20/2019 9:45	6.85	116.8	14.93	20.48	29.1	0
3/20/2019 10:00	6.705	116.8	12.62	21.37	29.09	0
3/20/2019 10:15	5.246	61.82	34.26	21.67	29.09	0
3/20/2019 10:30	10.41	102.6	22.98	22.23	29.09	0
3/20/2019 10:45	11.32	122.3	21.03	22.82	29.09	0
3/20/2019 11:00	7.901	114.9	21.16	23.15	29.06	0
3/20/2019 11:15	12.42	122	18.3	23.03	29.06	0
3/20/2019 11:30	8.93	116.8	22.49	23.28	29.06	0
3/20/2019 11:45	14.95	102.5	18.27	23.15	29.06	0
3/20/2019 12:00	13.89	101.4	19.2	23.22	29.06	0
3/20/2019 12:15	12.83	116.2	21.98	23.48	29.06	0
3/20/2019 12:30	13.9	114.8	17.86	23.39	29.06	0
3/20/2019 12:45	16.79	131.2	14.98	23.32	29.06	0
3/20/2019 13:00	14.77	125.4	20.17	23.46	29.02	0
3/20/2019 13:15	16.19	99	17.87	23.26	29.02	0
3/20/2019 13:30	15.86	103.4	20.6	23.24	29.02	0
3/20/2019 13:45	15.59	115.8	18.57	23.41	29.02	0
3/20/2019 14:00	14.26	97.1	17.57	23.42	29.02	0
3/20/2019 14:15	15.57	90.6	16.71	23.27	29.02	0
3/20/2019 14:30	18.35	92.9	17.57	23.14	29.02	0
3/20/2019 14:45	18.41	93.3	16.41	23.11	29.02	0
3/20/2019 15:00	18.51	96	17.5	23.14	29.02	0
3/20/2019 15:15	20.51	106.4	15	23.14	29.02	0
3/20/2019 15:30	18.61	101.8	15.89	23.02	29.02	0
3/20/2019 15:45	20.97	104.2	14.2	22.53	29.02	0
3/20/2019 16:00	18.85	101.9	14.82	22.23	29.05	0
3/20/2019 16:15	15.51	89.9	15.66	22.13	29.05	0
3/20/2019 16:30	17.04	85.9	12.52	21.94	29.05	0
3/20/2019 16:45	17.02	85.8	14.9	21.77	29.05	0
3/20/2019 17:00	16.34	91.4	15.2	21.49	29.04	0
3/20/2019 17:15	13.78	89.6	12.66	21.19	29.04	0
3/20/2019 17:30	13.5	87.2	13.9	20.84	29.04	0
3/20/2019 17:45	11.19	89.7	17.34	20.44	29.04	0
3/20/2019 18:00	10.64	103.2	14.73	20.13	29.04	0
3/20/2019 18:15	10.99	106	15.01	19.77	29.04	0
3/20/2019 18:30	12.62	105.8	14.38	19.49	29.04	0
3/20/2019 18:45	13.16	120.3	12.04	19.13	29.04	0
3/20/2019 19:00	15.9	119.7	10.06	19.04	29.05	0
3/20/2019 19:15	15.4	120.3	9.97	18.89	29.05	0
3/20/2019 19:30	14.42	121.2	10.55	18.72	29.05	0
3/20/2019 19:45	13.98	118.8	10.12	18.51	29.05	0
3/20/2019 20:00	12.64	134.5	10.69	18.2	29.07	0
3/20/2019 20:15	12.4	126.7	9.77	17.99	29.07	0
3/20/2019 20:30	14.68	127.2	10.41	17.85	29.07	0
3/20/2019 20:45	13.67	129.1	10.36	17.56	29.07	0
3/20/2019 21:00	13.61	131.4	10.63	17.36	29.1	0
3/20/2019 21:15	10.99	128.3	12.93	17.23	29.1	0
3/20/2019 21:30	9.47	129.8	14.64	17.06	29.1	0
3/20/2019 21:45	6.496	217.5	26.74	16.44	29.1	0
3/20/2019 22:00	7.006	188.3	10.75	16.32	29.14	0
3/20/2019 22:15	7.602	173.7	9.66	15.68	29.14	0
3/20/2019 22:30	6.152	188.2	12.3	15.53	29.14	0
3/20/2019 22:45	6.629	174.5	11.21	14.98	29.14	0
3/20/2019 23:00	5.851	164.7	10.21	14.8	29.16	0
3/20/2019 23:15	5.248	174.8	17.29	14.45	29.16	0
3/20/2019 23:30	6.412	193.4	12.44	13.89	29.16	0
3/20/2019 23:45	7.791	184	6.846	13.42	29.16	0

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3/21/2019 0:00	7.267	182.3	8.25	13.09	29.17	0
3/21/2019 0:15	7.325	168.8	9.18	12.68	29.17	0
3/21/2019 0:30	6.608	146.1	12.55	12.59	29.17	0
3/21/2019 0:45	3.778	93.7	23.18	11.92	29.17	0
3/21/2019 1:00	4.021	107.5	17.99	11.42	29.16	0
3/21/2019 1:15	5.304	137	8.54	12.24	29.16	0
3/21/2019 1:30	5.753	130.8	7.979	12.31	29.16	0
3/21/2019 1:45	5.56	149.5	10.33	12.39	29.16	0
3/21/2019 2:00	4.18	144.2	8.19	12.28	29.18	0
3/21/2019 2:15	1.931	114.7	22.96	11.75	29.18	0
3/21/2019 2:30	2.821	150.2	17.52	11.81	29.18	0
3/21/2019 2:45	6.664	194.8	6.214	10.17	29.18	0
3/21/2019 3:00	8.57	188.7	5.847	9.49	29.18	0
3/21/2019 3:15	7.658	184.5	7.21	9.41	29.18	0
3/21/2019 3:30	7.59	183.5	6.419	9.47	29.18	0
3/21/2019 3:45	7.552	191.3	7.951	9.2	29.18	0
3/21/2019 4:00	5.091	171	9.42	9.35	29.18	0
3/21/2019 4:15	3.088	155.1	11.49	9.36	29.18	0
3/21/2019 4:30	2.981	146.8	10.41	9.11	29.18	0
3/21/2019 4:45	3.703	163.8	5.465	9.16	29.18	0
3/21/2019 5:00	2.959	142.9	12.99	9.94	29.2	0
3/21/2019 5:15	1.946	133.6	7.59	9.99	29.2	0
3/21/2019 5:30	3.596	192.1	21.62	8.96	29.2	0
3/21/2019 5:45	4.505	206.3	8.6	7.894	29.2	0
3/21/2019 6:00	6.53	184.6	10.49	7.777	29.23	0
3/21/2019 6:15	7.482	197.9	11.32	6.741	29.23	0
3/21/2019 6:30	5.839	169.1	8.12	6.963	29.23	0
3/21/2019 6:45	4.56	119.1	11.87	6.795	29.23	0
3/21/2019 7:00	4.818	166.8	21.03	7.381	29.24	0
3/21/2019 7:15	7.383	174.9	6.853	7.59	29.24	0
3/21/2019 7:30	6.732	177.1	7.01	7.641	29.24	0
3/21/2019 7:45	5.108	172.6	13.57	7.838	29.24	0
3/21/2019 8:00	5.149	150.1	9.48	8.14	29.27	0
3/21/2019 8:15	5.475	148.3	7.715	8.46	29.27	0
3/21/2019 8:30	7.194	172.5	13.92	8.49	29.27	0
3/21/2019 8:45	6.255	173.1	14.03	8.85	29.27	0
3/21/2019 9:00	4.714	156.9	21.5	9.79	29.28	0
3/21/2019 9:15	5.188	194	15.97	9.39	29.28	0
3/21/2019 9:30	5.13	187.2	21.3	9.82	29.28	0
3/21/2019 9:45	5.995	179.9	19.51	10.28	29.28	0
3/21/2019 10:00	6.635	202.7	20.29	10.72	29.26	0
3/21/2019 10:15	7.467	182.1	20.69	11.3	29.26	0
3/21/2019 10:30	7.813	195.8	20.73	11.29	29.26	0
3/21/2019 10:45	8.41	176.4	16.26	11.55	29.26	0
3/21/2019 11:00	5.003	202.4	20.42	12	29.26	0
3/21/2019 11:15	8.21	171.8	27.4	12.55	29.26	0
3/21/2019 11:30	7.396	199.5	18.56	12.72	29.26	0
3/21/2019 11:45	5.878	162.8	20.42	12.84	29.26	0
3/21/2019 12:00	4.835	221	32.57	13.13	29.24	0
3/21/2019 12:15	4.739	240.3	38.88	13.37	29.24	0
3/21/2019 12:30	5.315	212	33.98	13.57	29.24	0
3/21/2019 12:45	6.489	208.5	31.17	13.72	29.24	0
3/21/2019 13:00	5.494	234.5	17.79	13.85	29.23	0
3/21/2019 13:15	3.081	163.6	31.04	14.35	29.23	0
3/21/2019 13:30	4.902	216.9	28.23	14.72	29.23	0
3/21/2019 13:45	5.954	215.3	18.34	14.92	29.23	0
3/21/2019 14:00	6.387	267	29.8	15.21	29.2	0
3/21/2019 14:15	5.195	283.1	23.56	15	29.2	0
3/21/2019 14:30	6.874	226.7	19.59	15.3	29.2	0
3/21/2019 14:45	5.822	216.5	23.18	15.18	29.2	0
3/21/2019 15:00	8.76	222.6	15.4	15.18	29.21	0
3/21/2019 15:15	10.88	255.8	10.27	14.64	29.21	0
3/21/2019 15:30	11.41	247.1	10.83	14.27	29.21	0
3/21/2019 15:45	11.22	248.9	10.35	13.91	29.21	0
3/21/2019 16:00	12.04	255.6	9.66	13.38	29.2	0
3/21/2019 16:15	11.28	255.6	11.43	12.97	29.2	0



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3/21/2019 16:30	11.28	238.7	11.09	13.06	29.2	0
3/21/2019 16:45	9.57	250.4	13.71	12.85	29.2	0
3/21/2019 17:00	10.38	255.9	10.02	12.62	29.21	0
3/21/2019 17:15	8.19	231.3	12.78	12.2	29.21	0
3/21/2019 17:30	8.16	239.5	10.71	11.94	29.21	0
3/21/2019 17:45	7.109	233.7	9.15	11.74	29.21	0
3/21/2019 18:00	5.679	220.9	12.17	11.52	29.21	0
3/21/2019 18:15	5.47	216.3	9.44	11.3	29.21	0
3/21/2019 18:30	5.393	231.8	10.83	11.21	29.21	0
3/21/2019 18:45	5.214	224.7	7.243	11.05	29.21	0
3/21/2019 19:00	4.049	237.4	6.874	10.81	29.24	0
3/21/2019 19:15	2.762	222.7	9.72	10.8	29.24	0
3/21/2019 19:30	4.358	199.4	7.512	10.78	29.24	0
3/21/2019 19:45	4.076	191.6	10.75	10.72	29.24	0
3/21/2019 20:00	3.384	217.7	13.44	10.61	29.23	0
3/21/2019 20:15	3.944	253.5	16.13	10.43	29.23	0
3/21/2019 20:30	3.344	256.6	6.672	10.25	29.23	0
3/21/2019 20:45	5.948	251.6	8.22	10.07	29.23	0
3/21/2019 21:00	5.804	253.6	7.657	9.79	29.21	0
3/21/2019 21:15	5.84	245	8.16	9.89	29.21	0
3/21/2019 21:30	6.727	255.8	9.7	9.94	29.21	0
3/21/2019 21:45	5.698	256.3	8	9.89	29.21	0
3/21/2019 22:00	3.553	238.2	21.32	9.95	29.2	0
3/21/2019 22:15	1.623	135.4	50.95	9.73	29.2	0
3/21/2019 22:30	0.96	91.7	30.91	9.54	29.2	0
3/21/2019 22:45	2.178	129	25.88	9.56	29.2	0
3/21/2019 23:00	2.505	101.9	5.87	9.44	29.2	0
3/21/2019 23:15	2.116	94.5	3.963	9.51	29.2	0
3/21/2019 23:30	2.179	93.6	4.52	9.51	29.2	0
3/21/2019 23:45	3.453	110.6	4.072	9.51	29.2	0
3/22/2019 0:00	4.106	125.4	9.34	9.52	29.19	0
3/22/2019 0:15	4.853	129	4.439	9.57	29.19	0
3/22/2019 0:30	4.79	121.1	7.426	9.59	29.19	0
3/22/2019 0:45	4.947	123.8	6.912	9.59	29.19	0
3/22/2019 1:00	5.367	140.8	8.52	9.63	29.18	0
3/22/2019 1:15	5.197	148.6	6.067	9.51	29.18	0
3/22/2019 1:30	5.226	137	6.066	9.53	29.18	0
3/22/2019 1:45	5.141	140.1	6.126	9.6	29.18	0
3/22/2019 2:00	5.36	139	5.695	9.65	29.17	0
3/22/2019 2:15	4.982	133.8	5.345	9.64	29.17	0
3/22/2019 2:30	4.271	122.7	7.124	9.57	29.17	0
3/22/2019 2:45	5.07	152.4	6.807	9.61	29.17	0
3/22/2019 3:00	5.021	162.1	4.934	9.63	29.15	0
3/22/2019 3:15	3.832	165	8.65	9.37	29.15	0
3/22/2019 3:30	2.92	199.2	14.46	9.46	29.15	0
3/22/2019 3:45	3.623	206.7	7.829	9.49	29.15	0
3/22/2019 4:00	3.275	181.9	11.68	9.42	29.13	0
3/22/2019 4:15	1.003	140	0.735	9.17	29.13	0
3/22/2019 4:30	2.233	170.7	23.07	9.33	29.13	0
3/22/2019 4:45	3.685	188.9	8.75	9.25	29.13	0
3/22/2019 5:00	3.291	189.8	6.783	9.14	29.13	0
3/22/2019 5:15	3.525	150.1	22.52	9.05	29.13	0
3/22/2019 5:30	2.362	86.9	13.24	8.71	29.13	0
3/22/2019 5:45	2.846	111.7	12.37	8.65	29.13	0
3/22/2019 6:00	3.533	132.6	7.364	9.02	29.12	0
3/22/2019 6:15	3.457	154.3	10.62	9.01	29.12	0
3/22/2019 6:30	2.574	132.4	5.765	8.7	29.12	0
3/22/2019 6:45	3.433	142.6	9.04	8.65	29.12	0
3/22/2019 7:00	5.512	115.3	8.78	8.88	29.1	0
3/22/2019 7:15	4.952	113.7	11.65	8.8	29.1	0
3/22/2019 7:30	4.622	147	10.63	9.47	29.1	0
3/22/2019 7:45	3.457	175.1	15.46	9.95	29.1	0
3/22/2019 8:00	3.599	202	11.14	10.07	29.1	0
3/22/2019 8:15	2.27	183.6	15.82	10.19	29.1	0
3/22/2019 8:30	2.579	85.3	33.61	10.74	29.1	0
3/22/2019 8:45	2.721	62.13	6.862	10.69	29.1	0

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3/22/2019 9:00	1.09	281.7	54.09	12.04	29.09	0
3/22/2019 9:15	1.808	231.1	43.2	12.32	29.09	0
3/22/2019 9:30	2.379	137.8	23.62	13.16	29.09	0
3/22/2019 9:45	4.214	127.3	25.59	13.47	29.09	0
3/22/2019 10:00	4.703	162.3	51.51	13.99	29.1	0
3/22/2019 10:15	5.401	207.9	19.49	13.91	29.1	0
3/22/2019 10:30	5.363	189.2	28.66	14.55	29.1	0
3/22/2019 10:45	6.96	205.4	15.14	15.02	29.1	0
3/22/2019 11:00	7.21	188.3	13.55	15.4	29.07	0
3/22/2019 11:15	6.809	209.1	20.7	15.77	29.07	0
3/22/2019 11:30	8.04	214.6	32.72	16.2	29.07	0
3/22/2019 11:45	6.755	189.8	25.11	16.59	29.07	0
3/22/2019 12:00	7.046	210.1	28.17	16.53	29.08	0
3/22/2019 12:15	5.275	212.2	45.04	16.74	29.08	0
3/22/2019 12:30	5.869	211.8	33.07	17.29	29.08	0
3/22/2019 12:45	7.913	240.3	24.86	17.22	29.08	0
3/22/2019 13:00	10.5	257.3	17.18	17.29	29.04	0
3/22/2019 13:15	11.74	240.1	10.24	16.78	29.04	0
3/22/2019 13:30	6.382	233.3	32.32	17.07	29.04	0
3/22/2019 13:45	10.62	264	17.49	16.63	29.04	0
3/22/2019 14:00	10.46	265.7	12.66	16.41	29.08	0
3/22/2019 14:15	13.6	260.2	11.89	15.78	29.08	0
3/22/2019 14:30	17.56	255	9.82	14.82	29.08	0
3/22/2019 14:45	17.1	249.1	11.32	14.1	29.08	0
3/22/2019 15:00	14.48	252.1	11.51	13.72	29.1	0
3/22/2019 15:15	15.39	233.1	9.11	13.22	29.1	0
3/22/2019 15:30	12.9	226.9	7.055	12.65	29.1	0
3/22/2019 15:45	8.94	214.9	14.68	12.53	29.1	0
3/22/2019 16:00	7.933	207	17.84	12.4	29.12	0
3/22/2019 16:15	5.897	227.4	11.97	12.1	29.12	0
3/22/2019 16:30	5.093	223.4	13.64	12.01	29.12	0
3/22/2019 16:45	2.918	179	22.79	12.08	29.12	0
3/22/2019 17:00	3.921	185.8	13.9	12.04	29.15	0
3/22/2019 17:15	2.845	117.6	20.12	11.66	29.15	0
3/22/2019 17:30	3.674	100.2	11.43	11.32	29.15	0
3/22/2019 17:45	3.312	112.8	8.99	11.42	29.15	0
3/22/2019 18:00	1.439	126.5	34.66	11.45	29.13	0
3/22/2019 18:15	2.15	225.9	19.41	11.76	29.13	0
3/22/2019 18:30	2.388	232.8	14.69	11.82	29.13	0
3/22/2019 18:45	5.068	234.5	14.45	11.89	29.13	0
3/22/2019 19:00	6.1	220.1	8.97	11.82	29.17	0
3/22/2019 19:15	7.167	224.9	11.73	11.76	29.17	0
3/22/2019 19:30	7.061	233.8	9.34	11.61	29.17	0
3/22/2019 19:45	7.812	267.8	18.22	10.9	29.17	0
3/22/2019 20:00	8.45	264.8	10.57	10.02	29.17	0
3/22/2019 20:15	8.45	258.9	11.06	10.01	29.17	0
3/22/2019 20:30	7.202	241	11.36	9.91	29.17	0.01
3/22/2019 20:45	6.63	233.5	11.81	9.68	29.17	0
3/22/2019 21:00	5.503	226.9	16.37	9.43	29.2	0.01
3/22/2019 21:15	4.26	224.5	12.97	9.32	29.2	0.01
3/22/2019 21:30	2.919	162.2	15.6	8.99	29.2	0
3/22/2019 21:45	2.621	147.5	13.51	8.8	29.2	0
3/22/2019 22:00	3.52	172.7	17.42	8.84	29.21	0.01
3/22/2019 22:15	4.184	170.8	11.61	8.87	29.21	0
3/22/2019 22:30	3.238	148.1	16.17	8.62	29.21	0
3/22/2019 22:45	5.886	144.4	6.964	8.63	29.21	0
3/22/2019 23:00	5.849	144.9	6.773	8.59	29.25	0
3/22/2019 23:15	5.974	146.5	6.381	8.51	29.25	0.01
3/22/2019 23:30	6.682	158.8	20.19	8.49	29.25	0
3/22/2019 23:45	6.775	187.3	9.23	8.59	29.25	0
3/23/2019 0:00	6.821	170.2	12.78	8.47	29.27	0
3/23/2019 0:15	7.207	162.9	7.343	8.33	29.27	0
3/23/2019 0:30	7.562	165.9	15.25	8.31	29.27	0
3/23/2019 0:45	7.32	182.8	7.476	8.31	29.27	0
3/23/2019 1:00	6.267	184.2	7.377	8.27	29.29	0
3/23/2019 1:15	5.156	153.4	15.08	8.09	29.29	0

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3/23/2019 1:30	3.744	132.4	10.84	8.01	29.29	0
3/23/2019 1:45	4.305	141.1	7.35	7.749	29.29	0
3/23/2019 2:00	5.153	144	6.612	7.498	29.29	0
3/23/2019 2:15	4.137	139.8	5.223	7.5	29.29	0
3/23/2019 2:30	2.501	112	13.46	7.237	29.29	0
3/23/2019 2:45	1.143	66.19	11.48	7.163	29.29	0
3/23/2019 3:00	2.533	97.2	10.33	7.269	29.29	0
3/23/2019 3:15	2.076	85.6	14.62	7.405	29.29	0
3/23/2019 3:30	2.715	93.8	7.438	7.399	29.29	0
3/23/2019 3:45	2.394	98.7	6.95	7.249	29.29	0
3/23/2019 4:00	2.269	111.9	0.78	7.369	29.3	0
3/23/2019 4:15	2.006	174.5	14.92	7.72	29.3	0
3/23/2019 4:30	0.757	142.7	9.61	7.224	29.3	0
3/23/2019 4:45	2.094	81.6	9.09	6.479	29.3	0
3/23/2019 5:00	3.018	83.5	8.86	6.285	29.32	0
3/23/2019 5:15	2.425	78.73	8.93	6.446	29.32	0
3/23/2019 5:30	1.589	24.42	17.07	6.64	29.32	0
3/23/2019 5:45	2.164	15.48	3.024	6.732	29.32	0
3/23/2019 6:00	2.214	16.89	2.373	6.697	29.31	0
3/23/2019 6:15	0.91	18.46	0.065	6.866	29.31	0
3/23/2019 6:30	0.556	141.4	15.73	6.503	29.31	0
3/23/2019 6:45	0.053	161.1	0.021	6.378	29.31	0
3/23/2019 7:00	0.548	100.7	2.429	6.535	29.32	0
3/23/2019 7:15	1.726	94.9	1.852	6.722	29.32	0
3/23/2019 7:30	1.443	78.39	14.17	7.024	29.32	0
3/23/2019 7:45	0.792	62.59	4.032	7.576	29.32	0
3/23/2019 8:00	0.822	153.5	28.34	8.34	29.35	0
3/23/2019 8:15	2.557	171.7	14.51	8.17	29.35	0
3/23/2019 8:30	2.874	179.5	17.09	8.19	29.35	0
3/23/2019 8:45	1.746	85.9	34.15	8.85	29.35	0
3/23/2019 9:00	1.115	47.9	7.478	9.2	29.35	0
3/23/2019 9:15	0.783	95.2	5.171	9.8	29.35	0
3/23/2019 9:30	0.839	188.5	56.13	10.3	29.35	0
3/23/2019 9:45	0.984	323.7	38.42	10.21	29.35	0
3/23/2019 10:00	1.124	345.2	21.94	10.44	29.34	0
3/23/2019 10:15	1.956	288	21.41	10.99	29.34	0
3/23/2019 10:30	2.713	295.1	15.4	10.99	29.34	0
3/23/2019 10:45	3.061	312.2	9.9	10.84	29.34	0
3/23/2019 11:00	3.831	325.3	21.97	10.99	29.36	0
3/23/2019 11:15	2.686	316.6	22.4	11.08	29.36	0
3/23/2019 11:30	2.664	22.58	17.18	11.51	29.36	0
3/23/2019 11:45	3.548	354.9	25.71	11.69	29.36	0
3/23/2019 12:00	5.011	314	45.1	12.48	29.36	0
3/23/2019 12:15	6.028	253.1	16.11	12.37	29.36	0
3/23/2019 12:30	7.187	261.4	14.94	12.66	29.36	0
3/23/2019 12:45	6.158	275.1	23.54	12.86	29.36	0
3/23/2019 13:00	5.622	253.6	34.73	13	29.35	0
3/23/2019 13:15	5.707	276.2	37.1	13.25	29.35	0
3/23/2019 13:30	4.6	301.3	25.07	13.33	29.35	0
3/23/2019 13:45	5.413	335.4	25.9	13.39	29.35	0
3/23/2019 14:00	5.857	343.9	47.1	13.19	29.33	0
3/23/2019 14:15	6.957	316.1	24.02	13.89	29.33	0
3/23/2019 14:30	6.177	314.8	32.62	14.02	29.33	0
3/23/2019 14:45	8.95	292.3	23.64	13.93	29.33	0
3/23/2019 15:00	8.36	296.1	30.33	13.82	29.33	0
3/23/2019 15:15	7.939	302.6	17.15	13.42	29.33	0
3/23/2019 15:30	9.54	297.2	12.38	13.45	29.33	0
3/23/2019 15:45	7.495	296.3	25.91	13.23	29.33	0
3/23/2019 16:00	7.939	302.4	12.37	13.04	29.34	0
3/23/2019 16:15	7.671	304.4	11.5	13.08	29.34	0
3/23/2019 16:30	8.14	300.6	10.77	13.07	29.34	0
3/23/2019 16:45	6.992	295.9	15.86	13.09	29.34	0
3/23/2019 17:00	8.02	318.6	8.5	13.11	29.32	0
3/23/2019 17:15	7.826	323.8	12.11	12.93	29.32	0
3/23/2019 17:30	6.139	329.5	7.845	12.75	29.32	0
3/23/2019 17:45	5.999	319.5	9.48	12.58	29.32	0

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3/23/2019 18:00	4.952	288.5	16.91	12.56	29.35	0
3/23/2019 18:15	4.824	288.1	12.64	12.24	29.35	0
3/23/2019 18:30	4.368	278.7	8.73	11.96	29.35	0
3/23/2019 18:45	3.012	265.9	4.545	11.76	29.35	0
3/23/2019 19:00	2.432	274.1	4.483	11.62	29.34	0
3/23/2019 19:15	2.148	276.2	4.746	11.62	29.34	0
3/23/2019 19:30	1.278	353.5	26.8	11.27	29.34	0
3/23/2019 19:45	0.132	25.78	16.74	11.18	29.34	0
3/23/2019 20:00	2.343	164.8	16.07	10.78	29.36	0
3/23/2019 20:15	2.604	178.2	11.49	10.79	29.36	0
3/23/2019 20:30	1.904	128.2	33.94	10.5	29.36	0
3/23/2019 20:45	2.612	87.6	12.65	9.98	29.36	0
3/23/2019 21:00	3.36	124.8	7.348	9.82	29.38	0
3/23/2019 21:15	2.267	143.5	7.639	9.96	29.38	0
3/23/2019 21:30	3.395	46.78	19.92	9.23	29.38	0
3/23/2019 21:45	2.822	44.25	6.248	9.09	29.38	0
3/23/2019 22:00	4.275	45.88	8.57	8.48	29.37	0
3/23/2019 22:15	6.09	40.98	6.631	8.61	29.37	0
3/23/2019 22:30	6.017	41.25	8.78	8.4	29.37	0
3/23/2019 22:45	6.996	40.81	6.772	8.42	29.37	0
3/23/2019 23:00	6.65	41.08	7.08	8.31	29.35	0
3/23/2019 23:15	7.208	37.86	8.9	8.33	29.35	0
3/23/2019 23:30	4.483	39.08	10.36	7.745	29.35	0
3/23/2019 23:45	4.526	51.52	11.28	7.772	29.35	0
3/24/2019 0:00	5.829	45.39	10.99	7.504	29.37	0
3/24/2019 0:15	5.345	44.08	9.14	7.185	29.37	0
3/24/2019 0:30	6.479	45.95	8.28	6.961	29.37	0
3/24/2019 0:45	5.804	45.64	7.687	7.133	29.37	0
3/24/2019 1:00	3.858	39.67	6.813	7.04	29.36	0
3/24/2019 1:15	4.203	50.89	6.54	7.245	29.36	0
3/24/2019 1:30	4.562	53.54	5.964	7.243	29.36	0
3/24/2019 1:45	3.93	50.85	5.1	7.375	29.36	0
3/24/2019 2:00	2.419	44.85	7.041	7.405	29.38	0
3/24/2019 2:15	2.452	46.7	5.799	7.524	29.38	0
3/24/2019 2:30	2.121	73.11	8.3	7.638	29.38	0
3/24/2019 2:45	1.382	84	0.17	7.573	29.38	0
3/24/2019 3:00	0.61	83.9	0.172	7.467	29.35	0
3/24/2019 3:15	0.469	84.5	0.698	7.623	29.35	0
3/24/2019 3:30	0.192	85.3	0.008	7.582	29.35	0
3/24/2019 3:45	0	0	0	7.512	29.35	0
3/24/2019 4:00	0.871	144.8	24.7	7.419	29.37	0
3/24/2019 4:15	2.809	158.1	3.854	7.549	29.37	0
3/24/2019 4:30	1.816	166.5	16.79	7.371	29.37	0
3/24/2019 4:45	2.149	208.6	12.72	7.388	29.37	0
3/24/2019 5:00	2.293	223.8	3.836	7.37	29.34	0
3/24/2019 5:15	2.376	206.1	9.18	7.18	29.34	0
3/24/2019 5:30	2.126	178.4	10.61	7.054	29.34	0
3/24/2019 5:45	2.093	202.6	16.64	7.011	29.34	0
3/24/2019 6:00	1.34	235	1.126	6.858	29.37	0
3/24/2019 6:15	0.83	232.7	1.41	6.74	29.37	0
3/24/2019 6:30	0.389	233.1	0.114	6.644	29.37	0
3/24/2019 6:45	0	0	0	6.761	29.37	0
3/24/2019 7:00	0.26	228.4	17.72	6.636	29.34	0
3/24/2019 7:15	1.397	116.3	1.333	6.749	29.34	0
3/24/2019 7:30	1.681	134.8	5.889	6.93	29.34	0
3/24/2019 7:45	1.426	149.9	10.24	7.148	29.34	0
3/24/2019 8:00	1.664	159.4	15.89	7.229	29.37	0
3/24/2019 8:15	1.938	177.7	28.25	7.329	29.37	0
3/24/2019 8:30	3.142	201.5	13.63	7.277	29.37	0
3/24/2019 8:45	3.461	210.2	10.14	7.342	29.37	0
3/24/2019 9:00	3.719	216.6	10.21	7.48	29.36	0
3/24/2019 9:15	3.5	219.1	15.69	7.708	29.36	0
3/24/2019 9:30	3.146	195.4	19.5	7.638	29.36	0
3/24/2019 9:45	2.43	201.7	15.56	7.766	29.36	0
3/24/2019 10:00	1.79	172	20.65	8.03	29.36	0
3/24/2019 10:15	1.844	183.2	23.52	8.23	29.36	0

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3/24/2019 10:30	1.785	177	37	8.5	29.36	0
3/24/2019 10:45	1.946	140.7	29.92	8.49	29.36	0
3/24/2019 11:00	2.652	157.4	29	8.65	29.36	0
3/24/2019 11:15	2.083	193.8	46.73	8.83	29.36	0
3/24/2019 11:30	1.571	218.6	37.78	9.29	29.36	0
3/24/2019 11:45	1.62	234.4	35.58	9.22	29.36	0
3/24/2019 12:00	0.513	72.46	36.83	9.35	29.38	0
3/24/2019 12:15	2.226	251.3	24.72	9.44	29.38	0
3/24/2019 12:30	2.799	217.1	29.85	9.74	29.38	0
3/24/2019 12:45	1.561	246.6	44.72	9.85	29.38	0
3/24/2019 13:00	2.953	238.4	29.94	9.81	29.37	0
3/24/2019 13:15	2.462	176.2	47.44	10.01	29.37	0
3/24/2019 13:30	3.793	139.1	28.68	9.86	29.37	0
3/24/2019 13:45	4.74	94.4	17.68	9.75	29.37	0
3/24/2019 14:00	4.771	119.3	18.65	9.98	29.35	0
3/24/2019 14:15	4.564	116.2	28.04	9.94	29.35	0
3/24/2019 14:30	4.317	129.5	15.82	9.97	29.35	0
3/24/2019 14:45	5.643	156.8	16.16	9.77	29.35	0
3/24/2019 15:00	5.882	153.9	12.33	9.67	29.37	0
3/24/2019 15:15	5.955	157.1	12.94	9.84	29.37	0
3/24/2019 15:30	5.509	149.8	12.4	9.89	29.37	0
3/24/2019 15:45	5.665	157.6	8.09	9.85	29.37	0
3/24/2019 16:00	5.783	151.6	16.52	9.8	29.36	0
3/24/2019 16:15	4.01	132.1	14	9.96	29.36	0
3/24/2019 16:30	5.28	113	11.26	10.05	29.36	0
3/24/2019 16:45	6.135	103.9	13.53	10.05	29.36	0
3/24/2019 17:00	5.296	93.3	22.25	9.97	29.33	0
3/24/2019 17:15	5.742	115.8	17.85	9.98	29.33	0
3/24/2019 17:30	4.499	114.8	40.55	9.9	29.33	0
3/24/2019 17:45	3.376	116.7	27.51	9.84	29.33	0
3/24/2019 18:00	3.941	103.9	8.92	9.69	29.33	0
3/24/2019 18:15	3.94	120	8.66	9.66	29.33	0
3/24/2019 18:30	4.276	128.7	11.81	9.64	29.33	0
3/24/2019 18:45	3.833	121.8	8.63	9.51	29.33	0
3/24/2019 19:00	3.382	119.1	3.537	9.46	29.34	0
3/24/2019 19:15	3.252	116.2	13.8	9.2	29.34	0
3/24/2019 19:30	4.093	98.4	6.721	9.12	29.34	0
3/24/2019 19:45	3.928	95.7	6.151	9.05	29.34	0
3/24/2019 20:00	3.828	77.2	11.26	8.78	29.32	0
3/24/2019 20:15	3.937	103.9	4.539	8.75	29.32	0
3/24/2019 20:30	2.073	104.5	4.117	8.78	29.32	0
3/24/2019 20:45	3.165	128.6	8.49	8.65	29.32	0
3/24/2019 21:00	4.64	96.4	7.921	7.878	29.32	0
3/24/2019 21:15	5.553	86.6	8.23	7.798	29.32	0
3/24/2019 21:30	3.335	64.04	18.93	7.216	29.32	0
3/24/2019 21:45	3.31	52.15	7.006	7.427	29.32	0
3/24/2019 22:00	3.442	88.9	14.87	7.62	29.32	0
3/24/2019 22:15	2.798	119.2	13.04	6.922	29.32	0
3/24/2019 22:30	2.261	152.9	8.18	7.621	29.32	0
3/24/2019 22:45	3.283	131.3	18.5	7.61	29.32	0
3/24/2019 23:00	3.59	118.8	6.767	6.862	29.32	0
3/24/2019 23:15	5.14	139.9	10.91	7.308	29.32	0
3/24/2019 23:30	4.377	153.2	7.183	7.372	29.32	0
3/24/2019 23:45	3.486	95.3	12.66	6.359	29.32	0
3/25/2019 0:00	4.083	81.1	9.78	6.599	29.3	0
3/25/2019 0:15	2.936	82	15.42	6.437	29.3	0
3/25/2019 0:30	2.619	93.6	19.72	6.615	29.3	0
3/25/2019 0:45	2.489	52.18	5.669	6.736	29.3	0
3/25/2019 1:00	2.298	57.99	31.57	6.087	29.27	0
3/25/2019 1:15	2.297	100	17.79	6.691	29.27	0
3/25/2019 1:30	4.106	43.61	13.06	6.234	29.27	0
3/25/2019 1:45	4.592	21.78	9.37	5.936	29.27	0
3/25/2019 2:00	4.012	22.77	10.86	6.109	29.24	0
3/25/2019 2:15	3.789	31.85	10.62	5.617	29.24	0
3/25/2019 2:30	4.258	24.03	9.29	5.225	29.24	0
3/25/2019 2:45	4.407	30.72	17.5	5.14	29.24	0

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3/25/2019 3:00	4.493	28.69	14.06	5.071	29.21	0
3/25/2019 3:15	4.311	35.1	12.66	4.605	29.21	0
3/25/2019 3:30	5.651	24.01	8.1	4.491	29.21	0
3/25/2019 3:45	5.808	30.14	8.42	4.593	29.21	0
3/25/2019 4:00	4.871	23.22	11.77	4.362	29.18	0
3/25/2019 4:15	3.24	114.2	56.85	5.527	29.18	0
3/25/2019 4:30	4.371	112.2	25.77	7.26	29.18	0
3/25/2019 4:45	4.551	89.2	21.51	6.469	29.18	0
3/25/2019 5:00	5.749	90	23.89	7.572	29.17	0
3/25/2019 5:15	3.425	81.9	23.5	7.253	29.17	0
3/25/2019 5:30	2.377	71.99	32.55	7.399	29.17	0
3/25/2019 5:45	3.239	63.41	21.63	7.339	29.17	0
3/25/2019 6:00	2.791	68.43	23.19	7.995	29.14	0
3/25/2019 6:15	2.032	40.45	36.84	8.32	29.14	0
3/25/2019 6:30	4.677	353	20.17	6.689	29.14	0
3/25/2019 6:45	3.666	333.1	30.97	7.991	29.14	0
3/25/2019 7:00	2.596	301.5	56.65	8.91	29.13	0
3/25/2019 7:15	2.797	76.02	29.86	9.91	29.13	0
3/25/2019 7:30	3.525	40.26	30.27	9.22	29.13	0
3/25/2019 7:45	5.267	34.96	17.78	7.786	29.13	0
3/25/2019 8:00	5.886	54.68	18.88	9.12	29.04	0
3/25/2019 8:15	5.644	120.4	16	11.72	29.04	0
3/25/2019 8:30	9.26	134.4	15.18	13.13	29.04	0
3/25/2019 8:45	9.7	175.4	34.09	13.03	29.04	0
3/25/2019 9:00	9.56	114.2	20.34	13.59	29.06	0
3/25/2019 9:15	13.63	135.2	14.52	13.85	29.06	0
3/25/2019 9:30	9.68	145.7	17.37	14.05	29.06	0
3/25/2019 9:45	14.58	131.1	14.51	14.26	29.06	0
3/25/2019 10:00	15.65	125.9	13.59	14.28	29.06	0
3/25/2019 10:15	14.93	130.8	14.24	14.46	29.06	0
3/25/2019 10:30	17.03	134.3	14.55	14.51	29.06	0
3/25/2019 10:45	17.28	133.1	14.05	14.59	29.06	0
3/25/2019 11:00	17.35	129.8	13.52	14.68	29.07	0
3/25/2019 11:15	15.22	120.8	15.09	14.71	29.07	0
3/25/2019 11:30	16.79	124	12.75	14.5	29.07	0
3/25/2019 11:45	15.25	117.8	14.42	14.24	29.07	0
3/25/2019 12:00	14.79	132.3	13.67	13.94	29.07	0
3/25/2019 12:15	15.52	134.8	11.35	14	29.07	0
3/25/2019 12:30	14.94	132	11.58	14.08	29.07	0
3/25/2019 12:45	17.89	140.2	10.7	14.05	29.07	0
3/25/2019 13:00	15.41	149.1	14.17	14.01	29.05	0
3/25/2019 13:15	11.43	116.4	20.09	14.54	29.05	0
3/25/2019 13:30	14.39	116.7	16.03	14.89	29.05	0
3/25/2019 13:45	12.69	120.4	14.59	15.14	29.05	0
3/25/2019 14:00	10.49	132	18.08	15.18	29.01	0
3/25/2019 14:15	11.76	141.2	12.59	15.17	29.01	0
3/25/2019 14:30	11.01	138.8	11.58	15.06	29.01	0
3/25/2019 14:45	9.4	152.8	16.9	15.12	29.01	0
3/25/2019 15:00	15.59	263.3	27.59	13.24	29.03	0
3/25/2019 15:15	15.12	273.7	7.512	12.23	29.03	0
3/25/2019 15:30	17.22	260.3	8.49	11.58	29.03	0
3/25/2019 15:45	16.78	254.9	9.72	10.83	29.03	0
3/25/2019 16:00	10.55	247.5	12.98	10.28	29.06	0
3/25/2019 16:15	6.8	252.8	19.93	9.88	29.06	0
3/25/2019 16:30	5.359	272.1	10.81	9.49	29.06	0
3/25/2019 16:45	5.182	288.4	5.755	9.03	29.06	0.01
3/25/2019 17:00	5.537	293.2	4.394	8.52	29.05	0.01
3/25/2019 17:15	5.544	301.6	5.023	8.06	29.05	0.02
3/25/2019 17:30	5.908	322.2	6.762	7.774	29.05	0.01
3/25/2019 17:45	7.745	302.2	20.17	7.591	29.05	0
3/25/2019 18:00	9.61	263	8.03	7.569	29.09	0.02
3/25/2019 18:15	8.52	268.8	10.45	7.525	29.09	0.01
3/25/2019 18:30	6.62	267.4	10.14	7.461	29.09	0
3/25/2019 18:45	7.05	264.5	12.05	7.432	29.09	0.02
3/25/2019 19:00	8.8	251	12.83	7.42	29.12	0.02
3/25/2019 19:15	9.52	239.2	9.32	7.405	29.12	0.03

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3/25/2019 19:30	10.62	221.5	10.22	7.519	29.12	0.01
3/25/2019 19:45	9.95	204.3	9	7.596	29.12	0.01
3/25/2019 20:00	12.38	202.1	7.411	7.656	29.12	0
3/25/2019 20:15	12.44	197.5	7.763	7.529	29.12	0
3/25/2019 20:30	13.12	195.3	9.55	7.419	29.12	0
3/25/2019 20:45	13.2	192.7	7.745	7.14	29.12	0.01
3/25/2019 21:00	12.19	196.7	8.14	6.906	29.17	0
3/25/2019 21:15	9.57	193.1	8.55	6.712	29.17	0
3/25/2019 21:30	9.71	184.8	8.6	6.605	29.17	0
3/25/2019 21:45	6.606	170	15.86	6.39	29.17	0
3/25/2019 22:00	3.393	130.6	8.75	6.132	29.16	0
3/25/2019 22:15	4.093	133.8	5.414	6.119	29.16	0
3/25/2019 22:30	4.114	136.6	6.534	6.131	29.16	0
3/25/2019 22:45	3.84	130.3	7.896	6.184	29.16	0
3/25/2019 23:00	3.885	136.7	7.402	6.191	29.19	0
3/25/2019 23:15	5.65	149	8.77	6.133	29.19	0
3/25/2019 23:30	4.851	149.7	9.51	6.297	29.19	0
3/25/2019 23:45	4.426	152.4	9.01	6.267	29.19	0
3/26/2019 0:00	3.446	157.8	10.93	6.192	29.19	0
3/26/2019 0:15	5.138	154.4	10.2	6.297	29.19	0
3/26/2019 0:30	4.316	159	16.35	6.295	29.19	0
3/26/2019 0:45	5.237	177.5	11.24	6.443	29.19	0.02
3/26/2019 1:00	3.675	181.3	15.52	6.308	29.19	0.01
3/26/2019 1:15	6.339	191.7	25.42	6.24	29.19	0.04
3/26/2019 1:30	9.8	252.5	18.07	5.89	29.19	0.03
3/26/2019 1:45	8.23	236.2	7.398	5.568	29.19	0.02
3/26/2019 2:00	5.646	222.8	13.88	5.451	29.23	0.02
3/26/2019 2:15	5.89	197.1	11.94	5.4	29.23	0.02
3/26/2019 2:30	5.185	164.1	15.48	5.227	29.23	0
3/26/2019 2:45	5.568	140.7	7.215	5.028	29.23	0
3/26/2019 3:00	5.988	150.8	3.765	4.897	29.23	0
3/26/2019 3:15	4.832	139.4	8.11	4.865	29.23	0
3/26/2019 3:30	5.672	129.3	7.607	4.877	29.23	0.01
3/26/2019 3:45	7.156	146.7	8.91	5.048	29.23	0
3/26/2019 4:00	5.779	145.1	8.32	5.214	29.23	0
3/26/2019 4:15	4.674	141.7	8.1	5.191	29.23	0
3/26/2019 4:30	5.069	148	6.32	5.178	29.23	0
3/26/2019 4:45	6.017	147.7	8.98	5.335	29.23	0
3/26/2019 5:00	6.308	156.5	7.123	5.436	29.23	0
3/26/2019 5:15	6.214	158	5.684	5.37	29.23	0
3/26/2019 5:30	5.194	156.5	6.222	5.427	29.23	0
3/26/2019 5:45	3.919	137.4	24.54	5.226	29.23	0
3/26/2019 6:00	2.44	112.7	30.83	5.28	29.24	0
3/26/2019 6:15	6.205	155.2	5.613	5.329	29.24	0
3/26/2019 6:30	5.902	155.6	6.365	5.358	29.24	0
3/26/2019 6:45	5.215	152.2	6.497	5.284	29.24	0
3/26/2019 7:00	4.825	150.7	6.563	5.449	29.25	0
3/26/2019 7:15	3.816	139.6	9.34	6.257	29.25	0
3/26/2019 7:30	3.656	145.3	9.42	6.194	29.25	0
3/26/2019 7:45	3.482	134.7	18.27	6.298	29.25	0
3/26/2019 8:00	1.597	106.1	18.93	6.34	29.27	0
3/26/2019 8:15	2.978	133.8	11.87	6.536	29.27	0
3/26/2019 8:30	3.622	143.7	13.62	7.319	29.27	0
3/26/2019 8:45	4.562	135.4	11.67	7.398	29.27	0
3/26/2019 9:00	3.894	139.7	14.28	7.644	29.26	0
3/26/2019 9:15	4.267	145.5	14.19	7.907	29.26	0
3/26/2019 9:30	4.529	173.3	29.4	8.41	29.26	0
3/26/2019 9:45	5.142	169.1	21.56	8.52	29.26	0
3/26/2019 10:00	5.271	167.3	22.03	8.54	29.27	0
3/26/2019 10:15	5.131	162.8	12.2	9.08	29.27	0
3/26/2019 10:30	5.607	158.9	19.53	9.62	29.27	0
3/26/2019 10:45	8.08	195.5	17.15	9.86	29.27	0
3/26/2019 11:00	5.335	210	22.62	9.63	29.28	0
3/26/2019 11:15	4.338	237.4	27.98	10.16	29.28	0
3/26/2019 11:30	4.773	177.5	32.77	10.74	29.28	0
3/26/2019 11:45	4.475	190.6	18.7	10.61	29.28	0

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3/26/2019 12:00	2.873	157.7	51.78	10.97	29.27	0
3/26/2019 12:15	4.086	276.6	36.93	10.63	29.27	0
3/26/2019 12:30	3.334	257.9	70.05	10.77	29.27	0
3/26/2019 12:45	2.906	265.7	50.94	11.34	29.27	0
3/26/2019 13:00	3.456	285.9	27.93	11.43	29.26	0
3/26/2019 13:15	5.429	268.8	22.55	11.44	29.26	0
3/26/2019 13:30	4.071	278	32.88	11.48	29.26	0
3/26/2019 13:45	7.07	322	5.546	10.88	29.26	0
3/26/2019 14:00	6.329	294.7	11.48	11.09	29.22	0
3/26/2019 14:15	4.95	270.1	20.78	11.63	29.22	0
3/26/2019 14:30	2.675	264.1	49.22	12.51	29.22	0
3/26/2019 14:45	4.54	183.6	23.46	12.67	29.22	0
3/26/2019 15:00	3.484	150	32.81	12.53	29.22	0
3/26/2019 15:15	3.609	340.3	42.99	12.75	29.22	0
3/26/2019 15:30	1.279	28.64	29.92	13.05	29.22	0
3/26/2019 15:45	4.362	319.2	25.27	13.21	29.22	0
3/26/2019 16:00	5.579	340.3	31.72	12.86	29.19	0
3/26/2019 16:15	4.911	342.2	30.57	12.86	29.19	0
3/26/2019 16:30	6.808	349.2	33.15	12.8	29.19	0
3/26/2019 16:45	6.202	12.35	11.24	12.45	29.19	0
3/26/2019 17:00	6.199	3.263	15.64	12.46	29.2	0
3/26/2019 17:15	7.028	11.62	11.97	12.32	29.2	0
3/26/2019 17:30	8.58	3.116	14.36	12.05	29.2	0
3/26/2019 17:45	8.6	6.627	15.35	11.89	29.2	0
3/26/2019 18:00	7.337	359.4	14.99	11.68	29.18	0
3/26/2019 18:15	6.634	346.8	11.91	11.35	29.18	0
3/26/2019 18:30	4.451	334	11.47	10.91	29.18	0
3/26/2019 18:45	4.1	338.6	16.38	10.86	29.18	0
3/26/2019 19:00	3.271	349.3	20.52	10.5	29.17	0
3/26/2019 19:15	2.536	17.1	20.65	10.1	29.17	0
3/26/2019 19:30	3.221	25.31	17.67	9.6	29.17	0
3/26/2019 19:45	3.661	35.04	11.99	8.72	29.17	0
3/26/2019 20:00	3.458	12.76	18.46	8.84	29.17	0
3/26/2019 20:15	3.181	19.45	20.4	8.81	29.17	0
3/26/2019 20:30	6.384	21.47	12.86	8.86	29.17	0
3/26/2019 20:45	6.112	44.04	20.26	8.15	29.17	0
3/26/2019 21:00	6.324	68.32	18.14	8.67	29.19	0
3/26/2019 21:15	6.835	41.99	13.43	8.97	29.19	0
3/26/2019 21:30	6.986	41.5	6.377	8.06	29.19	0
3/26/2019 21:45	6.64	43.58	7.189	7.237	29.19	0
3/26/2019 22:00	5.857	41.02	10.5	6.937	29.16	0
3/26/2019 22:15	5.299	41.7	11.44	6.811	29.16	0
3/26/2019 22:30	7.157	58.81	14.9	6.291	29.16	0
3/26/2019 22:45	9.07	42.47	7.826	6.028	29.16	0
3/26/2019 23:00	8.06	52.53	8.39	5.882	29.16	0
3/26/2019 23:15	8.11	42.86	10.39	5.531	29.16	0
3/26/2019 23:30	7.821	36.04	7.538	5.035	29.16	0
3/26/2019 23:45	8.48	41.43	7.323	5.074	29.16	0
3/27/2019 0:00	7.954	36.68	7.39	4.903	29.16	0
3/27/2019 0:15	9.5	37.75	7.324	4.865	29.16	0
3/27/2019 0:30	10.35	37.81	7.706	4.482	29.16	0
3/27/2019 0:45	10.25	40.08	7.792	4.25	29.16	0
3/27/2019 1:00	10.07	33.23	8.9	4.299	29.14	0
3/27/2019 1:15	11.15	38.61	6.501	4.478	29.14	0
3/27/2019 1:30	9.33	40.23	8.78	4.045	29.14	0
3/27/2019 1:45	9.11	32.4	8.93	3.875	29.14	0
3/27/2019 2:00	7.862	36.86	9.98	3.507	29.12	0
3/27/2019 2:15	7.093	31.98	12.29	3.251	29.12	0
3/27/2019 2:30	6.305	26.72	9.83	3.076	29.12	0
3/27/2019 2:45	8.51	30.13	9.98	2.964	29.12	0
3/27/2019 3:00	9	33.95	10.53	2.675	29.09	0
3/27/2019 3:15	8.69	33.72	8.7	2.526	29.09	0
3/27/2019 3:30	8.76	36.42	9.7	2.5	29.09	0
3/27/2019 3:45	8.13	30.62	8.75	2.557	29.09	0
3/27/2019 4:00	7.736	28.18	9.93	2.687	29.09	0
3/27/2019 4:15	7.008	25.91	10.71	2.745	29.09	0



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3/27/2019 4:30	8.12	28.47	8.32	2.808	29.09	0
3/27/2019 4:45	9.03	28.22	9.29	2.822	29.09	0
3/27/2019 5:00	10.22	26.37	8.52	2.992	29.08	0
3/27/2019 5:15	11.05	28.59	7.31	3.043	29.08	0
3/27/2019 5:30	13.58	27.1	7.128	2.968	29.08	0
3/27/2019 5:45	12.68	26.6	9.63	2.932	29.08	0
3/27/2019 6:00	12.35	27.4	8.78	2.742	29.05	0
3/27/2019 6:15	13.15	23.62	9.78	2.735	29.05	0
3/27/2019 6:30	13.19	21.76	8.88	2.714	29.05	0
3/27/2019 6:45	14.1	27.13	8.61	2.834	29.05	0
3/27/2019 7:00	14.12	27.78	9.44	2.857	29.07	0
3/27/2019 7:15	15.08	28.03	10.21	2.951	29.07	0
3/27/2019 7:30	14.13	14.74	12.35	3.758	29.07	0
3/27/2019 7:45	14.25	15.12	8.84	4.439	29.07	0
3/27/2019 8:00	11.56	17.27	12.18	4.958	29.07	0
3/27/2019 8:15	13.48	15.4	9.37	5.306	29.07	0
3/27/2019 8:30	12.06	14.38	9.77	5.805	29.07	0
3/27/2019 8:45	11.49	21.16	10.86	6.282	29.07	0
3/27/2019 9:00	11.97	18.56	8.28	6.619	29.02	0
3/27/2019 9:15	11.4	21.31	9.21	6.69	29.02	0
3/27/2019 9:30	10.73	18.79	8.47	7.108	29.02	0
3/27/2019 9:45	10.24	14.62	11.69	7.861	29.02	0
3/27/2019 10:00	13.05	11.36	9.69	8.43	29.03	0
3/27/2019 10:15	11.21	10.08	11.06	9.16	29.03	0
3/27/2019 10:30	9.36	13.43	13.31	9.91	29.03	0
3/27/2019 10:45	10.77	13.87	13.88	10.36	29.03	0
3/27/2019 11:00	9.73	15.98	11.57	10.2	29.01	0
3/27/2019 11:15	11.02	14.25	10.39	10.23	29.01	0
3/27/2019 11:30	11.52	10.08	12.19	11.1	29.01	0
3/27/2019 11:45	14.13	14.97	10.23	11.7	29.01	0
3/27/2019 12:00	13.67	15.77	12.05	12.11	28.99	0
3/27/2019 12:15	10.26	29.38	14.05	12.7	28.99	0
3/27/2019 12:30	9.72	19.68	17.21	13.22	28.99	0
3/27/2019 12:45	9.3	27.43	18.03	13.45	28.99	0
3/27/2019 13:00	11.93	82.1	34.96	14.44	29	0
3/27/2019 13:15	15.53	124.1	14.85	15.25	29	0
3/27/2019 13:30	15.78	127.2	13.21	15.06	29	0
3/27/2019 13:45	18.83	121.9	15.16	15.07	29	0
3/27/2019 14:00	18.91	112.3	14.72	15.35	28.98	0
3/27/2019 14:15	15.5	117.8	16.01	15.36	28.98	0
3/27/2019 14:30	17.26	114.1	13.76	15.24	28.98	0
3/27/2019 14:45	14.2	117.9	18.52	14.98	28.98	0
3/27/2019 15:00	20.37	121	14.08	14.66	29.02	0
3/27/2019 15:15	16.26	122.1	16.76	14.41	29.02	0
3/27/2019 15:30	12.88	120.7	15.97	14.34	29.02	0
3/27/2019 15:45	18.35	129.9	13.05	14.31	29.02	0
3/27/2019 16:00	17.33	129.2	12.09	14.02	29.03	0
3/27/2019 16:15	13.93	135	13.57	13.72	29.03	0
3/27/2019 16:30	16.75	116.4	13.92	13.45	29.03	0
3/27/2019 16:45	12.91	118.8	13.41	13.33	29.03	0
3/27/2019 17:00	14.11	113.7	15.11	13.23	29.07	0
3/27/2019 17:15	12.17	102	16.56	12.71	29.07	0
3/27/2019 17:30	8.66	115.4	17.09	12.52	29.07	0
3/27/2019 17:45	9.13	139	16.28	12.4	29.07	0
3/27/2019 18:00	5.32	130.1	14.08	12.24	29.11	0
3/27/2019 18:15	4.582	162.1	22.69	12.16	29.11	0
3/27/2019 18:30	6.082	134.9	29.88	11.98	29.11	0
3/27/2019 18:45	3.656	168.4	55.46	12.03	29.11	0
3/27/2019 19:00	13.72	156.3	22.73	11.9	29.1	0
3/27/2019 19:15	9.78	143.3	16.5	12.03	29.1	0
3/27/2019 19:30	8.17	129.3	13.39	11.85	29.1	0
3/27/2019 19:45	5.96	148.2	42.1	11.78	29.1	0
3/27/2019 20:00	7.473	204.1	21.81	11.3	29.14	0
3/27/2019 20:15	3.516	242	42.86	11.01	29.14	0
3/27/2019 20:30	3.215	131.3	44.57	11.42	29.14	0
3/27/2019 20:45	2.118	177.7	39.28	11.26	29.14	0

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3/27/2019 21:00	3.832	199.7	56.32	11.21	29.14	0
3/27/2019 21:15	3.162	165.9	33.31	11.54	29.14	0
3/27/2019 21:30	5.14	193.9	16.73	11.24	29.14	0
3/27/2019 21:45	9.87	180.2	13.37	10.92	29.14	0
3/27/2019 22:00	8.19	199	13.45	11.04	29.16	0
3/27/2019 22:15	9.59	206.9	12.02	10.36	29.16	0
3/27/2019 22:30	6.631	215.7	9.01	9.69	29.16	0
3/27/2019 22:45	4.238	191.6	6.925	9.31	29.16	0
3/27/2019 23:00	5.457	178.3	10.85	9.16	29.19	0
3/27/2019 23:15	7.727	186.6	7.882	8.83	29.19	0
3/27/2019 23:30	5.828	168.6	7.882	8.39	29.19	0
3/27/2019 23:45	6.974	159.7	5.295	8.23	29.19	0
3/28/2019 0:00	7.319	157	5.583	8.17	29.2	0
3/28/2019 0:15	5.447	153.7	5.431	8.02	29.2	0
3/28/2019 0:30	5.184	153.2	5.39	7.883	29.2	0
3/28/2019 0:45	5.284	153.3	5.019	7.759	29.2	0
3/28/2019 1:00	4.644	143.3	11.26	7.682	29.22	0
3/28/2019 1:15	3.27	123.9	7.514	7.65	29.22	0
3/28/2019 1:30	3.636	147.1	12.04	7.709	29.22	0
3/28/2019 1:45	4.127	141.5	25.39	7.528	29.22	0
3/28/2019 2:00	3.876	98.3	9.87	7.589	29.23	0
3/28/2019 2:15	3.017	103.6	8.38	7.633	29.23	0
3/28/2019 2:30	2.76	79.04	5.073	7.966	29.23	0
3/28/2019 2:45	3.722	60.23	11.37	7.092	29.23	0
3/28/2019 3:00	4.468	46.61	6.739	6.956	29.23	0
3/28/2019 3:15	4.04	39.38	5.271	6.942	29.23	0
3/28/2019 3:30	4.412	28.76	5.399	6.982	29.23	0
3/28/2019 3:45	4.022	15.84	10.39	6.659	29.23	0
3/28/2019 4:00	3.126	29.72	14.04	6.529	29.22	0
3/28/2019 4:15	4.45	28.98	6.71	6.221	29.22	0
3/28/2019 4:30	4.122	15.01	10.65	6.335	29.22	0
3/28/2019 4:45	4.397	30.16	8.03	6.244	29.22	0
3/28/2019 5:00	4.792	31.01	9.38	6.105	29.25	0
3/28/2019 5:15	5.291	37.84	6.169	6.198	29.25	0
3/28/2019 5:30	4.268	43.94	7.007	6.387	29.25	0
3/28/2019 5:45	3.383	49.02	8.01	6.377	29.25	0
3/28/2019 6:00	2.494	49.05	5.438	6.48	29.26	0
3/28/2019 6:15	2.22	37.24	13.13	6.564	29.26	0
3/28/2019 6:30	0.362	24.58	0.022	6.542	29.26	0
3/28/2019 6:45	0.868	80.3	75.76	7.271	29.26	0
3/28/2019 7:00	0.934	20.37	5.008	6.721	29.25	0
3/28/2019 7:15	0.823	115.3	57.82	7.672	29.25	0
3/28/2019 7:30	0.757	70.78	52.25	7.91	29.25	0
3/28/2019 7:45	0.965	6.787	15.39	7.532	29.25	0
3/28/2019 8:00	2.515	227.4	17.42	7.871	29.29	0
3/28/2019 8:15	1.582	256.2	34.29	8.57	29.29	0
3/28/2019 8:30	1.111	328.7	23.68	9.27	29.29	0
3/28/2019 8:45	2.061	235.1	22.53	9.1	29.29	0
3/28/2019 9:00	0.746	266.9	52.11	9.91	29.29	0
3/28/2019 9:15	1.231	322	37.93	10.13	29.29	0
3/28/2019 9:30	2.467	324.2	23.09	10.63	29.29	0
3/28/2019 9:45	1.771	340.4	22.76	11.31	29.29	0
3/28/2019 10:00	2.15	293.4	42.43	11.96	29.3	0
3/28/2019 10:15	2.618	309.4	42.06	12.57	29.3	0
3/28/2019 10:30	5.264	299.3	23.42	12.66	29.3	0
3/28/2019 10:45	5.249	264.1	19.44	12.86	29.3	0
3/28/2019 11:00	6.364	282.2	21.62	13.43	29.28	0
3/28/2019 11:15	6.595	281.1	14.17	13.47	29.28	0
3/28/2019 11:30	4.53	324.1	37.33	14.16	29.28	0
3/28/2019 11:45	5.59	320.6	37.9	14.4	29.28	0
3/28/2019 12:00	4.303	317.6	27.54	14.63	29.29	0
3/28/2019 12:15	4.901	311.8	27.24	14.91	29.29	0
3/28/2019 12:30	5.865	331.4	33.32	15	29.29	0
3/28/2019 12:45	6.119	320.2	16.2	15.23	29.29	0
3/28/2019 13:00	6.358	347.4	31.75	15.41	29.26	0
3/28/2019 13:15	6.455	345.9	40.97	15.36	29.26	0

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3/28/2019 13:30	6.914	328.3	26.2	15.51	29.26	0
3/28/2019 13:45	10.05	300.7	12.47	15.48	29.26	0
3/28/2019 14:00	10.07	299	12.02	15.71	29.27	0
3/28/2019 14:15	9.34	314.2	11.81	15.8	29.27	0
3/28/2019 14:30	7.451	305.1	15.41	15.92	29.27	0
3/28/2019 14:45	6.071	330.1	27.41	16.09	29.27	0
3/28/2019 15:00	7.141	294.2	21.12	16.46	29.28	0
3/28/2019 15:15	7.445	286.9	17.45	16.11	29.28	0
3/28/2019 15:30	5.75	310.8	30.99	16.16	29.28	0
3/28/2019 15:45	3.361	273.9	47.93	16.42	29.28	0
3/28/2019 16:00	8.03	130.6	66.37	15.23	29.27	0
3/28/2019 16:15	9.62	137.2	13.12	14.14	29.27	0
3/28/2019 16:30	8.06	139.9	10.14	14.14	29.27	0
3/28/2019 16:45	5.111	128.6	14.27	14.32	29.27	0
3/28/2019 17:00	5.582	124	16.83	14.38	29.27	0
3/28/2019 17:15	6.57	121.4	14	14.2	29.27	0
3/28/2019 17:30	5.719	132.9	8.88	14.29	29.27	0
3/28/2019 17:45	4.73	121.3	14.38	14.13	29.27	0
3/28/2019 18:00	4.835	48.3	40.99	13.77	29.29	0
3/28/2019 18:15	4.62	36.72	16.89	13.41	29.29	0
3/28/2019 18:30	9.15	35.56	12.89	13.02	29.29	0
3/28/2019 18:45	7.35	36.55	8.96	12.53	29.29	0
3/28/2019 19:00	3.987	101.6	24.15	12.28	29.3	0
3/28/2019 19:15	4.012	134.2	27.7	12.18	29.3	0
3/28/2019 19:30	3.682	143.9	18.63	11.66	29.3	0
3/28/2019 19:45	1.751	139.6	10.2	11.01	29.3	0
3/28/2019 20:00	1.767	75.68	40.15	10.95	29.3	0
3/28/2019 20:15	0.933	127.9	33.08	10.71	29.3	0
3/28/2019 20:30	2.52	135.7	13.75	11.09	29.3	0
3/28/2019 20:45	0.664	114.6	0.541	10.56	29.3	0
3/28/2019 21:00	0.45	10.74	21.18	10.19	29.32	0
3/28/2019 21:15	0.9	124.6	26.35	10.11	29.32	0
3/28/2019 21:30	2.986	187.5	14.75	10.02	29.32	0
3/28/2019 21:45	0.945	82.5	58.76	9.4	29.32	0
3/28/2019 22:00	1.143	210.3	81.6	9.5	29.33	0
3/28/2019 22:15	0.831	190.2	45.3	9.37	29.33	0
3/28/2019 22:30	5.731	217.4	5.782	8.84	29.33	0
3/28/2019 22:45	7.614	200.1	8.93	8.48	29.33	0
3/28/2019 23:00	6.835	167.2	12.08	8.32	29.37	0
3/28/2019 23:15	5.623	159	9.85	8.29	29.37	0
3/28/2019 23:30	4.932	131.6	9.78	8.14	29.37	0
3/28/2019 23:45	4.724	105.9	7.597	7.716	29.37	0
3/29/2019 0:00	6.123	120.3	7.334	7.945	29.38	0
3/29/2019 0:15	6.283	142.3	12.58	8.11	29.38	0
3/29/2019 0:30	6.413	141.3	4.472	8.31	29.38	0
3/29/2019 0:45	6.056	143	5.851	8.27	29.38	0
3/29/2019 1:00	7.457	136.4	6.126	8.34	29.39	0
3/29/2019 1:15	7.959	140.9	6.573	8.19	29.39	0
3/29/2019 1:30	6.328	133.2	7.219	8.14	29.39	0
3/29/2019 1:45	6.06	135.7	6.325	7.945	29.39	0
3/29/2019 2:00	5.976	136.8	7.132	7.799	29.42	0
3/29/2019 2:15	5.564	135.2	6.49	7.695	29.42	0
3/29/2019 2:30	3.806	143.3	12.4	7.23	29.42	0
3/29/2019 2:45	4.693	124.6	4.704	7.57	29.42	0
3/29/2019 3:00	4.96	128.8	5.529	7.661	29.41	0
3/29/2019 3:15	4.473	128	5.39	7.445	29.41	0
3/29/2019 3:30	4.509	125.6	5.823	7.519	29.41	0
3/29/2019 3:45	3.84	133.5	5.332	7.138	29.41	0
3/29/2019 4:00	2.456	124.8	16.38	7.049	29.42	0
3/29/2019 4:15	2.411	106.6	6.144	6.813	29.42	0
3/29/2019 4:30	2.704	107.6	3.966	7.048	29.42	0
3/29/2019 4:45	1.378	82.3	10.98	6.784	29.42	0
3/29/2019 5:00	2.273	128	24.83	7.083	29.44	0
3/29/2019 5:15	1.597	128.5	15.77	7.208	29.44	0
3/29/2019 5:30	2.956	149.9	7.724	7.14	29.44	0
3/29/2019 5:45	2.625	142.6	18.63	7.184	29.44	0

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3/29/2019 6:00	2.682	103.7	14.39	6.395	29.46	0
3/29/2019 6:15	2.617	135.4	28.25	6.813	29.46	0
3/29/2019 6:30	2.565	143	9.94	6.932	29.46	0
3/29/2019 6:45	2.998	155.1	12.76	6.606	29.46	0
3/29/2019 7:00	3.076	180	7.643	6.502	29.48	0
3/29/2019 7:15	3.478	183.3	7.777	6.608	29.48	0
3/29/2019 7:30	2.496	176.9	9.39	6.618	29.48	0
3/29/2019 7:45	1.956	163.4	13.58	6.84	29.48	0
3/29/2019 8:00	1.677	150.9	5.402	7.304	29.46	0
3/29/2019 8:15	1.015	153.3	8.74	7.687	29.46	0
3/29/2019 8:30	0.757	116.9	0.794	8.08	29.46	0
3/29/2019 8:45	1.115	130.3	12.9	8.36	29.46	0
3/29/2019 9:00	1.745	168.1	19.14	8.51	29.49	0
3/29/2019 9:15	0.92	175	26.71	9.08	29.49	0
3/29/2019 9:30	1.859	213.6	24.1	9.39	29.49	0
3/29/2019 9:45	1.638	249.7	41.95	9.91	29.49	0
3/29/2019 10:00	1.064	234.9	24.38	10.45	29.5	0
3/29/2019 10:15	1.292	124.6	62.54	10.72	29.5	0
3/29/2019 10:30	1.695	236.7	32.84	11.22	29.5	0
3/29/2019 10:45	2.155	276.9	27.12	11.49	29.5	0
3/29/2019 11:00	2.871	268.3	29.71	11.53	29.51	0
3/29/2019 11:15	2.769	217.1	32.97	11.95	29.51	0
3/29/2019 11:30	2.288	278.4	46.87	12.45	29.51	0
3/29/2019 11:45	4.488	291.6	37.49	12.52	29.51	0
3/29/2019 12:00	2.501	282.1	64.5	13.07	29.5	0
3/29/2019 12:15	5.792	271.2	28.5	12.95	29.5	0
3/29/2019 12:30	3.287	257.9	29.45	13.2	29.5	0
3/29/2019 12:45	3.364	263.9	39.42	13.35	29.5	0
3/29/2019 13:00	4.376	256.3	28.67	13.49	29.52	0
3/29/2019 13:15	7.13	275.8	16.63	13.52	29.52	0
3/29/2019 13:30	6.152	286.3	36.46	13.59	29.52	0
3/29/2019 13:45	4.154	333.5	52.91	13.7	29.52	0
3/29/2019 14:00	7.404	37.98	11.17	13.21	29.49	0
3/29/2019 14:15	7.487	34.89	13.36	13.46	29.49	0
3/29/2019 14:30	6.851	33.73	10.42	13.52	29.49	0
3/29/2019 14:45	5.769	34.48	14.55	13.72	29.49	0
3/29/2019 15:00	3.575	31.96	22.78	13.9	29.52	0
3/29/2019 15:15	2.26	43.74	14.3	14.44	29.52	0
3/29/2019 15:30	1.189	13.8	37.25	14.73	29.52	0
3/29/2019 15:45	1.412	304.7	31.82	14.94	29.52	0
3/29/2019 16:00	2.142	135.6	42.02	15.1	29.52	0
3/29/2019 16:15	4.634	120.9	20.45	14.6	29.52	0
3/29/2019 16:30	11.63	135.8	9.05	12.76	29.52	0
3/29/2019 16:45	7.603	141	11.96	12.22	29.52	0
3/29/2019 17:00	6.761	163.6	12.25	12.4	29.51	0
3/29/2019 17:15	7.237	155.8	12.19	12.29	29.51	0
3/29/2019 17:30	5.903	166.6	9.93	12.02	29.51	0
3/29/2019 17:45	6.452	170.5	11.09	12.08	29.51	0
3/29/2019 18:00	3.271	6.688	68.59	11.95	29.52	0
3/29/2019 18:15	1.069	9.65	16.52	11.68	29.52	0
3/29/2019 18:30	1.847	123.5	68.01	11.48	29.52	0
3/29/2019 18:45	1.748	124.6	12.56	11.47	29.52	0
3/29/2019 19:00	1.219	120.6	34.09	11.21	29.54	0
3/29/2019 19:15	3.894	199.2	8.12	10.85	29.54	0
3/29/2019 19:30	3.287	186.1	15.56	10.59	29.54	0
3/29/2019 19:45	3.826	151	8.01	10.5	29.54	0
3/29/2019 20:00	4.036	151.2	7.5	10.39	29.56	0
3/29/2019 20:15	4.749	167.4	9.54	10.07	29.56	0
3/29/2019 20:30	4.103	161.8	6.496	9.9	29.56	0
3/29/2019 20:45	4.13	154	8.28	9.75	29.56	0
3/29/2019 21:00	4.131	173	9.98	9.52	29.57	0
3/29/2019 21:15	5.137	196.7	8.26	9.23	29.57	0
3/29/2019 21:30	4.583	184.8	8.79	8.97	29.57	0
3/29/2019 21:45	4.711	175.4	10.22	8.8	29.57	0
3/29/2019 22:00	4.488	184.1	11.01	8.59	29.58	0
3/29/2019 22:15	5.316	180.7	10.8	8.39	29.58	0

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3/29/2019 22:30	5.732	173.6	8.53	8.3	29.58	0
3/29/2019 22:45	6.033	167.6	9.32	8.27	29.58	0
3/29/2019 23:00	5.316	148	7.108	8.37	29.56	0
3/29/2019 23:15	1.776	176.6	22.39	8.06	29.56	0
3/29/2019 23:30	2.109	148.6	21.91	8.17	29.56	0
3/29/2019 23:45	4.682	166.5	8.09	7.994	29.56	0
3/30/2019 0:00	4.44	148.5	15.34	7.818	29.58	0
3/30/2019 0:15	3.843	130.4	13.63	7.493	29.58	0
3/30/2019 0:30	4.87	162.3	9.64	7.536	29.58	0
3/30/2019 0:45	4.254	149.3	11.35	7.452	29.58	0
3/30/2019 1:00	3.627	146	6.242	7.374	29.56	0
3/30/2019 1:15	2.721	158.5	20.33	7.076	29.56	0
3/30/2019 1:30	4.204	160.2	7.839	7.506	29.56	0
3/30/2019 1:45	3.935	148.8	8.4	7.231	29.56	0
3/30/2019 2:00	3.425	145	8.22	7.042	29.58	0
3/30/2019 2:15	3.528	162.9	19.85	7.071	29.58	0
3/30/2019 2:30	4.658	180.9	7.704	7.085	29.58	0
3/30/2019 2:45	5.213	194.1	10.79	6.221	29.58	0
3/30/2019 3:00	4.401	165.7	11.34	6.46	29.6	0
3/30/2019 3:15	3.528	137.8	6.017	6.359	29.6	0
3/30/2019 3:30	3.858	150.6	9.33	6.466	29.6	0
3/30/2019 3:45	4.631	170.2	5.814	6.532	29.6	0
3/30/2019 4:00	3.156	155.1	11.98	6.702	29.59	0
3/30/2019 4:15	2.669	119.7	8.62	6.538	29.59	0
3/30/2019 4:30	3.082	132.4	17.24	6.481	29.59	0
3/30/2019 4:45	3.347	156.4	5.903	6.861	29.59	0
3/30/2019 5:00	2.787	151.4	14.3	6.958	29.59	0
3/30/2019 5:15	2.691	125.3	6.491	6.617	29.59	0
3/30/2019 5:30	3.201	128.3	7.231	6.716	29.59	0
3/30/2019 5:45	3.124	144.3	7.735	6.427	29.59	0
3/30/2019 6:00	3.343	151.8	13.15	6.378	29.58	0
3/30/2019 6:15	3.448	163.5	13.07	6.324	29.58	0
3/30/2019 6:30	3.163	169.8	13	6.365	29.58	0
3/30/2019 6:45	3.089	165	9.3	6.538	29.58	0
3/30/2019 7:00	1.37	127.2	16.39	7.236	29.58	0
3/30/2019 7:15	1.631	183.9	28	6.952	29.58	0
3/30/2019 7:30	1.103	43.13	26.89	7.339	29.58	0
3/30/2019 7:45	0.593	44.47	12.96	8.13	29.58	0
3/30/2019 8:00	1.654	129.2	21.22	8.68	29.58	0
3/30/2019 8:15	1.949	93	23.68	8.99	29.58	0
3/30/2019 8:30	1.652	107.3	20.87	9.64	29.58	0
3/30/2019 8:45	1.707	151.9	31.28	10.23	29.58	0
3/30/2019 9:00	0.793	119.5	53.28	11.27	29.57	0
3/30/2019 9:15	1.773	264	26.3	11.04	29.57	0
3/30/2019 9:30	1.484	276.8	45.83	11.28	29.57	0
3/30/2019 9:45	3.2	293.9	24.99	11.55	29.57	0
3/30/2019 10:00	1.798	338.5	21.05	12.26	29.57	0
3/30/2019 10:15	3.101	289.6	23.73	12.78	29.57	0
3/30/2019 10:30	1.638	312.4	41.21	13.29	29.57	0
3/30/2019 10:45	4.034	305.4	19.96	13.33	29.57	0
3/30/2019 11:00	3.744	308	29.22	13.65	29.57	0
3/30/2019 11:15	6.513	279.5	19.63	13.97	29.57	0
3/30/2019 11:30	6.491	311.8	40.87	14.22	29.57	0
3/30/2019 11:45	5.942	319.2	21.15	14.79	29.57	0
3/30/2019 12:00	7.239	295.3	16.98	14.94	29.54	0
3/30/2019 12:15	8.03	286.9	14.8	15.08	29.54	0
3/30/2019 12:30	7.162	297.6	18.99	15.47	29.54	0
3/30/2019 12:45	8.66	329	12.42	15.67	29.54	0
3/30/2019 13:00	9	323.4	10.21	15.86	29.53	0
3/30/2019 13:15	8.78	327.8	12.47	15.92	29.53	0
3/30/2019 13:30	7.621	336.9	20.51	16.09	29.53	0
3/30/2019 13:45	6.772	332.1	24.9	16.37	29.53	0
3/30/2019 14:00	6.387	332.8	22.09	16.55	29.49	0
3/30/2019 14:15	7.041	2.736	31.85	16.47	29.49	0
3/30/2019 14:30	4.412	337.8	29.05	16.97	29.49	0
3/30/2019 14:45	7.423	336.9	28.49	17.09	29.49	0

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3/30/2019 15:00	7.748	308.7	16.6	17.21	29.48	0
3/30/2019 15:15	8.97	289.7	12.87	16.98	29.48	0
3/30/2019 15:30	9.5	287.3	14.25	17.2	29.48	0
3/30/2019 15:45	8.31	289.5	11.01	17.23	29.48	0
3/30/2019 16:00	9.25	293.9	8.42	17.21	29.48	0
3/30/2019 16:15	7.105	308.1	10.73	17.31	29.48	0
3/30/2019 16:30	6.685	304.5	13.03	17.24	29.48	0
3/30/2019 16:45	6.209	328.9	26.08	17.21	29.48	0
3/30/2019 17:00	8.32	318.9	11.96	16.91	29.45	0
3/30/2019 17:15	8.42	309.6	7.257	16.88	29.45	0
3/30/2019 17:30	7.134	333.3	17.89	16.54	29.45	0
3/30/2019 17:45	5.22	342.8	14.74	16.29	29.45	0
3/30/2019 18:00	5.546	336.4	14.18	15.91	29.46	0
3/30/2019 18:15	5.536	335.8	9.88	15.48	29.46	0
3/30/2019 18:30	6.233	329.3	10.78	14.98	29.46	0
3/30/2019 18:45	3.859	321.8	14.16	14.51	29.46	0
3/30/2019 19:00	2.499	336.2	39.8	14.34	29.46	0
3/30/2019 19:15	3.37	62.65	16.24	14.18	29.46	0
3/30/2019 19:30	7.161	124.9	24.46	13.82	29.46	0
3/30/2019 19:45	8.01	132.4	10.62	13.34	29.46	0
3/30/2019 20:00	6.764	140.6	10.65	12.94	29.48	0
3/30/2019 20:15	6.632	134.9	7.546	13.06	29.48	0
3/30/2019 20:30	4.256	103.7	36.98	12.73	29.48	0
3/30/2019 20:45	1.861	42.54	9.01	11.96	29.48	0
3/30/2019 21:00	3.619	17.31	7.822	11.63	29.48	0
3/30/2019 21:15	4.532	21.43	7.661	11.52	29.48	0
3/30/2019 21:30	3.77	27.43	18.74	11.39	29.48	0
3/30/2019 21:45	1.371	88.2	31.31	10.59	29.48	0
3/30/2019 22:00	3.837	52.58	10.32	10.12	29.48	0
3/30/2019 22:15	6.121	49.19	8.31	10.22	29.48	0
3/30/2019 22:30	3.868	42.08	7.783	10.04	29.48	0
3/30/2019 22:45	3.427	57.75	7.274	10.15	29.48	0
3/30/2019 23:00	2.629	77.85	6.508	9.9	29.48	0
3/30/2019 23:15	2.833	64.34	8.8	10.51	29.48	0
3/30/2019 23:30	2.638	65.6	4.175	10.24	29.48	0
3/30/2019 23:45	3.113	54.47	16.07	9.76	29.48	0
3/31/2019 0:00	1.649	21.94	6.445	9.6	29.46	0
3/31/2019 0:15	2.029	54.59	8.53	9.11	29.46	0
3/31/2019 0:30	1.662	88	9.58	8.83	29.46	0
3/31/2019 0:45	2.761	95.2	3.367	9.39	29.46	0
3/31/2019 1:00	2.835	46.64	26.82	8.99	29.46	0
3/31/2019 1:15	3.955	10.37	4.331	9.09	29.46	0
3/31/2019 1:30	2.364	20.43	6.09	9.12	29.46	0
3/31/2019 1:45	2.478	48.47	8.91	8.8	29.46	0
3/31/2019 2:00	3.053	76.46	14.74	8.5	29.45	0
3/31/2019 2:15	2.931	112.5	11.09	8.4	29.45	0
3/31/2019 2:30	1.849	95.9	3.456	9.36	29.45	0
3/31/2019 2:45	0.997	171.6	60.87	9.49	29.45	0
3/31/2019 3:00	3.278	208.9	26.37	8.55	29.45	0
3/31/2019 3:15	1.789	162.7	7.029	8.15	29.45	0
3/31/2019 3:30	0.303	142.8	15.34	7.862	29.45	0
3/31/2019 3:45	0.787	44.68	22.53	7.557	29.45	0
3/31/2019 4:00	0.136	15.32	0.048	7.581	29.45	0
3/31/2019 4:15	0.027	39.08	0	7.254	29.45	0
3/31/2019 4:30	1.179	143.8	58.88	7.291	29.45	0
3/31/2019 4:45	1.443	140.9	13.33	7.385	29.45	0
3/31/2019 5:00	1.278	122.4	0.585	7.03	29.45	0
3/31/2019 5:15	0.777	93.6	11.96	7.352	29.45	0
3/31/2019 5:30	1.972	18.28	29.47	7.954	29.45	0
3/31/2019 5:45	1.472	282.5	57.87	7.618	29.45	0
3/31/2019 6:00	2.005	182.7	23.58	6.679	29.44	0
3/31/2019 6:15	0.021	138.1	0.005	6.343	29.44	0
3/31/2019 6:30	0.931	57.82	36.06	6.859	29.44	0
3/31/2019 6:45	0.188	22.91	0.057	7.693	29.44	0
3/31/2019 7:00	1.554	157.5	57.87	7.472	29.45	0
3/31/2019 7:15	1.51	112.6	18.57	8.06	29.45	0

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3/31/2019 7:30	1.129	74.5	7.973	8.75	29.45	0
3/31/2019 7:45	1.931	95	10.2	8.97	29.45	0
3/31/2019 8:00	3.238	102.2	16.06	9.44	29.45	0
3/31/2019 8:15	3.505	96.2	13.27	9.63	29.45	0
3/31/2019 8:30	2.369	110.3	24.55	10.27	29.45	0
3/31/2019 8:45	1.927	184.5	51.42	10.85	29.45	0
3/31/2019 9:00	1.702	227.3	48.07	11.12	29.41	0
3/31/2019 9:15	1.468	354.1	22.49	11.75	29.41	0
3/31/2019 9:30	2.32	343	25.85	11.92	29.41	0
3/31/2019 9:45	2.425	351.7	44.11	12.42	29.41	0
3/31/2019 10:00	1.505	350	27.76	12.95	29.41	0
3/31/2019 10:15	3.436	331.8	20.84	13.55	29.41	0
3/31/2019 10:30	4.042	18.24	24.83	13.84	29.41	0
3/31/2019 10:45	4.019	7.757	21.49	13.89	29.41	0
3/31/2019 11:00	3.463	12.99	18.33	14.55	29.39	0
3/31/2019 11:15	4.621	319.6	39.44	15.32	29.39	0
3/31/2019 11:30	6.115	295	26.29	15.83	29.39	0
3/31/2019 11:45	6.755	272	13.68	15.67	29.39	0
3/31/2019 12:00	5.83	273.9	19.23	16.15	29.37	0
3/31/2019 12:15	4.913	326.6	40.3	16.6	29.37	0
3/31/2019 12:30	5.741	317.9	29.08	17.03	29.37	0
3/31/2019 12:45	7.435	307.4	18.88	17.15	29.37	0
3/31/2019 13:00	7.695	311.6	28.16	17.4	29.36	0
3/31/2019 13:15	6.736	323.6	33.7	17.47	29.36	0
3/31/2019 13:30	7.262	5.376	26.54	17.44	29.36	0
3/31/2019 13:45	7.009	4.572	24.74	17.58	29.36	0
3/31/2019 14:00	6.749	355.9	27.52	17.74	29.34	0
3/31/2019 14:15	7.645	359.9	25.47	17.7	29.34	0
3/31/2019 14:30	8.18	334.2	29.61	17.99	29.34	0
3/31/2019 14:45	7.126	327.1	23.26	18.01	29.34	0
3/31/2019 15:00	8.67	330.1	12.35	17.88	29.33	0
3/31/2019 15:15	7.972	316.4	19.85	18.1	29.33	0
3/31/2019 15:30	6.936	322.3	26.94	18.26	29.33	0
3/31/2019 15:45	7.302	348	23.55	18.04	29.33	0
3/31/2019 16:00	8.06	20.4	17.42	17.71	29.31	0
3/31/2019 16:15	7.356	8.99	15.86	17.72	29.31	0
3/31/2019 16:30	7.223	17.36	12.61	17.51	29.31	0
3/31/2019 16:45	7.877	12.05	11.64	17.24	29.31	0
3/31/2019 17:00	7.429	350	19.66	17.41	29.31	0
3/31/2019 17:15	7.337	343.1	14.5	17.42	29.31	0
3/31/2019 17:30	6.41	352.8	21.57	17.17	29.31	0
3/31/2019 17:45	7.942	328.7	12.28	16.75	29.31	0
3/31/2019 18:00	9.52	338.6	10.78	16.34	29.29	0
3/31/2019 18:15	10.2	336	10.84	16.06	29.29	0
3/31/2019 18:30	7.985	338.1	13.53	15.43	29.29	0
3/31/2019 18:45	6.712	342.1	13.21	14.97	29.29	0
3/31/2019 19:00	2.033	16.51	30.69	14.45	29.29	0
3/31/2019 19:15	0.931	33.33	22.11	14.04	29.29	0
3/31/2019 19:30	3.902	348.1	15.69	14.08	29.29	0
3/31/2019 19:45	4.617	0.494	17.2	13.6	29.29	0
3/31/2019 20:00	5.767	12.32	12.48	13.37	29.31	0
3/31/2019 20:15	4.195	20.58	15.82	13.36	29.31	0
3/31/2019 20:30	4.567	17.58	12.53	12.98	29.31	0
3/31/2019 20:45	4.475	39.33	12.66	12.14	29.31	0
3/31/2019 21:00	6.216	43.05	9.49	11.8	29.29	0
3/31/2019 21:15	7.123	46.45	12.49	12.34	29.29	0
3/31/2019 21:30	9.03	35.9	10.99	12.6	29.29	0
3/31/2019 21:45	8.34	26.91	6.721	12.11	29.29	0
3/31/2019 22:00	5.101	42.4	10.01	11.87	29.3	0
3/31/2019 22:15	3.989	59.96	8.66	11.59	29.3	0
3/31/2019 22:30	5.08	44.83	6.576	11.47	29.3	0
3/31/2019 22:45	5.17	37.48	6.603	11.11	29.3	0
3/31/2019 23:00	1.476	60.04	46.48	10.68	29.29	0
3/31/2019 23:15	2.55	37.32	34.83	10.49	29.29	0
3/31/2019 23:30	3.373	50.93	13.57	9.96	29.29	0
3/31/2019 23:45	3.726	43.36	8.25	9.58	29.29	0

# **APPENDIX D**

## **Area 5 Top Deck Report**



# KING COUNTY SOLID WASTE DIVISION CEDAR HILLS REGIONAL LANDFILL AREA 5 TOP DECK MONITORING REPORT

First Quarter 2019



Department of Natural Resources and Parks  
Solid Waste Division

May 2019  
Printed on recycled paper

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# **AREA 5 TOP DECK MONITORING QUARTERLY REPORT**

**FIRST QUARTER 2019**

## **I. REPORT OVERVIEW**

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

## **II. LEACHATE MONITORING**

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

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

**TABLE 1**  
**CEDAR HILLS REGIONAL LANDFILL LEACHATE PRODUCTION for FIRST QUARTER of 2019**

Time	Leachate	Surface Area of Refuse	Refuse In Place	Precipitation	Flow			
(year)	(MG/yr)	(Acres)	(lbs)	(in/yr)	(gal/Acre/yr)	(gal/Acre/in)	(gal/lb/yr)	(gal/lb/in)
1986	163.03	138.5	11,328,841,100	54.79	1,177,112	21,484	0.0144	0.00026
1987	139.53	138.5	12,927,926,300	39.6	1,007,422	25,440	0.0108	0.00027
1988	169.67	161.9	14,525,504,000	48.63	1,048,009	21,551	0.0117	0.00024
1989	176	161.9	16,203,204,000	44.12	1,087,110	24,640	0.0109	0.00025
1990	294.75	161.9	17,965,254,000	71.6	1,820,594	25,427	0.0164	0.00023
1991	224.27	221.4	19,778,412,000	45.85	1,012,967	22,093	0.0113	0.00025
1992	156.46	221.4	21,454,600,000	38.64	706,694	18,289	0.0073	0.00019
1993	150.83	221.4	23,051,348,000	35.01	681,264	19,459	0.0065	0.00019
1994	159.8	221.4	24,657,528,000	38.55	721,764	18,723	0.0065	0.00017
1995	201.11	221.4	26,294,654,000	48.4	908,376	18,768	0.0076	0.00016
1996	243.03	221.4	27,946,704,000	57.08	1,097,714	19,231	0.0087	0.00015
1997	239.23	221.4	29,665,380,000	57.24	1,080,511	18,877	0.0081	0.00014
1998	202.8	221.4	31,432,828,000	42.82	916,006	21,392	0.0065	0.00015
1999	219.15	283.42	33,273,828,000	45.9	773,229	16,848	0.0066	0.00014
2000	148.82	283.42	35,167,828,000	33.15	525,102	15,840	0.0042	0.00013
2001	174.08	283.42	37,041,828,000	47.28	614,194	12,991	0.0047	0.0001
2002	133.4	283.42	38,919,828,000	35.13	470,690	13,399	0.0034	0.0001
2003	181.6	283.42	40,877,828,000	46.39	640,761	13,812	0.0044	0.0001
2004	185.72	328.72	42,889,828,000	34.08	564,983	16,578	0.0043	0.00013
2005	175.31	328.72	44,867,538,000	40.75	533,313	13,087	0.0039	0.0001
2006	264.95	328.72	46,820,938,000	52.94	806,009	15,225	0.0057	0.00011
2007	161.48	328.72	47,129,756,000	38.68	491,239	16,143	0.0034	0.000112
2008	126.02	328.72	48,990,990,000	42.32	383,366	9,059	0.0026	0.00006
2009	172.16	328.72	49,414,219,997	42.42	523,741	12,347	0.0035	0.00008
2010	199.4	335.72	51,076,043,997	49.25	593,959	12,060	0.0039	0.00008
2011	180.2	353.12*	52,701,411,694	51.05	510,308	9,996	0.0034	0.00007
2012	202.3	353.12*	54,315,239,773	58.16	572,972	9,852	0.0037	0.00006
2013	156.4	353.12*	55,933,569,773	47.77	442,923	9,272	0.0028	0.00006
2014	189.14	353.12*	57,638,062,970	64.07	535,631	8,360	0.0033	0.00005
2015	176.26	353.12*	59,401,111,988	51.39	499,159	9,713	0.0030	0.00006
2016	180.32	353.12*	61,277,452,914	51.43	510,659	9,929	0.0029	0.00006
2017	218.18	353.12*	63,183,738,844	57.54	617,853	10,738	0.0035	0.00006
2018	175.71	353.12*	64,999,044,304	33.83	497,597	14,709	0.0027	0.00008
2019	52.77	353.12*	65,420,722,304	9.64	149,426	15,501	0.0008	0.00008

2019: Precipitation, leachate and refuse in place through 1st Quarter of 2019

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

### **III. SURFACE MONITORING**

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

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

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

#### **Landfill Gas Inspections**

Each quarter, monthly inspections of the gas system, stormwater system, and cover system of Area 5 are performed by the KCSWD staff. During the first quarter of 2019 all inspections and maintenance work was performed by KCSWD staff as planned. A summary of this work can be found in Appendix A: Inspection Reports.

Also, throughout the first quarter of 2019, KCSWD staff performed monthly Landfill Facility Site Inspections. These inspections are also included in Appendix A. During the first quarter, erosion control measures continued to be implemented and/or maintained to mitigate runoff effects from on-going construction activities at the landfill.

#### **Air Quality Criteria**

Each quarter, surface emission monitoring is conducted across the Area 5 Top Deck and its side slopes to verify that methane gas emissions are below regulatory criteria. The first quarter of 2019 surface emission monitoring was conducted from March 19 through March 28, 2019. There were no exceedances of regulatory criteria observed during the Serpentine Walk.

The results from the first quarter of 2019 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 first quarter of 2019 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. A site map showing the settlement monitoring points is included as Figure 1. Visual inspections are completed by both operations and engineering staff. No evidence of erosion of the cover and underlying refuse was found during inspections.

The most recent settlement levels for Area 5 were measured on February 10, 2019. The survey data is given in Table 2, and the settlement at each point is given in Table 3. Although settlement is proceeding at a very low rate, there is no indication that any differential settlement is occurring, nor any concern to cover system integrity.

TABLE 2 CEDAR HILLS REGIONAL LANDFILL AREA 5 SURFACE SURVEY DATA for 1st QUARTER of 2019									
A5SM-1 <sup>a</sup>		A5SM-2		A5SM-3 <sup>b</sup>		PMX20074 <sup>c</sup>		PMX2015 <sup>d</sup>	
Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation	Date	Elevation
10/4/2005	699.18	10/4/2005	785.17	--	--	--	--	--	--
2/1/2006	697.7	2/1/2006	782.52	--	--	--	--	--	--
6/27/2006	696.51	6/27/2006	780.48	--	--	--	--	--	--
2/14/2007	694.53	--	--	2/14/2007	786.4	--	--	--	--
--	--	4/20/2007	776.95	4/20/2007	786.25	--	--	--	--
7/24/2007	693.34	7/24/2007	775.63	7/24/2007	785.68	8/16/2007	781.56	--	--
2/29/2008	691.77	2/29/2008	773.44	2/29/2008	784.87	2/29/2008	780.1	--	--
7/29/2008	691.26	7/29/2008	772.2	7/29/2008	784.31	7/29/2008	779.13	--	--
11/24/2008	690.61	11/24/2008	771.29	11/24/2008	783.76	11/24/2008	778.21	--	--
4/6/2009	690.16	4/6/2009	770.35	4/6/2009	783.35	4/6/2009	777.41	--	--
7/9/2009	689.77	7/9/2009	769.79	7/9/2009	783.05	7/9/2009	776.99	--	--
12/22/2009	689.13	12/22/2009	768.6	12/22/2009	782.44	12/22/2009	776.1	--	--
3/1/2010	688.77	3/1/2010	768.05	3/1/2010	782.08	3/1/2010	775.81	--	--
8/2/2010	688.6	8/2/2010	767.28	8/2/2010	781.78	8/2/2010	775.29	--	--
12/21/2010	688.1	12/21/2010	766.53	12/21/2010	781.25	12/21/2010	774.79	--	--
4/6/2011	687.83	4/6/2011	765.86	4/6/2011	780.94	4/6/2011	774.42	--	--
8/8/2011	687.46	8/8/2011	765.34	8/8/2011	780.66	8/8/2011	774.19	--	--
1/23/2012	687.19	1/23/2012	764.53	1/23/2012	780.26	1/23/2012	773.79	--	--
5/18/2012	686.78	5/18/2012	763.99	5/18/2012	779.9	5/18/2012	773.41	--	--
7/12/2012	686.69	7/12/2012	763.83	7/12/2012	779.69	7/12/2012	773.26	--	--
11/2/2012	686.55	11/6/2012	763.35	11/2/2012	779.56	--	--	--	--
5/22/2013	686.09	5/22/2013	762.77	5/22/2013	779.09	--	--	--	--
--	--	8/8/2013	762.53	9/5/2013	779.66	--	--	--	--
--	--	2/19/2014	762.06	2/19/2014	777.68	--	--	--	--
--	--	2/9/2015	761.09	2/9/2015	777.63	--	--	--	--
--	--	4/6/2015	761.11	4/6/2015	777.51	--	--	4/6/2015	770.48
--	--	7/2/2015	760.96	7/2/2015	777.38	--	--	7/2/2015	770.31
--	--	10/27/2015	760.62	10/27/2015	777.12	--	--	10/27/2015	770.1
--	--	2/3/2016	760.35	2/3/2016	776.83	--	--	2/3/2016	769.87
--	--	4/12/2016	760.35	4/12/2016	776.87	--	--	4/12/2016	769.86
--	--	7/11/2016	760.15	7/11/2016	776.68	--	--	7/11/2016	769.76
--	--	12/21/2016	759.85	12/21/2016	776.43	--	--	12/21/2016	769.57
--	--	5/31/2017	759.56	5/31/2017	776.23	--	--	5/31/2017	769.27
--	--	8/28/2017	759.38	--	--	--	--	8/28/2017	769.16
--	--	11/27/2017	759.28	--	--	--	--	11/27/2017	769
--	--	2/15/2018	759.10	--	--	--	--	2/15/2018	768.96
--	--	9/4/2018	758.61	--	--	--	--	9/4/2018	768.6
--	--	12/15/2018	758.55	--	--	--	--	12/15/2018	768.6
--	--	2/10/2019	758.44	--	--	--	--	2/10/2019	768.54
<sup>a</sup> A5SM-1 was destroyed by filling Area 7 during Lift 4. <sup>b</sup> A5SM-3 NEW as of 2/14/2007. Destroyed by Area 8 excavation stockpile in 08/2017. <sup>c</sup> PMX20074 was destroyed during Phase 3 of Area 6. <sup>d</sup> PMX2015 NEW 04/06/2015; it's the same location as PMX20074									

TABLE 3														
CEDAR HILLS REGIONAL LANDFILL AREA 5 SETTLEMENT for 1st QUARTER of 2019														
Settlement Monitoring Locations	Units	SETTLEMENT DATE RANGE (MM/YYYY)												
		06/2006 - 07/2007	07/2007 - 07/2008	07/2008 - 07/2009	07/2009 - 08/2010	08/2010 - 08/2011	08/2011 - 07/2012	07/2012- 05/2013	05/2013- 02/2014	02/2014- 02/2015	02/2015- 02/2016	02/2016- 05/2017	05/2017- 02/2018	02/2018- 02/2019
<sup>a</sup> A5SM-1	Feet	3.17	2.08	1.49	1.17	1.14	0.77	0.60	N/A	N/A	N/A	N/A	N/A	N/A
A5SM-2	Feet	4.85	3.43	2.41	2.51	1.94	1.51	1.06	0.71	0.97	0.74	0.79	0.46	0.66
<sup>b</sup> A5SM-3	Feet	N/A	1.37	1.26	1.27	1.12	0.97	0.60	1.41	0.05	0.8	0.6	N/A	N/A
<sup>c</sup> PMX20074	Feet	N/A	2.43	2.14	1.7	1.1	0.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<sup>d</sup> PMX2015	Feet	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.6	0.31	0.42
Average Settlement for Area 5	Feet/Date Range	4.01	2.33	1.83	1.66	1.33	1.05	0.75	1.06	0.51	0.77	0.66	0.38	0.54
	Feet/Month	0.33	0.19	0.17	0.14	0.11	0.10	0.08	0.13	0.05	0.07	0.04	0.05	0.05
<sup>a</sup> A5SM-1 was destroyed by filling Area 7 during Lift 4. <sup>b</sup> A5SM-3 NEW as of 2/14/2007. Destroyed by Area 8 excavation stockpile in 08/2017. <sup>c</sup> PMX20074 was destroyed during Phase 3 of Area 6. <sup>d</sup> PMX2015 NEW 04/06/2015; it's the same location as PMX20074														

#### **IV. STORMWATER SAMPLING**

##### **Collection of Samples**

No samples were collected from the Area 5 Top Deck stormwater monitoring stations SW-TD1, SW-TD2, SW-TD4, and SW-TD6 during the first quarter of 2019. Figure 2 shows the Area 5 Top Deck stormwater monitoring station locations of the Area 5.

Therefore, no comparisons can be made with the surface water or leachate sample data, nor can a review be performed for evaluating the runoff from Area 5 for the first quarter of 2019.

#### **V. CONCLUSION**

Stormwater samples for the Area 5 Top Deck were unable to be collected during the first quarter of 2019. Therefore, no determinations can be made regarding Area 5's first quarter 2019 stormwater runoff with respect to exceedances of water quality criteria or benchmarks, nor can comparisons be made with background surface water flow (from SW-S1), and leachate effluent (from LS-API).

The inspection reports for the first quarter of 2019 showed no issues with the interim cover system for Area 5 and no indication of LFG presence.

The Area 5 settlement rate remained low and consistent with the previous monitoring period. Additionally, there were no indications of major differential settling, nor signs of surficial erosion.

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



# Figures





**LEGEND:**

○ MONITORING STATION

DATE	REVISION	BY



KING COUNTY DEPARTMENT OF  
NATURAL RESOURCES AND PARKS  
SOLID WASTE DIVISION

CEDAR HILLS REGIONAL LANDFILL  
SETTLEMENT MONITORING LOCATIONS

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



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

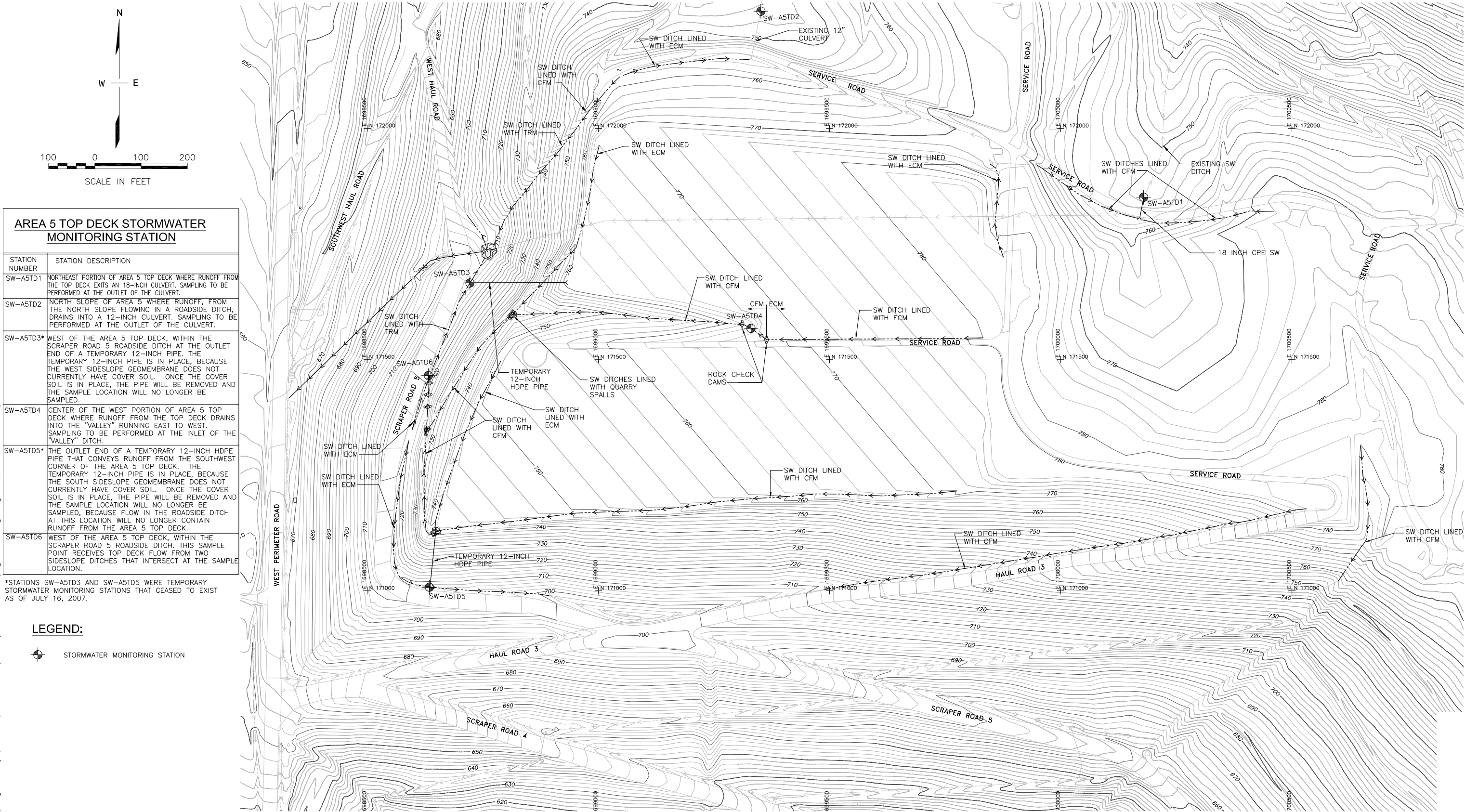


Figure 2  
Area 5 Top Deck  
Stormwater Monitoring Stations

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

# Appendix A:

## Inspection Reports

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# SOLID WASTE DIVISION

## Landfill Facility Site Inspections

### Type – Permit Compliance

Inspected By: Stevn Larry

Date: Jan 29, 2019

Location: Cedar Hills Ambient Temperature (°F) 35 Weather Condition: Cold and Clear

### ACTION CODES

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

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area     Map		Status  G       F       P			State Reason if “Fair or Poor”	Date Corrective Action Implemented
1	D2	G5			X		Stormwater drop inlets behind the shops building partly blocked with debris.	
2	D(3,4 &5)	G5				X	Stormwater ditches and check dams contain litter and mud behind the rock checks. Locations: both sides of the West Haul Road, Scrapper Road 5, Along Haul Road 6, east side.	
3	B2	H2			X		The CSW pond concrete aprons has continued break up/ balloon damage.	
4	E(1&4)	E3				X	There is a considerable amount of vehicle track out from the active face originating from the wheel wash leading down the haul road in both lane directions.	

5	C1	G5			X		The truck wash fueling station has on going electrical pump issues. The damaged fuel island rain flaps require removal and disposal and the ecology block was repositioned.	
6	C9				X		Odor issues between Area 7 (North side) and Area 5 (South side), the valley. Operations and Engineering are coordinating the connections of drainage and condensate, gas lines in the immediate area and installing the Odor Boss.	
7	C10	Areas 5,6&7				X	All soil stock piles is Area 5, 6, & 7 have lost their plastic covers and are eroding. Their plastic covers are blowing around the site.	
8	C12					X	Windblown litter need policing.	
9	F1,2	Areas 5,6&7				X	Cover erosion along the sides slopes of Area 7 and the ditches of soil stock pile	
10								
11								

AREA CODES (for Cedar Hills)

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

G = Good

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

F = Fair

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

P = Poor

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



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

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

Overall site description day of site inspection: The site has experienced high wind damage that has blown litter that has collected about the landfill. The heavy rains has caused considerable amount of the soil and slope erosion that will have to be repaired over the next couple of months.

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

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

Potential Pollutant Sources **Y / N**

Site Map **Y / N**



## INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: \_\_\_\_\_

SITE: Cedar Hills Regional Landfill

### INSPECTOR / QUALIFIED PERSONNEL

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

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

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

\* Immediately notify Environmental Compliance Coordinator

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

Printed name: Stevn/Larry, Engineer II

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1/27/19

### DULY AUTHORIZED REPRESENTATIVE

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

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

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

\* Immediately notify Environmental Compliance Coordinator

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

Printed name: Bill Berni, Operations Manager

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

2-6-19



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

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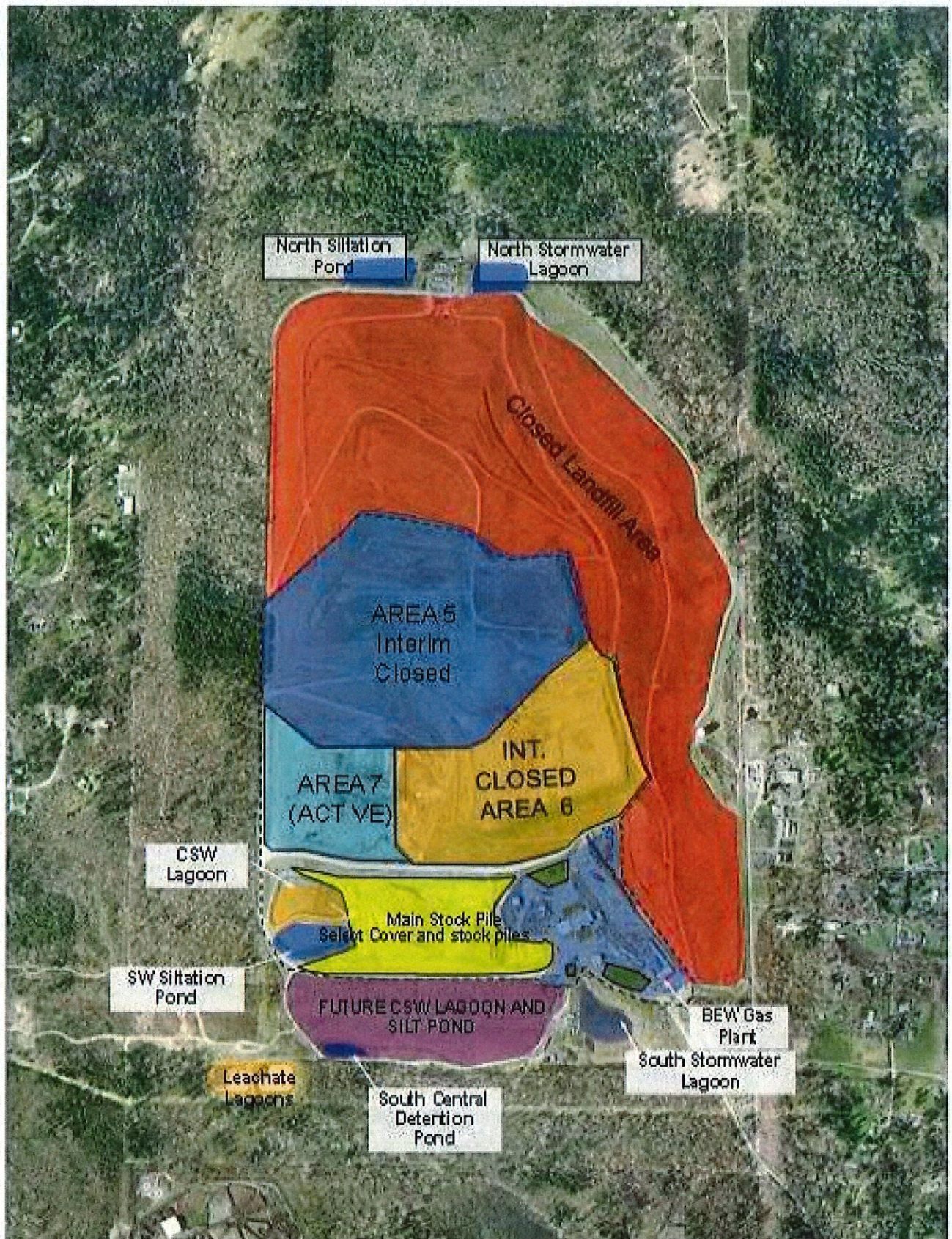
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# SOLID WASTE DIVISION

## Landfill Facility Site Inspections

### Type – Permit Compliance

Inspected By: Stevn Larry

Date: 2/20/2019

Location: Cedar Hills Ambient Temperature (28-35 °F) Weather Condition: Foggy –Snow at times

### ACTION CODES

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

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map	Status G F P	State Reason if "Fair or Poor"	Date Corrective Action Implemented
1	A5	B(3&4)		X	Air Quality, LFG present along Valley of Are 7 & 5, along the NFS and again along the North, central perimeter road.
2	D1			X	All ponds and ditches are full, or flowing full with turbid water.
3	E1	F3		X	There is a considerable amount of sediment "drag out" as trucks pass through the wheel wash. Health has requested that the wheel wash be refilled.
4	C1	G5		X	Issues persist within the fuel management system. The rain mats have all been destroyed and will not be replaced.
5	C2	G5		X	The truck wash final rinse is broken and the water turned off. Water is no longer spraying and freezing at the exit point. Repairs have been scheduled.

6	C9					X	Same air quality issues as stated for item #1	
7								
8								
9								
10								
11								

AREA CODES (for Cedar Hills)

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

G = Good

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

F = Fair

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

P = Poor

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



**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: Overall the site appears maintained. There remains ice and snow over much of the site during the inspection. During the inspection, all surface water ponds were ice covered, but draining. All locations had turbid outflows. The rapid sand filter outflow appeared to be clearer than the inflows. There was considerable track out from the active fill. Because of the continued cold weather and road icing, the water from the wheel wash was drained. The wheel wash will be filled when the temperature returns to above freezing..

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

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

Potential Pollutant Sources Y / N

Site Map Y / N

## INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 2/21/19

SITE: Cedar Hills Regional Landfill

### INSPECTOR / QUALIFIED PERSONNEL

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

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

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

\* Immediately notify Environmental Compliance Coordinator

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

Printed name: Stevn Larry, Engineer II

Signature: 

Date: 2/21/19

### DULY AUTHORIZED REPRESENTATIVE

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

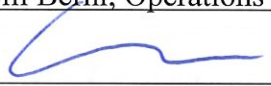
☒ The site is in compliance with the terms and conditions of the SWPPP and the ISGP.

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

\* Immediately notify Environmental Compliance Coordinator

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

Printed name: Bill Berni, Operations Manager

Signature: 

Date: 2-21-19



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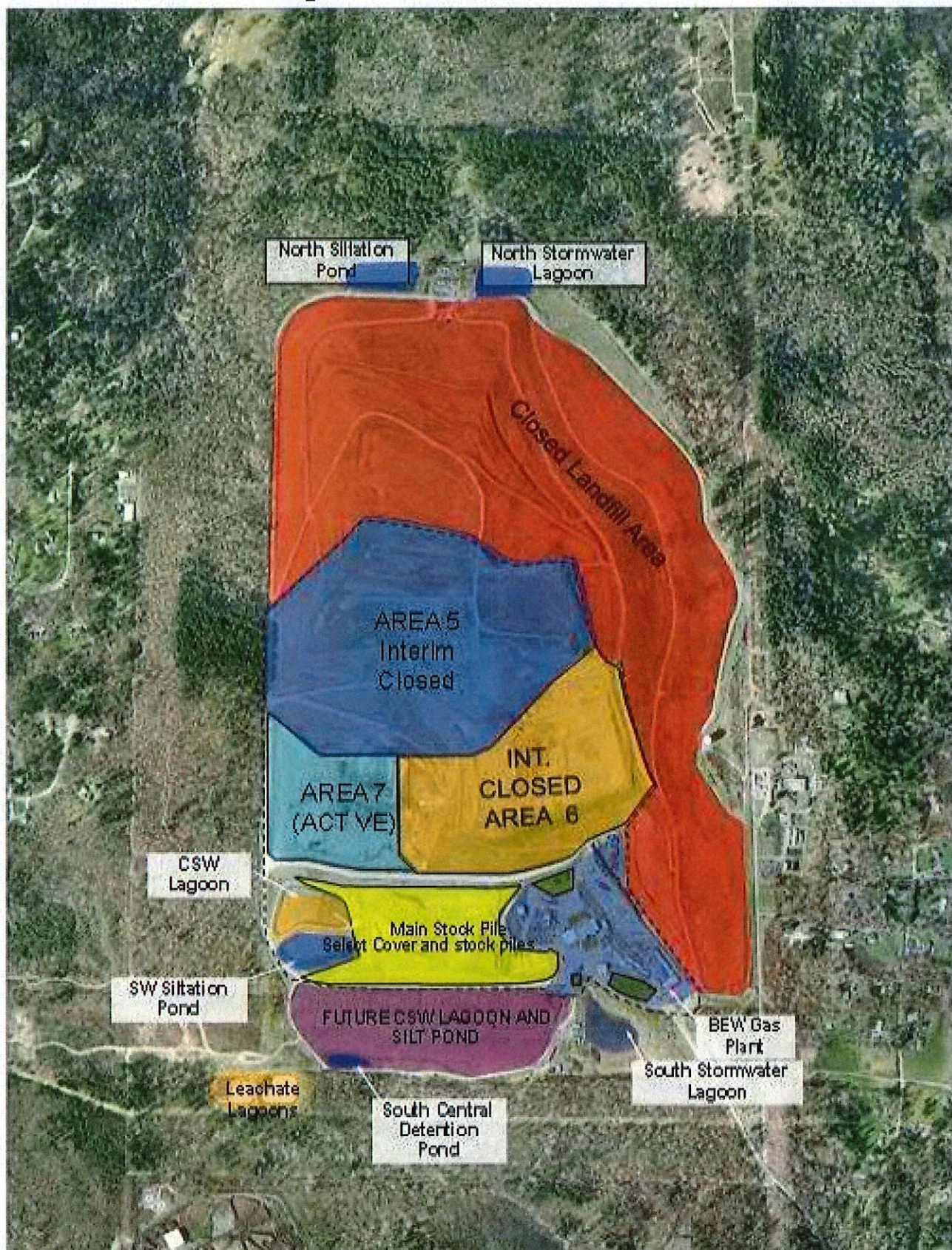
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# SOLID WASTE DIVISION

## Landfill Facility Site Inspections

### Type – Permit Compliance

Inspected By: Stevn Larry

Date: 3/26/2019

Location: Cedar Hills Ambient Temperature (45 °F) Weather Condition: Cloudy-partly rainy

### ACTION CODES

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

Item No.	Action Code(s)	Area Code(s) (See below or over for map) Area Map	Status G F P	State Reason if "Fair or Poor"	Date Corrective Action Implemented
1	A5, & C9.	E&F-(3)		Air Quality, Odor present along the West Perimeter road.	
2	D1	B3		North siltation pond remain turbid.	
3	D5	C,D,F – (2)		There is a considerable amount of windblown litter in the West perimeter road.	
4	B4	F2		Issues persist within the leachate collection system within the toe of Area 7. Surface weeps present that are being controlled.	



5	B5	F2				X	Issues persist within the leachate collection system within the toe of Area 7. An investigation of the problems and design repairs are being developed. Stormwater is being diverted from the area.	
6	C1	G5			X		Fuel island operational problems persist. The Fuel island is being evaluated for relocation/replacement.	
7	C2	G5			X		The truck wash final rinse is broken and the water turned off. Repair replacement parts have been ordered but have not been secured for the repairs.	
8	C6	Many			X		Contractor construction debris has been left at many locations or is blowing in the wind. Debris needs to be collected and removed.	
9	C(12)	C,D,E,F, G – (2)				X	Windblown litter has collected the entire length of the west hall road and within the stormwater ditches.	
10	F(2&3)	Many			X		The stormwater collection ditches on along the west facing slopes of Area 7 require cleaning and re-sculpting to prevent switchback blow outs. The stormwater ditches along Area 6 require maintenance and sediment removal and armoring in many locations.	
11								

AREA CODES (for Cedar Hills)

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

G = Good

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

F = Fair

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

P = Poor

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

**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: Overall the site appears maintained. The most significant issues are: Windblown litter accumulation along the west haul road and a large scale response to leachate spill containment and stormwater diversion from the SW toe of Area 7. The construction contractor is in the last phases of construction and there is a call for them to remove their left over construction debris from various locations around the landfill. The hydro-seeding of various locations has not grown in and erosion control remain a major concern. Hill slopes are poorly vegetated and newly installed surface water channels in Area 7 and 6 are requiring maintenance to prevent flow topping and further channel scour. Photos taken during the site inspection can be found at: P:\SWPublic\CHL\_Public\CH Monthly Site Inspections\SW Inspections\SW Inspection 19\Mar

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

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

Potential Pollutant Sources **Y / N**

Site Map **Y / N**

## INSPECTION REPORT SIGNATURE PAGE

INSPECTION DATE: 3/26/2019

SITE: Cedar Hills Regional Landfill

### INSPECTOR / QUALIFIED PERSONNEL

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

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

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

\* Immediately notify Environmental Compliance Coordinator

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

Printed name: Stevn Larry, Engineer II

Signature: 

Date: 3/26/2019

### DULY AUTHORIZED REPRESENTATIVE

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

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

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

\* Immediately notify Environmental Compliance Coordinator

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

Printed name: Bill Berni, Operations Manager

Signature: 

Date: 4-17-19

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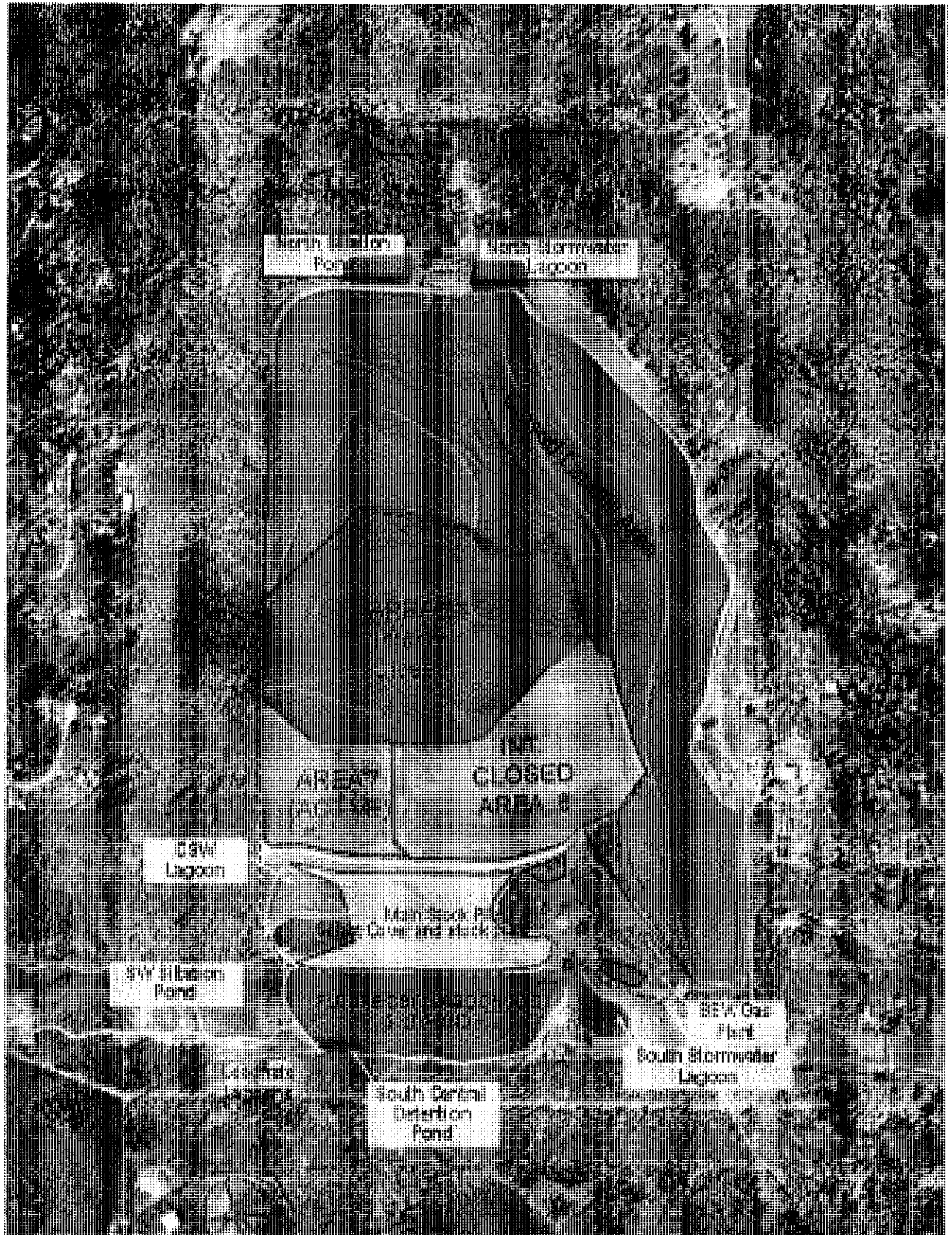
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## Cedar Hills Area 5 Maintenance

for the period 01/01/2019 to 03/31/2019

*Click the blue 'Y' to see notes*

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
<b>Area 5</b>						
	CHAREA5	0000020526	CLOSED	Monthly Gas System PM	01/16/2019	N
	CHAREA5	0000020526	CLOSED	Monthly Stormwater PM	01/16/2019	N
	CHAREA5	0000020526	CLOSED	Monthly Cover System PM	01/16/2019	N
	CHAREA5	0000020657	CLOSED	Monthly Gas System PM	02/08/2019	N
	CHAREA5	0000020657	CLOSED	Monthly Stormwater PM	02/08/2019	N
	CHAREA5	0000020657	CLOSED	Monthly Cover System PM	02/08/2019	N
	CHAREA5	0000020797	CLOSED	Monthly Gas System PM	03/06/2019	N
	CHAREA5	0000020797	CLOSED	Monthly Stormwater PM	03/06/2019	N
	CHAREA5	0000020797	CLOSED	Monthly Cover System PM	03/06/2019	N
	CHAREA5E	0000020492	CLOSED	Monthly Header PM	01/11/2019	N
	CHAREA5E	0000020598	CLOSED	Monthly Header PM	02/06/2019	N
	CHAREA5E	0000020744	CLOSED	Monthly Header PM	03/13/2019	N
	CHAREA5W	0000020491	CLOSED	Monthly Header PM	01/11/2019	N
	CHAREA5W	0000020597	CLOSED	Monthly Header PM	02/06/2019	N
	CHAREA5W	0000020743	CLOSED	Monthly Header PM	03/13/2019	N

## Cedar Hills Landfill Storm Water Pollution Prevention Plan Maintenance

for the period 01/01/2019 to 03/31/2019

*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	0000041514	CLOSED	PMM	01/08/2019	<a href="#">Y</a>
Cedar Hills	0000041810	CLOSED	PMM	02/07/2019	<a href="#">Y</a>
Cedar Hills	0000042096	CLOSED	PMM	03/04/2019	N

### Trash Racks

Cedar Hills	0000041513	CLOSED	PMW	01/08/2019	<a href="#">Y</a>
Cedar Hills	0000041611	CLOSED	PMW	01/16/2019	N
Cedar Hills	0000041703	CLOSED	PMW	01/23/2019	<a href="#">Y</a>
Cedar Hills	0000041738	CLOSED	PMW	01/28/2019	N
Cedar Hills	0000041809	CLOSED	PMW	02/07/2019	N
Cedar Hills	0000041916	CLOSED	PMW	02/14/2019	N
Cedar Hills	0000041992	CLOSED	PMW	02/19/2019	N
Cedar Hills	0000041993	CLOSED	PMW	02/28/2019	<a href="#">Y</a>
Cedar Hills	0000042095	CLOSED	PMW	03/04/2019	N
Cedar Hills	0000042137	CLOSED	PMW	03/14/2019	N
Cedar Hills	0000042193	CLOSED	PMW	03/21/2019	N
Cedar Hills	0000042256	CLOSED	PMW	03/27/2019	<a href="#">Y</a>

### Ditches

Cedar Hills	0000041513	CLOSED	PMW	01/08/2019	<a href="#">Y</a>
Cedar Hills	0000041514	CLOSED	PMM	01/08/2019	<a href="#">Y</a>
Cedar Hills	0000041611	CLOSED	PMW	01/16/2019	N
Cedar Hills	0000041703	CLOSED	PMW	01/23/2019	<a href="#">Y</a>
Cedar Hills	0000041738	CLOSED	PMW	01/28/2019	N
Cedar Hills	0000041809	CLOSED	PMW	02/07/2019	N
Cedar Hills	0000041810	CLOSED	PMM	02/07/2019	<a href="#">Y</a>
Cedar Hills	0000041916	CLOSED	PMW	02/14/2019	N
Cedar Hills	0000041992	CLOSED	PMW	02/19/2019	N
Cedar Hills	0000041993	CLOSED	PMW	02/28/2019	<a href="#">Y</a>
Cedar Hills	0000042095	CLOSED	PMW	03/04/2019	N



Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000042096	CLOSED	PMM	03/04/2019	N
	Cedar Hills	0000042100	CLOSED	PMQ	03/04/2019	N
	Cedar Hills	0000042137	CLOSED	PMW	03/14/2019	N
	Cedar Hills	0000042193	CLOSED	PMW	03/21/2019	N
	Cedar Hills	0000042256	CLOSED	PMW	03/27/2019	Y

#### Pipes/Culverts

Cedar Hills	0000042100	CLOSED	PMQ	03/04/2019	N
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#### Ponds/Lagoons

Cedar Hills	0000041513	CLOSED	PMW	01/08/2019	Y
Cedar Hills	0000041611	CLOSED	PMW	01/16/2019	N
Cedar Hills	0000041703	CLOSED	PMW	01/23/2019	Y
Cedar Hills	0000041738	CLOSED	PMW	01/28/2019	N
Cedar Hills	0000041809	CLOSED	PMW	02/07/2019	N
Cedar Hills	0000041916	CLOSED	PMW	02/14/2019	N
Cedar Hills	0000041992	CLOSED	PMW	02/19/2019	N
Cedar Hills	0000041993	CLOSED	PMW	02/28/2019	Y
Cedar Hills	0000042095	CLOSED	PMW	03/04/2019	N
Cedar Hills	0000042100	CLOSED	PMQ	03/04/2019	N
Cedar Hills	0000042137	CLOSED	PMW	03/14/2019	N
Cedar Hills	0000042193	CLOSED	PMW	03/21/2019	N
Cedar Hills	0000042256	CLOSED	PMW	03/27/2019	Y

#### General

Cedar Hills	0000041513	CLOSED	PMW	01/08/2019	Y
Cedar Hills	0000041611	CLOSED	PMW	01/16/2019	N
Cedar Hills	0000041703	CLOSED	PMW	01/23/2019	Y
Cedar Hills	0000041738	CLOSED	PMW	01/28/2019	N
Cedar Hills	0000041809	CLOSED	PMW	02/07/2019	N
Cedar Hills	0000041916	CLOSED	PMW	02/14/2019	N
Cedar Hills	0000041992	CLOSED	PMW	02/19/2019	N
Cedar Hills	0000041993	CLOSED	PMW	02/28/2019	Y
Cedar Hills	0000042095	CLOSED	PMW	03/04/2019	N
Cedar Hills	0000042100	CLOSED	PMQ	03/04/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	Cedar Hills	0000042137	CLOSED	PMW	03/14/2019	N
	Cedar Hills	0000042193	CLOSED	PMW	03/21/2019	N
	Cedar Hills	0000042256	CLOSED	PMW	03/27/2019	Y

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#### Leachate System

Cedar Hills	0000042100	CLOSED	PMQ	03/04/2019	N
CHPS1	0000041455	CLOSED	PMW	01/02/2019	N
CHPS1	0000041536	CLOSED	PMW	01/07/2019	N
CHPS1	0000041638	CLOSED	PMW	01/14/2019	N
CHPS1	0000041669	CLOSED	PMW	01/22/2019	N
CHPS1	0000041729	CLOSED	PMW	01/27/2019	N
CHPS1	0000041780	CLOSED	PMW	02/04/2019	N
CHPS1	0000041882	CLOSED	PMW	02/13/2019	N
CHPS1	0000041965	CLOSED	PMW	02/21/2019	N
CHPS1	0000041989	CLOSED	PMW	02/25/2019	N
CHPS1	0000042051	CLOSED	PMW	03/04/2019	N
CHPS1	0000042145	CLOSED	PMW	03/15/2019	N
CHPS1	0000042185	CLOSED	PMW	03/20/2019	N
CHPS1	0000042252	CLOSED	PMW	03/27/2019	N
CHPS2	0000041454	CLOSED	PMW	01/02/2019	N
CHPS2	0000041534	CLOSED	PMW	01/07/2019	N
CHPS2	0000041636	CLOSED	PMW	01/14/2019	N
CHPS2	0000041668	CLOSED	PMW	01/22/2019	N
CHPS2	0000041733	CLOSED	PMW	01/27/2019	N
CHPS2	0000041778	CLOSED	PMW	02/04/2019	N
CHPS2	0000041883	CLOSED	PMW	02/13/2019	N
CHPS2	0000041964	CLOSED	PMW	02/21/2019	N
CHPS2	0000041988	CLOSED	PMW	02/25/2019	N
CHPS2	0000042144	CLOSED	PMW	03/15/2019	N
CHPS2	0000042187	CLOSED	PMW	03/20/2019	N
CHPS2	0000042253	CLOSED	PMW	03/27/2019	N
CHPS3	0000041452	CLOSED	PMW	01/02/2019	N
CHPS3	0000041530	CLOSED	PMW	01/07/2019	N
CHPS3	0000041634	CLOSED	PMW	01/14/2019	N
CHPS3	0000041666	CLOSED	PMW	01/22/2019	N



Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHPS3	0000041731	CLOSED	PMW	01/27/2019	N
	CHPS3	0000041776	CLOSED	PMW	02/04/2019	N
	CHPS3	0000041884	CLOSED	PMW	02/13/2019	N
	CHPS3	0000041963	CLOSED	PMW	02/21/2019	N
	CHPS3	0000041987	CLOSED	PMW	02/25/2019	N
	CHPS3	0000042052	CLOSED	PMW	03/04/2019	N
	CHPS3	0000042142	CLOSED	PMW	03/15/2019	N
	CHPS3	0000042183	CLOSED	PMW	03/20/2019	N
	CHPS3	0000042251	CLOSED	PMW	03/27/2019	N
	CHPS4	0000041451	CLOSED	PMW	01/02/2019	N
	CHPS4	0000041528	CLOSED	PMW	01/07/2019	Y
	CHPS4	0000041639	CLOSED	PMW	01/14/2019	N
	CHPS4	0000041671	CLOSED	PMW	01/24/2019	N
	CHPS4	0000041725	CLOSED	PMW	01/27/2019	N
	CHPS4	0000041775	CLOSED	PMW	02/04/2019	N
	CHPS4	0000041885	CLOSED	PMW	02/13/2019	N
	CHPS4	0000041967	CLOSED	PMW	02/21/2019	Y
	CHPS4	0000041986	CLOSED	PMW	02/25/2019	N
	CHPS4	0000042049	CLOSED	PMW	03/04/2019	N
	CHPS4	0000042141	CLOSED	PMW	03/15/2019	N
	CHPS4	0000042182	CLOSED	PMW	03/20/2019	N
	CHPS4	0000042254	CLOSED	PMW	03/27/2019	N
	LEPS	0000041449	CLOSED	PMW	01/02/2019	N
	LEPS	0000041523	CLOSED	PMW	01/07/2019	Y
	LEPS	0000041525	CLOSED	PMM	01/07/2019	Y
	LEPS	0000041631	CLOSED	PMW	01/14/2019	Y
	LEPS	0000041663	CLOSED	PMW	01/23/2019	N
	LEPS	0000041726	CLOSED	PMW	01/27/2019	N
	LEPS	0000041772	CLOSED	PMW	02/04/2019	N
	LEPS	0000041867	CLOSED	PMM	02/05/2019	Y
	LEPS	0000041877	CLOSED	PMW	02/13/2019	N
	LEPS	0000041960	CLOSED	PMW	02/21/2019	N
	LEPS	0000041983	CLOSED	PMW	02/25/2019	Y
	LEPS	0000042054	CLOSED	PMW	03/04/2019	N
	LEPS	0000042060	CLOSED	PMM	03/04/2019	Y

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	LEPS	0000042138	CLOSED	PMW	03/15/2019	N
	LEPS	0000042139	CLOSED	PMW	03/15/2019	N
	LEPS	0000042179	CLOSED	PMW	03/20/2019	N
	LEPS	0000042246	CLOSED	PMW	03/27/2019	N

---

**Landfill Cover**

CHAPONDS	0000020524	CLOSED	PMV	01/16/2019	N
CHAPONDS	0000020655	CLOSED	PMV	02/15/2019	N
CHAPONDS	0000020795	CLOSED	PMV	03/06/2019	N
CHAREA4	0000020525	CLOSED	PMV	01/16/2019	N
CHAREA4	0000020656	CLOSED	PMV	02/08/2019	N
CHAREA4	0000020796	CLOSED	PMV	03/06/2019	N
CHAREA5	0000020526	CLOSED	PMV	01/16/2019	N
CHAREA5	0000020657	CLOSED	PMV	02/08/2019	N
CHAREA5	0000020797	CLOSED	PMV	03/06/2019	N
CHAREA6	0000020527	CLOSED	PMV	01/16/2019	N
CHAREA6	0000020658	CLOSED	PMV	02/08/2019	N
CHAREA6	0000020798	CLOSED	PMV	03/06/2019	N
CHAREAS23	0000020530	CLOSED	PMV	01/16/2019	N
CHAREAS23	0000020660	CLOSED	PMV	02/08/2019	N
CHAREAS23	0000020800	CLOSED	PMV	03/06/2019	N
CHCENTRALPIT	0000020529	CLOSED	PMV	01/16/2019	N
CHCENTRALPIT	0000020661	CLOSED	PMV	02/08/2019	N
CHCENTRALPIT	0000020801	CLOSED	PMV	03/06/2019	N
CHEMH	0000020531	CLOSED	PMV	01/16/2019	N
CHEMH	0000020662	CLOSED	PMV	02/08/2019	N
CHEMH	0000020802	CLOSED	PMV	03/06/2019	N
CHNFLARESTN	0000020535	CLOSED	PMV	01/16/2019	N
CHNFLARESTN	0000020666	CLOSED	PMV	02/15/2019	N
CHNFLARESTN	0000020806	CLOSED	PMV	03/06/2019	N
CHSEPA	0000020532	CLOSED	PMV	01/16/2019	N
CHSEPA	0000020663	CLOSED	PMV	02/15/2019	N
CHSEPA	0000020803	CLOSED	PMV	03/06/2019	N
CHSSWA	0000020533	CLOSED	PMV	01/16/2019	N
CHSSWA	0000020664	CLOSED	PMV	02/15/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHSSWA	0000020804	CLOSED	PMV	03/06/2019	N
	CHSTOCKPILE	0000020523	CLOSED	PMV	01/16/2019	N
	CHSTOCKPILE	0000020654	CLOSED	PMV	02/08/2019	N
	CHSTOCKPILE	0000020794	CLOSED	PMV	03/06/2019	N
	CHSWMH	0000020534	CLOSED	PMV	01/16/2019	N
	CHSWMH	0000020665	CLOSED	PMV	02/15/2019	N
	CHSWMH	0000020805	CLOSED	PMV	03/06/2019	N

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#### Landfill Gas

CHAREA5E	0000020456	CLOSED	PMW	01/04/2019	N
CHAREA5E	0000020543	CLOSED	PMW	01/17/2019	N
CHAREA5E	0000020581	CLOSED	PMW	02/13/2019	N
CHAREA5E	0000020703	CLOSED	PMW	02/24/2019	N
CHAREA5E	0000020712	CLOSED	PMW	03/09/2019	N
CHAREA5E	0000020810	CLOSED	PMW	03/21/2019	N
CHAREA5W	0000020457	CLOSED	PMW	01/11/2019	N
CHAREA5W	0000020544	CLOSED	PMW	01/24/2019	N
CHAREA5W	0000020582	CLOSED	PMW	02/13/2019	N
CHAREA5W	0000020704	CLOSED	PMW	02/25/2019	N
CHAREA5W	0000020713	CLOSED	PMW	03/07/2019	N
CHAREA5W	0000020811	CLOSED	PMW	03/21/2019	N
CHAREA6	0000020473	CLOSED	PMW	01/10/2019	N
CHAREA6	0000020559	CLOSED	PMW	01/25/2019	N
CHAREA6	0000020637	CLOSED	PMW	02/12/2019	N
CHAREA6	0000020681	CLOSED	PMW	02/22/2019	N
CHAREA6	0000020739	CLOSED	PMW	03/12/2019	N
CHAREA6	0000020826	CLOSED	PMW	03/19/2019	N
CHAREAS23	0000020495	CLOSED	PMW	01/02/2019	N
CHAREAS23	0000020557	CLOSED	PMW	01/25/2019	N
CHAREAS23	0000020592	CLOSED	PMW	02/07/2019	N
CHAREAS23	0000020667	CLOSED	PMW	02/14/2019	N
CHAREAS23	0000020724	CLOSED	PMW	03/15/2019	N
CHAREAS23	0000020816	CLOSED	PMW	03/21/2019	N
CHCMH	0000020448	CLOSED	PMW	01/06/2019	N
CHCMH	0000020448	CLOSED	PMW	01/07/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHCMH	0000020448	CLOSED	PMW	01/09/2019	N
	CHCMH	0000020536	CLOSED	PMW	01/27/2019	N
	CHCMH	0000020536	CLOSED	PMW	01/28/2019	N
	CHCMH	0000020536	CLOSED	PMW	01/29/2019	N
	CHCMH	0000020587	CLOSED	PMW	02/01/2019	N
	CHCMH	0000020587	CLOSED	PMW	02/13/2019	N
	CHCMH	0000020587	CLOSED	PMW	02/14/2019	N
	CHCMH	0000020705	CLOSED	PMW	02/21/2019	N
	CHCMH	0000020705	CLOSED	PMW	02/23/2019	N
	CHCMH	0000020705	CLOSED	PMW	02/28/2019	N
	CHCMH	0000020718	CLOSED	PMW	03/04/2019	N
	CHCMH	0000020718	CLOSED	PMW	03/05/2019	N
	CHCMH	0000020718	CLOSED	PMW	03/06/2019	N
	CHCMH	0000020812	CLOSED	PMW	03/18/2019	N
	CHCMH	0000020812	CLOSED	PMW	03/19/2019	N
	CHCMH	0000020812	CLOSED	PMW	03/20/2019	N
	CHEMH	0000020455	CLOSED	PMW	01/05/2019	N
	CHEMH	0000020455	CLOSED	PMW	01/09/2019	N
	CHEMH	0000020542	CLOSED	PMW	01/18/2019	N
	CHEMH	0000020542	CLOSED	PMW	01/19/2019	N
	CHEMH	0000020580	CLOSED	PMW	02/19/2019	N
	CHEMH	0000020702	CLOSED	PMW	02/26/2019	N
	CHEMH	0000020711	CLOSED	PMW	03/06/2019	N
	CHEMH	0000020809	CLOSED	PMW	03/20/2019	N
	CHSEPA	0000020461	CLOSED	PMW	01/07/2019	N
	CHSEPA	0000020545	CLOSED	PMW	01/31/2019	N
	CHSEPA	0000020626	CLOSED	PMW	02/07/2019	N
	CHSEPA	0000020670	CLOSED	PMW	02/21/2019	N
	CHSEPA	0000020723	CLOSED	PMW	03/06/2019	N
	CHSEPA	0000020817	CLOSED	PMW	03/19/2019	N

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#### Landfill Roads

CHACTIVEAREA	0000020514	CLOSED	PMR	01/16/2019	N
CHACTIVEAREA	0000020645	CLOSED	PMR	02/08/2019	N
CHACTIVEAREA	0000020785	CLOSED	PMR	03/06/2019	N

Item	Location	Work Order Number	Work Order Status	PM/Repair Type	Completion Date	Work Order Has Notes
	CHMAINGATE	0000020515	CLOSED	PMR	01/16/2019	N
	CHMAINGATE	0000020646	CLOSED	PMR	02/08/2019	N
	CHMAINGATE	0000020786	CLOSED	PMR	03/06/2019	N
	CHPSR	0000020516	CLOSED	PMR	01/16/2019	N
	CHPSR	0000020647	CLOSED	PMR	02/08/2019	N
	CHPSR	0000020787	CLOSED	PMR	03/06/2019	N
	CHSTOCKPILE	0000020523	CLOSED	PMR	01/16/2019	N
	CHSTOCKPILE	0000020654	CLOSED	PMR	02/08/2019	N
	CHSTOCKPILE	0000020794	CLOSED	PMR	03/06/2019	N

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#### 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

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: Cedar Hills License: na

Location: 20

Color:

Year: 2006

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

TECHNICIAN COPY

**WO#: 0000020756**

Date In: 02/25/2019 08:57

Date Promised: 02/26/2019 08:57

Date Out: 00:00

WO Status: A Last WO#: 0000020644

WO Priority: Last WO Date: 01/22/2019

Track DownTime: Y Operator: jd

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	03/30/2019	Quarterly Inspection
S	0 - MONTHS	07/15/2019	Scheduled Inspection
X	0 - MONTHS	03/10/2019	Prohibited Activities

## WARRANTY INFORMATION

Type	Cycle	Date Expires	Description
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## REPAIRS

RTY	Description	Status	MID	Est. Labor	Shop
PMQ BS	PM Service   PMQ per list   Billable   Scheduled, Target	0	763	0.00000	Gas
PMQ BS	PM Service   PMQ per list   Billable   Scheduled, Target	0	765	B.B. 0.00000	Gas

## NOTES

No Externality



No Exceedance



No Exceedance



NO Excellence



NO Exceedences

NO Exceedance



no exceedance

NO EXCEEDENCE

## MARCH 2019

N 175,000

N 174,000

N 173,000

N 172,000

N 171,000/-

N 170,000

N 169,000/-

N 168,000/-

E 1,697,000

N 167,000

— 000'869'1 E

— 000'669'1 E

— 1,700,000 E

E 1,701,000

E 1,702,000

E 1,703,000

***KING COUNTY SOLID WASTE***  
201 S JACKSON ST. SUITE 701  
SEATTLE, WA. 98104-3855

KING COUNTY SOLID WASTE  
 DEPARTMENT  
 1000 1ST AVENUE  
 SEATTLE, WA 98101  
 (206) 462-3333

CEGAR HILLS REGIONAL LANDFILL  
SCALE: 1" = 500'  
CONTOUR INTERVAL: 5FT.  
DATE OF PHOTOGRAPHY: 01-17-00

1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

PROCESSED BY  
S D I, LLC  
3600 WEST 11TH AVE.  
DENVER, CO. 80202  
(303)743-6577

KING COUNTY DEPARTMENT OF NATURAL RESOURCES  
 AND PARKS  
 Christie True, Director  
 SOLID WASTE DIVISION  
 CEDAR HILLS QUARTERLY  
 GAS EMISSIONS MONITORING  
 APPROVED \_\_\_\_\_  
 RECOMMENDED \_\_\_\_\_  
 SURVEY NO. \_\_\_\_\_  
 SHEET 1 OF 1

DATE	REVISION	BY

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

Equipment: charea5 License: na

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

TECHNICIAN COPY



**WO#: 0000020526**

Date In: 12/31/2018 11:05  
 Date Promised: 01/01/2019 11:05  
 Date Out: 00:00

WO Status: A Last WO#: 0000020391  
 WO Priority: Last WO Date: 12/03/2018  
 Track DownTime: Y Operator: jd

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	02/03/2019	Gas System
T	0 - MONTHS	02/03/2019	Stormwater
V	0 - MONTHS	02/03/2019	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	763	0.00000	Gas
PMT BS	PM Service   PM Stormwater   Billable   Scheduled, Target	0	763	0.00000	Gas
PMV BS	PM Service   PM Cover System   Billable   Scheduled, Target	0	763	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: 7/6/19

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: charea6 License: na

Location: 20

Color:

Year: 2006

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZZGS: Landfill Gas - not classified

## TECHNICIAN COPY

**WO#: 0000020527**

Date In: 12/31/2018 11:06

Date Promised: 01/01/2019 11:06

Date Out: 00:00

WO Status: A Last WO#: 0000020490

WO Priority: Last WO Date: 12/31/2018

Track DownTime: Y Operator: jd

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	01/10/2019	Gas System
S	0 - MONTHS	01/28/2019	Scheduled Inspection
T	0 - MONTHS	01/10/2019	Stormwater
V	0 - MONTHS	01/10/2019	Cover System
W	W - WEEKS	12/24/2018	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	0.00000	Gas
PMT BS	PM Service   PM Stormwater   Billable   Scheduled, Target	0	763	0.00000	Gas
PMV BS	PM Service   PM Cover System   Billable   Scheduled, Target	0	763	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: 1/16/19

W0 Company: Gas King County Landfill Gas

W0 Department: 7572 Waste Water, LF Gas

W0 Shop: Gas Landfill Gas

Equipment: charea5td License: na

Location: 20

Year: 2010

Make: UD

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

Color:

Serial: na

Engine:

## TECHNICIAN COPY



WO#: 0000020493

Date In: 12/31/2018 09:51

Date Promised: 01/01/2019 09:51

Date Out: 00:00

W0 Status: A Last W0#: 0000020338

W0 Priority: Last W0 Date: 11/30/2018

Track DownTime: Y Operator: jd

Tire Size 1:

Tire Size 2:

Transmission:

Fuel Type1:

Fuel Type2:

Fuel Type3:

Oil Capacity: 0.000

Fuel Cap1: 0.000

Fuel Cap2: 0.000

GVW: 0

EAC: 24

Department: 7572:Waste Water, LF Gas

Company: Gas King County Landfill Gas

Site: 20:20- Cedar Hills

Monitor Group:

Comments:

CH Area 5

## METERS

W0 Meter	Reading	Override?	Eq Meter	Actual	LTD

## PM SERVICE

Type	Cycle	Next Due	Description
V	0 - MONTHS	02/10/2019	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	765	0.00000	Gas

## NOTES

1/11/19 1 hr B.B.



## Work Order Task List

Repair Code: PMV BS

Equipment: charea5td

Work Order: 0000020493

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					

WO Company: Gas King County Landfill Gas

WO Department: 7572 Waste Water, LF Gas

WO Shop: Gas Landfill Gas

Equipment: charea6td License: na

Location: 20

Color:

Year: 2010

Serial: na

Make: UD

Engine:

Model: UD

Class: ZZZZZZZGS: Landfill Gas - not classified

## TECHNICIAN COPY

**WO#: 0000020475**

Date In: 12/31/2018 09:04

Date Promised: 01/01/2019 09:04

Date Out: 00:00

WO Status: A Last WO#: 0000020377

WO Priority: Last WO Date: 12/03/2018

Track DownTime: Y Operator: jd

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	12/10/2018	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 BS

Equipment: charea6td

Work Order: 0000020475

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	/				

1-15-19

35 min.

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

Equipment: charea6 License: na

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

## TECHNICIAN COPY



**WO#: 0000020658**

Date In: 01/22/2019 10:08

Date Promised: 01/23/2019 10:08

Date Out: 00:00

WO Status: A Last WO#: 0000020638

WO Priority: Last WO Date: 01/22/2019

Track DownTime: Y Operator: jd

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	01/10/2019	Gas System
S	0 - MONTHS	02/28/2019	Scheduled Inspection
T	0 - MONTHS	01/10/2019	Stormwater
V	0 - MONTHS	01/10/2019	Cover System
W	W - WEEKS	01/21/2019	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	765	0.00000	Gas
PMT BS	PM Service   PM Stormwater   Billable   Scheduled, Target	0	765	0.00000	Gas
PMV BS	PM Service   PM Cover System   Billable   Scheduled, Target	0	765	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: 2/8/19

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

Equipment: charea5 License: na

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

## TECHNICIAN COPY



**WO#: 0000020657**

Date In: 01/22/2019 09:56

Date Promised: 01/23/2019 09:56

Date Out: 00:00

WO Status: A Last WO#: 0000020526

WO Priority: Last WO Date: 12/31/2018

Track DownTime: Y Operator: jd

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	01/10/2019	Gas System
T	0 - MONTHS	01/10/2019	Stormwater
V	0 - MONTHS	01/10/2019	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	765	0.00000	Gas
PMT BS	PM Service   PM Stormwater   Billable   Scheduled, Target	0	765	0.00000	Gas
PMV BS	PM Service   PM Cover System   Billable   Scheduled, Target	0	765	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: 2/8/19

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

Equipment: charea5td License: na

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

## TECHNICIAN COPY



WO#: 0000020604

Date In: 01/18/2019 11:03

Date Promised: 01/19/2019 11:03

Date Out: 00:00

WO Status: A Last WO#: 0000020493

WO Priority: Last WO Date: 12/31/2018

Track DownTime: Y Operator: jd

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	02/10/2019	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	0.00000	Gas

## NOTES



## Work Order Task List

Repair Code: PMV BS

Equipment: charea5td

Work Order: 0000020604

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	/				

2/19/19

40 min.

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

FW

Equipment: charea6td License: na

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

## TECHNICIAN COPY



WO#: 0000020599

Date In: 01/18/2019 10:58  
 Date Promised: 01/19/2019 10:58  
 Date Out: 00:00

WO Status: A Last WO#: 0000020475  
 WO Priority: Last WO Date: 12/31/2018  
 Track DownTime: Y Operator: jd

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	01/10/2019	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	765	0.00000	Gas

## NOTES

## Work Order Task List

Repair Code: PMV BS

Equipment: charea6td

Work Order: 0000020599

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	///				

2/6/19 30 min

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

Equipment: charea5 License: na

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

## TECHNICIAN COPY



**WO#: 0000020797**

Date In: 02/25/2019 09:37

Date Promised: 02/26/2019 09:37

Date Out: 00:00

WO Status: A Last WO#: 0000020657

WO Priority: Last WO Date: 01/22/2019

Track DownTime: Y Operator: jd

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	03/10/2019	Gas System
T	0 - MONTHS	03/10/2019	Stormwater
V	0 - MONTHS	03/10/2019	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	763	0.00000	Gas
PMT BS	PM Service   PM Stormwater   Billable   Scheduled, Target	0	763	0.00000	Gas
PMV BS	PM Service   PM Cover System   Billable   Scheduled, Target	0	763	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: 3/6/19

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

Equipment: charea6 License: na

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

## TECHNICIAN COPY



**WO#: 0000020798**

Date In: 02/25/2019 09:38

Date Promised: 02/26/2019 09:38

Date Out: 00:00

WO Status: A Last WO#: 0000020742

WO Priority: Last WO Date: 02/25/2019

Track DownTime: Y Operator: jd

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	03/10/2019	Gas System
S	0 - MONTHS	02/28/2019	Scheduled Inspection
T	0 - MONTHS	03/10/2019	Stormwater
V	0 - MONTHS	03/10/2019	Cover System
W	W - WEEKS	02/04/2019	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	763	0.00000	Gas
PMT BS	PM Service   PM Stormwater   Billable   Scheduled, Target	0	763	0.00000	Gas
PMV BS	PM Service   PM Cover System   Billable   Scheduled, Target	0	763	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: 3/6/19

FW

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

Equipment: charea6td License: na

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

## TECHNICIAN COPY



WO#: 0000020745

Date In: 02/25/2019 08:44

Date Promised: 02/26/2019 08:44

Date Out: 00:00

WO Status: A Last WO#: 0000020599

WO Priority: Last WO Date: 01/18/2019

Track DownTime: Y Operator: jd

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	03/10/2019	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	0.00000	Gas

## NOTES



## Work Order Task List

Repair Code: PMV BS

Equipment: charea6td

Work Order: 0000020745

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

3/4/19

30 min.

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

Equipment: charea5td License: na

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

## TECHNICIAN COPY



**WO#: 0000020754**

Date In: 02/25/2019 08:56

Date Promised: 02/26/2019 08:56

Date Out: 00:00

WO Status: A Last WO#: 0000020604

WO Priority: Last WO Date: 01/18/2019

Track DownTime: Y Operator: jd

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	02/10/2019	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	0.00000	Gas

## NOTES

## Work Order Task List

Repair Code: PMV BS

Equipment: charea5td

Work Order: 0000020754

Complete?	Step	Tasks	OK	Adjust	Repair	Replace	Comments
3/13	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	/				

35 m