April 5, 2019
File No. 02219702.00

Mr. Vincent Prieto
President
New Jersey Sports and Exposition Authority
One DeKorte Park Plaza
Lyndhurst, New Jersey 07071

SUBJECT: Ambient Air Monitoring Program
Evaluation Report
Keegan Landfill

Dear Mr. Prieto:

In February 2019, SCS Engineers (SCS) was retained to provide engineering services related to the Keegan Landfill in Kearny, New Jersey. NJSEA and SCS planned and implemented an ambient air monitoring program, beginning on February 22, 2019, in response to numerous odor complaints made against the Landfill. This letter summarizes the work performed and presents the data collected by SCS.

The letter report is organized as follows:

- Executive Summary
- Background
- Monitoring Methodology and Equipment
- Monitoring Results
- Findings and Conclusions
- Recommendations

EXECUTIVE SUMMARY

SCS performed ambient air monitoring for hydrogen sulfide (H_2S) over a three (3) week period from February 22 to March 14. Monitoring was performed at locations along Bergen Avenue and along the perimeter road of the Landfill within the Landfill property. The H_2S concentrations measured at all locations showed significant variability primarily due to wind direction and wind speed.

Hydrogen sulfide concentrations measured along Bergen Avenue and along the perimeter that is in the vicinity of the residential neighborhood, ranged from 0 to 0.620 ppm. H_2S concentrations measured at internal points along the Landfill perimeter road and adjacent to the wetlands, ranged from 0 to 1.4 ppm. We note that the reading of 1.4 ppm at the landfill toe of slope is the only reading

greater than 1 ppm during this monitoring event. While there were instantaneous readings exceeding the 30 ppb (0.030 ppm) regulatory threshold, our measurements at individual locations did not show a violation of the NJDEP standard of 30 ppb (0.030 ppm) or more for 30 minutes.

The monitoring data identified the southwest area of the Landfill as showing consistently-elevated readings during calm wind days, which led to our recommendation to perform surface emissions monitoring (SEM) of the southwest area. SCS performed the SEM in that area of the Landfill in March 2019 and the results are contained in a separate report.

BACKGROUND

The Keegan Landfill is located in the Town of Kearny, Hudson County, New Jersey. The Landfill is approximately 95 acres and accepts primarily construction and demolition waste. The Landfill is a single mound-type landfill, constructed atop a historical municipal solid waste (MSW) dump site. The Landfill began receiving construction and demolition (C&D) waste in 2009. The entire landfill footprint is surrounded by a bentonite-slurry cutoff wall, which includes a leachate collection system. Collected leachate is pretreated for hydrogen sulfide (H_2S), prior to discharge to the local sewer system.

The Landfill is bordered on the northeast and east by a freshwater marsh. Industrial facilities are located to the north and south of the Landfill. Industrial facilities also bound the site to the west, but quickly transition to residential properties.

As previously mentioned, numerous odor complaints have been made against the Landfill and a daily ambient air monitoring program was implemented in response to the complaints. The intent of the ambient air monitoring program was to estimate the source of the odors.

MONITORING METHODOLOGY AND EQUIPMENT

Methodology

Monitoring Locations

Ambient air monitoring for H_2S was initially performed at designated locations along the perimeter road of the Landfill (Points 1 through 52). Additional locations at the site entrance and along Bergen Avenue, were subsequently added to the monitoring program (Points 53 through 67). The locations were selected to assist in estimating whether emissions were coming from or towards the Landfill (see Drawing in Attachment 1) and to assist with determining the area of the landfill predominately contributing to emissions, if any.

We classified the monitoring locations as follows:

- West and south perimeter: Points 7 through 21, and 45 through 67.
- East and north internal: Points 22 through 44 are considered internal points, since they are adjacent to the wetland

- Internal: Points 1 through 6 were considered internal monitoring points, since they are farther from the property line and potential receptors.

The monitoring locations on the Landfill perimeter road were spaced at approximately 200-foot intervals and along Bergen Avenue, at 100-foot intervals. Distances between locations were measured using a hand-held measuring wheel, and monitoring locations were identified in the field with labeled stakes.

Days of Monitoring

Each day, monitoring generally commenced between 0600 and 0730. Monitoring was performed over a three-week period, including the following days: February 22, 23, 25 through 28; March 1 and 2, 4 through 8, and 11 through 14. A partial monitoring round was performed on March 15th.

On February 22, the first day of monitoring, we monitored 44 of the 52 points along the Landfill perimeter road. This initial round was performed as a screening round to ascertain the best spacing and route for monitoring. The location of the 44 points, as monitored on February 22, differ somewhat from the final locations, as shown on the site plan.

On February 23, 25 and 26, Points 1-52 were monitored along the Landfill perimeter road at the locations shown on the drawing in **Attachment 1**. Points 1 through 13 were monitored a second time each day.

On February 27, fifteen (15) additional points (53 through 67) were added to the monitoring program, starting at the site entrance and heading northwest along Bergen Avenue. An anemometer was used to obtain wind direction and speed at each monitoring location. Points 53-67 were monitored at the start of each day and a second time after the entire route was monitored.

On February 27 and thereafter, if strong odors were detected by the technician at any point, additional readings were taken in the vicinity of that location in an attempt to further locate and define the odor source.

Data Collection

At each point, ambient air was monitored approximately 3-4 feet above ground level. The readings were taken with the tip of the instrument facing towards the direction of headwinds as indicated by the hand-held anemometer and a hand held compass.

Basic regional meteorological conditions, including temperature, wind speed, wind direction, weather conditions and barometric pressure, were noted at the start of the day from online resources and recorded on data forms. Local wind speed and direction were generally measured at each monitoring location using the handheld anemometer.

Monitoring Equipment and Calibration

A Jerome Model 631X meter was utilized for measuring H_2S. The equipment type, serial number and certification of calibration is included in **Attachment 2**. At the commencement of every daily monitoring event, the hydrogen sulfide meter was regenerated and zeroed, per the manufacturer's recommendations.

A handheld Kestrel Model 4500 anemometer was used to measure wind speed and direction during monitoring (Serial No. 735106).

Calibration

The Jerome 631-X meter's gold film sensor is inherently stable and does not require frequent field calibration. The Jerome 631-X was factory calibrated using laboratory equipment containing NIST traceable permeation tubes, on January 11, 2019.

Calibration Precision

In accordance with the manufacturer's recommendations, the Jerome meter was regenerated and zero adjusted prior to the start of monitoring each day. Sensor regeneration is needed to clear the 631-X sensor of any accumulated hydrogen sulfide. The meter requires AC power during the regeneration process to thermally regenerate the sensor. When the sensor regeneration is completed, the meter is zeroed using the zero adjust and zero filter.

Instrument Response Time

After the initial calibration, the Jerome 631-X meter was operated with a response time of 30 seconds. This is the manufacturer's recommended response time for samples with concentrations ranging between 0.001 and 0.099 ppm H_2S for an accuracy of +/- 0.003 ppm at 0.050 ppm.

MONITORING RESULTS

Daily weather conditions and measured H_2S concentrations from each monitoring event is documented on forms provided in **Attachment 3**. Additional regional weather condition data, for Newark Airport, is provided in **Attachment 4** to show the prevailing wind conditions for the overall area, barometric pressure and prior day's rainfall amount. The prevailing wind conditions measured at Newark influence the top plateau (at higher elevations) of the Landfill. The local wind direction and speeds measured at each monitoring location (at lower elevations) were heavily influenced by the surrounding terrain, resulting in high variability during each monitoring event. As expected, the local wind direction and speed did not correlate with the regional hourly data measured at Newark Airport.

A summary table of the daily maximum and minimum H_2S concentrations, and daily maximum and average wind speeds is provided in **Attachment 5**. Graphs of daily maximum H_2S concentrations and wind speeds are also provided in **Attachment 5.** Graphs of H_2S concentrations and wind speeds measured at each perimeter and internal monitoring location on the highest average wind speed day (February 28) and the lowest average wind speed day (March 5) are included in **Attachment 5.**

Readings above 0.030 ppm

NJDEP considers H_2S concentrations in excess of 30 ppb (0.030 ppm), over a 30-minute period at the property boundary, as a violation of N.J.A.C. 7:27–7.3 and requires corrective action. While we did not continuously monitor one location for 30 minutes, we used 30 ppb (0.030 ppm) as the threshold for further evaluation regarding the H_2S concentrations.

H_2S concentrations greater than 0.030 ppm were measured on eight (8) out of 18 monitoring days at perimeter monitoring locations and 15 out of 17 monitoring days at internal locations. H_2S

concentrations greater than 0.030 ppm were measured at all four cardinal directions around the landfill (north, south, east and west), during different monitoring days and appear dependent on wind direction, as the majority of the elevated concentrations were measured downwind of the landfill. On calm days, the majority of readings over the 0.030 ppm threshold were observed near the southwest toe of slope.

The highest H_2S concentration at a perimeter monitoring location was 0.620 ppm at point No. 66 on March 8. Winds were calm on this day. This location is at the western boundary of the landfill along Bergen Avenue. On the same day, the highest H_2S concentration measured at internal monitoring point No. 4 was 0.520 ppm. This location is at the southwest toe of slope.

March 5 was another calm day and the maximum daily H_2S concentration of 1.400 ppm was measured at internal monitoring point No. 3 (southwest toe of slope). On the same day, the maximum daily H_2S concentration at perimeter monitoring point No. 15 was 0.102 ppm. This location is on the west side of the landfill, north of Bergen Avenue.

The lowest daily maximum concentration measured at the perimeter locations occurred on March 7 and March 11, when winds were generally from the west. The lowest daily maximum concentration measured at the internal locations occurred on February 26, also with winds generally from the west.

Effect of Barometric Pressure

Barometric pressure typically influences emissions from landfills. During periods of decreasing barometric pressure, landfill emissions can increase as the pressure of the landfill gas generated in the landfill may be higher than the barometric pressure. Conversely, as barometric pressure increases, landfill emissions tend to decrease as the pressure in the atmosphere is pushing against the landfill.

The barometric pressure measured over the days of the monitoring program are relatively constant (see Newark Airport data in **Attachment 4**). The lowest daily maximum concentrations measured at an internal monitoring location occurred on February 26 (0.020 ppm) and at a perimeter monitoring location occurred on March 7 and 11 (0.009 ppm), The corresponding barometric pressures on those days are 30.4, 30.3, and 30.1 inches of mercury (in-Hg), respectively. The barometric pressure for these days was relatively constant as shown on Exhibits 4-1, 4-2 and 4-3 in **Attachment 4**.

The highest daily maximum concentrations, at an internal monitoring location, occurred on March 5 (1.400 ppm) and, at a perimeter monitoring location, on March 8 (0.620 ppm). The corresponding barometric pressure for these days was 30.1 and 30.4 in-Hg, respectively. The barometric pressure for these days was decreasing slightly as shown on Exhibits 4-4 and 4-5 in **Attachment 4**. Therefore, we note a slight correlation between falling barometric pressure and high concentrations, as measured at the internal and perimeter monitoring locations.

Effect of Wind

The graphs in **Attachment 5,** generally indicate that days with higher regional winds result in lower measured concentrations at the perimeter locations. On March 5, the average local wind speed was 2.3 mph, indicating a generally calm day. On this day, we measured the highest H_2S concentration at an internal monitoring point No. 3 (1.400 ppm).

For additional analysis, we lowered the threshold to 0.010 ppm and highlighted the regional wind direction and the monitoring points with concentrations greater than or equal to 0.010 ppm (see site plans for each day in **Attachment 6**). The regional wind speed and direction from Newark Airport, as applicable to the top plateau area of the Landfill, is noted on each drawing along with barometric pressure and temperature. If on-site, local wind data was notably different than the Newark Airport wind data, it is noted on the site plan.

FINDINGS AND CONCLUSIONS

Measurement of hydrogen sulfide concentrations in ambient air are subject to numerous influences including wind speed/lack of wind, direction, gusts, fluctuations in air temperature, equipment sensitivity and technician operation of equipment. Measurements are generally not repeatable and highly variable. Measurements taken by the same meter in the same location one minute apart can be very different.

However, the H_2S concentrations measured over the three-week period indicate that the Landfill is likely contributing to the H2S-related odor complaints in the surrounding community. We did not investigate or identify other potential odor sources in the vicinity, such as sewers or other industrial activities. Also, historical and recent odor complaint information was not reviewed in conjunction with the data collected to confirm that complaints coincide with wind direction and onsite data collected.

As shown in the summary table in **Attachment 5**, there are numerous readings exceeding the 0.030 ppm regulatory threshold, albeit the exceedances were not continuous for a 30-minute period and therefore not an exceedance of the NJDEP standard of 30 ppb (0.030 ppm) or more for 30 minutes . There are higher readings closer to the Landfill on calm wind days and lower readings overall on windy days. As expected, lack of wind speed and direction appear to play a major role in the measured concentrations.

The Figures in **Attachment 6** show a general correlation between wind direction and the area of the Landfill with elevated concentrations. While not all data correlates, and there were locations on the windward side of the Landfill without elevated readings, there is enough of a correlation to indicate that the Landfill is contributing to the elevated concentrations.

The wind direction and the wind speeds were highly variable during the 3-week period, providing a good cross section of variable conditions that could affect the measurements. The graph of maximum concentrations versus wind speed provide a general correlation of lower wind speeds to higher concentrations of H_2S, as might be expected (see graph in **Attachment 5**).

The majority of the H_2S concentrations greater than 0.030 ppm appear downwind of the landfill at any given monitoring day with wind conditions. The southwest area of the landfill near monitoring points 3, 4 and 5 and the points adjacent to the Bergen Avenue (7-13, 61-67) consistently showed the highest H_2S readings during calm wind conditions. This could indicate that H_2S emissions are predominately from this area of the landfill.

RECOMMENDATIONS

After preliminary review of the ambient air monitoring data, we verbally recommended to NJSEA to perform surface emission monitoring (SEM) in the southwest area of the Landfill to identify areas of emissions from this area of the landfill. SEM in the southwest area of the Landfill was completed on

March 18, 2019 and the results of that monitoring is presented in a letter report dated March 26, 2019. We recommend surface emissions monitoring of the remainder of the landfill be conducted at a future date during calm wind days.

Additionally, we recommend improvements to daily and intermediate cover to minimize emissions and odors from the Landfill.

We recommend installation of an active LFG collection and control system. A well-designed and operated LFG collection and control system is the best management practice for LFG-related odors.

Please review and call to discuss.

Sincerely,

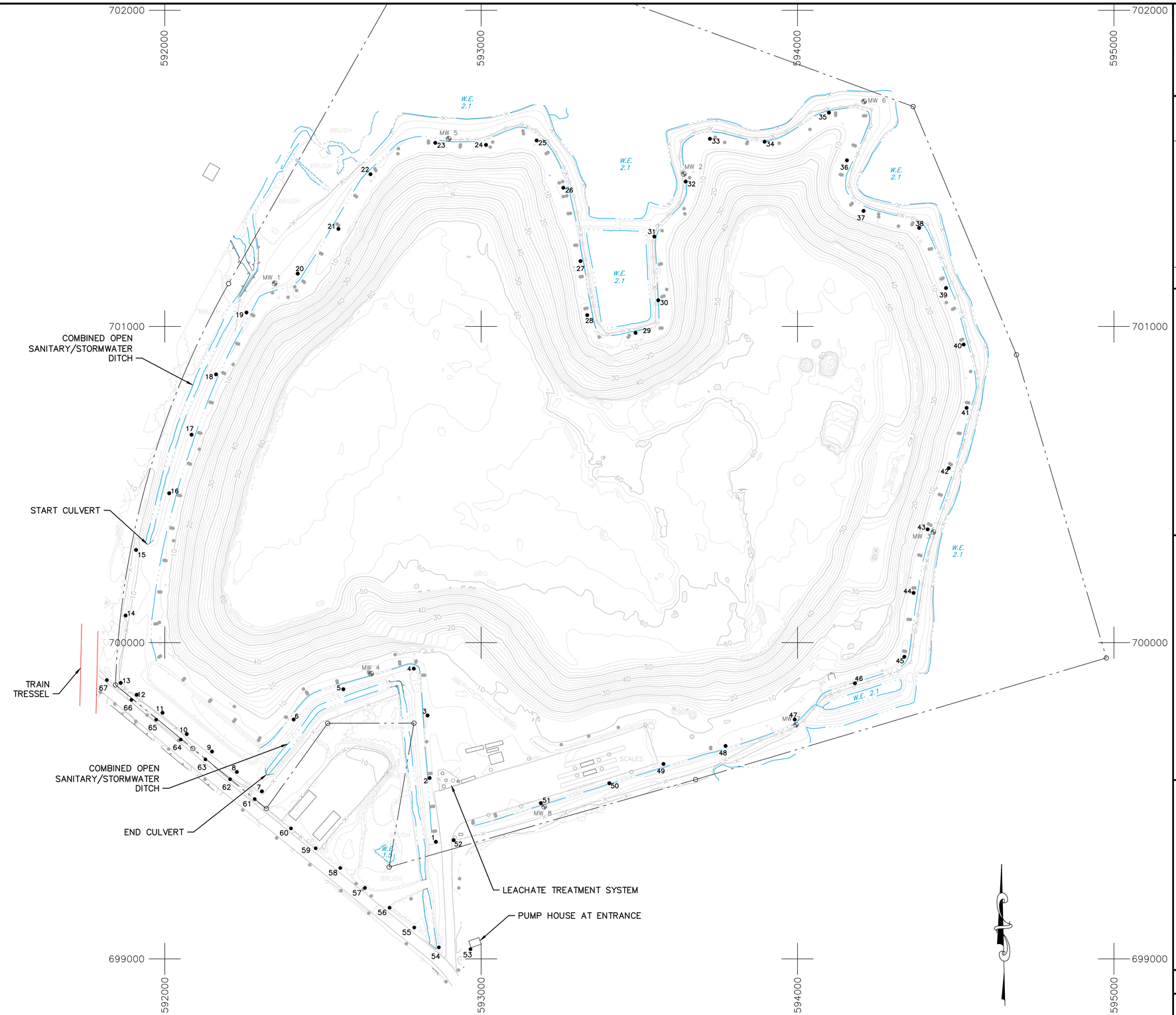
Lisa K. Wilkinson, P.E.
Project Director I
SCS ENGINEERS

Gregory P. McCarron, P.E.
Project Director II
SCS ENGINEERS

cc: J. Stewart, Lowenstein Sandler

Attachment 1

0 300 600 900
SCALE IN FEET



150 75 0 150 300
SCALE: 1"=150'

LEGEND:

- PROPERTY LINE
- 30 EXISTING CONTOUR
- VEGETATION LINE
- MW GROUND WATER MONITORING WELL
- 60 MONITORING LOCATION

REFERENCES:

1. FEATURES DEPICTED BASED ON DRAWING ENTITLED 'EXISTING TOPOGRAPHY, KEEGAN LANDFILL' DATE OF AERIAL FLIGHT IS 03-17-18, PREPARED BY KUCERA INTERNATIONAL INC., DATED 3-17-18. (FILENAME: KEEGAN 2018 REVISED.DWG FILE DATE 5-24-2018)
2. BOUNDARY DEPICTED WAS TAKEN FROM BEST AVAILABLE SOURCES. ALL BEARINGS AND DISTANCES SHOWN WERE DERIVED FROM OR CALCULATED FROM DATA FURNISHED KUCERA INTERNATIONAL BY NJSEA AND SHOULD NOT BE USED AS THE LEGAL BOUNDARY OF RECORD.
3. COORDINATE AND ELEVATION DATA FOR MONITORING WELLS WERE PROVIDED BY NJSEA.

NO.	REVISION	DATE
A	ISSUED FOR CLIENT REVIEW	2/28/2019

SHEET TITLE
MONITORING SITE PLAN

PROJECT TITLE
MONITORING SUPPORT KEEGAN LANDFILL

CLIENT
NEW JERSEY SPORTS & EXHIBITION AUTHORITY
1 DE KORTE PARK PLAZA, POB 640
LYNDHURST, NJ 07071

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
4 EXECUTIVE BLVD, SUITE 201, SUFFERN, NY 10901
PH. (845) 357-1510 FAX. (845) 357-1049

PROJ. NO. 02219702.00
DWN. BY: SHY
Q/A RVW BY: LKW
DSN. BY: LKW
CHK. BY: LKW
APP. BY: LKW

CADD FILE: MONITORING SP
DATE: 2/28/2019
SCALE: AS SHOWN
DRAWING NO. 1 of 1

L:\PROJECTS\02219702.00\DRAWINGS\MONITORING SP.DWG layout: SP plotted on: 2/28/2019 4:10 PM Yovchak, Sharon

Attachment 2

3375 N. Delaware Street, Chandler, AZ 85225
800.528.7411 | (f) 602.281.1745 | azic.com

Certification of Instrument Calibration

AMETEK Brookfield - New Unit
3375 N. Delaware Street
Chandler, AZ 85225

RMA # 2624267

This is to certify that the Jerome **X631 0101** Gold Film Hydrogen Sulfide Analyzer, Serial Number **3066**, with Sensor Number **18-8-8-R2BS**, was calibrated with standard units traceable to NIST.

Calibration Status as Received: **New**

		Actual		Calibration Gas		Allowable Range
Incoming:	Range 1		ppm H2S		ppm H2S	+/- 6%
	RSD %					<5%
Outgoing:	Range 1	0.506	ppm H2S	0.500	ppm H2S	+/- 6%
	RSD %	1.48				<5%

Calibration Status as Left: **New**

Estimated Uncertainty of Calibration System: 2.8%

Calibration Date: 11-Jan-2019 Recalibration Date: 10-Jan-2020

Temperature °F: 72.30 % Relative Humidity: 35.80

Approved By: Cheryl Hradek Date Approved: 11-Jan-2019
Title: Cheryl Hradek - Quality Control

Equipment Used:

H2S Calibration Standard: CC-230020 **NIST#:** 1417575
Calibration Date: 30-May-2017 **Calibration Date Due:** 31-May-2020

Mass Flow Controller B: 124604 **NIST#:** 215457
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Mass Flow Controller D: 124602 **NIST#:** 215454
Calibration Date: 13-Dec-2018 **Calibration Date Due:** 13-Dec-2019

Digital Multimeter: 74620534 **NIST#:** 7003079
Calibration Date: 16-Feb-2018 **Calibration Date Due:** 16-Feb-2019

Flowmeter: US04I26032 **NIST#:** 1813; 1817; 1796
Calibration Date: 17-Oct-2018 **Calibration Date Due:** 18-Oct-2019

Calibration Procedure Used: 730-0032

AMETEK Brookfield certifies that the above listed instrument meets or exceeds all published specifications and has been calibrated using standards whose accuracy are traceable to the NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY within the limitations of the Institute's calibration services, or have been derived from accepted values of natural physical constants, or have been derived by the ratio type of self-calibration techniques.
Disclaimer: Any unauthorized adjustments, removal or breaking of QC seals, or other customer modifications on your Jerome Analyzer WILL VOID this factory calibration. Because any of the above acts could affect the calibration and readings of the instrument, their certification will no longer be valid and, further, AMETEK Brookfield WILL NOT be responsible for any liabilities created as a result of using the instrument after such adjustments, seal removal, or modifications.
As long as a functional test is within range, according to the procedure outlined in the Operator's Manual, the instrument is performing correctly.

This document shall not be reproduced, except in full, without the written approval of AMETEK Brookfield.

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services LLC
92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 44911
Description Arizona Instruments 631-X Hydrogen Sulfide Analyzer
Calibrated 2/18/2019 3:57:20PM

Manufacturer Arizona
Model Number 631-X
Serial Number/ Lot Number 3066
Location New Jersey
Department

State Certified
Status Pass
Temp °C 22.8
Humidity % 19

Calibration Specifications

Group # 1
Group Name
Test Performed: Yes **As Found Result: Pass** **As Left Result: Pass**

Test Instruments Used During the Calibration (As Of Cal Entry Date)

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Last Cal Date/ Opened Date	Next Cal Date / Expiration Date
NJ HYDROGEN SULFIDE - 872248	NJ Hydrogen Sulfide 10 PPM - 872248	Pine Environmental Services, Inc.	31691	872248		1/1/2020

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Daniel Teller

All instruments are calibrated by Pine Environmental Services LLC according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services LLC of any defect within 24 hours of receipt of equipment
Please call 800-301-9663 for Technical Assistance

Attachment 3

H_2S Perimeter Monitoring-2/22/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation	Wind	Type	Time	Amount (ft)
2/22/2019	40° F	30.37	46%	0%	13 NW	Low	4:52 AM	-1
						High	10:50 AM	6.2
						Low	5:21 PM	-1.1
						High	11:25 PM	6.1

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"
(2) Tide Data from Accuweather.com, data for station "Amtrak RR. Swing Bridge"

Technician:	Camilo J Aponte
Meter Make:	Arizona Instrument
Model:	Jerome 631X
Regeneration:	Yes
Time Start:	10:00 AM
Time End :	12:00 PM

PERIMETER MONITORING POINTS[5]		
Monitoring Point # [3][4]	H_2S Reading (ppm)	Comments
7	0.006	Corresponds to monitoring point 7 on site map
8	0.001	
9	0.001	
10	0.001	
11	0.002	
12	0.002	
13	0.002	
14	0.002	
15	0.002	
16	0.002	
17	0.002	
18	0.002	
36	0.015	Corresponds to monitoring point 45 on map
37	0.007	
38	0.015	Corresponds to monitoring point 47 on map
39	0.05	Corresponds to monitoring point 48 on map
40	0.008	
41	0.005	
42	0.003	
43	0.003	
44	0.003	

INTERNAL MONITORING POINTS[5]		
Monitoring Point # [3][4]	H_2S Reading (ppm)	Comments
1	0.015	Corresponds to monitoring point 1 on site map
2	0.005	Corresponds to monitoring point 2 on site map
3	0.024	Corresponds to monitoring point 3 on site map
4	0.037	Corresponds to monitoring point 4 on site map
5	0.085	Corresponds to monitoring point 5 on site map
6	0.011	Corresponds to monitoring point 6 on site map
19	0.002	
20	0.002	
21	0.002	
22	0.002	
23	0.002	
24	0.002	
25	0.001	
26	0.001	
27	0.002	
28	0.002	
29	0.002	
30	0.003	
31	0.002	
32	0.002	
33	0.003	
34	0.003	
35	0.007	

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds
(5) Monitoring point # does not match site map in attachment 1, unless otherwise stated.

H_2S Perimeter Monitoring-2/23/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind	Type	Time	Amount (ft)
2/23/2019	43° F	30.4	55%	0	8 N	High	3:48 AM	6.01
						Low	10:24 AM	-0.29
						High	4:00 PM	5.99
						Low	10:36 PM	-0.08

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Tide data from tidesandcurrents.noaa.gov, for station "Bergen Point West Reach, NY "

Technician: Camilo J Aponte
Meter Make: Arizona Instrument
Model: Jerome 631X
Regeneration: Yes
Time Start: 6:30 AM
Time End : 10:30 AM

PERIMETER MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
7	0.069
8	0.102
9	0.17
10	0.057
11	0.037
12	0.003
13	0.003
14	0.004
15	0.003
16	0.003
17	0.002
18	0.002
19	0.003
20	0.002
21	0.002
45	0.004
46	0.004
47	0.004
48	0.004
49	0.004
50	0.005
51	0.004
52	0.006

INTERNAL MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
1	0.041
2	0.022
3	0.027
4	0.044
5	0.134
6	0.112
22	0.002
23	0.002
24	0.003
25	0.003
26	0.003
27	0.003
28	0.002
29	0.003
30	0.003
31	0.003
32	0.003
33	0.003
34	0.003
35	0.003
36	0.002
37	0.003
38	0.003
39	0.003
40	0.003
41	0.003
42	0.003
43	0.003
44	0.003

Round 2 Time Start: 10:30 AM
Time End : 11:30 AM

PERIMETER MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
7	0.006
8	0.005
9	0.015
10	0.029
11	0.004
12	0.004
13	0.003

INTERNAL MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
1	0.006
2	0.008
3	0.008
4	0.008
5	0.025
6	0.008

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring-2/25/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind	Type	Time	Amount (ft)
2/25/2019	31.5° F	29.6	35%	0	32 mph WNW	High	5:06 AM	5.58
						Low	1:12 PM	-0.93
						High	6:18 PM	2.54

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Tide data from tidesandcurrents.noaa.gov, for station "Bergen Point West Reach, NY "

Technician:	Camilo J Aponte
Meter Make:	Arizona Instrument
Model:	Jerome 631X
Regeneration:	Yes
Time Start:	7:00 AM
Time End :	8:36 AM

PERIMETER MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
7	0.000
8	0.000
9	0.001
10	0.001
11	0.002
12	0.002
13	0.002
14	0.001
15	0.002
16	0.002
17	0.003
18	0.002
19	0.003
20	0.003
21	0.003
45	0.009
46	0.007
47	0.004
48	0.006
49	0.014
50	0.003
51	0.004
52	0.004

INTERNAL MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
1	0.001
2	0.000
3	0.000
4	0.000
5	0.000
6	0.001
22	0.003
23	0.004
24	0.003
25	0.003
26	0.003
27	0.004
28	0.026
29	0.020
30	0.048
31	0.003
32	0.003
33	0.003
34	0.004
35	0.004
36	0.004
37	0.005
38	0.004
39	0.004
40	0.004
41	0.017
42	0.025
43	0.026
44	0.016

Round 2		
	Time Start:	8:39 AM
	Time End :	9:04 AM

PERIMETER MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
7	0.004
8	0.004
9	0.004
10	0.004
11	0.004
12	0.004
13	0.004

INTERNAL MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
1	0.004
2	0.004
3	0.004
4	0.004
5	0.004
6	0.004

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring-2/26/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind	Type	Time	Amount (ft)
2/26/2019	28° F	30.4	35%	0	18 mph WNW	Low	12:30 AM	-1.55
						High	7:12 AM	3.2
						Low	12:42 PM	-1.58
						High	7:00 PM	3.05

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"
(2) Tide data from tidesandcurrents.noaa.gov, for station "Bergen Point West Reach, NY "

Technician:	Camilo J Aponte
Meter Make:	Arizona Instrument
Model:	Jerome 631X
Regeneration:	Yes
Time Start:	7:30 AM
Time End :	9:00 AM

PERIMETER MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
7	0.002
8	0.003
9	0.003
10	0.004
11	0.005
12	0.004
13	0.003
14	0.004
15	0.005
16	0.005
17	0.005
18	0.005
19	0.004
20	0.004
21	0.004
45	0.008
46	0.009
47	0.011
48	0.009
49	0.005
50	0.013
51	0.005
52	0.005

INTERNAL MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
1	0.003
2	0.002
3	0.001
4	0.002
5	0.002
6	0.001
22	0.004
23	0.005
24	0.005
25	0.005
26	0.005
27	0.005
28	0.005
29	0.005
30	0.005
31	0.004
32	0.004
33	0.005
34	0.005
35	0.005
36	0.006
37	0.005
38	0.005
39	0.004
40	0.004
41	0.004
42	0.005
43	0.005
44	0.006

Round 2		
	Time Start:	9:02 AM
	Time End :	9:26 AM

PERIMETER MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
7	0.006
8	0.005
9	0.005
10	0.005
11	0.005
12	0.005
13	0.006

INTERNAL MONITORING POINTS	
Monitoring Point # [3][4]	H2S Concentration (ppm)
1	0.005
2	0.005
3	0.006
4	0.02
5	0.007
6	0.005

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring-2/27/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
2/27/2019	28° F	30.4	48%	0%	ESE 9	High	3:01 AM	5.2
						Low	9:47 AM	0.5
						High	3:31 PM	4.4
						Low	10:02 PM	0.7

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X	Barometric	
Regeneration:	Yes	Pressure	
Anemometer make:	Kestrel	Start :	30.4
Anemometer model:	4500	Barometric	
Time Start:	6:36 AM	Pressure	
Time End :	9:50 AM	End :	30.4

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.005	6:36	-	0
54	0.002	6:40	N	1.9
55	0.003	6:46	N	1
56	0.005	6:50	-	0
57	0.004	6:56	-	0
58	0.005	7:00	-	0
59	0.005	7:06	-	0
60	0.011	7:11	-	0
61	0.007	7:16	-	0
62	0.015	7:21	N	1.8
63	0.013	7:26	N	2.7
63 (facing West)	0.011	7:27	N	2.7
63 + 20' North	0.029	7:31	N	2.6
64 + 20' North (facing west)	0.009	7:32	N	2.6
64	0.005	7:36	NE	2.4
65	0.006	7:42	NW	1.7
66	0.006	7:48	NW	1
67	0.008	7:53	N	1.2
7	0.006	8:24	-	0
8	0.006	8:26	NE	3.1
9	0.005	8:28	NE	3
10	0.006	8:30	NE	2.5
11	0.006	8:32	NE	1.8
12	0.006	8:33	NE	1.9
13	0.006	8:34	NNE	1.6
14	0.006	8:37	NNE	1.1
15	0.006	8:39	NNE	1.4
16	0.006	8:41	-	0
17	0.008	8:43	NNE	1.3
18	0.006	8:45	N	2.7
19	0.006	8:47	N	2.6
20	0.006	8:49	N	2.3
21	0.006	8:51	NE	1.9
45	0.006	9:37	-	0
46	0.006	9:39	N	1.6
47	0.006	9:41	NNW	2
48	0.006	9:42	-	0
49	0.007	9:44	WSW	3
50	0.007	9:47	NNE	2.7
51	0.007	9:48	SW	1.8
52	0.007	9:50	NNE	1.7

INTERNAL MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.006	8:07	-	0
2	0.008	8:10	N	1
3	0.006	8:11	N	2.8
4	0.006	8:13	NE	1.7
5	0.006	8:15	NE	2.6
6	0.006	8:20	NE	3.1
22	0.006	8:53	N	1.2
23	0.006	8:55	-	0
24	0.007	8:57	NNE	1.8
25	0.006	8:59	N	1.6
26	0.006	9:00	-	0
27	0.006	9:01	-	0
28	0.007	9:03	-	0
29	0.007	9:04	NNE	1.6
30	0.006	9:06	-	0
31	0.007	9:08	-	0
32	0.006	9:11	NNW	1.1
33	0.007	9:13	N	1.8
34	0.007	9:15	-	0
35	0.006	9:17	-	0
36	0.006	9:18	N	2.1
37	0.006	9:19	N	1
38	0.006	9:20	N	1.3
39	0.006	9:21	-	0
40	0.006	9:23	N	1.2
40-41	0.026	9:24	W	2.3
40-41 (facing North)	0.006	9:25	W	2.1
40-41 + 20' WSW	0.006	9:26	W	2.2
40-41 + 20' WSW (facing North)	0.013	9:28	W	1.8
41	0.006	9:30	W	1.4
42	0.006	9:31	-	0
43	0.006	9:32	NW	1.6
44	0.006	9:34	N	1.2

Round 2 Time Start: 9:53 AM
Time End : 10:16 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.007	9:53	ENE	3
54	0.009	9:56	SSW	2.7
55	0.007	9:58	-	0
56	0.007	10:00	N	1.8
57	0.007	10:02	NNE	1.1
58	0.007	10:03	NNE	1.8
59	0.007	10:05	NNE	1.2
60	0.007	10:07	-	0
61	0.007	10:08	-	0
62	0.008	10:09	N	2.6
63	0.007	10:10	NNE	2.7
64	0.008	10:11	NNE	2.7
65	0.007	10:13	NNE	2.8
66	0.007	10:15	NNE	3.4
67	0.007	10:16	NNE	2.7

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring-2/28/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
2/28/2019	29° F	30.1	48%	0	NNW 13	High	4:01 AM	5.1
						Low	10:45 AM	0.5
						High	4:11 PM	4.3
						Low	10:57 PM	0.7

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"
(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X	Barometric	
Regeneration:	Yes	Pressure	
Anemometer make:	Kestrel	Start :	30.02 in Hg
Anemometer model:	4500	Barometric	
Time Start:	6:36 AM	Pressure End	
Time End :	9:12 AM	:	30.01 in Hg

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.009	6:36	N	6.1
54	0.011	6:38	NNE	3
55	0.014	6:39	NNE	2.4
56	0.010	6:41	N	2.1
57	0.014	6:43	NNE	1.7
58	0.005	6:46	N	2
59	0.005	6:48	N	4.1
60	0.006	6:50	NNE	2.8
61	0.003	6:52	NNW	1.7
62	0.003	6:54	NNW	4.6
63	0.004	6:56	NNW	3.5
64	0.003	6:57	NNW	4.4
65	0.004	6:58	NW	1.8
66	0.004	6:59	NW	6.2
67	0.005	7:00	-	0
7	0.002	7:48	NW	8.2
8	0.002	7:50	NW	10.2
9	0.003	7:52	NNE	4
10	0.003	7:55	NNW	5.3
11	0.004	7:57	WNW	4.4
12	0.003	7:58	WNW	5.1
13	0.003	7:59	WNW	4
14	0.003	8:00	-	0
15	0.004	8:02	NNW	2.6
16	0.003	8:03	NNW	2.5
17	0.003	8:05	NNW	6.7
18	0.003	8:07	NNW	4.6
19	0.003	8:09	NNW	1.8
20	0.003	8:11	NNW	5.6
21	0.003	8:13	N	3
45	0.004	8:58	N	7.3
46	0.005	9:00	W	2.1
47	0.006	9:02	WNW	5.1
48	0.005	9:04	WNW	5.4
49	0.016	9:06	NW	12.8
50	0.018	9:08	N	11.7
51	0.009	9:10	NW	9.2
52	0.006	9:12	NNW	4.8

INTERNAL MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.016	7:10	NNE	6.1
2	0.014	7:12	N	7.1
3	0.025	7:15	N	2.8
3 (facing NW)	0.012	7:16	N	2.7
3	0.018	7:17	N	3.5
3 + (20' NW)	0.028	7:18	N	1.8
3 + (20' NW facing NW)	0.023	7:19	NNW	1.9
3 + (20' NE)	0.025	7:20	-	0
3 + (20' NE facing NW)	0.026	7:21	N	4.4
4	0.024	7:22	NNW	3.4
4 (facing NW)	0.027	7:23	N	1.6
4 (facing SE)	0.030	7:24	N	2.9
4 + (20' N)	0.025	7:25	N	3.5
4 + (20' N)	0.017	7:26	NW	2.5
4 + (20' N facing NW)	0.016	7:27	-	0
4 + (20' NW)	0.021	7:29	NW	2
4 + (20' NW facing NW)	0.010	7:30	NW	1.7
4 + (20' NW)	0.010	7:31	NW	1.7
4 + (20' NW facing SE)	0.022	7:32	NW	6.2
5	0.013	7:33	NW	7.8
5 + (10' S facing S)	0.021	7:34	-	0
5 (facing SE)	0.042	7:36	NNW	4.4
5 + (20' NW)	0.084	7:38	WNW	7.8
5 + (20' NE)	0.045	7:40	NE	7.4
5 + (20' NE facing NW)	0.042	7:41	NNW	7.4
5 + (40' ESE)	0.048	7:42	N	2.8
5 + (40' ESE facing ESE)	0.015	7:43	NNW	10
5 + (40' ESE)	0.023	7:44	NW	3.8
5	0.029	7:45	NW	10.8
6	0.019	7:46	NNE	6.4
6 (facing West)	0.009	7:47	NW	8.6
22	0.004	8:15	NNW	4
23	0.003	8:17	NNW	3.5
24	0.003	8:19	NNW	1.8
25	0.004	8:21	WNW	6
26	0.004	8:23	NNW	4.1
27	0.004	8:25	NNW	7.6
28	0.004	8:26	NW	5.1
29	0.004	8:27	N	7
30	0.003	8:28	NNW	3.2
31	0.004	8:30	NNW	1.8
32	0.004	8:32	NNW	4.5
33	0.003	8:34	N	6.4
34	0.003	8:36	N	4.2
35	0.004	8:38	N	5.1
36	0.013	8:39	NW	3.4
36 + (10' NW)	0.009	8:41	NW	2.8
36 + (10' NE)	0.004	8:43	NW	3.9
36 + (20' S)	0.006	8:45	NW	1.2
37	0.004	8:46	NW	4.1
38	0.004	8:47	NW	4.9
39	0.004	8:48	NW	7.3
40	0.004	8:49	NW	7
41	0.006	8:51	N	6.7
42	0.005	8:52	NW	5.5
43	0.004	8:56	N	9.2
44	0.004	8:57	NW	6.2

Round 2 Time Start: 9:15 AM
Time End : 9:34 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.004	9:15	NNW	6.9
54	0.005	9:17	NNW	3.1
55	0.005	9:18	NNW	12.8
56	0.004	9:20	NW	1.6
57	0.005	9:21	NW	8.1
58	0.004	9:23	NW	8.9
59	0.004	9:25	NW	2.2
60	0.005	9:26	NNW	3.1
61	0.004	9:27	NW	2.2
62	0.005	9:29	NNW	4.4
63	0.005	9:30	NNW	6.8
64	0.004	9:31	NW	7.8
65	0.005	9:32	NW	3.5
66	0.004	9:33	NW	8.2
67	0.004	9:34	NW	7

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/1/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/1/2019	26	30.3	72%	0.05	7 ENE	High	5:02 AM	5
						Low	11:37 AM	0.4
						High	5:36 PM	4.4
						Low	11:48 PM	0.6

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician: Camilo J Aponte
Meter Make: Arizona Instrument

Model: Jerome 631X
Regeneration: Yes
Anemometer make: Kestrel
Anemometer model: 4500
Time Start: 6:45 AM
Time End : 10:01 AM

Barometric Pressure Start : 30.33 in Hg
Barometric Pressure End : 30.32 in Hg

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.011	6:45	NNW	2.4
54	0.013	6:47	NW	2.1
55	0.019	6:49	NNW	-
56	0.033	6:51	NNW	2.1
56 (facing NW)	0.018	6:52	NNW	2.4
56	0.019	6:53	NNW	1.9
56 + (10' NE)	0.017	6:54	-	0
56 + (10' W)	0.016	6:55	NNW	1.4
57	0.015	6:57	NNW	1.5
58	0.024	6:58	NW	1.8
58 + (10' NE)	0.024	6:59	N	1
58 + (10' NE facing NW)	0.023	7:00	-	0
58 + (10' NE facing SW)	0.024	7:02	-	0
58	0.015	7:04	NNW	1.5
58 (facing NW)	0.015	7:06	NNE	0.9
58 + (10' NW)	0.028	7:07	N	1.1
58 + (10' NW facing NW)	0.024	7:08	-	0
58 + (10' NW facing SW)	0.027	7:09	-	0
59	0.02	7:10	NNW	1.5
59 (facing NW)	0.018	7:11	NNW	1.3
59 (facing NNE)	0.02	7:12	NNW	1.4
59 (facing SE)	0.018	7:13	NNW	1.7
59 + (10' NE)	0.016	7:14	N	1
59 + (10' NE facing NW)	0.017	7:15	NNW	1.3
59 + (10' NW)	0.015	7:16	N	1.4
59 + (10' NW facing NW)	0.016	7:17	-	0
60	0.019	7:19	NNW	1.3
61	0.05	7:20	NNW	1.6
61	0.035	7:21	N	1.5
61 (facing NW)	0.029	7:21	N	1.9
61 (facing SE)	0.065	7:22	NNW	1.7
61 + (10' NE)	0.04	7:23	N	2.2
61+ (10' NE facing NW)	0.056	7:24	N	2.5
61+ (10' NE facing SE)	0.025	7:25	NNW	4.2
61 + (10' NW)	0.013	7:26	N	2.3
61 + (10' NW facing NW)	0.019	7:27	N	2.5
61	0.029	7:27	N	1.3
62	0.025	7:28	N	9.2
62	0.049	7:28	NNW	4.3
62 (facing NW)	0.038	7:29	N	3.5
62 (facing SE)	0.088	7:30	N	3.6
62 + (20' N)	0.047	7:31	N	4.3
62+ (20' N facing NW)	0.023	7:32	N	4.1
62+ (20' NE)	0.051	7:34	NNW	3.9
62+ (20' NE facing NW)	0.035	7:35	NNE	4.7
62+ (20' NE facing SE)	0.04	7:36	NNW	2.1
62	0.081	7:37	N	3.8
62 (facing NW)	0.08	7:38	NNE	1.5
62 + (20' NW)	0.052	7:39	NNE	3.7
62 + (20' NW facing NW)	0.03	7:40	NNW	4.5
63	0.006	7:41	N	2.7
63	0.011	7:41	NNW	5.7
64	0.005	7:42	N	4.2
64	0.005	7:45	N	2.7
65	0.005	7:46	NNW	3.5
66	0.005	7:48	NNW	3.5
67	0.004	7:49	N	3.2

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
67 + (30' NW)	0.004	7:51	NNE	1.2
63	0.011	7:53	N	3.5
62	0	7:54	N	4
62 + (20' N)	0.01	7:55	N	3.6
61	0.013	7:57	N	2.2
7	0.026	8:33	N	3.7
7 + (20' NNE)	0.027	8:34	N	2.8
7 + (20' NW)	0.026	8:35	N	4.6
7	0.026	8:36	NNW	1.6
8	0.043	8:37	N	3.3
8	0.045	8:38	NNE	7.7
8 + (20' N)	0.054	8:39	N	5.1
8 + (20' NW)	0.028	8:40	NNW	4.5
8 + (20' NW facing NW)	0.005	8:40	NNW	4.4
9	0.012	8:41	N	6.4
9	0.010	8:41	N	6.7
10	0.004	8:42	N	4.8
11	0.004	8:44	N	3.8
12	0.004	8:46	NNW	5.4
13	0.004	8:47	NNW	3.3
14	0.005	8:50	NNW	3.2
15	0.004	8:52	NNW	1.3
16	0.005	8:54	NNW	1.8
17	0.005	8:56	NNW	3
18	0.004	8:58	NNW	2.6
19	0.004	9:00	NNW	1.2
20	0.004	9:03	NNW	2.2
21	0.004	9:06	NNW	2.4
45	0.004	9:48	NNE	2.9
46	0.004	9:50	NNE	2.1
47	0.004	9:52	NNE	5.3
48	0.004	9:54	NNE	3.5
49	0.004	9:56	NNE	5.5
50	0.005	9:57	NNE	3.6
51	0.005	9:59	NNE	4.6
52	0.011	10:01	NNE	3.1

H_2S Perimeter Monitoring - 3/1/2019 (Continued)

Round 2 Time Start: 10:03 AM
Time End : 10:50 AM

PERIMETER MONITORING POINTS				
Monitoring Point # (3)(4)	H_2S Concentration (ppm)	Time	Wind Direction(4)	Wind Velocity (mph)
53	0.004	10:03	NNW	2.3
54	0.005	10:05	NNE	2.6
55	0.006	10:07	NNE	2.4
56	0.004	10:09	N	1.5
57	0.006	10:10	NNW	1.7
manhole by 57	0.006	10:11	-	0
58	0.012	10:11	N	1.4
59	0.019	10:12	NE	2.5
59	0.015	10:13	NE	2.5
60	0.02	10:14	N	2.1
61	0.035	10:15	N	2.2
61	0.014	10:17	NNE	1.4
61 + (20' NE)	0.01	10:18	NNE	4.8
61	0.02	10:19	NNE	2.4
61 + (30' NW)	0.033	10:20	NNE	3.1
61 + (30' NNW)	0.023	10:21	NNE	3.3
61 + (30' NNW facing NW)	0.012	10:22	NNE	3.1
62	0.022	10:23	NNE	5.5
62	0.04	10:24	NNE	5.5
62 + (20' N)	0.027	10:25	NNE	5.3
62 + (20' N facing NW)	0.013	10:26	NNE	7.7
62	0.048	10:27	NNE	3.6
62 + (20' NW)	0.022	10:28	NNE	6.6
62 + (20' NW facing NW)	0.021	10:29	NNE	6.5
62 + (30' S)	0.027	10:30	NNE	6.8
63	0.051	10:31	NNE	3.8
63	0.025	10:32	NNE	3.8
63 + (10' N)	0.038	10:33	NNE	3.1
63 + (10' N facing NW)	0.039	10:34	NNE	4.2
63 + (30' NE)	0.035	10:35	NNE	5.1
63 + (20' NW)	0.056	10:36	NNE	2.9
63 + (20' NW facing NW)	0.012	10:37	N	3.2
63 + (20' NW)	0.034	10:38	NNE	5.1
63 + (30' NNW)	0.023	10:39	NNW	6.3
64	0.017	10:39	NNE	6
64 + (20' N)	0.003	10:40	NNE	3.8
65	0.003	10:41	N	5
66	0.025	10:41	N	3.7
66	0.013	10:42	NNE	3.8
67	0.043	10:43	-	0
67 + (40' NW)	0.028	10:44	-	0
Manhole under bridge	0	10:45	-	0
67 + (40' NW)	0.005	10:47	-	0
67	0.025	10:48	-	0
67 + (20' E)	0.026	10:49	NNE	4.5
between 66-67 on fence	0.04	10:50	NNE	4.8

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

INTERNAL MONITORING POINTS				
Monitoring Point # (3)(4)	H_2S Concentration (ppm)	Time	Wind Direction (4)	Wind Velocity (mph)
1	0.011	8:03	N	4.7
2	0.007	8:05	N	4.2
3	0.022	8:07	N	3.5
3	0.009	8:08	NNE	4.5
3 (facing NW)	0.018	8:09	NNE	4.4
3	0.016	8:10	NNE	5.2
4	0.053	8:11	N	2.8
4 (facing NW)	0.057	8:13	NNE	2.8
4 + (40' N)	0.007	8:14	N	1.3
4 + (40' NE)	0	8:15	N	4.1
4 + (40' NE facing NE)	0	8:15	N	4.4
4	0.022	8:16	NNE	3.7
4 + (50' SW)	0.051	8:17	NNE	2.2
4 + (50' SW facing SW)	0.006	8:18	N	1
4 + (50' SW)	0.031	8:19	N	2.9
4 + (50' SW facing SW)	0.026	8:20	NNE	2.3
4 + (30' NW)	0.034	8:21	NNE	2.4
4 + (30' NW facing NW)	0.091	8:22	N	3.5
5	0.026	8:23	NNE	4.3
5	0.029	8:24	N	3
5 + (20' NE)	0.032	8:25	NNE	2.8
5 + (20' NE facing NW)	0.062	8:26	N	2.1
5 + (20' NE)	0.065	8:27	NNE	4.6
5 + (30' N)	0.053	8:28	NNE	2.2
5 + (30' N facing NW)	0.048	8:29	NNE	5.3
5 + (20' NW)	0.029	8:30	NNE	5
5 + (20' NW facing NW)	0.041	8:31	NNE	4.7
6	0.017	8:32	NNE	4.9
22	0.005	9:08	N	2.6
23	0.004	9:10	N	2.4
24	0.004	9:12	N	3.4
25	0.004	9:14	N	3.5
26	0.004	9:15	N	2.1
27	0.004	9:17	NNW	2.6
28	0.004	9:19	NNW	2.2
29	0.004	9:21	N	1.8
30	0.004	9:23	N	3.5
31	0.004	9:24	NNW	1.8
32	0.004	9:25	N	4.6
33	0.004	9:27	NNE	2.1
34	0.004	9:29	NNE	3.2
35	0.004	9:31	NNW	2.3
36	0.004	9:33	N	2.3
37	0.004	9:35	NNE	2.4
38	0.004	9:37	N	2
39	0.004	9:39	N	2.3
40	0.004	9:41	N	1.6
41	0.004	9:43	NNW	1.2
42	0.005	9:44	NNE	2.8
43	0.004	9:45	NNE	6.8
44	0.004	9:47	NNE	3.5

H_2S Perimeter Monitoring - 3/2/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/2/2019	31°F	30	74%	0.51	N 13	Low	5:59 AM	5.2
						High	12:25 PM	0.3
						Low	6:28 PM	4.6

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	30.02 in Hg
Anemometer model:	4500		
Time Start:	7:04 AM	Barometric	
Time End :	9:14 AM	Pressure End :	30.4 in Hg

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.005	7:04	N	4.3
54	0.012	7:05	N	5.2
55	0.009	7:07	N	3.1
56	0.008	7:08	N	5.9
57	0.03	7:10	N	1.2
57 + (20' NE)	0.029	7:11	N	3.1
57 + (20' NW)	0.025	7:12	-	0
58	0.024	7:14	-	0
59	0.027	7:15	N	3.4
60	0.027	7:17	N	1.7
61	0.031	7:18	N	2.1
61 + (20' NE)	0.016	7:19	N	3
61 + (20' NW)	0.043	7:20	N	3
62	0.017	7:22	N	7.2
63	0.007	7:23	N	5.2
64	0.002	7:24	N	5.5
65	0.003	7:25	N	4
66	0.003	7:26	-	0
67	0.003	7:27	-	0
61	0.02	7:31	N	0.02
7	0.021	8:00	NNW	6.7
8	0.031	8:01	NNE	6.4
8 + (50' NNE)	0.059	8:02	NNE	5.2
9	0.002	8:03	NNW	9.1
8 + (50' NNE)	0.015	8:05	NNW	5.2
10	0.002	8:06	NNW	5.6
11	0.002	8:08	N	3
12	0.002	8:09	NNW	4.2
13	0.002	8:10	NNW	2.9
14	0.002	8:12	-	0
15	0.002	8:14	-	0
16	0.002	8:16	NNW	2.7
17	0.002	8:17	NNW	3.2
18	0.002	8:19	NNW	3.6
19	0.003	8:20	N	4.7
20	0.003	8:21	NNE	5.3
21	0.002	8:23	N	4.5
45	0.004	9:02	N	5.5
46	0.004	9:04	NNE	1.5
47	0.004	9:05	NNE	6.5
48	0.004	9:07	NNE	4.8
49	0.004	9:08	NNE	10.8
50	0.003	9:10	N	6.9
51	0.003	9:12	N	6
52	0.007	9:14	N	2.9

INTERNAL MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.011	7:36	NNE	5.6
2	0.008	7:37	NNE	6.8
3	0.019	7:39	NEE	6.3
4	0.08	7:41	NEE	3.1
4 + (100' NE)	0.022	7:43	N	6.1
4 + (100' WSW-edge of ditch)	0.111	7:44	NNE	4.2
4 + (100' WSW facing NW edge of ditch)	0.06	7:45	NNE	4.2
4 + (100' SW)	0.031	7:46	NNE	3.9
5	0.112	7:48	NE	3.2
5 + (100' W)	0.029	7:50	NE	2
5 + (100' W facing WNW)	0.037	7:51	NE	2
5 + (40' N)	0.033	7:51	N	3.1
5	0.064	7:53	NNE	3.7
6	0.041	7:55	N	6.5
6 + (40' W)	0.048	7:57	NNE	3.8
6 + (100' WSW)	0.039	7:58	NNE	5.9
22	0.002	8:24	N	1.5
23	0.002	8:28	NNW	3.5
24	0.003	8:30	NNE	4.6
25	0.002	8:31	N	2.1
26	0.002	8:33	NNW	2.3
27	0.003	8:34	N	1.8
28	0.002	8:36	NNE	1.7
29	0.003	8:37	N	3.5
30	0.003	8:39	N	3.6
31	0.003	8:40	NNE	6.2
32	0.002	8:42	NNE	3.8
33	0.003	8:43	NNW	4.6
34	0.002	8:45	NNW	5.1
35	0.003	8:46	NNW	4.9
36	0.003	8:48	N	1.5
37	0.003	8:50	-	0
38	0.003	8:51	N	3.8
39	0.003	8:53	NNE	2.6
40	0.003	8:55	NNE	1.8
41	0.004	8:05	NNE	4.1
42	0.006	8:57	N	5.9
43	0.004	8:59	N	4.3
44	0.004	9:00	N	3.6

H_2S Perimeter Monitoring - 3/2/2019 (Continued)

Round 2 Time Start: 9:17 AM
Time End : 9:35 AM

PERIMETER MONITORING POINTS				
Monitoring Point # (3)(4)	**H_2S Concentration (ppm)**	**Time**	**Wind Direction (4)**	**Wind Velocity (mph)**
53	0.004	9:17	NNW	2.7
54	0.004	9:18	N	5.4
55	0.007	9:19	N	2
56	0.018	9:20	N	2.5
57	0.014	9:21	N	3.1
58	0.024	9:22	N	2.4
59	0.026	9:24	NNE	2.9
60	0.02	9:25	NNW	2.9
61	0.043	9:26	N	3.2
62	0.046	9:28	N	6.2
62 + (20' N)	0.048	9:29	N	5.2
63	0.049	9:30	NNE	5.5
64	0.021	9:31	NNE	4.6
65	0.004	9:33	N	3.5
66	0.004	9:34	NNW	4
67	0.004	9:35	-	0

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/4/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/4/2019	34°F	29.7	61%	0.23	14 NW	High	1:20 AM	0.3
						Low	7:29 AM	5.5
						High	1:52 PM	0
						Low	7:53 PM	5

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"
(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	29.77 in Hg
Anemometer model:	4500		
Time Start:	9:36 AM	Barometric	
Time End :	13:10 AM	Pressure End :	29.80 in Hg

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.003	9:36	WNW	12.8
54	0.002	9:39	WNW	2.8
55	0.013	9:42	NNW	2.5
56	0.004	9:44	NNW	1.4
57	0.004	9:47	NNW	10.3
58	0.005	9:49	NNW	8.3
59	0.007	9:50	NNW	5.9
60	0.004	9:52	NNW	3.5
61	0.005	9:54	NNW	3.2
62	0.005	9:56	NNW	7
63	0.005	9:58	NNW	3.7
64	0.006	10:00	NNW	3.5
65	0.006	10:04	NW	4.6
66	0.006	10:06	NW	9.8
67	0.006	10:08	NW	7.4
7	0.006	11:00	NNW	7.3
8	0.006	11:00	NW	4.5
9	0.008	11:03	NW	3.4
10	0.007	11:05	NW	5.4
11	0.007	11:07	NW	4.4
12	0.007	11:08	NW	4.6
13	0.006	11:10	-	0
14	0.007	11:13	-	0
15	0.007	11:15	-	1.4
16	0.006	11:18	NW	2.9
17	0.007	11:23	NW	2
18	0.007	11:27	NNW	1.4
19	0.007	11:30	N	2.9
20	0.006	11:32	N	3.8
21	0.007	11:36	WSW	4.6
45	0.01	12:40	NW	2.4
46	0.018	12:43	NW	5.8
47	0.016	12:46	NW	5
48	0.019	12:47	WNW	4.3
49	0.028	12:50	WNW	6
50	0.005	12:53	W	9
51	0.006	12:56	WNW	7.1
52	0.006	13:10	NNW	2.7

INTERNAL MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.006	10:20	NNW	2.4
2	0.01	10:25	NNW	4.5
3	0.042	10:30	NNW	10.7
4	0.083	10:32	NW	8.5
4 (next to SW trench)	0.078	10:35	NNW	3
4 (next to LF toe)	0.107	10:36	NNW	5.4
5	0.14	10:40	NNW	6.3
5 (next to SW trench)	0.12	10:42	NNW	4.8
5 (next to SW trench facing trech)	0.02	10:44	NNW	6.3
5 (next to LF toe)	0.29	10:45	NNW	6.2
6	0.005	10:50	NW	5.7
6 (next to SW trench)	0.005	10:50	NW	5.4
6 (next to trench facing trench)	0.006	10:52	NW	4.6
6 (next to LF toe)	0.006	10:54	NW	7.6
22	0.006	11:40	N	3.9
23	0.007	11:43	N	4.2
24	0.007	11:47	WNW	10.7
25	0.007	11:49	WNW	4.1
26	0.007	11:51	WNW	4.4
27	0.007	11:54	WNW	7
28	0.007	11:56	WNW	7.5
29	0.007	11:59	NNW	4.4
30	0.005	12:01	NNW	2.2
31	0.005	12:03	NNW	2.1
32	0.006	12:05	NNW	6.4
33	0.006	12:07	NNW	6.1
34	0.006	12:10	NNW	4.8
35	0.006	12:12	NNW	2.2
Opening (leachate hole)	0.077	12:15	NNW	2.6
36	0.008	12:17	NNW	6
37	0.006	12:20	NNW	9.9
38	0.007	12:23	NNW	3.8
39	0.006	12:25	NNW	8.2
40	0.006	12:27	NNW	8
between 40 and 41	0.028	12:29	NW	6
41	0.002	12:32	NNW	8.4
42	0.006	12:34	NNW	4.8
43	0.013	12:36	NNW	2.7
44	0.007	12:40	NW	3.6

Round 2 Time Start: 13:15 AM
Time End : 13:37 AM

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.006	13:15	NNW	3.9
54	0.006	13:15	NNW	3.9
55	0.011	13:17	NNW	5.5
56	0.006	13:20	NNW	8.5
57	0.005	13:20	NNW	7.6
58	0.005	13:21	NNW	5.2
59	0.005	13:24	NNW	6.3
60	0.006	13:25	NNW	5.1
61	0.005	13:26	NNW	7.9
62	0.006	13:28	NNW	5.1
63	0.006	13:30	NNW	5.8
64	0.006	13:31	NNW	3
65	0.006	13:34	NNW	1.5
66	0.006	13:35	NNW	2.2
67	0.006	13:37	NNW	7.4

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/5/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/5/2019	21°F	30.1	49%	0	11 WSW	Low	2:04 AM	0.2
						High	8:08 AM	5.6
						Low	2:32 PM	-0.1
						High	8:30 PM	5.2

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"
(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	30.09 in Hg
Anemometer model:	4500		
Time Start:	6:42 AM	Barometric	
Time End :	9:49 AM	Pressure End :	30.11 in Hg

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.028	6:42	-	0
54	0.02	6:43	-	0
55	0.031	6:45	-	0
56	0.038	6:46	-	0
57	0.04	6:48	-	0
58	0.011	6:49	-	0
59	0.034	6:50	-	0
60	0.014	6:51	-	0
61	0.021	6:52	-	0
62	0.02	6:53	NNW	1.6
63	0.035	6:55	NNW	1.7
64	0.035	6:57	NNW	1.9
65	0.044	6:59	-	0
66	0.061	7:01	-	0
67	0.035	7:03	-	0
7	0.007	7:37	-	0
8	0.023	7:39	-	0
9	0.027	7:40	-	0
10	0.019	7:41	-	0
11	0.064	7:42	-	0
12	0.046	7:44	NNE	2
13	0.037	7:46	NNE	1.3
14	0.079	7:48	NE	1.8
15	0.102	7:51	NE	1.2
16	0.01	7:54	-	0
17	0.009	7:56	-	0
18	0.006	7:58	NNE	0.9
19	0.008	7:59	-	0
20	0.006	8:01	SW	2.6
21	0.005	8:03	SW	2.1
45	0.005	8:53	WSW	2.3
46	0.007	8:55	W	4.8
47	0.005	8:57	W	6.8
48	0.005	8:59	W	6.2
49	0.006	9:01	N	7.1
50	0.006	9:03	NW	6.8
51	0.005	9:05	WNW	4.9
52	0.007	9:07	NW	5.7

INTERNAL MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.119	7:08	N	1.7
2	0.8	7:12	N	2.5
3	1.4	7:16	N	1.3
4	0.45	7:17	-	0
4 (next to SW trench)	0.39	7:19	-	0
4 (next to LF toe)	0.18	7:21	-	0
4 (next to LF toe directly N)	0.084	7:22	-	0
5	0.023	7:26	NE	1.5
5 (next to LF toe)	0.014	7:27	-	0
5 (next to SW trench)	0.013	7:29	-	0
6	0.007	7:31	-	0
6 (next to SW trench)	0.007	7:34	N	1.2
6 (next to LF toe)	0.007	7:35	-	0
22	0.005	8:05	SW	4.5
23	0.005	8:07	SW	4.3
24	0.005	8:09	WSW	2.9
25	0.005	8:10	WSW	1.9
26	0.006	8:12	W	2
27	0.005	8:14	NW	3.7
28	0.005	8:16	N	3.8
29	0.006	8:18	N	1.7
30	0.072	8:21	SSW	1.6
31	0.007	8:23	WNW	2.7
32	0.005	8:25	WNW	1.9
33	0.005	8:27	NW	1.4
34	0.005	8:31	W	4
35	0.005	8:29	-	0
Opening (leachate hole)	0.21	8:32	-	0
36	0.005	8:35	NNW	1.5
37	0.005	8:36	NW	1.9
38	0.005	8:38	NNW	1.8
39	0.006	8:40	WNW	3
40	0.006	8:42	WNW	5.4
between 40 and 41	0.022	8:44	WNW	2.8
41	0.01	8:46	NW	2.7
42	0.01	8:48	SW	3.7
43	0.012	8:50	SW	1.9
44	0.005	9:35	SW	2.8

Round 2 Time Start: 9:09 AM
Time End : 9:49 AM

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.005	9:09	WSW	2.7
54	0.007	9:10	NW	5
55	0.006	9:12	NW	2.4
56	0.007	9:14	NW	4
57	0.007	9:16	NW	5.3
58	0.006	9:18	WNW	4.8
59	0.006	9:20	WNW	4.9
60	0.005	9:22	NW	5.8
61	0.005	9:24	NW	2
62	0.005	9:26	WNW	1.3
63	0.006	9:28	NW	0
64	0.006	9:30	NW	3.6
65	0.008	9:32	NW	1.7
66	0.007	9:34	-	0
67	0.005	9:36	NW	2.7

INTERNAL MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
3	0.006	9:37	NNW	3.5
4	0.006	9:39	WSW	5.9
4 (next to SW trench)	0.006	9:40	W	5.8
4 (next to LF toe)	0.007	9:41	W	2.2
5	0.007	9:44	W	4
5 (next to SW trench)	0.007	9:43	WSW	3.9
5 (next to LF toe)	0.007	9:49	W	4.3

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/6/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/6/2019	18°F	30.1	54%	0	W 10	Low	2:45 AM	0.04
						High	8:44 AM	5.62
						Low	3:09 PM	-0.19
						High	9:05 PM	5.24

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician: Christine H. Stokes
Meter Make: Arizona Instrument
Model: Jerome 631X
Regeneration: Yes
Anemometer make: Kestrel
Anemometer model: 4500
Time Start: 6:45 AM
Time End : 11:55 AM

Barometric Pressure Start : 30.11 in Hg
Barometric Pressure End : 30.11 in Hg

PERIMETER MONITORING POINTS (45-67, 7-21)				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.003	6:45	WNW	1.5
54	0.003	6:50	WNW	3.6
55	0.003	6:55	WNW	3
56	0.004	7:00	WNW	3.6
57	0.003	7:05	WNW	7.1
58	0.007	7:08	WNW	1.3
59	0.005	7:10	WNW	5.9
60	0.004	7:13	WNW	5.1
61	0.005	7:15	WNW	5.4
62	0.005	7:18	WNW	3
63	0.005	7:23	WNW	6.5
64	0.005	7:26	WNW	1.5
65	0.008	7:30	WNW	2.1
66	0.009	7:35	WNW	3.3
67	0.006	7:38	WNW	5.5
7	0.006	8:40	WNW	3.8
8	0.006	8:50	NW	5.4
9	0.006	8:55	NW	6
10	0.007	9:00	NW	3.9
11	0.009	9:02	NW	4.3
12	0.007	9:05	NW	3.1
13	0.007	9:07	NW	2.3
14	0.007	9:10	-	0
15	0.007	9:15	NW	2.3
16	0.005	9:18	NW	4.6
17	0.004	9:20	NW	2.4
18	0.005	9:25	-	0
19	0.005	9:30	NW	3.9
20	0.005	9:33	NW	2.8
21	0.005	9:37	NW	4.1
45	0.015	11:30	NW	6.6
46	0.008	11:32	NW	6.9
47	0.028	11:35	NW	4.3
48	0.017	11:40	NW	7
49	0.010	11:43	NW	10.8
50	0.017	11:47	NW	8.1
51	0.018	11:50	NW	7.8
52	0.009	11:55	NW	3.9

INTERNAL MONITORING POINTS (1-6, 22-43)				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.006	7:55	WNW	4.9
2	0.006	8:00	WNW	5.5
3	0.005	8:08	WNW	5.1
4	0.006	8:12	WNW	8.8
4 (next to SW trench)	0.007	8:19	WNW	6.1
4 (next to LF toe)	0.044	8:17	WNW	4.3
5	0.007	8:23	WNW	3.9
5 (next to LF toe)	0.006	8:30	WNW	3
5 (next to SW trench)	0.006	8:29	WNW	4.3
6	0.006	8:35	WNW	8.5
22	0.004	9:45	NW	3.8
23	0.005	9:50	NW	5.1
24	0.005	9:58	NW	4.2
25	0.004	10:00	NW	9.6
26	0.005	10:02	NW	8.7
27	0.005	10:05	NW	7.2
28	0.005	10:08	NW	6.1
Between 28 and 29 toe LF	0.044	10:10	-	-
29	0.005	10:10	NW	5.9
30	0.004	10:20	NW	4.3
31	0.005	10:25	NW	5.2
32	0.005	10:28	WNW	6
33	0.005	10:31	WNW	2.3
34	0.006	10:35	WNW	8.2
35	0.006	10:40	WNW	4.5
36	0.006	10:47	WNW	5.2
Between 36 and 37	0.011	10:48	-	-
37	0.007	10:50	NW	6.1
38	0.006	11:00	NW	4.5
39	0.013	11:02	NW	2.4
40	0.027	11:05	NW	5
Between 40 and 41	0.039	11:08	-	-
41	0.024	11:10	NW	5.5
42	0.014	11:15	NW	1.2
43	0.012	11:23	NW	4.4
44	0.006	11:28	NW	6.9

Round 2 Time Start: 12:20 AM
Time End : 13:00 PM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction	Wind Velocity (mph)
53	0.005	12:20	WNW	10.5
54	0.012	12:25	WNW	8.8
55	0.008	12:30	WNW	4.2
56	0.006	12:35	WNW	5.3
57	0.006	12:38	WNW	7.3
58	0.006	12:40	WNW	6.9
59	0.007	12:43	WNW	8.5
60	0.006	12:45	WNW	4.5
61	0.007	12:47	WNW	4.4
62	0.007	12:50	WNW	2.6
63	0.006	12:52	WNW	3.4
64	0.007	12:55	WNW	6.4
65	0.008	12:57	WNW	6.6
66	0.008	12:59	WNW	3.5
67	0.008	13:00	WNW	5.4

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/7/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/7/2019	17°F	30.3	41%	0	WSW 6	Low	3:24 AM	-0.01
						High	9:18 AM	5.56
						Low	3:45 PM	-0.18
						High	9:36 PM	5.26

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Christine H. Stokes		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X	Barometric	
Regeneration:	Yes	Pressure	
Anemometer make:	Kestrel	Start :	30.29
Anemometer model:	4500	Barometric	
Time Start:	7:00 AM	Pressure	
Time End :	12:00 PM	End :	30.29

PERIMETER MONITORING POINTS (45-67, 7-21)				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.006	7:00	-	0
54	0.006	7:05	WSW	1.9
55	0.007	7:10	WSW	3.3
56	0.007	7:15	WSW	1.5
57	0.008	7:17	WSW	4.8
58	0.008	7:20	WSW	3.1
59	0.007	7:30	W	2.3
60	0.007	7:38	W	3.5
61	0.008	7:41	W	3.9
62	0.007	7:45	W	3.3
63	0.007	7:47	W	3.1
64	0.009	7:53	W	3.3
65	0.008	7:55	W	4
66	0.007	7:58	W	1.2
67	0.007	8:00	W	2.5
7	0.007	8:50	WSW	2.1
8	0.007	8:52	WSW	3.1
9	0.007	8:57	WSW	3.7
10	0.008	8:59	WSW	2.2
11	0.008	9:02	-	0
12	0.008	9:05	WSW	3.9
13	0.008	9:10	WSW	2.6
14	0.007	9:13	-	0
15	0.008	9:15	WSW	2
16	0.008	9:20	WSW	4.2
17	0.007	9:25	WSW	1.7
18	0.009	9:30	WSW	2.4
19	0.008	9:33	WSW	1.3
20	0.008	9:35	WSW	2.9
21	0.007	9:40	WSW	2.5
45	0.007	11:20	W	5.2
46	0.008	11:27	W	2.8
47	0.007	11:35	W	5.8
48	0.007	11:38	W	6.7
49	0.008	11:40	W	11.2
50	0.006	11:42	W	8.5
51	0.006	11:45	W	11.9
52	0.007	12:00	WSW	4

INTERNAL MONITORING POINTS (1-6, 22-43)				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.008	8:05	W	3.4
2	0.009	8:15	W	4.3
3	0.009	8:18	-	0
4	0.007	8:20	WSW	5.3
4 (next to SW trench)	0.007	8:22	0	-
4 (next to LF toe)	0.007	8:25	WSW	2.7
5	0.007	8:40	WSW	7.9
5 (next to LF toe)	0.007	8:43	WSW	1.6
5 (next to SW trench)	0.007	8:45	WSW	4.6
6	0.008	8:47	WSW	8
22	0.008	9:46	-	0
23	0.008	9:48	WSW	4
24	0.008	9:50	WSW	7.2
25	0.007	9:53	W	4.8
26	0.008	9:55	W	3.6
27	0.110	10:00	W	3.1
Between 27 and 28	0.075	10:05	-	-
28	0.160	10:10	WNW	5.8
Between 28 and 29	0.085	10:13	-	-
29	0.088	10:16	WNW	5
Between 29 and 30	0.078	10:17	-	-
30	0.070	10:18	WNW	5.5
31	0.050	10:20	WNW	4.9
31 (next to LF toe)	0.055	10:22	-	-
32	0.008	10:25	WNW	6.8
33	0.007	10:28	WNW	6.3
33 (next to LF toe)	0.026	10:29	-	-
34	0.006	10:30	WNW	5.3
35	0.006	10:32	WNW	4.6
36	0.019	10:45	WNW	3.4
37	0.013	10:47	WNW	7.2
37 (next to LF toe)	0.048	10:49	-	-
38	0.020	10:54	WNW	8.3
38 (next to LF toe)	0.033	10:56	-	-
39	0.008	11:00	WNW	4.7
39 (next to LF toe)	0.020	11:01	-	-
Between 39 and 40	0.037	11:01	-	-
40	0.031	11:02	WNW	5.8
41	0.006	11:05	W	5.3
42	0.006	11:07	W	9
43	0.007	11:12	W	6.5
44	0.006	11:15	W	3.6

Round 2 Time Start: 12:05 PM
Time End : 12:45 PM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.006	12:05	SW	6.2
54	0.006	12:08	SW	4
55	0.007	12:10	SW	3.5
56	0.007	12:15	SW	4.7
57	0.007	12:18	SW	5.5
58	0.006	12:21	SW	2.1
59	0.007	12:25	SW	4.3
60	0.009	12:28	SW	2.5
61	0.006	12:30	SW	5.4
62	0.007	12:32	SW	2
63	0.007	12:35	SW	5.9
64	0.008	12:37	SW	2.7
65	0.007	12:40	SW	2.5
66	0.008	12:42	SW	4.1
67	0.007	12:45	SW	4.5

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/8/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/8/2019	34	30.4	50%	0	8 SW	High	2:00 AM	5.04
						Low	8:00 AM	0.024
						High	2:00 PM	5.12
						Low	9:00 PM	-0.2

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Tide data from tidesandcurrents.noaa.gov, for station "Bergen Point West Reach, NY "

Technician: Camilo J Aponte
Meter Make: Arizona Instrument
Model: Jerome 631X
Regeneration: Yes — Barometric Pressure Start : 30 .38 in Hg
Anemometer make: Kestrel
Anemometer model: 4500
Time Start: 6:51 AM — Barometric Pressure End : 30.32 in Hg
Time End : 9:02 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.18	6:51	-	0
54	0.115	6:52	-	0
55	0.24	6:53	-	0
56	0.17	6:54	-	0
57	0.27	6:55	-	0
58	0.36	6:56	-	0
59	0.29	6:57	ESE	3.2
60	0.34	6:58	-	0
61	0.36	7:00	-	0
62	0.5	7:01	-	0
63	0.44	7:02	ESE	2.2
64	0.41	7:03	-	0
65	0.59	7:04	-	0
66	0.62	7:05	-	0
67	0.49	7:06	-	0
7	0.069	7:35	N	3.4
8	0.34	7:36	NNE	3.6
9	0.33	7:37	NE	3.7
10	0.07	7:38	NE	3.9
11	0.16	7:39	NE	3.1
12	0.4	7:40	NE	3.4
13	0.58	7:41	NE	1.9
14	0.046	7:57	N	3.4
15	0.104	7:59	-	0
16	0.006	8:01	NNE	3
17	0.005	8:02	NNE	2.7
18	0.005	8:04	NE	2.9
19	0.005	8:06	NE	3.9
20	0.005	8:08	NE	3.7
21	0.005	8:10	ENE	4.6
45	0.007	8:51	-	0
46	0.007	8:53	ENE	3.7
47	0.007	8:55	ENE	2.6
48	0.007	8:56	ENE	3.5
49	0.007	8:57	ENE	2.8
50	0.006	8:59	ENE	3.1
51	0.012	9:00	E	3.6
52	0.008	9:02	E	2.5

INTERNAL MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.02	7:13	-	0
2	0.01	7:15	ENE	3.2
3	0.021	7:18	NNE	2.6
4	0.52	7:19	-	0
4 (next to LF toe directly N)	0.25	7:20	-	0
4 (next to LF toe)	0.48	7:22	NNE	1.9
5	0.27	7:24	NNE	2.2
5 (next to LF toe)	0.43	7:26	-	0
5 (next to SW trench)	0.29	7:28	-	0
6	0.19	7:30	NE	1.9
6 (next to LF toe)	0.089	7:32	NNE	2.6
6 (next to SW trench)	0.14	7:34	NNE	2.5
22	0.006	8:12	NE	3.2
23	0.006	8:14	-	0
24	0.006	8:17	E	1.9
25	0.007	8:19	-	0
26	0.006	8:21	E	3.4
27	0.008	8:23	-	0
28	0.007	8:25	ENE	1
29	0.008	8:26	N	2
30	0.007	8:27	NE	2.9
31	0.007	8:29	NE	2
32	0.006	8:31	NE	2.7
33	0.006	8:32	NE	2.6
34	0.006	8:33	-	0
35	0.006	8:34	-	0
36	0.007	8:35	-	0
37	0.007	8:37	E	1.9
38	0.007	8:38	ENE	1.7
39	0.007	8:40	ENE	1.7
40	0.008	8:42	-	0
41	0.007	8:43	-	0
42	0.008	8:45	-	0
43	0.007	8:47	-	0
44	0.007	8:49	-	0

Round 2 — Time Start: 9:07 AM
Time End : 9:24 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.007	9:07	-	0
54	0.006	9:08	E	2.1
55	0.008	9:09	ESE	3.7
56	0.006	9:10	-	0
57	0.006	9:12	ESE	3.1
58	0.007	9:13	ESE	2.4
59	0.006	9:14	ESE	2.3
60	0.006	9:15	ESE	1.6
61	0.007	9:16	-	0
62	0.008	9:18	ENE	2.1
63	0.018	9:20	ENE	2.3
64	0.011	9:21	ENE	2.9
65	0.008	9:22	E	2.6
66	0.039	9:23	ENE	2.9
67	0.059	9:24	ENE	1.9

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/11/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/11/2019	47°F	30.1	51%	0	16 W	Low	12:01 AM	5.3
						High	6:45 AM	0.4
						Low	12:35 PM	4.9
						High	6:43 PM	0.3

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	30.11 in Hg
Anemometer model:	4500		
Time Start:	8:18 AM	Barometric	
Time End :	10:08 AM	Pressure End :	30.12 in Hg

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.001	8:18	W	4.5
54	0.001	8:19	W	2.1
55	0	8:20	W	4.1
56	0	8:21	W	7.2
57	0	8:22	W	4.7
58	0	8:23	W	4.8
59	0	8:24	W	8.1
60	0.001	8:25	W	2.3
61	0.001	8:26	W	5.7
62	0.003	8:27	W	2.9
63	0.002	8:28	W	2.4
64	0.002	8:29	-	0
65	0.002	8:30	-	0
66	0.002	8:31	W	1.7
67	0.003	8:32	-	0
7	0.003	9:02	WSW	1.6
8	0.003	9:03	WNW	2.7
9	0.003	9:04	-	0
10	0.003	9:05	-	0
11	0.003	9:06	-	0
12	0.004	9:07	-	0
13	0.004	9:08	W	1.8
14	0.003	9:09	W	1.2
15	0.003	9:10	-	0
16	0.003	9:12	SSE	6
17	0.003	9:14	SSW	3.4
18	0.003	9:16	SSW	4.4
19	0.003	9:18	SW	6.2
20	0.003	9:20	SW	6.3
21	0.003	9:21	SW	2.7
45	0.009	9:55	W	6.6
46	0.004	9:56	WSW	8.2
47	0.003	9:58	WSW	10.6
48	0.004	10:00	WSW	9.1
49	0.004	10:02	WSW	7.5
50	0.004	10:04	WSW	9.2
51	0.004	10:06	WSW	6
52	0.003	10:08	WSW	6.1

INTERNAL MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.003	8:40	W	2.9
2	0.005	8:42	W	3.1
3	0.003	8:44	WSW	4.6
4	0.003	8:46	W	4.2
4 (next to LF toe directly N)	0.004	8:48	WSW	2.3
4 (next to LF toe)	0.003	8:50	W	4.4
5	0.003	8:52	WSW	4.8
5 (next to LF toe)	0.004	8:54	WSW	6.5
5 (next to SW trench)	0.003	8:56	WSW	3.6
6	0.003	8:58	SW	10.4
6 (next to LF toe)	0.003	9:00	WSW	4.1
6 (next to SW trench)	0.003	9:01	SW	8
22	0.004	9:22	WSW	3.1
23	0.004	9:23	WSW	2.8
24	0.003	9:24	WSW	6.8
25	0.004	9:25	WSW	6.4
26	0.004	9:26	W	3.3
27	0.101	9:28	SW	7.9
28	0.13	9:29	WSW	3.2
29	0.082	9:30	WSW	7.1
30	0.057	9:31	WSW	4.5
31	0.038	9:33	WSW	5.3
32	0.007	9:34	WSW	4.9
33	0.003	9:35	W	5.7
34	0.005	9:37	WSW	7.4
35	0.008	9:40	WSW	6.3
36	0.007	9:42	WSW	6.4
37	0.018	9:43	W	5.9
38	0.011	9:44	W	7.7
39	0.007	9:46	NW	4.5
40	0.015	9:48	W	1.7
41	0.007	9:49	SW	7.1
42	0.014	9:51	SW	5.7
43	0.013	9:52	WSW	9.9
44	0.003	9:53	WSW	2.8

Round 2 Time Start: 10:10 AM
Time End : 10:25 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.004	10:10	W	7.2
54	0.004	10:12	W	7.9
55	0.003	10:13	NW	10.9
56	0.003	10:14	NW	5.9
57	0.004	10:15	NW	5.4
58	0.003	10:16	NW	6.9
59	0.005	10:17	NW	7.5
60	0.003	10:18	NW	2
61	0.004	10:19	NW	2.9
62	0.003	10:20	NW	4.9
63	0.007	10:21	NW	5.9
64	0.004	10:22	NW	3.2
65	0.004	10:23	NW	2.4
66	0.004	10:24	NW	7
67	0.004	10:25	NW	5.5

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/12/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/12/2019	39°F	30.2	43%	0	15 NW	High	12:41 AM	5.3
						Low	7:28 AM	0.6
						High	1:21 PM	4.7
						Low	7:21 PM	0.5

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician: Camilo J Aponte
Meter Make: Arizona Instrument
Model: Jerome 631X
Regeneration: Yes — Barometric Pressure Start : 30.16 in Hg
Anemometer make: Kestrel
Anemometer model: 4500
Time Start: 6:57 AM — Barometric Pressure End : 30.18 in Hg
Time End : 8:39 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0	6:57	NW	5.3
54	0.001	6:58	-	0
55	0	6:59	NW	3
56	0.002	7:00	NW	2.8
57	0.003	7:01	NW	3.5
58	0.002	7:02	NW	1.1
59	0.003	7:03	NW	5.8
60	0.004	7:04	-	0
61	0.003	7:05	NW	1.3
62	0.006	7:06	NW	2.3
63	0.007	7:07	NW	2.4
64	0.006	7:08	NW	5
65	0.006	7:09	NW	2.1
66	0.005	7:10	NW	4.9
67	0.004	7:11	NW	6.6
7	0.005	7:34	NW	3.5
8	0.005	7:35	NW	3.7
9	0.006+	7:36	NW	3
10	0.006	7:37	NW	2.5
11	0.007	7:38	NW	3
12	0.006	7:39	NW	1.4
13	0.006	7:41	-	0
14	0.005	7:43	-	0
15	0.005	7:44	NW	2.4
16	0.005	7:46	NW	2.1
17	0.005	7:47	NNW	1.4
18	0.006	7:49	NNW	3.1
19	0.005	7:51	-	0
20	0.006	7:53	-	0
21	0.006	7:54	NNW	5.3
45	0.006	8:28	NW	2.6
46	0.013	8:29	NW	2.7
47	0.024	8:30	NW	4.9
48	0.024	8:32	NNW	6.2
49	0.014	8:34	NW	7.1
50	0.018	8:35	NW	5.3
51	0.009	8:37	NW	6.4
52	0.011	8:39	NW	3.5

INTERNAL MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.005	7:17	NNW	5.8
2	0.006	7:19	NW	6.1
3	0.034	7:21	NNW	3.9
4	0.034	7:23	NW	9.8
4 (next to SW trench)	0.036	7:24	NW	3.5
4 (next to LF toe directly N)	0.086	7:25	NW	6.6
5	0.008	7:27	NW	4.4
5 (next to SW trench)	0.012	7:28	NW	2.3
5 (next to LF toe)	0.029	7:29	NW	4.4
6	0.005	7:31	NW	4.2
6 (next to SW trench)	0.007	7:32	-	0
6 (next to LF toe)	0.005	7:33	NW	3.2
22	0.005	7:55	-	0
23	0.007	7:56	-	0
24	0.006	7:58	NNW	4.3
25	0.006	7:59	NNW	4.2
26	0.005	8:00	NNW	4.4
27	0.006	8:02	NNW	5.4
28	0.005	8:04	NNW	2.2
29	0.006	8:06	NW	2.2
30	0.006	8:08	-	0
31	0.006	8:10	NW	1.4
32	0.006	8:11	NW	3.8
33	0.005	8:12	NW	4
34	0.006	8:14	NNW	3.4
35	0.007	8:15	NNW	2.4
36	0.006	8:16	N	2.8
37	0.006	8:17	N	3.2
38	0.006	8:18	N	2.3
39	0.008	8:19	N	7.2
40	0.006	8:21	N	4.6
41	0.006	8:22	N	4.3
42	0.006	8:23	NW	4.2
43	0.005	8:25	NW	5.1
44	0.006	8:27	NW	5.4

Round 2 — Time Start: 8:41 AM
Time End : 8:55 AM

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.006	8:41	NW	9.8
54	0.006	8:42	NW	2.1
55	0.006	8:43	NW	8.4
56	0.006	8:44	NW	3.3
57	0.006	8:45	NW	8.7
58	0.01	8:46	NW	4.5
59	0.006	8:47	NW	1.2
60	0.005	8:48	NW	9.8
61	0.005	8:49	NW	6.2
62	0.005	8:50	NW	6.1
63	0.006	8:51	NW	5.8
64	0.006	8:52	NW	6.6
65	0.005	8:53	NW	6.7
66	0.006	8:54	NW	7.9
67	0.006	8:55	NW	6

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/13/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/13/2019	41°F	30.4	47%	0	8 SW	High	1:05 AM	5.6
						Low	8:44 AM	0.8
						High	1:51 PM	4.8
						Low	8:28 PM	0.8

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Data from Accuweather.com, data for Amtrak RR. Swing Bridge

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	30.34 in Hg
Anemometer model:	4500		
Time Start:	6:58 AM	Barometric	
Time End :	8:32 AM	Pressure End :	30.38 in Hg

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.121	6:58	-	0
54	0.106	6:59	-	0
55	0.123	7:00	-	0
56	0.099	7:01	-	0
57	0.078	7:02	-	0
58	0.073	7:03	-	0
59	0.144	7:04	-	0
60	0.137	7:05	-	0
61	0.147	7:06	-	0
62	0.33	7:07	-	0
63	0.38	7:08	-	0
64	0.32	7:09	SE	1
65	0.142	7:10	ESE	2
66	0.107	7:10	-	0
67	0.13	7:11	-	0
7	0.041	7:34	-	0
8	0.038	7:35	-	0
9	0.09	7:36	-	0
10	0.026	7:37	-	0
11	0.028	7:38	-	0
12	0.026	7:39	-	0
13	0.02	7:40	-	0
14	0.009	7:41	-	0
15	0.013	7:42	-	0
16	0.46	7:45	-	0
17	0.24	7:46	-	0
18	0.14	7:47	-	0
19	0.2	7:48	-	0
20	0.116	7:49	-	0
21	0.111	7:51	-	0
45	0.15	8:22	-	0
46	0.012	8:24	-	0
47	0.011	8:24	-	0
48	0.02	8:27	SE	1.1
49	0.039	8:28	NW	1.8
50	0.034	8:30	-	0
51	0.027	8:31	NW	1.4
52	0.02	8:32	-	0

INTERNAL MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.043	7:18	-	0
2	0.127	7:20	-	0
3	0.11	7:22	-	0
4	0.35	7:23	-	0
4 (next to SW trench)	0.22	7:24	-	0
4 (next to LF toe directly N)	0.22	7:25	-	0
5	0.12	7:26	-	0
5 (next to SW trench)	0.16	7:27	-	0
5 (next to LF toe)	0.39	7:28	-	0
6	0.43	7:30	-	0
6 (next to SW trench)	0.117	7:31	-	0
6 (next to LF toe)	0.25	7:32	-	0
22	0.061	7:53	-	0
23	0.028	7:55	-	0
24	0.005	7:56	-	0
25	0.006	7:57	-	0
26	0.009	7:58	-	0
27	0.005	7:59	-	0
28	0.006	8:01	-	0
29	0.005	8:03	-	0
30	0.006	8:05	-	0
31	0.007	8:06	-	0
32	0.006	8:07	-	0
33	0.007	8:08	-	0
34	0.007	8:09	-	0
35	0.007	8:10	-	0
36	0.007	8:11	-	0
37	0.007	8:12	-	0
38	0.007	8:13	-	0
39	0.008	8:14	-	0
40	0.008	8:15	-	0
41	0.007	8:16	-	0
42	0.007	8:17	-	0
43	0.008	8:18	-	0
44	0.01	8:20	-	0

Round 2 Time Start: 8:35 AM
Time End : 8:52 AM

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.014	8:35	NW	1.4
54	0.015	8:36	NW	1.3
55	0.025	8:37	-	0
56	0.012	8:38	-	0
57	0.017	8:39	-	0
58	0.016	8:40	SS	1.5
59	0.013	8:41	NNW	1.6
60	0.025	8:43	-	0
61	0.015	8:44	-	0
62	0.03	8:46	-	0
63	0.019	8:47	NNE	1.3
64	0.041	8:48	-	0
65	0.021	8:50	NNE	1.4
66	0.016	8:51	NNE	1.8
67	0.023	8:52	-	0

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring - 3/14/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/14/2019	49°F	30.2	57%	0	10 SE	Low	12:00 AM	0.57
						High	6:00 AM	5.12
						Low	1:00 PM	0.8
						High	7:00 PM	4.3

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"

(2) Tide data from tidesandcurrents.noaa.gov, for station "Bergen Point West Reach, NY "

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	30.32 in Hg
Anemometer model:	4500		
Time Start:	6:55 AM	Barometric	
Time End :	8:31 AM	Pressure End :	30.24 in Hg

PERIMETER MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.007	6:55	SSE	1.6
54	0.007	6:56	SE	3.1
55	0.007	6:57	SE	2.3
56	0.008	6:58	SE	0.9
57	0.008	6:59	SE	2.5
58	0.009	7:00	SE	3
59	0.008	7:01	SE	2.3
60	0.008	7:02	SE	3.4
61	0.009	7:03	SE	1.6
62	0.009	7:04	SE	2.5
63	0.009	7:05	-	0
64	0.009	7:06	-	0
65	0.01	7:07	SE	2.1
66	0.011	7:08	SE	2.9
67	0.01	7:09	SE	3.1
7	0.011	7:32	-	0
8	0.009	7:33	-	0
9	0.009	7:34	-	0
10	0.01	7:35	-	0
11	0.01	7:36	-	0
12	0.016	7:37	-	0
13	0.01	7:38	NNW	1.9
14	0.027	7:39	SE	1.5
15	0.029	7:40	SE	1.1
16	0.081	7:43	-	0
17	0.41	7:44	-	0
18	0.25	7:45	-	0
19	0.17	7:47	SSE	1.8
20	0.19	7:49	-	0
21	0.21	7:50	-	0
45	0.008	8:23	S	1
46	0.008	8:25	ESE	1.4
47	0.008	8:26	ESE	1.1
48	0.008	8:27	-	0
49	0.008	8:28	-	0
50	0.007	8:29	-	0
51	0.008	8:30	-	0
52	0.007	8:31	-	1

INTERNAL MONITORING POINTS

Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
1	0.1	7:15	-	0
2	0.1	7:17	SE	1.5
3	0.1	7:19	SE	1.6
4	0.011	7:22	SE	1.9
4 (next to SW trench)	0.01	7:23	-	0
4 (next to LF toe directly N)	0.011	7:24	SE	1.5
5	0.011	7:25	SE	0.8
5 (next to SW trench)	0.009	7:26	-	0
5 (next to LF toe)	0.011	7:27	-	0
6	0.009	7:28	-	0
6 (next to SW trench)	0.007	7:29	-	0
6 (next to LF toe)	0.011	7:30	-	0
22	0.19	7:51	-	0
23	0.009	7:52	SE	3
24	0.009	7:53	ESE	1.9
25	0.009	7:54	ESE	2.2
26	0.009	7:55	SE	2.1
27	0.008	7:57	SE	2.3
28	0.008	7:59	SE	2
29	0.008	8:00	SE	2.2
30	0.009	8:01	SE	2.3
31	0.009	8:02	SSE	2.1
32	0.008	8:04	S	2
33	0.009	8:05	S	2.3
34	0.009	8:08	-	0
35	0.009	8:09	-	0
36	0.009	8:10	S	1.3
37	0.009	8:11	SSE	3.1
38	0.008	8:12	SSE	1.8
39	0.008	8:13	-	0
40	0.008	8:14	SSE	0.8
41	0.008	8:15	SSE	1.4
42	0.008	8:17	-	0
43	0.008	8:19	-	0
44	0.008	8:21	S	1.8

Round 2 Time Start: 8:34 AM
Time End : 8:48 AM

PERIMETER MONITORING POINTS

Monitoring Point # [3]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.009	8:34	-	0
54	0.008	8:35	SSE	2.4
55	0.009	8:36	-	0
56	0.008	8:37	SSE	0.8
57	0.008	8:38	SSE	1.3
58	0.008	8:39	SSE	4.44.2
59	0.006	8:40	SSE	5.3
60	0.007	8:41	SSE	3.4
61	0.007	8:42	SSE	3.9
62	0.007	8:43	SSE	2.9
63	0.006	8:44	SSE	2.4
64	0.007	8:45	SSE	3.1
65	0.007	8:46	SSE	2.3
66	0.007	8:47	SSE	4.9
67	0.007	8:48	SSE	2.4

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

H_2S Perimeter Monitoring and CQA - 3/15/2019
Keegan Landfill

Weather [1]						Tides [2]		
Date	Temp	Barometric Pressure (in Hg)	Humidity	Precipitation (inches)	Wind (mph)	Type	Time	Amount (ft)
3/15/2019	65°F	29.8	76%	0	13 SW	Low	1:00 AM	0.67
						High	7:00 AM	5.14
						Low	3:00 PM	0.67
						High	10:00 PM	4.3

(1) Weather data from from weather.com, except barometric pressure and precipitation which were obtained from wunderground.com data for "Newark Airport"
(2) Tide data from tidesandcurrents.noaa.gov, for station "Bergen Point West Reach, NY "

Technician:	Camilo J Aponte		
Meter Make:	Arizona Instrument		
Model:	Jerome 631X		
Regeneration:	Yes	Barometric	
Anemometer make:	Kestrel	Pressure Start :	29.81 in Hg
Anemometer model:	4500		
Time Start:	6:44 AM	Barometric	
Time End :	7:02 AM	Pressure End :	29.82 in Hg

PERIMETER MONITORING POINTS				
Monitoring Point # [3][4]	H_2S Concentration (ppm)	Time	Wind Direction [4]	Wind Velocity (mph)
53	0.009	6:44	SSW	2.5
54	0.009	6:45	SSW	1.4
55	0.009	6:46	SSW	4.1
56	0.009	6:47	SSW	3.6
57	0.01	6:48	SSW	1.8
58	0.01	6:49	SSW	1.2
59	0.009	6:50	SSW	2.6
60	0.01	6:51	SSW	1.8
61	0.01	6:52	S	4.1
62	0.011	6:53	S	3.7
63	0.01	6:54	S	5.3
64	0.012	6:56	S	1
65	0.012	6:58	S	2.7
66	0.012	7:00	SSW	1.9
67	0.013	7:02	-	0

(3) See Plan for monitoring point locations
(4) Unless otherwise stated all measurements were taken towards direction of headwinds

Attachment 4

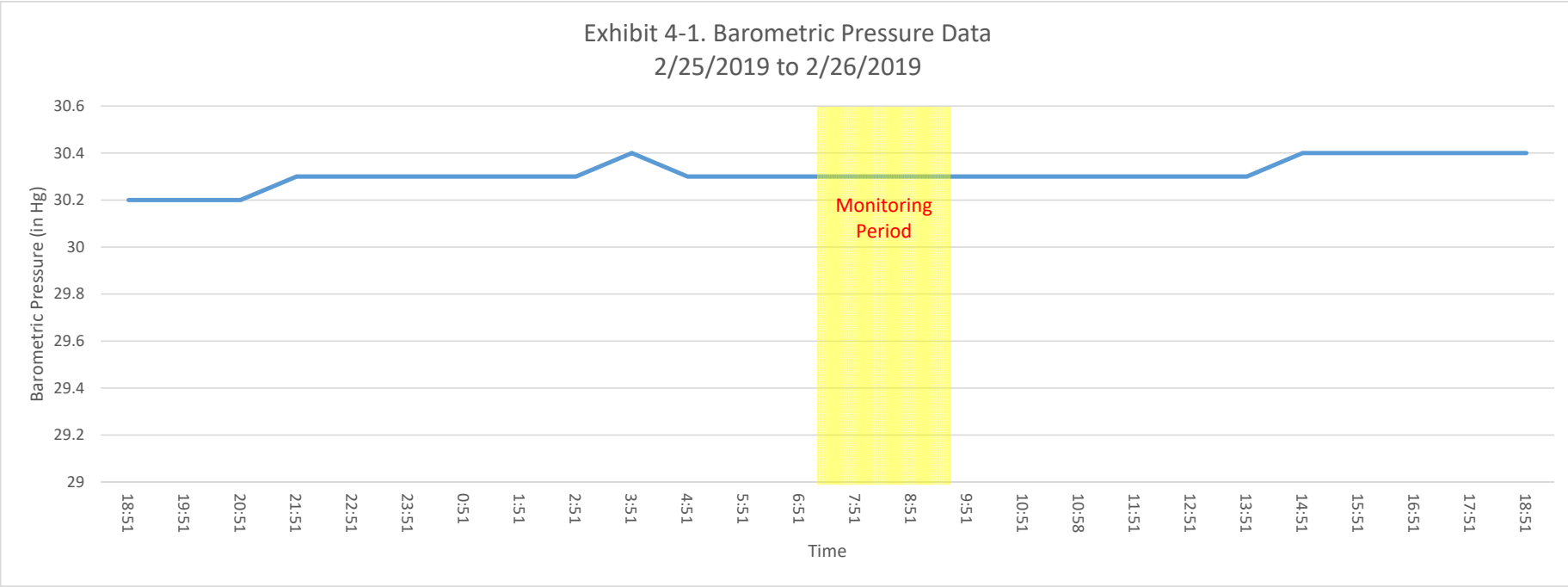


Exhibit 4-1. Barometric Pressure Data
2/25/2019 to 2/26/2019
Barometric Pressure (in Hg)
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
Monitoring Period
18:51
19:51
20:51
21:51
22:51
23:51
0:51
1:51
2:51
3:51
4:51
5:51
6:51
7:51
8:51
9:51
10:51
10:58
11:51
12:51
13:51
14:51
15:51
16:51
17:51
18:51
Time

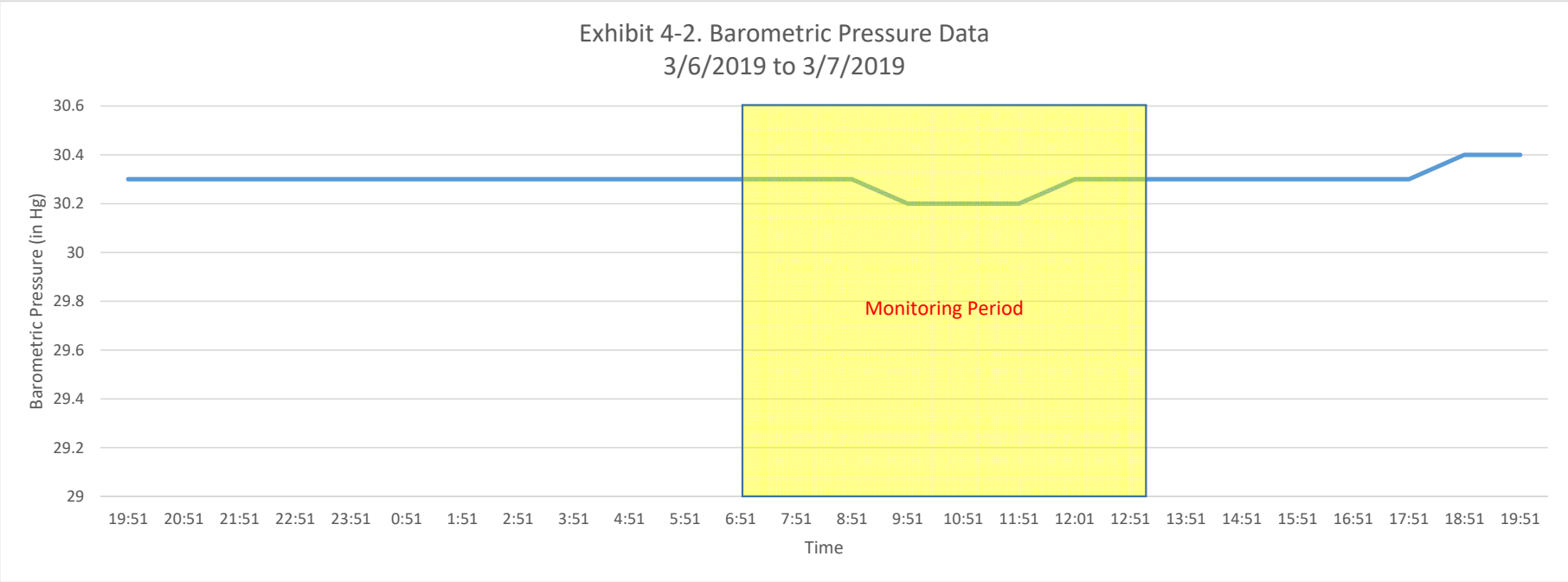


Exhibit 4-2. Barometric Pressure Data
3/6/2019 to 3/7/2019
Barometric Pressure (in Hg)
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
Monitoring Period
19:51
20:51
21:51
22:51
23:51
0:51
1:51
2:51
3:51
4:51
5:51
6:51
7:51
8:51
9:51
10:51
11:51
12:01
12:51
13:51
14:51
15:51
16:51
17:51
18:51
19:51
Time

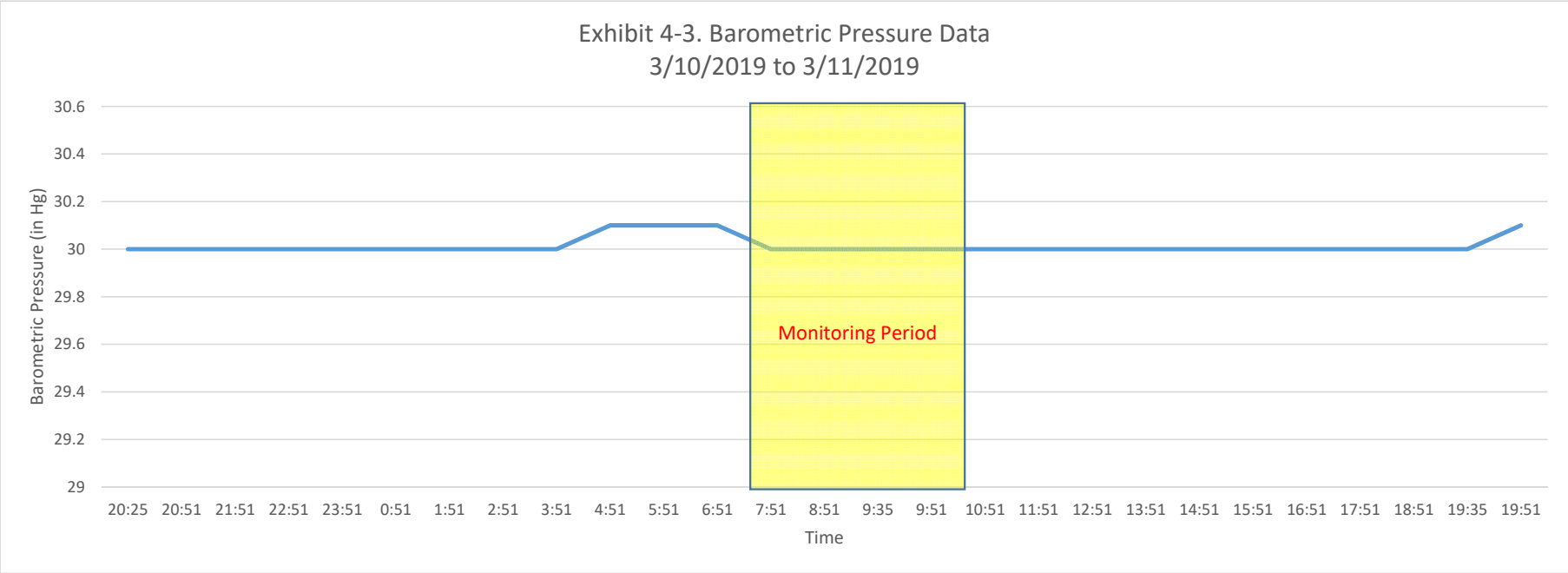


Exhibit 4-3. Barometric Pressure Data
3/10/2019 to 3/11/2019
Barometric Pressure (in Hg)
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
Monitoring Period
20:25
20:51
21:51
22:51
23:51
0:51
1:51
2:51
3:51
4:51
5:51
6:51
7:51
8:51
9:35
9:51
10:51
11:51
12:51
13:51
14:51
15:51
16:51
17:51
18:51
19:35
19:51
Time

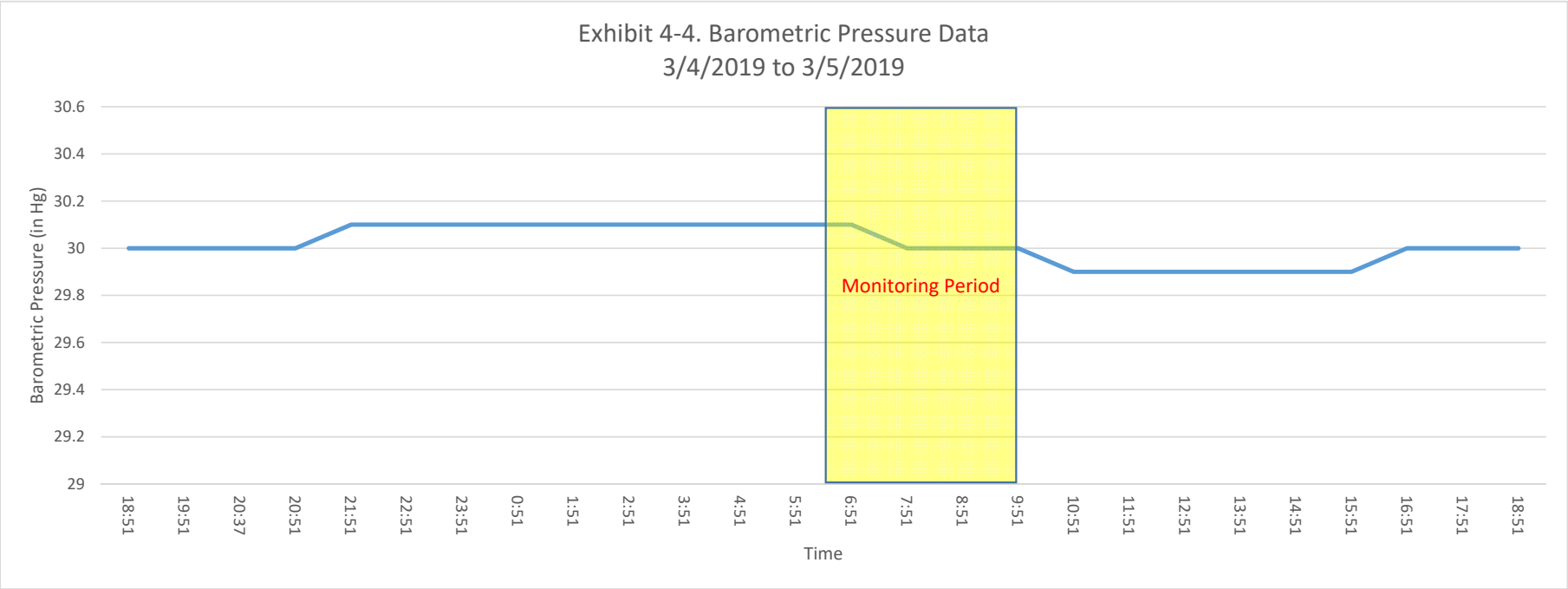


Exhibit 4-4. Barometric Pressure Data
3/4/2019 to 3/5/2019
Barometric Pressure (in Hg)
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
Monitoring Period
18:51
19:51
20:37
20:51
21:51
22:51
23:51
0:51
1:51
2:51
3:51
4:51
5:51
6:51
7:51
8:51
9:51
10:51
11:51
12:51
13:51
14:51
15:51
16:51
17:51
18:51
Time

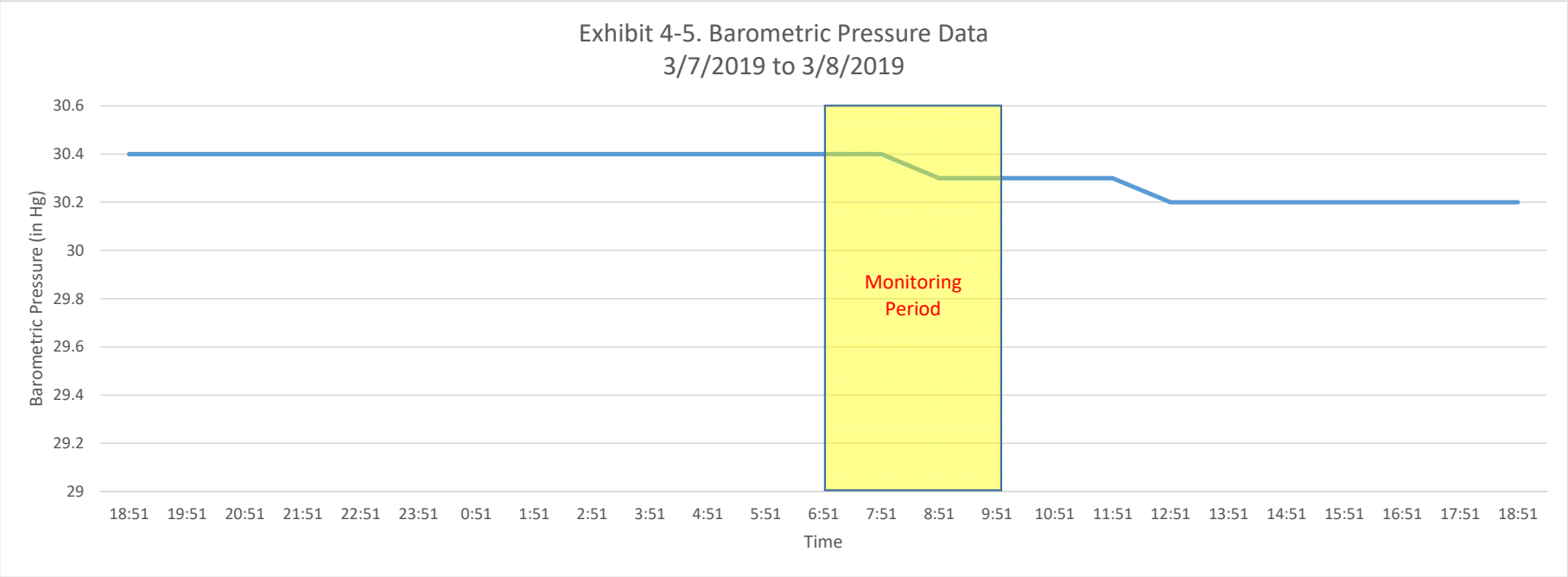


Exhibit 4-5. Barometric Pressure Data
3/7/2019 to 3/8/2019
Barometric Pressure (in Hg)
30.6
30.4
30.2
30
29.8
29.6
29.4
29.2
29
Monitoring Period
18:51
19:51
20:51
21:51
22:51
23:51
0:51
1:51
2:51
3:51
4:51
5:51
6:51
7:51
8:51
9:51
10:51
11:51
12:51
13:51
14:51
15:51
16:51
17:51
18:51
Time

(/)

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Recent Cities

Perry Hall, MD (weather/us/md/perry-hall/39.38,-76.46) Rensselaer, NY (weather/us/ny/rensselaer/42.62,-73.74) Kearny, NJ (weather/us/nj/kearny/40.78

Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

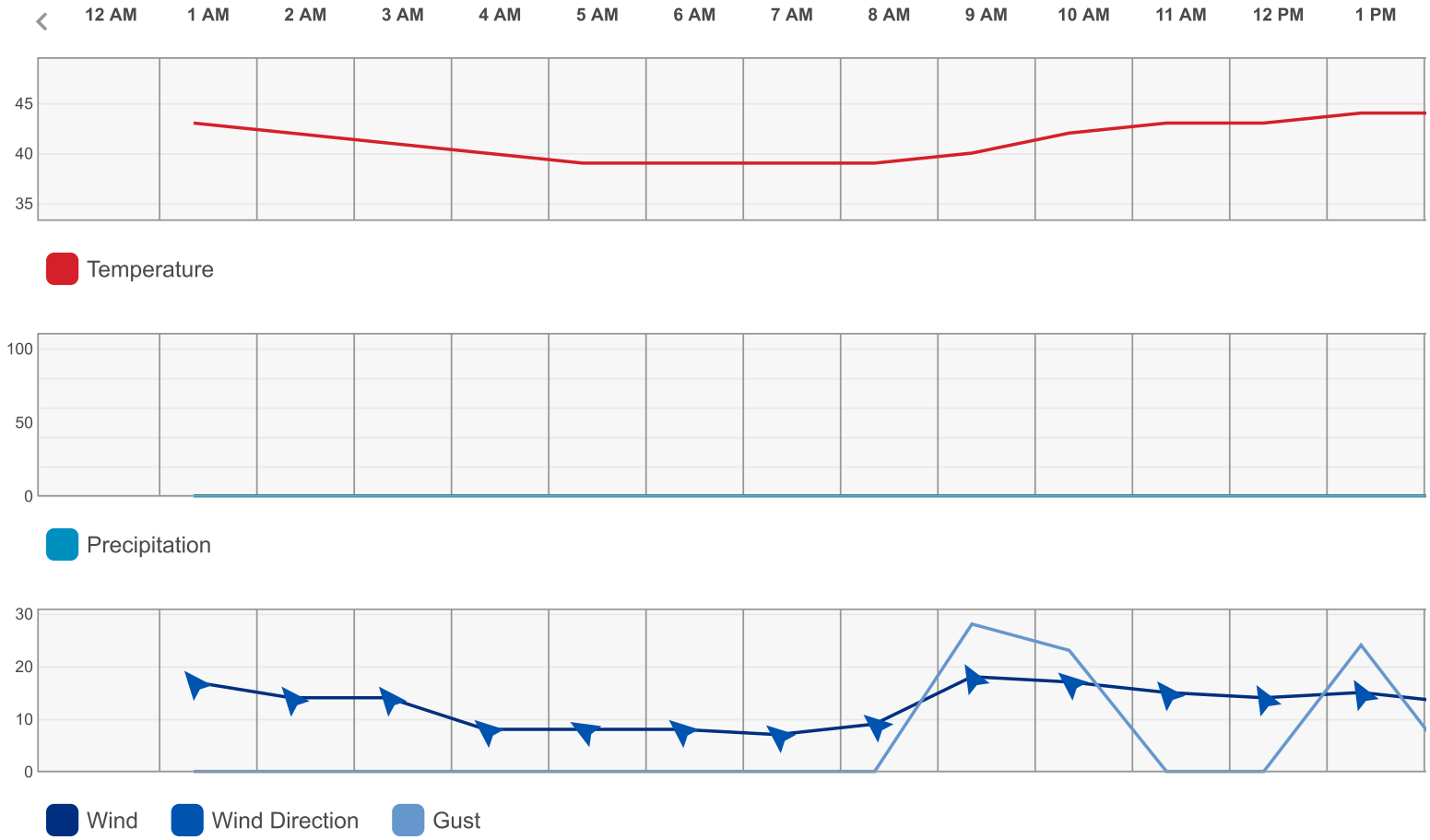
20° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7)

- TODAY (/WEATHER/US/NJ/NEWARK)
- HOURLY (/HOURLY/US/NJ/NEWARK)
- 10-DAY (/FORECAST/US/NJ/NEWARK)
- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7)
- WUNDERMAP (/WUNDERMAP?LAT=40.6922226&LON=-74.16860962)

Daily Weekly Monthly

February 22 2019 View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	45	44	70
Low Temp	36	28	8
Day Average Temp	41	36	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.1	1.53
Month to Date	3.04	2.22	-
Year to Date	6.83	5.76	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	24	29	-
HDD Month to Date	623	682	-
HDD Since July 1	3375	3466	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	22	-	-
High	24	-	-
Low	20	-	-
Average	22	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	22	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.46	-	-

Temperature (° F)	Actual	Historic Avg.	Record

Astronomy	Day Length	Rise	Set
Actual Time	10h 57m	6:42 AM	5:40 PM
Civil Twilight		6:15 AM	6:08 PM
Nautical Twilight		5:43 AM	6:40 PM
Astronomical Twilight		5:11 AM	7:11 PM
Moon: waning gibbous		9:29 PM	8:45 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	43 ° F	24 ° F	47 %	NW	17 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
1:51 AM	42 ° F	23 ° F	47 %	NW	14 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
2:51 AM	41 ° F	23 ° F	49 %	NW	14 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
3:51 AM	40 ° F	22 ° F	49 %	NW	8 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
4:51 AM	39 ° F	22 ° F	50 %	WNW	8 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
5:51 AM	39 ° F	23 ° F	53 %	NW	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
6:51 AM	39 ° F	23 ° F	53 %	NW	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
7:51 AM	39 ° F	23 ° F	53 %	NW	9 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
8:51 AM	40 ° F	20 ° F	45 %	NNW	18 mph	28 mph	30.3 in	0.0 in	0.0 in	Mostly Cloudy
9:51 AM	42 ° F	21 ° F	43 %	NW	17 mph	23 mph	30.3 in	0.0 in	0.0 in	Mostly Cloudy
10:51 AM	43 ° F	21 ° F	42 %	NW	15 mph	0 mph	30.4 in	0.0 in	0.0 in	Mostly Cloudy
11:51 AM	43 ° F	21 ° F	42 %	NNW	14 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
12:51 PM	44 ° F	21 ° F	40 %	NNW	15 mph	24 mph	30.3 in	0.0 in	0.0 in	Cloudy
1:51 PM	44 ° F	21 ° F	40 %	NW	13 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
2:51 PM	44 ° F	21 ° F	40 %	NNW	7 mph	16 mph	30.3 in	0.0 in	0.0 in	Cloudy
3:51 PM	45 ° F	21 ° F	39 %	NW	13 mph	21 mph	30.4 in	0.0 in	0.0 in	Cloudy
4:51 PM	44 ° F	20 ° F	38 %	NW	10 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
5:51 PM	42 ° F	20 ° F	41 %	NW	12 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
6:51 PM	41 ° F	21 ° F	45 %	NNW	14 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
7:51 PM	40 ° F	21 ° F	47 %	NNW	13 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
8:51 PM	39 ° F	22 ° F	50 %	NNW	10 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
9:51 PM	38 ° F	22 ° F	53 %	NNW	8 mph	0 mph	30.4 in	0.0 in	0.0 in	Mostly Cloudy
10:51 PM	37 ° F	22 ° F	54 %	N	8 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
11:51 PM	37 ° F	22 ° F	54 %	N	9 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy

Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

20° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7)

- TODAY (/WEATHER/US/NJ/NEWARK)
- HOURLY (/HOURLY/US/NJ/NEWARK)
- 10-DAY (/FORECAST/US/NJ/NEWARK)
- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7)
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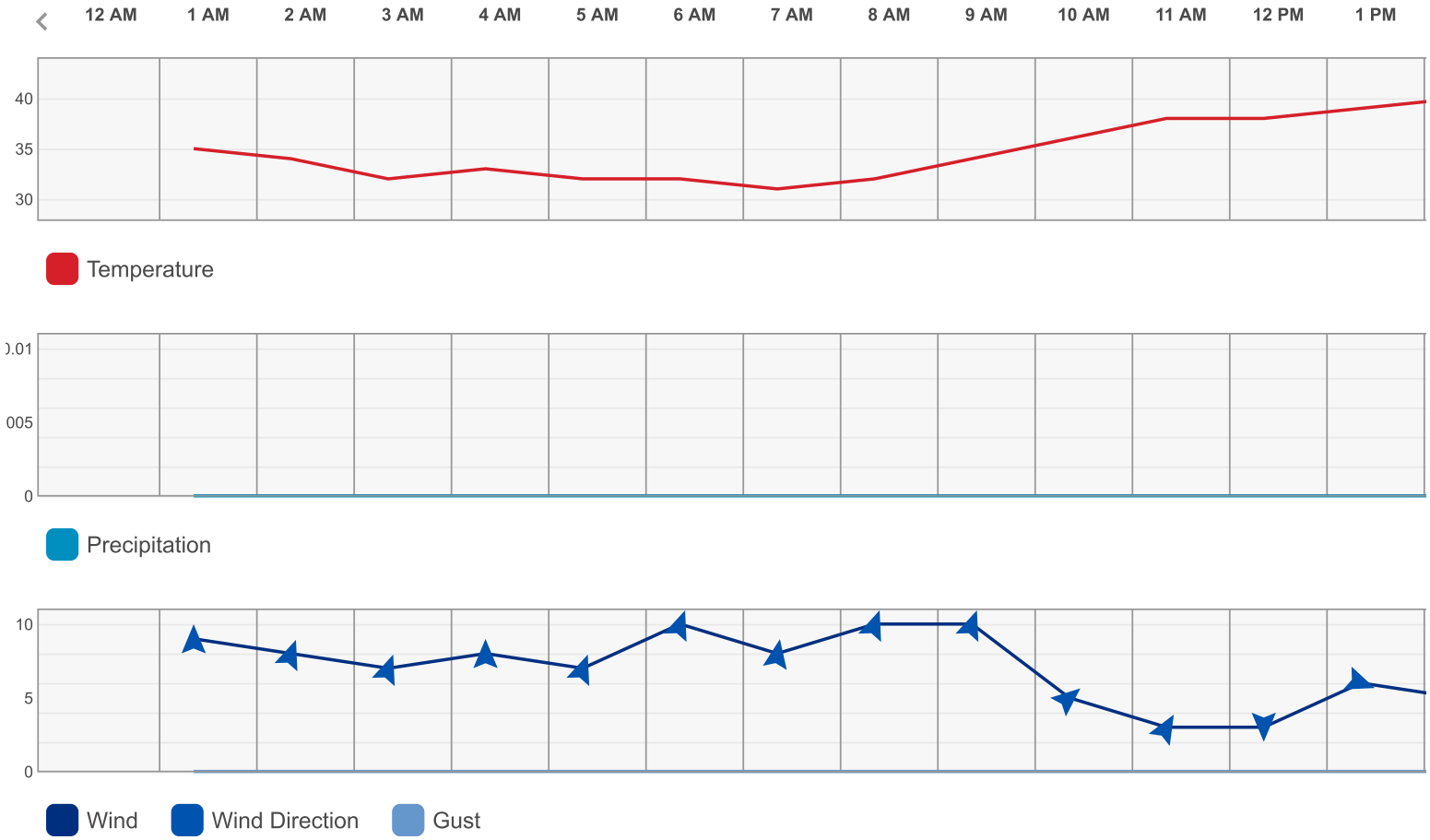
Daily Weekly Monthly

February 23 2019 View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	40	44	68
Low Temp	31	28	7
Day Average Temp	36	36	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0.02	0.11	1.15
Month to Date	3.06	2.33	-
Year to Date	6.85	5.87	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	29	29	-
HDD Month to Date	652	711	-
HDD Since July 1	3404	3495	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	27	-	-
High	36	-	-
Low	22	-	-
Average	27	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	13	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.5	-	-

Temperature (° F)	Actual	Historic Avg.	Record

Astronomy	Day Length	Rise	Set
Actual Time	11h 0m	6:41 AM	5:41 PM
Civil Twilight		6:13 AM	6:09 PM
Nautical Twilight		5:41 AM	6:41 PM
Astronomical Twilight		5:10 AM	7:12 PM
Moon: waning gibbous		10:38 PM	9:17 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	35 ° F	23 ° F	61 %	N	9 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
1:51 AM	34 ° F	23 ° F	64 %	NNE	8 mph	0 mph	30.5 in	0.0 in	0.0 in	Cloudy
2:51 AM	32 ° F	23 ° F	69 %	NNE	7 mph	0 mph	30.5 in	0.0 in	0.0 in	Cloudy
3:51 AM	33 ° F	23 ° F	66 %	N	8 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
4:51 AM	32 ° F	23 ° F	69 %	NNE	7 mph	0 mph	30.5 in	0.0 in	0.0 in	Mostly Cloudy
5:51 AM	32 ° F	23 ° F	69 %	NNE	10 mph	0 mph	30.5 in	0.0 in	0.0 in	Mostly Cloudy
6:51 AM	31 ° F	23 ° F	72 %	N	8 mph	0 mph	30.5 in	0.0 in	0.0 in	Mostly Cloudy
7:51 AM	32 ° F	23 ° F	69 %	NNE	10 mph	0 mph	30.5 in	0.0 in	0.0 in	Cloudy
8:51 AM	34 ° F	22 ° F	61 %	NNE	10 mph	0 mph	30.5 in	0.0 in	0.0 in	Cloudy
9:51 AM	36 ° F	22 ° F	57 %	NE	5 mph	0 mph	30.5 in	0.0 in	0.0 in	Cloudy
10:51 AM	38 ° F	22 ° F	53 %	NNE	3 mph	0 mph	30.5 in	0.0 in	0.0 in	Cloudy
11:51 AM	38 ° F	22 ° F	53 %	S	3 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
12:51 PM	39 ° F	23 ° F	53 %	ESE	6 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
1:51 PM	40 ° F	25 ° F	55 %	ESE	5 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
2:51 PM	39 ° F	26 ° F	60 %	SE	7 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
3:51 PM	38 ° F	29 ° F	70 %	SSE	5 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
4:51 PM	39 ° F	30 ° F	70 %	SSE	5 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
5:51 PM	38 ° F	30 ° F	73 %	SSE	5 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
6:51 PM	39 ° F	32 ° F	76 %	ESE	6 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
7:51 PM	39 ° F	33 ° F	79 %	ENE	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Rain
8:51 PM	39 ° F	32 ° F	76 %	ESE	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
9:51 PM	39 ° F	33 ° F	79 %	E	6 mph	0 mph	30.2 in	0.0 in	0.0 in	Light Rain
10:51 PM	38 ° F	34 ° F	86 %	E	7 mph	0 mph	30.2 in	0.0 in	0.0 in	Light Rain
11:18 PM	38 ° F	35 ° F	89 %	ENE	6 mph	0 mph	30.2 in	0.0 in	0.0 in	Light Rain
11:51 PM	38 ° F	36 ° F	93 %	ENE	7 mph	0 mph	30.1 in	0.0 in	0.0 in	Light Rain

(/)

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Recent Cities

Perry Hall, MD (weather/us/md/perry-hall/39.38,-76.46) Rensselaer, NY (weather/us/ny/rensselaer/42.62,-73.74) Kearny, NJ (weather/us/nj/kearny/40.78,-74.14)

Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

25° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6)

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- HOURLY (/HOURLY/US/NJ/NEWARK)
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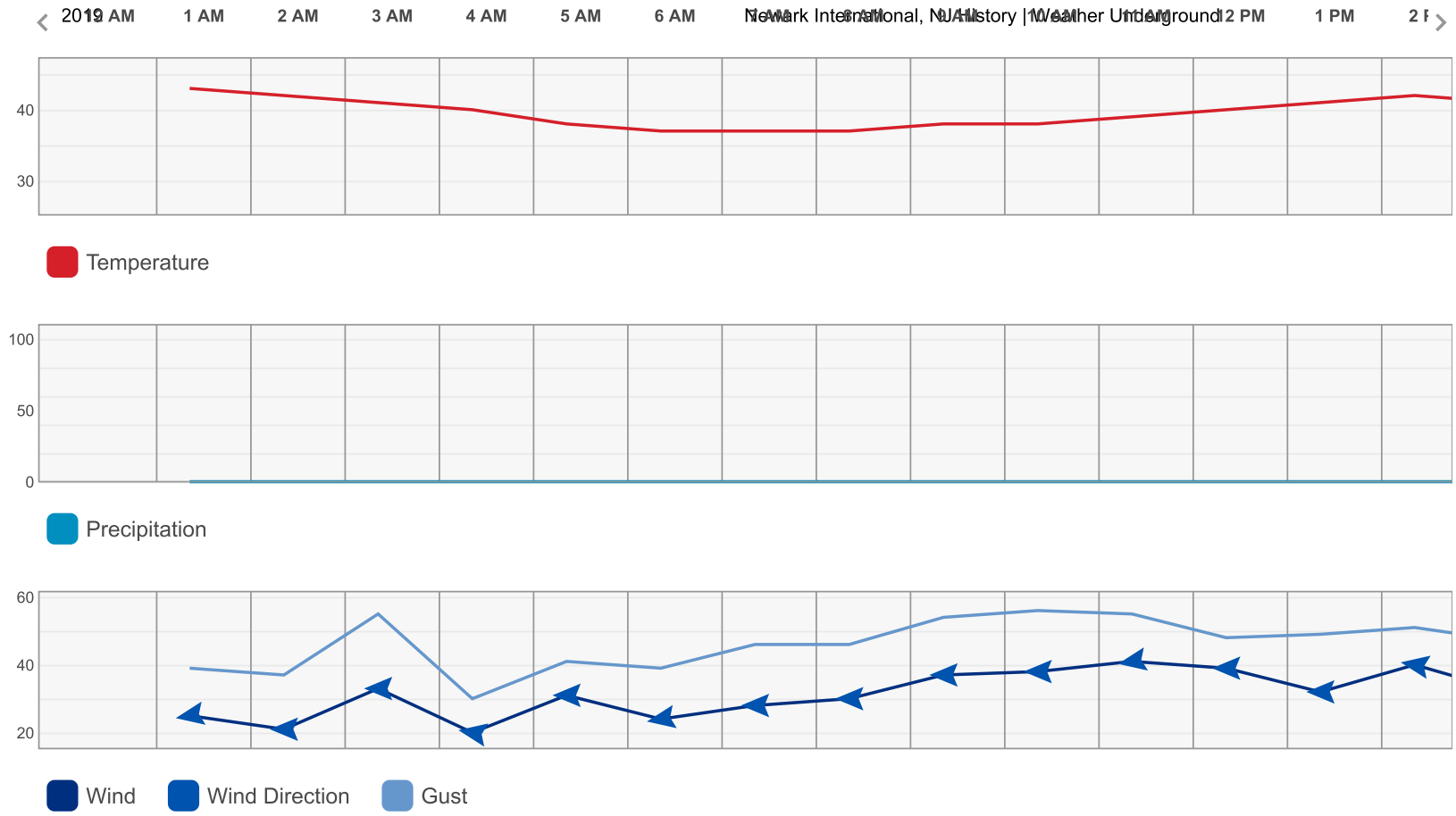
Daily Weekly Monthly

February **25** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	43	45	68
Low Temp	28	29	10
Day Average Temp	36	37	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.11	1.39

Temperature (° F)	Actual	Historic Avg.	Record
Month to Date	3.87	2.55	-
Year to Date	7.66	6.09	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	29	28	-
HDD Month to Date	704	768	-
HDD Since July 1	3456	3552	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	11	-	-
High	19	-	-
Low	6	-	-
Average	11	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	46	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.22	-	-

Astronomy	Day Length	Rise	Set

Temperature (° F)	Actual	Historic Avg.	Record
Actual Time	11h 5m	6:38 AM	5:43 PM
Civil Twilight		6:10 AM	6:11 PM
Nautical Twilight		5:39 AM	6:43 PM
Astronomical Twilight		5:07 AM	7:14 PM
Moon: waxing crescent		-	-

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	43 ° F	19 ° F	38 %	W	25 mph	39 mph	29.5 in	0.0 in	0.0 in	Mostly Cloudy / Windy
1:51 AM	42 ° F	17 ° F	37 %	W	21 mph	37 mph	29.5 in	0.0 in	0.0 in	Partly Cloudy / Windy
2:51 AM	41 ° F	13 ° F	32 %	W	33 mph	55 mph	29.5 in	0.0 in	0.0 in	Mostly Cloudy / Windy
3:51 AM	40 ° F	16 ° F	38 %	W	20 mph	30 mph	29.5 in	0.0 in	0.0 in	Mostly Cloudy
4:51 AM	38 ° F	15 ° F	39 %	W	31 mph	41 mph	29.6 in	0.0 in	0.0 in	Mostly Cloudy / Windy
5:51 AM	37 ° F	13 ° F	37 %	W	24 mph	39 mph	29.6 in	0.0 in	0.0 in	Partly Cloudy / Windy
6:51 AM	37 ° F	14 ° F	39 %	W	28 mph	46 mph	29.6 in	0.0 in	0.2 in	Mostly Cloudy / Windy
7:51 AM	37 ° F	12 ° F	36 %	W	30 mph	46 mph	29.7 in	0.0 in	0.0 in	Mostly Cloudy / Windy
8:51 AM	38 ° F	11 ° F	33 %	W	37 mph	54 mph	29.7 in	0.0 in	0.0 in	Mostly Cloudy / Windy
9:51 AM	38 ° F	11 ° F	33 %	W	38 mph	56 mph	29.7 in	0.0 in	0.0 in	Mostly Cloudy / Windy
10:51 AM	39 ° F	11 ° F	32 %	W	41 mph	55 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy / Windy
11:51 AM	40 ° F	11 ° F	31 %	W	39 mph	48 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy / Windy
12:51 PM	41 ° F	10 ° F	28 %	W	32 mph	49 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy / Windy
1:51 PM	42 ° F	10 ° F	27 %	W	40 mph	51 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy / Windy
2:51 PM	41 ° F	10 ° F	28 %	WNW	32 mph	47 mph	29.9 in	0.0 in	0.0 in	Fair / Windy
3:51 PM	41 ° F	10 ° F	28 %	W	29 mph	46 mph	29.9 in	0.0 in	0.0 in	Fair / Windy
4:51 PM	40 ° F	9 ° F	28 %	WNW	29 mph	40 mph	29.9 in	0.0 in	0.0 in	Fair / Windy
5:51 PM	39 ° F	7 ° F	27 %	WNW	22 mph	41 mph	30.0 in	0.0 in	0.0 in	Fair / Windy
6:51 PM	37 ° F	7 ° F	29 %	WNW	17 mph	32 mph	30.1 in	0.0 in	0.0 in	Fair
7:51 PM	34 ° F	9 ° F	35 %	WNW	22 mph	29 mph	30.1 in	0.0 in	0.0 in	Fair / Windy
8:51 PM	32 ° F	9 ° F	38 %	WNW	25 mph	32 mph	30.1 in	0.0 in	0.0 in	Fair / Windy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
9:51 PM	31 ° F	7 ° F	37 %	WNW	20 mph	32 mph	30.2 in	0.0 in	0.0 in	Fair
10:51 PM	29 ° F	6 ° F	38 %	WNW	20 mph	32 mph	30.2 in	0.0 in	0.0 in	Fair
11:51 PM	28 ° F	6 ° F	39 %	W	20 mph	28 mph	30.2 in	0.0 in	0.0 in	Fair

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Recent Cities

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Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

25° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6)

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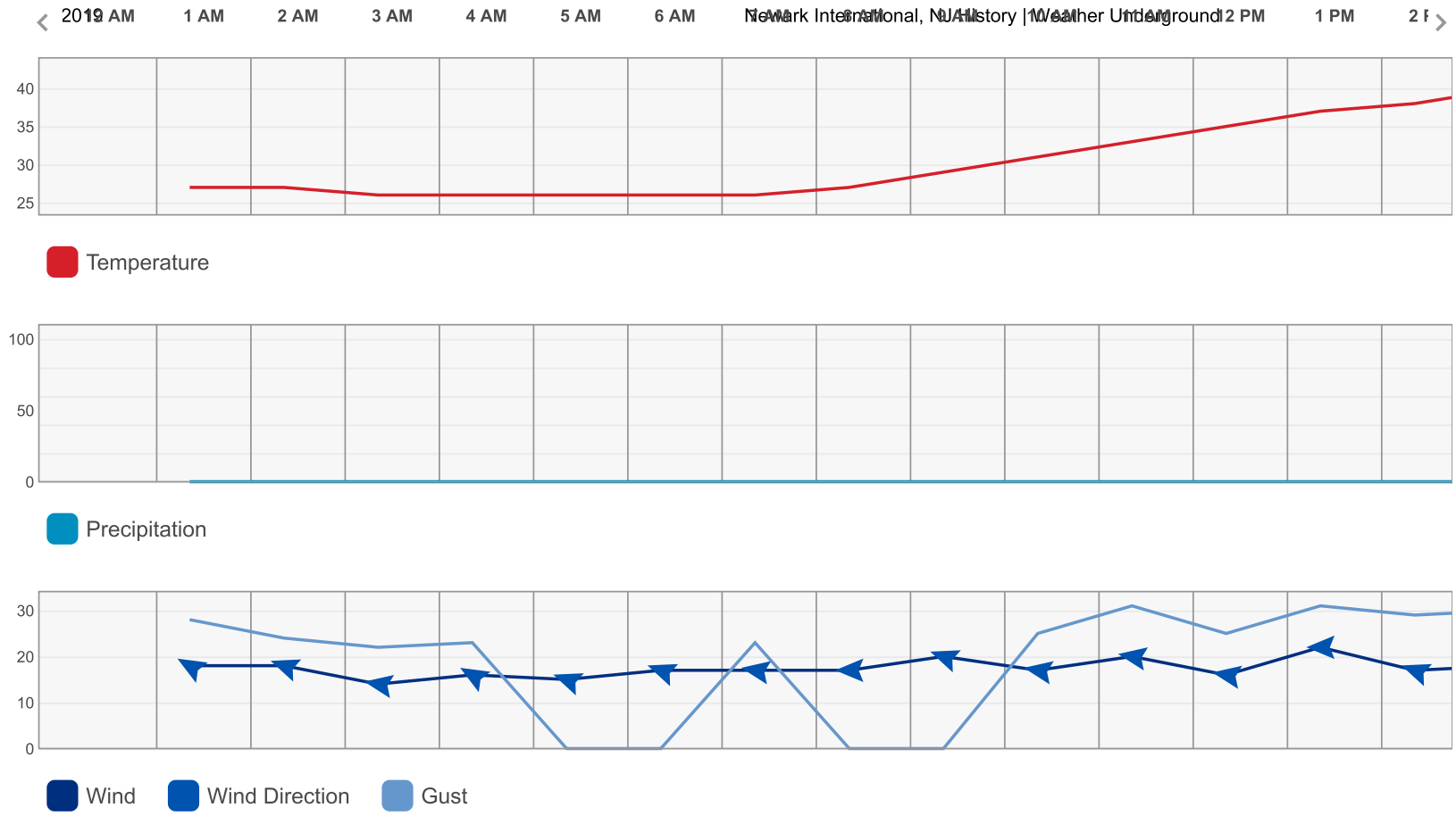
- WUNDERMAP (/WUNDERMAP?LAT=40.6922226&LON=-74.16860962)

Daily Weekly Monthly

February **26** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	40	45	68
Low Temp	25	29	8
Day Average Temp	33	37	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.1	1.57

Temperature (° F)	Actual	Historic Avg.	Record
Month to Date	3.87	2.65	-
Year to Date	7.66	6.19	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	32	28	-
HDD Month to Date	736	796	-
HDD Since July 1	3488	3580	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	6	-	-
High	8	-	-
Low	3	-	-
Average	6	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	25	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.47	-	-

Astronomy	Day Length	Rise	Set

Temperature (° F)	Actual	Historic Avg.	Record
Actual Time	11h 8m	6:37 AM	5:45 PM
Civil Twilight		6:09 AM	6:12 PM
Nautical Twilight		5:37 AM	6:44 PM
Astronomical Twilight		5:06 AM	7:16 PM
Moon: waning gibbous		12:49 AM	11:01 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	27 ° F	6 ° F	41 %	WNW	18 mph	28 mph	30.2 in	0.0 in	0.0 in	Fair
1:51 AM	27 ° F	6 ° F	41 %	WNW	18 mph	24 mph	30.3 in	0.0 in	0.0 in	Fair
2:51 AM	26 ° F	6 ° F	43 %	W	14 mph	22 mph	30.3 in	0.0 in	0.0 in	Fair
3:51 AM	26 ° F	7 ° F	44 %	WNW	16 mph	23 mph	30.3 in	0.0 in	0.0 in	Fair
4:51 AM	26 ° F	7 ° F	44 %	WNW	15 mph	0 mph	30.3 in	0.0 in	0.0 in	Fair
5:51 AM	26 ° F	8 ° F	47 %	WNW	17 mph	0 mph	30.3 in	0.0 in	0.0 in	Fair
6:51 AM	26 ° F	8 ° F	47 %	W	17 mph	23 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
7:51 AM	27 ° F	7 ° F	43 %	W	17 mph	0 mph	30.4 in	0.0 in	0.0 in	Partly Cloudy
8:51 AM	29 ° F	3 ° F	33 %	WNW	20 mph	0 mph	30.3 in	0.0 in	0.0 in	Fair
9:51 AM	31 ° F	3 ° F	31 %	W	17 mph	25 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
10:51 AM	33 ° F	3 ° F	28 %	W	20 mph	31 mph	30.3 in	0.0 in	0.0 in	Mostly Cloudy
11:51 AM	35 ° F	4 ° F	27 %	W	16 mph	25 mph	30.3 in	0.0 in	0.0 in	Mostly Cloudy
12:51 PM	37 ° F	5 ° F	26 %	W	22 mph	31 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy / Windy
1:51 PM	38 ° F	7 ° F	28 %	WNW	17 mph	29 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
2:51 PM	40 ° F	7 ° F	26 %	NW	18 mph	30 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
2:58 PM	39 ° F	7 ° F	27 %	WNW	15 mph	26 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
3:51 PM	39 ° F	8 ° F	28 %	WNW	20 mph	30 mph	30.3 in	0.0 in	0.0 in	Mostly Cloudy
4:51 PM	37 ° F	8 ° F	30 %	NW	16 mph	23 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
5:51 PM	34 ° F	8 ° F	34 %	NNW	20 mph	28 mph	30.3 in	0.0 in	0.0 in	Partly Cloudy
6:51 PM	32 ° F	8 ° F	37 %	NNW	14 mph	0 mph	30.4 in	0.0 in	0.0 in	Partly Cloudy
7:51 PM	30 ° F	5 ° F	35 %	NNW	18 mph	0 mph	30.4 in	0.0 in	0.0 in	Partly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
8:51 PM	29 ° F	6 ° F	38 %	NNW	14 mph	24 mph	30.4 in	0.0 in	0.0 in	Partly Cloudy
9:51 PM	27 ° F	6 ° F	41 %	N	17 mph	0 mph	30.4 in	0.0 in	0.0 in	Partly Cloudy
10:51 PM	26 ° F	6 ° F	43 %	N	14 mph	0 mph	30.4 in	0.0 in	0.0 in	Mostly Cloudy
11:51 PM	26 ° F	5 ° F	41 %	NNW	16 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy

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Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

30° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-1?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-1)

- TODAY (/WEATHER/US/NJ/KEARNY/KNJKEARN5)
- HOURLY (/HOURLY/US/NJ/KEARNY/KNJKEARN5)
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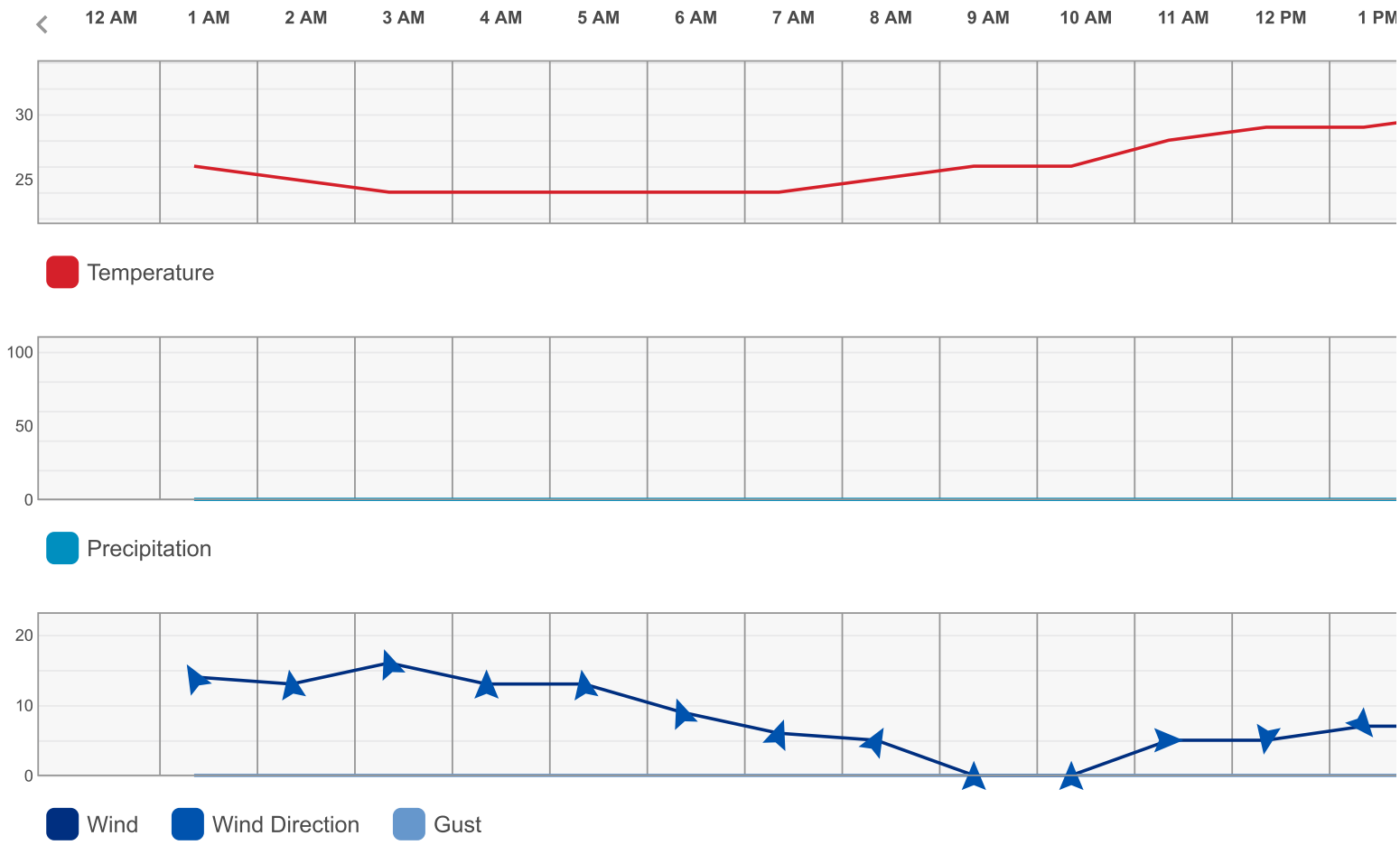
Daily Weekly Monthly

February **27** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	31	45	74
Low Temp	24	29	7
Day Average Temp	28	37	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.12	1.33
Month to Date	3.87	2.77	-
Year to Date	7.66	6.31	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	37	28	-
HDD Month to Date	773	824	-
HDD Since July 1	3525	3608	-

Temperature (° F)	Actual	Historic Avg.	Record
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	12	-	-
High	27	-	-
Low	1	-	-
Average	12	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	20	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.47	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 10m	6:35 AM	5:46 PM
Civil Twilight		6:08 AM	6:13 PM
Nautical Twilight		5:36 AM	6:45 PM
Astronomical Twilight		5:04 AM	7:17 PM
Moon: waning crescent		1:50 AM	11:42 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	26 ° F	5 ° F	41 %	NNW	14 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
1:51 AM	25 ° F	5 ° F	43 %	N	13 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
2:51 AM	24 ° F	5 ° F	44 %	NNW	16 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
3:51 AM	24 ° F	2 ° F	38 %	N	13 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
4:51 AM	24 ° F	1 ° F	37 %	N	13 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
5:51 AM	24 ° F	1 ° F	37 %	NNW	9 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
6:51 AM	24 ° F	3 ° F	40 %	NNE	6 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
7:51 AM	25 ° F	3 ° F	39 %	NNE	5 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
8:51 AM	26 ° F	5 ° F	41 %	CALM	0 mph	0 mph	30.4 in	0.0 in	0.0 in	Mostly Cloudy
9:51 AM	26 ° F	6 ° F	43 %	CALM	0 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
10:51 AM	28 ° F	7 ° F	41 %	E	5 mph	0 mph	30.4 in	0.0 in	0.0 in	Mostly Cloudy
11:51 AM	29 ° F	7 ° F	40 %	S	5 mph	0 mph	30.4 in	0.0 in	0.0 in	Cloudy
12:51 PM	29 ° F	9 ° F	43 %	SE	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
1:51 PM	30 ° F	11 ° F	45 %	VAR	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
2:51 PM	30 ° F	14 ° F	51 %	SE	9 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
3:51 PM	29 ° F	16 ° F	58 %	SE	10 mph	21 mph	30.2 in	0.0 in	0.0 in	Mostly Cloudy
4:51 PM	29 ° F	16 ° F	58 %	SSE	13 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
5:51 PM	28 ° F	16 ° F	61 %	SE	12 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
6:51 PM	30 ° F	17 ° F	59 %	SE	7 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
7:51 PM	30 ° F	19 ° F	64 %	SE	9 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
8:25 PM	30 ° F	20 ° F	66 %	SE	8 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
8:51 PM	30 ° F	21 ° F	69 %	SE	9 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
9:51 PM	30 ° F	23 ° F	75 %	SE	7 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
10:43 PM	31 ° F	25 ° F	79 %	SE	5 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
10:51 PM	31 ° F	25 ° F	79 %	ESE	3 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
11:41 PM	31 ° F	26 ° F	82 %	ESE	5 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
11:51 PM	31 ° F	27 ° F	85 %	VAR	3 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy

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Newark International, NJ ★

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HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-1)

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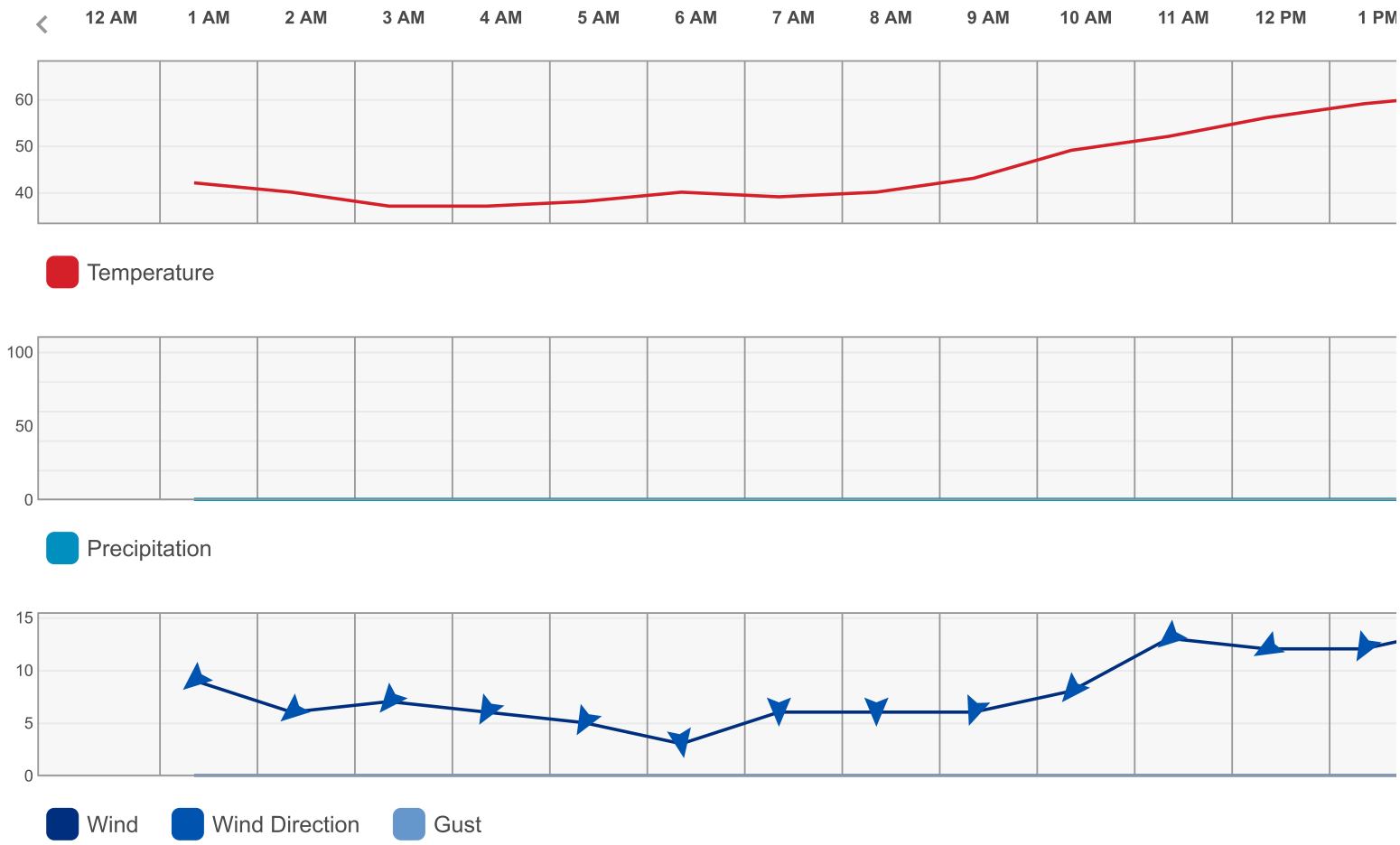
Daily Weekly Monthly

February **28** **2018** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	62	46	68
Low Temp	36	29	0
Day Average Temp	49	38	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.11	1.21
Month to Date	5.74	2.88	-
Year to Date	7.8	6.42	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	16	28	-
HDD Month to Date	657	852	-
HDD Since July 1	3325	3635	-

Temperature (° F)	Actual	Historic Avg.	Record
Cooling Degree Days	0	0	-
CDD Month to Date	3	0	-
CDD Year to Date	3	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	31	-	-
High	37	-	-
Low	27	-	-
Average	31	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	17	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.22	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 14m	6:33 AM	5:47 PM
Civil Twilight		6:06 AM	6:15 PM
Nautical Twilight		5:34 AM	6:46 PM
Astronomical Twilight		5:02 AM	7:18 PM
Moon: waxing gibbous		4:22 PM	5:42 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	42 ° F	28 ° F	58 %	SW	9 mph	0 mph	30.2 in	0.0 in	0.0 in	Mostly Cloudy
1:51 AM	40 ° F	27 ° F	60 %	SW	6 mph	0 mph	30.2 in	0.0 in	0.0 in	Fair
2:51 AM	37 ° F	27 ° F	67 %	SW	7 mph	0 mph	30.2 in	0.0 in	0.0 in	Partly Cloudy
3:51 AM	37 ° F	27 ° F	67 %	SSW	6 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
4:51 AM	38 ° F	28 ° F	68 %	SSW	5 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
5:51 AM	40 ° F	29 ° F	65 %	S	3 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
6:51 AM	39 ° F	28 ° F	65 %	S	6 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
7:51 AM	40 ° F	28 ° F	63 %	S	6 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
8:51 AM	43 ° F	29 ° F	58 %	SSW	6 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
9:51 AM	49 ° F	29 ° F	46 %	SW	8 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
10:51 AM	52 ° F	29 ° F	41 %	SW	13 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
11:51 AM	56 ° F	30 ° F	37 %	WSW	12 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
12:51 PM	59 ° F	31 ° F	35 %	SSW	12 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
1:51 PM	61 ° F	32 ° F	34 %	SW	14 mph	0 mph	29.9 in	0.0 in	0.0 in	Partly Cloudy
2:51 PM	62 ° F	32 ° F	32 %	SW	13 mph	0 mph	29.9 in	0.0 in	0.0 in	Partly Cloudy
3:51 PM	62 ° F	33 ° F	34 %	SW	12 mph	0 mph	29.9 in	0.0 in	0.0 in	Mostly Cloudy
4:51 PM	61 ° F	33 ° F	35 %	SW	9 mph	0 mph	29.9 in	0.0 in	0.0 in	Mostly Cloudy
5:51 PM	58 ° F	34 ° F	41 %	SSW	10 mph	0 mph	29.9 in	0.0 in	0.0 in	Partly Cloudy
6:51 PM	58 ° F	34 ° F	41 %	SW	10 mph	0 mph	29.9 in	0.0 in	0.0 in	Partly Cloudy
7:51 PM	57 ° F	35 ° F	44 %	SSW	12 mph	0 mph	29.9 in	0.0 in	0.0 in	Mostly Cloudy
8:51 PM	57 ° F	36 ° F	45 %	SW	10 mph	0 mph	29.9 in	0.0 in	0.0 in	Cloudy
9:51 PM	55 ° F	36 ° F	49 %	SSW	7 mph	0 mph	29.9 in	0.0 in	0.0 in	Cloudy
10:51 PM	54 ° F	37 ° F	53 %	SW	9 mph	0 mph	29.9 in	0.0 in	0.0 in	Cloudy
11:51 PM	54 ° F	37 ° F	53 %	WSW	8 mph	0 mph	29.9 in	0.0 in	0.0 in	Cloudy

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Daily Weekly Monthly

March

Vi

Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	36	46	75
Low Temp	25	30	7
Day Average Temp	31	38	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0.05	0.12	1.96
Month to Date	0.05	0.12	-
Year to Date	7.73	6.54	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	34	27	-
HDD Month to Date	34	27	-
HDD Since July 1	3591	3662	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	24	-	-
High	28	-	-
Low	10	-	-
Average	24	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	15	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.35	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 15m	6:32 AM	5:48 PM
Civil Twilight		6:05 AM	6:16 PM

Temperature (° F)	Actual	Historic Avg.	Record
Nautical Twilight		5:33 AM	6:47 PM
Astronomical Twilight		5:01 AM	7:19 PM
Moon: waning crescent		3:38 AM	1:16 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
Fri Mar 01 2019 00:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	10 ° F	43 %	N	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 01:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	10 ° F	43 %	N	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 02:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	11 ° F	45 %	NNE	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 03:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	12 ° F	47 %	N	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 04:51:00 GMT-0500 (Eastern Standard Time)	28 ° F	17 ° F	63 %	NNW	16 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 05:12:00 GMT-0500 (Eastern Standard Time)	26 ° F	21 ° F	81 %	N	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 05:51:00 GMT-0500 (Eastern Standard Time)	25 ° F	23 ° F	92 %	NNE	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 06:06:00 GMT-0500 (Eastern Standard Time)	25 ° F	23 ° F	92 %	N	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 06:29:00 GMT-0500 (Eastern Standard Time)	25 ° F	23 ° F	92 %	NNE	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 06:51:00 GMT-0500 (Eastern Standard Time)	26 ° F	23 ° F	88 %	N	8 mph	0 mph	30.3 in	0.0 in	0.1 in	Light Snow
Fri Mar 01 2019 06:59:00 GMT-0500 (Eastern Standard Time)	26 ° F	23 ° F	88 %	N	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 07:42:00 GMT-0500 (Eastern Standard Time)	26 ° F	24 ° F	92 %	N	10 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 07:51:00 GMT-0500 (Eastern Standard Time)	27 ° F	24 ° F	89 %	NNE	9 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 08:51:00 GMT-0500 (Eastern Standard Time)	28 ° F	26 ° F	92 %	N	10 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 09:03:00 GMT-0500 (Eastern Standard Time)	28 ° F	25 ° F	88 %	N	9 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 09:51:00 GMT-0500 (Eastern Standard Time)	29 ° F	25 ° F	85 %	NNE	9 mph	0 mph	30.3 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 10:27:00 GMT-0500 (Eastern Standard Time)	30 ° F	26 ° F	85 %	N	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 10:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	26 ° F	85 %	NNE	9 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 11:51:00 GMT-0500 (Eastern Standard Time)	32 ° F	27 ° F	82 %	NNE	6 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 12:51:00 GMT-0500 (Eastern Standard Time)	34 ° F	27 ° F	75 %	VAR	5 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 13:51:00 GMT-0500 (Eastern Standard Time)	35 ° F	27 ° F	72 %	NE	6 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 14:51:00 GMT-0500 (Eastern Standard Time)	35 ° F	27 ° F	72 %	ENE	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 15:51:00 GMT-0500 (Eastern Standard Time)	36 ° F	27 ° F	70 %	E	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 16:51:00 GMT-0500 (Eastern Standard Time)	36 ° F	27 ° F	70 %	ENE	6 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 17:51:00 GMT-0500 (Eastern Standard Time)	35 ° F	27 ° F	72 %	NE	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 18:28:00 GMT-0500 (Eastern Standard Time)	35 ° F	28 ° F	76 %	NNE	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 18:51:00 GMT-0500 (Eastern Standard Time)	34 ° F	28 ° F	79 %	NNE	7 mph	0 mph	30.3 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 19:51:00 GMT-0500 (Eastern Standard Time)	34 ° F	28 ° F	79 %	NNE	10 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 20:51:00 GMT-0500 (Eastern Standard Time)	34 ° F	28 ° F	79 %	NE	9 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 21:51:00 GMT-0500 (Eastern Standard Time)	35 ° F	28 ° F	76 %	NE	9 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 22:51:00 GMT-0500 (Eastern Standard Time)	35 ° F	27 ° F	72 %	NE	9 mph	0 mph	30.2 in	0.0 in	0.0 in	Cloudy
Fri Mar 01 2019 23:17:00 GMT-0500 (Eastern Standard Time)	34 ° F	27 ° F	75 %	NE	13 mph	0 mph	30.1 in	0.0 in	0.0 in	Light Snow
Fri Mar 01 2019 23:51:00 GMT-0500 (Eastern Standard Time)	33 ° F	28 ° F	82 %	NE	12 mph	0 mph	30.1 in	0.0 in	0.0 in	Light Snow

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Daily Weekly Monthly

March

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Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	33	0	0
Low Temp	30	0	0
Day Average Temp	32	0	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0.51	0	0
Month to Date	0	0	-
Year to Date	0	0	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	34	0	-
HDD Month to Date	0	0	-
HDD Since July 1	0	0	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	29	-	-
High	30	-	-
Low	29	-	-
Average	29	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	14	-	-
Visibility	5	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.13	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 18m	6:31 AM	5:49 PM
Civil Twilight		6:03 AM	6:17 PM

Temperature (° F)	Actual	Historic Avg.	Record
Nautical Twilight		5:31 AM	6:48 PM
Astronomical Twilight		5:00 AM	7:20 PM
Moon: waning crescent		4:23 AM	2:09 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
Sat Mar 02 2019 00:51:00 GMT-0500 (Eastern Standard Time)	33 ° F	30 ° F	89 %	NNE	9 mph	0 mph	30.1 in	0.0 in	0.0 in	Wintry Mix
Sat Mar 02 2019 01:25:00 GMT-0500 (Eastern Standard Time)	32 ° F	30 ° F	92 %	N	10 mph	0 mph	30.1 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 01:38:00 GMT-0500 (Eastern Standard Time)	32 ° F	30 ° F	92 %	N	12 mph	0 mph	30.1 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 01:51:00 GMT-0500 (Eastern Standard Time)	31 ° F	30 ° F	96 %	N	13 mph	0 mph	30.1 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 02:14:00 GMT-0500 (Eastern Standard Time)	31 ° F	30 ° F	96 %	N	14 mph	0 mph	30.1 in	0.0 in	0.0 in	Light Snow
Sat Mar 02 2019 02:39:00 GMT-0500 (Eastern Standard Time)	31 ° F	30 ° F	96 %	N	12 mph	0 mph	30.1 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 02:51:00 GMT-0500 (Eastern Standard Time)	31 ° F	30 ° F	96 %	N	13 mph	0 mph	30.1 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 03:11:00 GMT-0500 (Eastern Standard Time)	31 ° F	30 ° F	96 %	N	13 mph	0 mph	30.1 in	0.1 in	0.0 in	Snow
Sat Mar 02 2019 03:51:00 GMT-0500 (Eastern Standard Time)	31 ° F	30 ° F	96 %	N	12 mph	0 mph	30.0 in	0.1 in	0.0 in	Snow
Sat Mar 02 2019 04:13:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	NNE	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Snow
Sat Mar 02 2019 04:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	N	13 mph	0 mph	30.0 in	0.1 in	0.0 in	Snow
Sat Mar 02 2019 05:29:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	N	12 mph	0 mph	30.0 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 05:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	N	13 mph	0 mph	30.0 in	0.1 in	0.0 in	Light Snow
Sat Mar 02 2019 06:05:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	N	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
Sat Mar 02 2019 06:35:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	N	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
Sat Mar 02 2019 06:51:00 GMT-0500 (Eastern Standard Time)	30 ° F	29 ° F	96 %	N	13 mph	0 mph	30.0 in	0.0 in	0.5 in	Light Snow
Sat Mar 02 2019 07:51:00 GMT-0500 (Eastern Standard Time)	31 ° F	29 ° F	92 %	N	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
Sat Mar 02 2019 08:34:00 GMT-0500 (Eastern Standard Time)	32 ° F	29 ° F	88 %	NNE	14 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
Sat Mar 02 2019 08:51:00 GMT-0500 (Eastern Standard Time)	32 ° F	29 ° F	88 %	N	15 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
Sat Mar 02 2019 09:51:00 GMT-0500 (Eastern Standard Time)	33 ° F	30 ° F	89 %	NNE	9 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 10:51:00 GMT-0500 (Eastern Standard Time)	34 ° F	30 ° F	85 %	NNE	8 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 11:12:00 GMT-0500 (Eastern Standard Time)	35 ° F	29 ° F	78 %	NNE	8 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 11:51:00 GMT-0500 (Eastern Standard Time)	35 ° F	30 ° F	82 %	N	6 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 12:51:00 GMT-0500 (Eastern Standard Time)	37 ° F	31 ° F	79 %	VAR	3 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 13:51:00 GMT-0500 (Eastern Standard Time)	39 ° F	30 ° F	70 %	W	6 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 14:02:00 GMT-0500 (Eastern Standard Time)	39 ° F	30 ° F	70 %	W	7 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 14:51:00 GMT-0500 (Eastern Standard Time)	41 ° F	30 ° F	65 %	WSW	5 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 15:51:00 GMT-0500 (Eastern Standard Time)	39 ° F	31 ° F	73 %	SW	7 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Clou
Sat Mar 02 2019 16:51:00 GMT-0500 (Eastern Standard Time)	39 ° F	31 ° F	73 %	SW	12 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 17:51:00 GMT-0500 (Eastern Standard Time)	38 ° F	30 ° F	73 %	SSW	7 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 18:51:00 GMT-0500 (Eastern Standard Time)	39 ° F	31 ° F	73 %	WSW	12 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 19:51:00 GMT-0500 (Eastern Standard Time)	39 ° F	31 ° F	73 %	W	12 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 20:51:00 GMT-0500 (Eastern Standard Time)	38 ° F	31 ° F	76 %	W	10 mph	0 mph	30.0 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 21:51:00 GMT-0500 (Eastern Standard Time)	38 ° F	31 ° F	76 %	W	10 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 22:51:00 GMT-0500 (Eastern Standard Time)	38 ° F	31 ° F	76 %	W	12 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy
Sat Mar 02 2019 23:51:00 GMT-0500 (Eastern Standard Time)	37 ° F	31 ° F	79 %	W	10 mph	0 mph	30.1 in	0.0 in	0.0 in	Cloudy

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Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

26° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-5?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-5)

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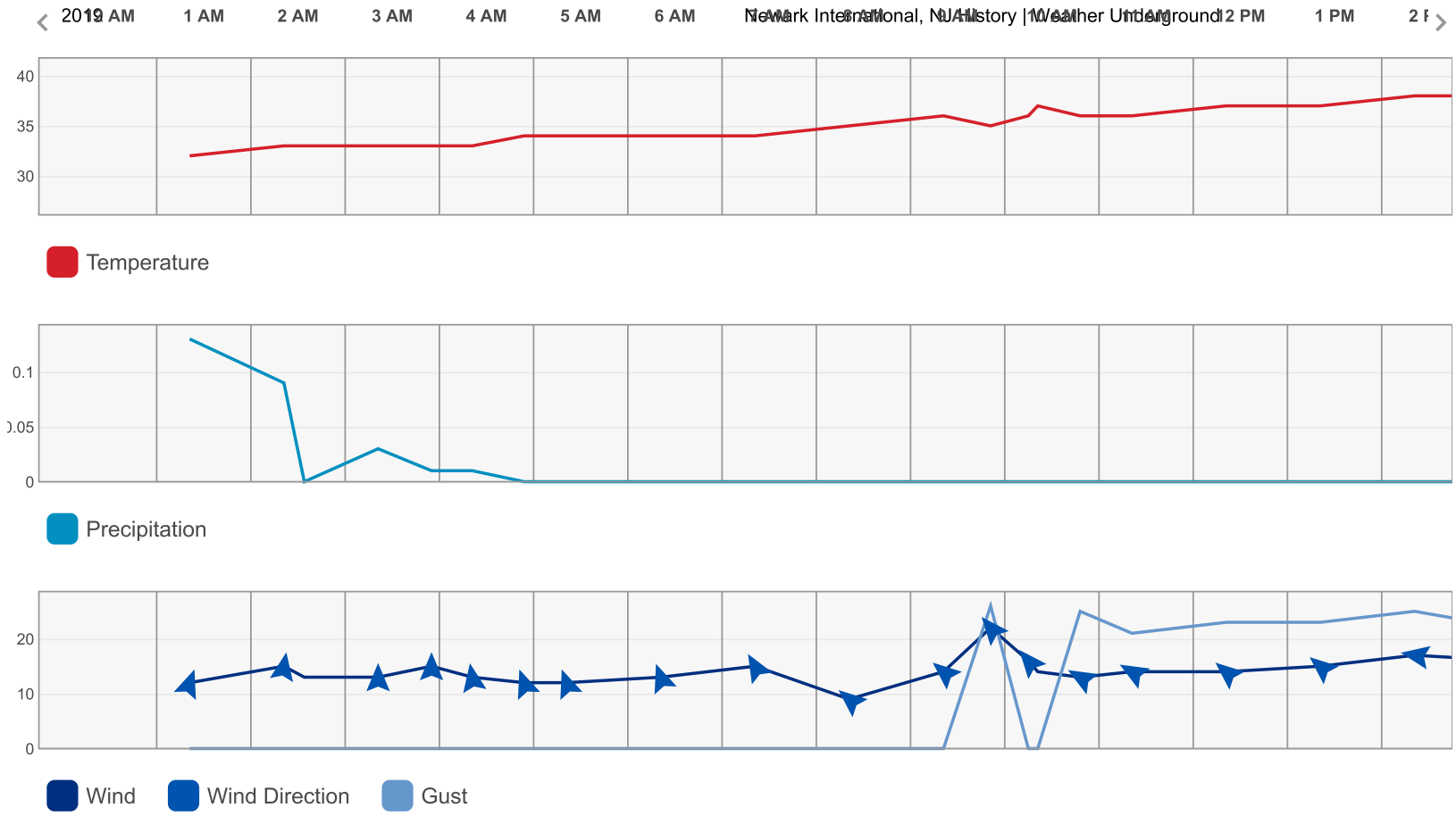
- WUNDERMAP (/WUNDERMAP?LAT=40.6922226&LON=-74.16860962)

Daily Weekly Monthly

March **4** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	39	47	72
Low Temp	29	30	6
Day Average Temp	34	38	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0.23	0.12	1.29

Temperature (° F)	Actual	Historic Avg.	Record
Month to Date	1.45	0.48	-
Year to Date	9.13	6.9	-
Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	31	27	-
HDD Month to Date	122	108	-
HDD Since July 1	3679	3743	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-
Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	25	-	-
High	32	-	-
Low	11	-	-
Average	25	-	-
Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	22	-	-
Visibility	10	-	-
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.02	-	-
Astronomy	Day Length	Rise	Set

Temperature (° F)	Actual	Historic Avg.	Record
Actual Time	11h 23m	6:27 AM	5:51 PM
Civil Twilight		6:00 AM	6:19 PM
Nautical Twilight		5:28 AM	6:50 PM
Astronomical Twilight		4:57 AM	7:22 PM
Moon: waning crescent		5:41 AM	4:01 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	32 ° F	32 ° F	100 %	NNE	12 mph	0 mph	29.7 in	0.1 in	0.0 in	Snow
1:51 AM	33 ° F	32 ° F	96 %	N	15 mph	0 mph	29.7 in	0.1 in	0.0 in	Light Snow
2:04 AM	33 ° F	32 ° F	96 %	N	13 mph	0 mph	29.7 in	0.0 in	0.0 in	Light Snow
2:51 AM	33 ° F	32 ° F	96 %	N	13 mph	0 mph	29.6 in	0.0 in	0.0 in	Wintry Mix
3:25 AM	33 ° F	32 ° F	96 %	N	15 mph	0 mph	29.6 in	0.0 in	0.0 in	Wintry Mix
3:51 AM	33 ° F	32 ° F	96 %	N	13 mph	0 mph	29.6 in	0.0 in	0.0 in	Light Snow
4:24 AM	34 ° F	32 ° F	92 %	NNW	12 mph	0 mph	29.7 in	0.0 in	0.0 in	Cloudy
4:51 AM	34 ° F	31 ° F	89 %	NNW	12 mph	0 mph	29.7 in	0.0 in	0.0 in	Cloudy
5:51 AM	34 ° F	31 ° F	89 %	NNW	13 mph	0 mph	29.7 in	0.0 in	0.0 in	Cloudy
6:51 AM	34 ° F	30 ° F	85 %	NNW	15 mph	0 mph	29.7 in	0.0 in	0.9 in	Cloudy
7:51 AM	35 ° F	31 ° F	85 %	NW	9 mph	0 mph	29.7 in	0.0 in	0.0 in	Mostly Cloudy
8:51 AM	36 ° F	29 ° F	76 %	NW	14 mph	0 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy
9:21 AM	35 ° F	27 ° F	72 %	NW	22 mph	26 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy / Windy
9:45 AM	36 ° F	27 ° F	70 %	NW	16 mph	0 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy
9:51 AM	37 ° F	28 ° F	70 %	NW	14 mph	0 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy
10:18 AM	36 ° F	26 ° F	67 %	WNW	13 mph	25 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy
10:51 AM	36 ° F	25 ° F	64 %	WNW	14 mph	21 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy
11:51 AM	37 ° F	23 ° F	57 %	NW	14 mph	23 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy
12:51 PM	37 ° F	21 ° F	52 %	NW	15 mph	23 mph	29.8 in	0.0 in	0.0 in	Mostly Cloudy
1:51 PM	38 ° F	21 ° F	51 %	W	17 mph	25 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy
2:51 PM	38 ° F	20 ° F	48 %	WNW	16 mph	22 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
3:51 PM	38 ° F	18 ° F	44 %	NW	16 mph	24 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy
4:51 PM	37 ° F	17 ° F	44 %	NW	14 mph	26 mph	29.8 in	0.0 in	0.0 in	Partly Cloudy
5:51 PM	36 ° F	17 ° F	46 %	NW	10 mph	0 mph	29.9 in	0.0 in	0.0 in	Partly Cloudy
6:51 PM	35 ° F	17 ° F	48 %	WNW	7 mph	0 mph	29.9 in	0.0 in	0.0 in	Mostly Cloudy
7:51 PM	34 ° F	18 ° F	52 %	W	8 mph	0 mph	29.9 in	0.0 in	0.0 in	Mostly Cloudy
8:51 PM	33 ° F	16 ° F	50 %	W	12 mph	22 mph	29.9 in	0.0 in	0.0 in	Mostly Cloudy
9:51 PM	32 ° F	15 ° F	50 %	W	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
10:51 PM	30 ° F	12 ° F	47 %	W	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
11:51 PM	29 ° F	11 ° F	47 %	W	13 mph	18 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy

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Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

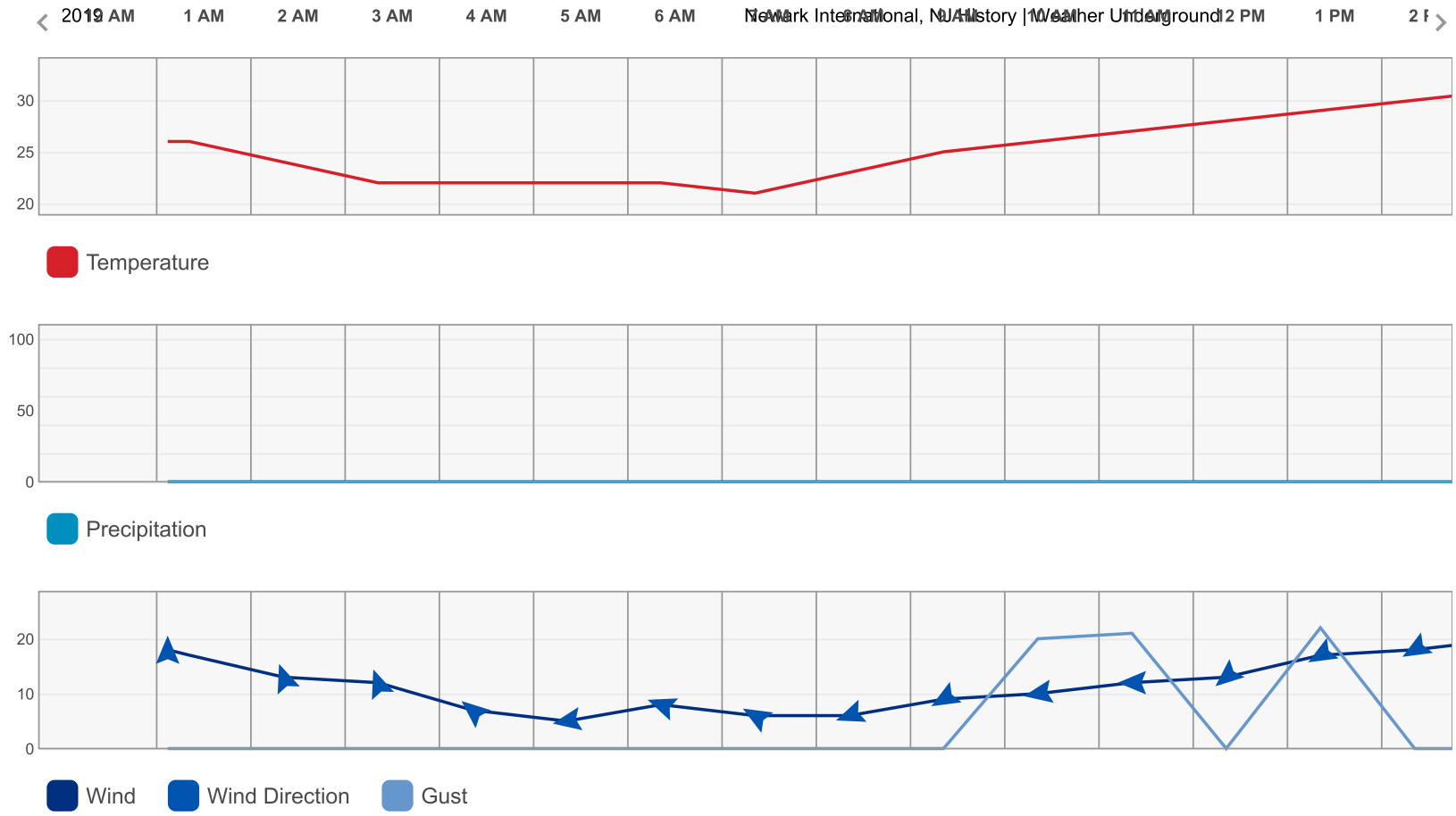
25° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6)

- TODAY (/WEATHER/US/NJ/NEWARK/07101)
- HOURLY (/HOURLY/US/NJ/NEWARK/07101)
- 10-DAY (/FORECAST/US/NJ/NEWARK/07101)
- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-6)
- WUNDERMAP (/WUNDERMAP?LAT=40.6922226&LON=-74.16860962)

Daily Weekly Monthly

March **5** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	31	47	75
Low Temp	21	31	9
Day Average Temp	26	39	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.13	0.87

Temperature (° F)	Actual	Historic Avg.	Record
Month to Date	1.45	0.61	-
Year to Date	9.13	7.03	-
Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	39	26	-
HDD Month to Date	161	134	-
HDD Since July 1	3718	3769	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-
Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	9	-	-
High	13	-	-
Low	5	-	-
Average	9	-	-
Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	21	-	-
Visibility	10	-	-
Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.12	-	-
Astronomy	Day Length	Rise	Set

Temperature (° F)	Actual	Historic Avg.	Record
Actual Time	11h 26m	6:26 AM	5:53 PM
Civil Twilight		5:58 AM	6:20 PM
Nautical Twilight		5:27 AM	6:52 PM
Astronomical Twilight		4:55 AM	7:23 PM
Moon: waning crescent		6:12 AM	4:59 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:37 AM	26 ° F	13 ° F	58 %	N	18 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
12:51 AM	26 ° F	13 ° F	58 %	N	17 mph	0 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
1:51 AM	24 ° F	10 ° F	55 %	NNW	13 mph	0 mph	30.1 in	0.0 in	0.0 in	Partly Cloudy
2:51 AM	22 ° F	8 ° F	55 %	NNW	12 mph	0 mph	30.1 in	0.0 in	0.0 in	Partly Cloudy
3:51 AM	22 ° F	8 ° F	55 %	NW	7 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
4:51 AM	22 ° F	7 ° F	53 %	W	5 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
5:51 AM	22 ° F	7 ° F	53 %	WNW	8 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
6:51 AM	21 ° F	7 ° F	55 %	WNW	6 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
7:51 AM	23 ° F	6 ° F	48 %	WSW	6 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
8:51 AM	25 ° F	5 ° F	43 %	WSW	9 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
9:51 AM	26 ° F	7 ° F	44 %	W	10 mph	20 mph	30.1 in	0.0 in	0.0 in	Fair
10:51 AM	27 ° F	7 ° F	43 %	W	12 mph	21 mph	30.1 in	0.0 in	0.0 in	Fair
11:51 AM	28 ° F	9 ° F	45 %	SW	13 mph	0 mph	30.0 in	0.0 in	0.0 in	Fair
12:51 PM	29 ° F	10 ° F	45 %	WSW	17 mph	22 mph	30.0 in	0.0 in	0.0 in	Partly Cloudy
1:51 PM	30 ° F	9 ° F	41 %	WSW	18 mph	0 mph	30.0 in	0.0 in	0.0 in	Fair
2:51 PM	31 ° F	9 ° F	40 %	WSW	20 mph	0 mph	29.9 in	0.0 in	0.0 in	Fair
3:51 PM	31 ° F	11 ° F	43 %	SW	16 mph	0 mph	29.9 in	0.0 in	0.0 in	Fair
4:51 PM	30 ° F	10 ° F	43 %	WSW	18 mph	0 mph	29.9 in	0.0 in	0.0 in	Fair
5:51 PM	29 ° F	9 ° F	43 %	WSW	16 mph	22 mph	29.9 in	0.0 in	0.0 in	Fair
6:51 PM	29 ° F	8 ° F	41 %	WSW	10 mph	0 mph	29.9 in	0.0 in	0.0 in	Fair
7:51 PM	28 ° F	8 ° F	43 %	W	8 mph	0 mph	29.9 in	0.0 in	0.0 in	Fair

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
8:51 PM	28 ° F	8 ° F	43 %	W	9 mph	0 mph	30.0 in	0.0 in	0.0 in	Partly Cloudy
9:51 PM	27 ° F	9 ° F	47 %	W	12 mph	0 mph	30.0 in	0.0 in	0.0 in	Partly Cloudy
10:51 PM	26 ° F	9 ° F	49 %	WNW	15 mph	26 mph	30.0 in	0.0 in	0.0 in	Partly Cloudy
11:51 PM	25 ° F	8 ° F	49 %	WNW	14 mph	0 mph	30.0 in	0.0 in	0.0 in	Fair

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Elev **16**ft **40.69** °N, **74.17** °W

Newark International, NJ ★

20° NEWARK INTERNATIONAL STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-7)

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- HOURLY (/HOURLY/US/NJ/NEWARK)
- 10-DAY (/FORECAST/US/NJ/NEWARK)
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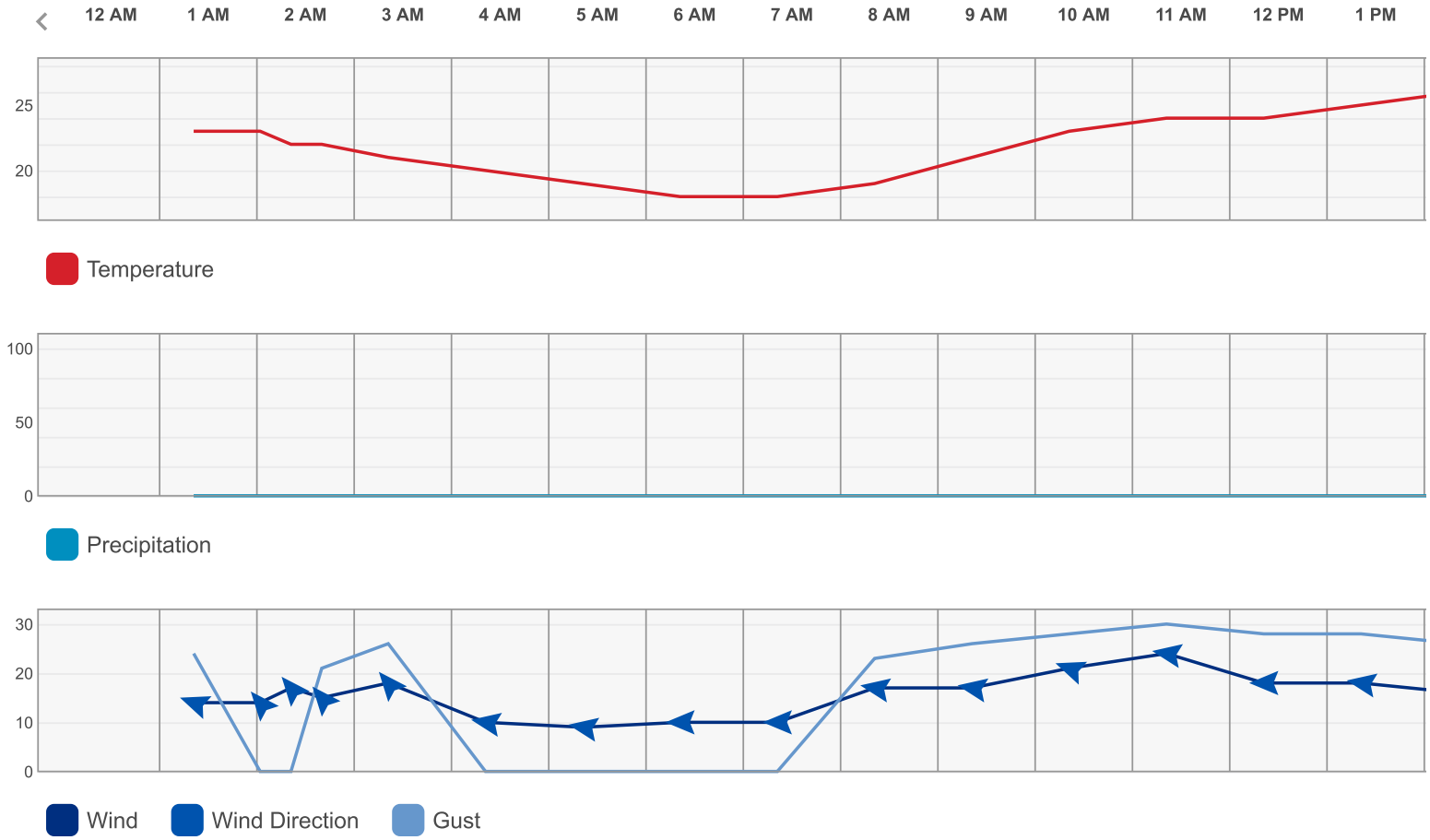
- WUNDERMAP (/WUNDERMAP?LAT=40.6922226&LON=-74.16860962)

Daily Weekly Monthly

March 6 2019 View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	27	47	69
Low Temp	18	31	12
Day Average Temp	23	39	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	1e-16	0.12	2.18
Month to Date	1.45	0.73	-
Year to Date	9.13	7.15	-

Degree Days (° F)	Actual	Historic Avg.	Record
Heating Degree Days	42	26	-
HDD Month to Date	203	160	-
HDD Since July 1	3760	3795	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	5	-	-
High	13	-	-
Low	1	-	-
Average	5	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	25	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.3	-	-

Temperature (° F)	Actual	Historic Avg.	Record

Astronomy	Day Length	Rise	Set
Actual Time	11h 29m	6:24 AM	5:54 PM
Civil Twilight		5:57 AM	6:21 PM
Nautical Twilight		5:25 AM	6:53 PM
Astronomical Twilight		4:53 AM	7:24 PM
Moon: new moon		6:42 AM	5:57 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum	Condition
12:51 AM	23 ° F	12 ° F	63 %	WNW	14 mph	24 mph	30.0 in	0.0 in	0.0 in	Mostly Cloudy
1:32 AM	23 ° F	12 ° F	63 %	NW	14 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
1:51 AM	22 ° F	13 ° F	68 %	NW	17 mph	0 mph	30.0 in	0.0 in	0.0 in	Light Snow
2:10 AM	22 ° F	13 ° F	68 %	NW	15 mph	21 mph	30.0 in	0.0 in	0.0 in	Partly Cloudy
2:51 AM	21 ° F	5 ° F	50 %	NW	18 mph	26 mph	30.0 in	0.0 in	0.0 in	Fair
3:51 AM	20 ° F	4 ° F	50 %	W	10 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
4:51 AM	19 ° F	3 ° F	50 %	W	9 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
5:51 AM	18 ° F	3 ° F	52 %	W	10 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
6:51 AM	18 ° F	4 ° F	54 %	W	10 mph	0 mph	30.1 in	0.0 in	0.0 in	Fair
7:51 AM	19 ° F	3 ° F	50 %	W	17 mph	23 mph	30.1 in	0.0 in	0.0 in	Fair
8:51 AM	21 ° F	3 ° F	46 %	W	17 mph	26 mph	30.1 in	0.0 in	0.0 in	Fair
9:51 AM	23 ° F	1 ° F	39 %	WNW	21 mph	28 mph	30.1 in	0.0 in	0.0 in	Fair / Windy
10:51 AM	24 ° F	2 ° F	38 %	W	24 mph	30 mph	30.1 in	0.0 in	0.0 in	Partly Cloudy / Win
11:51 AM	24 ° F	2 ° F	38 %	W	18 mph	28 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
12:51 PM	25 ° F	4 ° F	41 %	W	18 mph	28 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
1:51 PM	26 ° F	2 ° F	35 %	W	16 mph	26 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
2:51 PM	26 ° F	4 ° F	39 %	W	17 mph	0 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
3:51 PM	25 ° F	5 ° F	43 %	W	21 mph	28 mph	30.1 in	0.0 in	0.0 in	Partly Cloudy / Win
4:51 PM	25 ° F	3 ° F	39 %	WNW	17 mph	23 mph	30.1 in	0.0 in	0.0 in	Mostly Cloudy
5:51 PM	24 ° F	3 ° F	40 %	WNW	14 mph	0 mph	30.2 in	0.0 in	0.0 in	Partly Cloudy
6:51 PM	23 ° F	7 ° F	50 %	WNW	10 mph	0 mph	30.2 in	0.0 in	0.0 in	Fair
7:51 PM	22 ° F	7 ° F	53 %	W	9 mph	0 mph	30.2 in	0.0 in	0.0 in	Fair
8:51 PM	22 ° F	7 ° F	53 %	WNW	10 mph	0 mph	30.2 in	0.0 in	0.0 in	Fair
9:51 PM	21 ° F	6 ° F	53 %	WNW	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Fair
10:51 PM	21 ° F	4 ° F	48 %	NW	8 mph	0 mph	30.3 in	0.0 in	0.0 in	Fair
11:51 PM	20 ° F	2 ° F	46 %	WNW	9 mph	0 mph	30.3 in	0.0 in	0.0 in	Fair

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San Francisco, CA
55 ° F Mostly Cloudy

Manhattan, NY
45 ° F Sunny

Atlanta, GA
57 ° F Fair

Elev **0** **40.69** °N, **74.18** °W

Newark Liberty International Airport, New Jersey ★

48° NEWARK LIBERTY INTERNATIONAL AIRPORT STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

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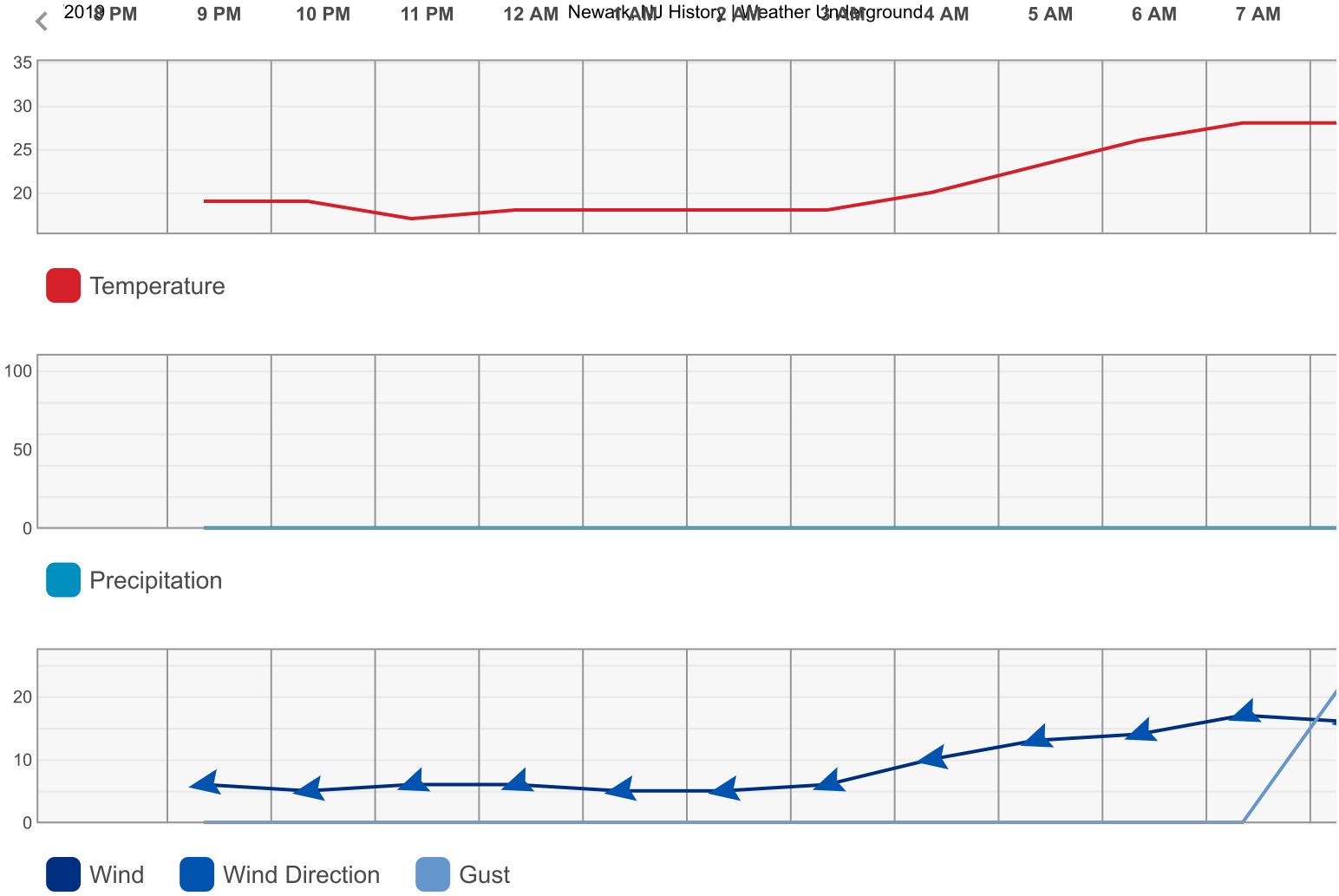
Daily Weekly Monthly

March | **7** | **2019** | View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	32	48	75
Low Temp	15	31	11
Day Average Temp	24	39	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	1e-16	0.13	1.55
Month to Date	1.45	0.86	-
Year to Date	9.13	7.28	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	41	26	-
HDD Month to Date	244	186	-
HDD Since July 1	3801	3821	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	7	-	-
High	15	-	-
Low	-1	-	-
Average	7	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	23	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.39	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 32m	6:23 AM	5:55 PM
Civil Twilight		5:55 AM	6:22 PM
Nautical Twilight		5:24 AM	6:54 PM
Astronomical Twilight		4:52 AM	7:26 PM
Moon: waxing crescent		8:09 AM	7:56 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:51 PM	19 ° F	-1 ° F	42 %	W	6 mph	0 mph	30.3 in	0.0 in	0.0 in
9:51 PM	19 ° F	2 ° F	47 %	W	5 mph	0 mph	30.3 in	0.0 in	0.0 in
10:51 PM	17 ° F	4 ° F	56 %	WSW	6 mph	0 mph	30.3 in	0.0 in	0.0 in
11:51 PM	18 ° F	1 ° F	48 %	WSW	6 mph	0 mph	30.3 in	0.0 in	0.0 in
12:51 AM	18 ° F	1 ° F	48 %	W	5 mph	0 mph	30.3 in	0.0 in	0.0 in
1:51 AM	18 ° F	0 ° F	45 %	W	5 mph	0 mph	30.3 in	0.0 in	0.0 in
2:51 AM	18 ° F	0 ° F	45 %	WSW	6 mph	0 mph	30.3 in	0.0 in	0.0 in
3:51 AM	20 ° F	5 ° F	52 %	W	10 mph	0 mph	30.3 in	0.0 in	0.0 in
4:51 AM	23 ° F	8 ° F	53 %	WSW	13 mph	0 mph	30.3 in	0.0 in	0.0 in
5:51 AM	26 ° F	10 ° F	51 %	WSW	14 mph	0 mph	30.3 in	0.0 in	0.0 in
6:51 AM	28 ° F	9 ° F	45 %	WSW	17 mph	0 mph	30.3 in	0.0 in	0.0 in
7:51 AM	28 ° F	10 ° F	47 %	W	16 mph	23 mph	30.3 in	0.0 in	0.0 in
8:51 AM	30 ° F	12 ° F	47 %	WSW	15 mph	25 mph	30.3 in	0.0 in	0.0 in
9:51 AM	31 ° F	11 ° F	43 %	WSW	18 mph	0 mph	30.2 in	0.0 in	0.0 in
10:51 AM	32 ° F	13 ° F	45 %	W	17 mph	0 mph	30.2 in	0.0 in	0.0 in
11:51 AM	31 ° F	15 ° F	52 %	W	18 mph	0 mph	30.2 in	0.0 in	0.0 in
12:01 PM	31 ° F	15 ° F	52 %	W	15 mph	0 mph	30.3 in	0.0 in	0.0 in
12:51 PM	32 ° F	11 ° F	42 %	WNW	14 mph	22 mph	30.3 in	0.0 in	0.0 in
1:51 PM	31 ° F	10 ° F	42 %	WNW	12 mph	0 mph	30.3 in	0.0 in	0.0 in
2:51 PM	30 ° F	10 ° F	43 %	WNW	8 mph	0 mph	30.3 in	0.0 in	0.0 in
3:51 PM	30 ° F	11 ° F	45 %	W	5 mph	0 mph	30.3 in	0.0 in	0.0 in
4:51 PM	29 ° F	10 ° F	45 %	NNW	5 mph	0 mph	30.3 in	0.0 in	0.0 in
5:51 PM	28 ° F	9 ° F	45 %	NNW	9 mph	0 mph	30.3 in	0.0 in	0.0 in
6:51 PM	28 ° F	8 ° F	43 %	NNW	8 mph	0 mph	30.4 in	0.0 in	0.0 in
7:51 PM	26 ° F	10 ° F	51 %	NNE	6 mph	0 mph	30.4 in	0.0 in	0.0 in

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San Francisco, CA 59 ° F Mostly Cloudy

Manhattan, NY 49 ° F Sunny

Atlanta, GA 63 ° F Sunny

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Newark Liberty International Airport, New Jersey ★

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HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

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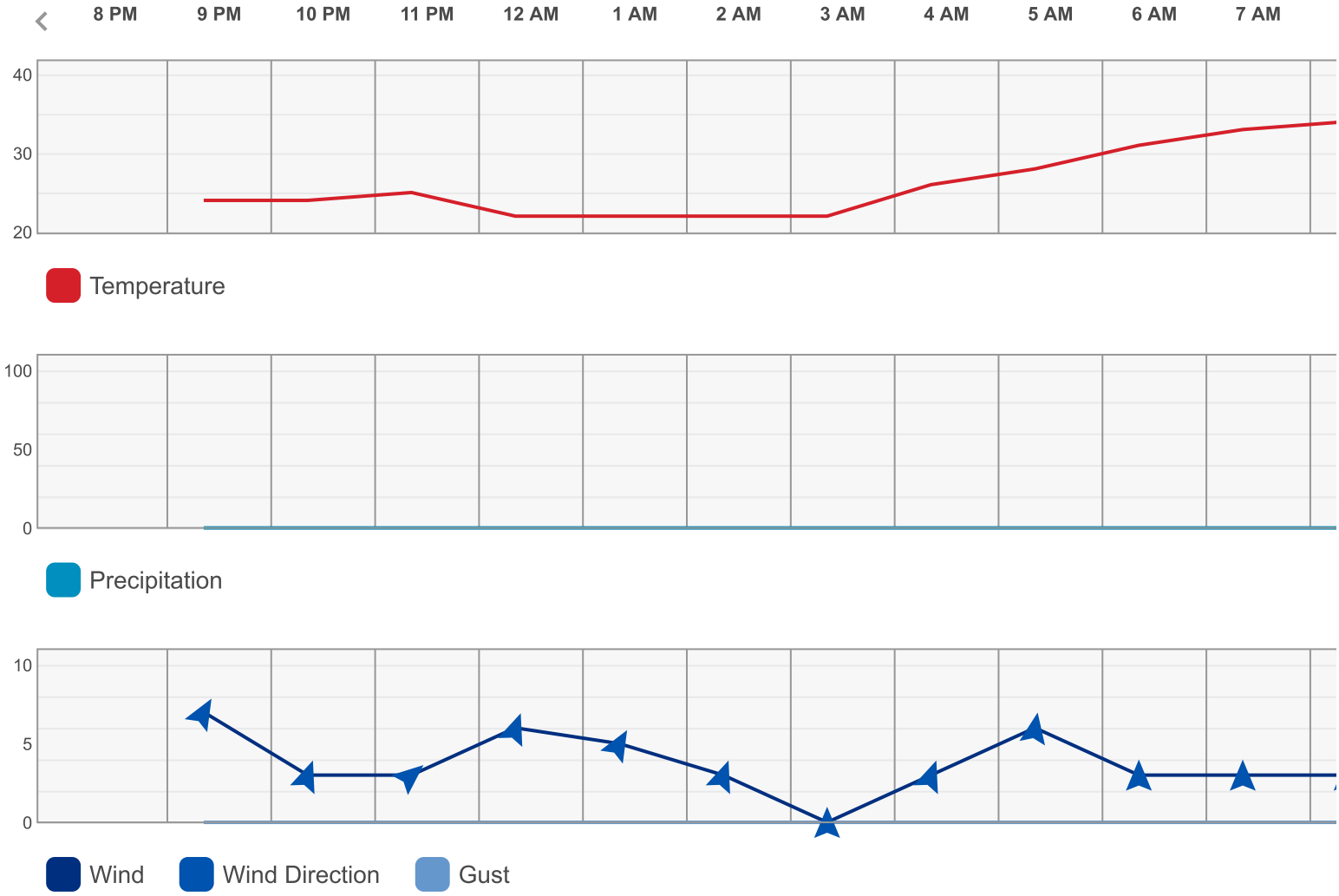
Daily Weekly Monthly

March 8 2019 View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	39	48	77
Low Temp	20	31	13
Day Average Temp	30	40	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.13	1.31
Month to Date	1.45	0.99	-
Year to Date	9.13	7.41	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	35	25	-
HDD Month to Date	279	211	-
HDD Since July 1	3836	3846	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	15	-	-
High	23	-	-
Low	8	-	-
Average	15	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	12	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.43	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 34m	6:21 AM	5:56 PM
Civil Twilight		5:54 AM	6:23 PM
Nautical Twilight		5:22 AM	6:55 PM
Astronomical Twilight		4:50 AM	7:27 PM
Moon: waxing crescent		8:35 AM	8:55 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:51 PM	24 ° F	10 ° F	55 %	NNE	7 mph	0 mph	30.4 in	0.0 in	0.0 in
9:51 PM	24 ° F	10 ° F	55 %	NNE	3 mph	0 mph	30.4 in	0.0 in	0.0 in
10:51 PM	25 ° F	11 ° F	55 %	NE	3 mph	0 mph	30.4 in	0.0 in	0.0 in
11:51 PM	22 ° F	10 ° F	60 %	NNE	6 mph	0 mph	30.4 in	0.0 in	0.0 in
12:51 AM	22 ° F	10 ° F	60 %	NNE	5 mph	0 mph	30.4 in	0.0 in	0.0 in
1:51 AM	22 ° F	10 ° F	60 %	NNE	3 mph	0 mph	30.4 in	0.0 in	0.0 in
2:51 AM	22 ° F	9 ° F	58 %	CALM	0 mph	0 mph	30.4 in	0.0 in	0.0 in
3:51 AM	26 ° F	8 ° F	47 %	NNE	3 mph	0 mph	30.4 in	0.0 in	0.0 in
4:51 AM	28 ° F	13 ° F	53 %	N	6 mph	0 mph	30.4 in	0.0 in	0.0 in
5:51 AM	31 ° F	12 ° F	46 %	VAR	3 mph	0 mph	30.4 in	0.0 in	0.0 in
6:51 AM	33 ° F	15 ° F	48 %	VAR	3 mph	0 mph	30.4 in	0.0 in	0.0 in
7:51 AM	34 ° F	16 ° F	48 %	VAR	3 mph	0 mph	30.4 in	0.0 in	0.0 in
8:51 AM	37 ° F	15 ° F	41 %	W	10 mph	0 mph	30.3 in	0.0 in	0.0 in
9:51 AM	37 ° F	17 ° F	44 %	S	9 mph	0 mph	30.3 in	0.0 in	0.0 in
10:51 AM	38 ° F	18 ° F	44 %	S	9 mph	0 mph	30.3 in	0.0 in	0.0 in
11:51 AM	38 ° F	20 ° F	48 %	SSE	7 mph	0 mph	30.3 in	0.0 in	0.0 in
12:51 PM	37 ° F	21 ° F	52 %	SSE	8 mph	0 mph	30.2 in	0.0 in	0.0 in
1:51 PM	37 ° F	20 ° F	50 %	VAR	3 mph	0 mph	30.2 in	0.0 in	0.0 in
2:51 PM	37 ° F	20 ° F	50 %	CALM	0 mph	0 mph	30.2 in	0.0 in	0.0 in
3:51 PM	37 ° F	21 ° F	52 %	SSE	3 mph	0 mph	30.2 in	0.0 in	0.0 in
4:51 PM	37 ° F	22 ° F	54 %	CALM	0 mph	0 mph	30.2 in	0.0 in	0.0 in
5:51 PM	36 ° F	21 ° F	55 %	SSW	3 mph	0 mph	30.2 in	0.0 in	0.0 in
6:51 PM	36 ° F	23 ° F	59 %	W	5 mph	0 mph	30.2 in	0.0 in	0.0 in
7:51 PM	36 ° F	23 ° F	59 %	W	5 mph	0 mph	30.2 in	0.0 in	0.0 in

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San Francisco, CA 58 ° F Mostly Cloudy

Manhattan, NY 50 ° F Sunny

Atlanta, GA 64 ° F Sunny

Elev **0 40.69** °N, **74.18** °W

Newark Liberty International Airport, New Jersey ★

51° NEWARK LIBERTY INTERNATIONAL AIRPORT STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

- TODAY (/WEATHER/US/NJ/NEWARK/KEWR)
- HOURLY (/HOURLY/US/NJ/NEWARK/KEWR)
- 10-DAY (/FORECAST/US/NJ/NEWARK/KEWR)
- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)
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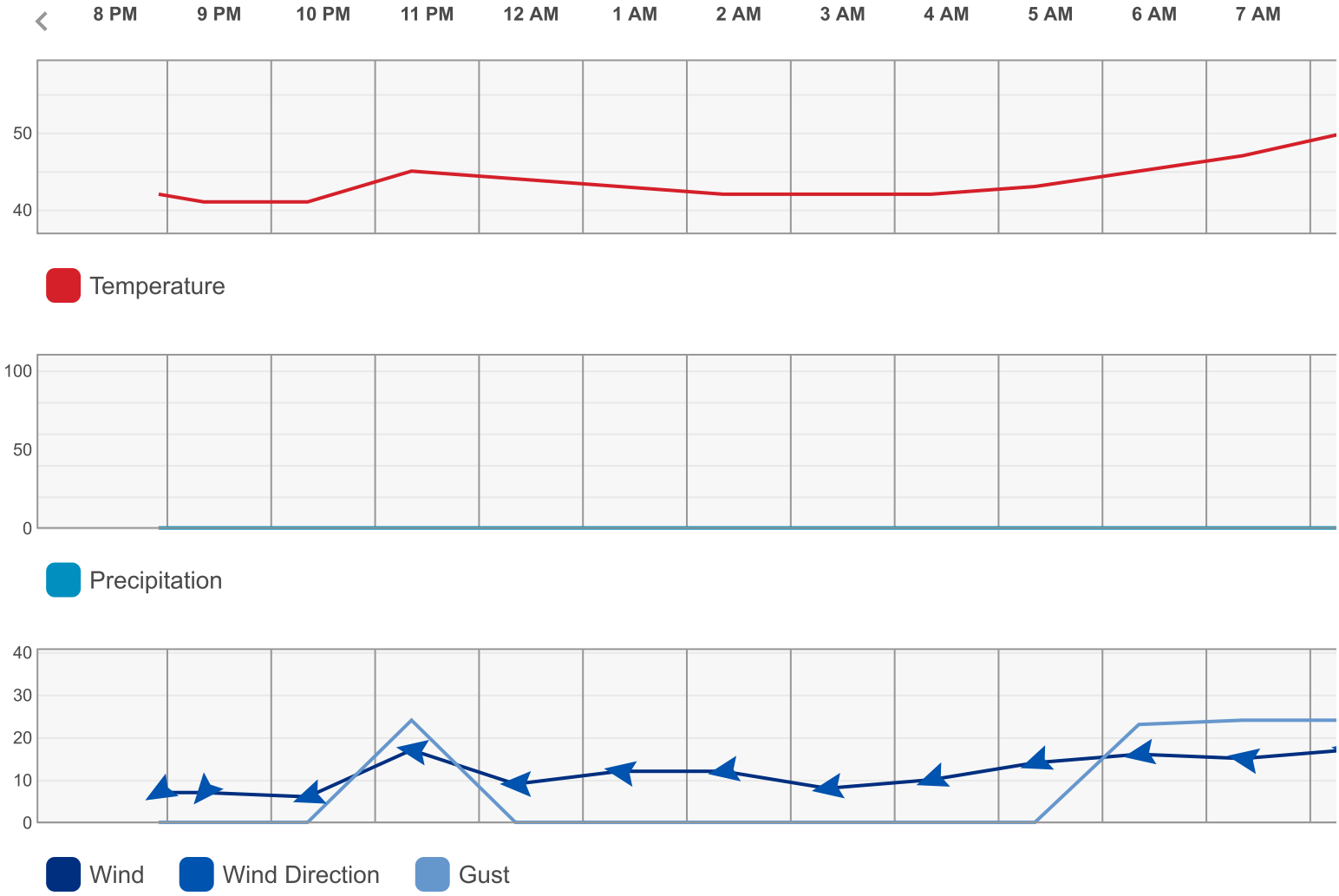
Daily Weekly Monthly

March **11** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	55	49	71
Low Temp	39	32	14
Day Average Temp	47	40	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.12	1.53
Month to Date	2.22	1.37	-
Year to Date	9.9	7.79	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	18	25	-
HDD Month to Date	347	286	-
HDD Since July 1	3904	3921	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	27	-	-
High	40	-	-
Low	18	-	-
Average	27	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	32	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.07	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 42m	7:16 AM	6:59 PM
Civil Twilight		6:49 AM	7:26 PM
Nautical Twilight		6:17 AM	7:58 PM
Astronomical Twilight		5:45 AM	8:30 PM
Moon: waxing crescent		9:59 AM	11:58 PM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:25 PM	42 ° F	40 ° F	92 %	WSW	7 mph	0 mph	30.0 in	0.0 in	0.0 in
8:51 PM	41 ° F	39 ° F	93 %	SW	7 mph	0 mph	30.0 in	0.0 in	0.0 in
9:51 PM	41 ° F	39 ° F	93 %	WSW	6 mph	0 mph	30.0 in	0.0 in	0.0 in
10:51 PM	45 ° F	36 ° F	71 %	W	17 mph	24 mph	30.0 in	0.0 in	0.0 in
11:51 PM	44 ° F	35 ° F	71 %	W	9 mph	0 mph	30.0 in	0.0 in	0.0 in
12:51 AM	43 ° F	34 ° F	71 %	W	12 mph	0 mph	30.0 in	0.0 in	0.0 in
1:51 AM	42 ° F	32 ° F	67 %	W	12 mph	0 mph	30.0 in	0.0 in	0.0 in
2:51 AM	42 ° F	31 ° F	65 %	W	8 mph	0 mph	30.0 in	0.0 in	0.0 in
3:51 AM	42 ° F	30 ° F	62 %	WSW	10 mph	0 mph	30.0 in	0.0 in	0.4 in
4:51 AM	43 ° F	31 ° F	62 %	WSW	14 mph	0 mph	30.1 in	0.0 in	0.0 in
5:51 AM	45 ° F	30 ° F	56 %	W	16 mph	23 mph	30.1 in	0.0 in	0.0 in
6:51 AM	47 ° F	29 ° F	50 %	W	15 mph	24 mph	30.1 in	0.0 in	0.0 in
7:51 AM	50 ° F	27 ° F	41 %	W	17 mph	24 mph	30.0 in	0.0 in	0.0 in
8:51 AM	51 ° F	26 ° F	38 %	W	18 mph	26 mph	30.0 in	0.0 in	0.0 in
9:35 AM	52 ° F	26 ° F	37 %	WSW	18 mph	26 mph	30.0 in	0.0 in	0.0 in
9:51 AM	52 ° F	25 ° F	35 %	W	17 mph	29 mph	30.0 in	0.0 in	0.0 in
10:51 AM	52 ° F	24 ° F	34 %	W	21 mph	32 mph	30.0 in	0.0 in	0.0 in
11:51 AM	53 ° F	23 ° F	31 %	W	17 mph	26 mph	30.0 in	0.0 in	0.0 in
12:51 PM	54 ° F	22 ° F	29 %	W	14 mph	26 mph	30.0 in	0.0 in	0.0 in
1:51 PM	53 ° F	21 ° F	29 %	WSW	15 mph	23 mph	30.0 in	0.0 in	0.0 in
2:51 PM	52 ° F	19 ° F	27 %	W	16 mph	25 mph	30.0 in	0.0 in	0.0 in
3:51 PM	51 ° F	18 ° F	27 %	WSW	15 mph	0 mph	30.0 in	0.0 in	0.0 in
4:51 PM	49 ° F	22 ° F	35 %	SW	12 mph	0 mph	30.0 in	0.0 in	0.0 in
5:51 PM	50 ° F	20 ° F	31 %	WSW	12 mph	0 mph	30.0 in	0.0 in	0.0 in
6:51 PM	49 ° F	18 ° F	29 %	W	16 mph	0 mph	30.0 in	0.0 in	0.0 in
7:35 PM	44 ° F	21 ° F	40 %	NNW	15 mph	0 mph	30.0 in	0.0 in	0.0 in
7:51 PM	43 ° F	22 ° F	43 %	NNW	30 mph	37 mph	30.1 in	0.0 in	0.0 in

From the Web

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Newark Liberty International Airport, New Jersey ★

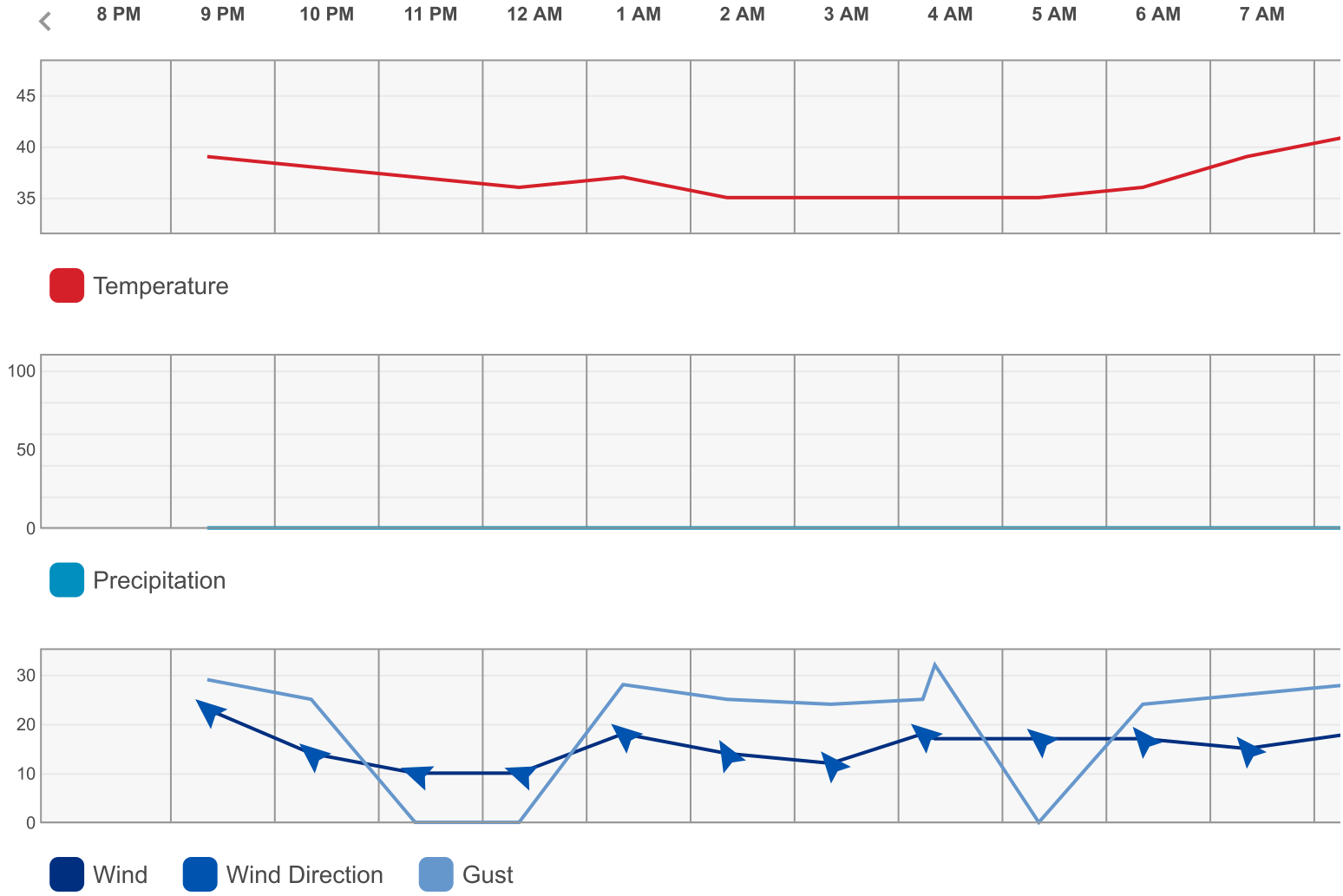
51° NEWARK LIBERTY INTERNATIONAL AIRPORT STATION (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28?CM_VEN=LOCALWX_PWSDASH) | CHANGE

HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

- TODAY (/WEATHER/US/NJ/NEWARK/KEWR)
- HOURLY (/HOURLY/US/NJ/NEWARK/KEWR)
- 10-DAY (/FORECAST/US/NJ/NEWARK/KEWR)
- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)
- WUNDERMAP (/WUNDERMAP?LAT=40.69&LON=-74.18)

Daily Weekly Monthly

March **12** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	45	49	73
Low Temp	34	32	13
Day Average Temp	40	41	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.13	2.35
Month to Date	2.22	1.5	-
Year to Date	9.9	7.92	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	25	24	-
HDD Month to Date	372	310	-
HDD Since July 1	3929	3945	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	17	-	-
High	20	-	-
Low	15	-	-
Average	17	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	25	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.32	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 45m	7:15 AM	7:00 PM
Civil Twilight		6:47 AM	7:28 PM
Nautical Twilight		6:16 AM	7:59 PM
Astronomical Twilight		5:44 AM	8:31 PM
Moon: new moon		-	-

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:51 PM	39 ° F	20 ° F	46 %	NW	23 mph	29 mph	30.1 in	0.0 in	0.0 in
9:51 PM	38 ° F	17 ° F	43 %	NW	14 mph	25 mph	30.1 in	0.0 in	0.0 in
10:51 PM	37 ° F	17 ° F	44 %	WNW	10 mph	0 mph	30.1 in	0.0 in	0.0 in
11:51 PM	36 ° F	18 ° F	48 %	WNW	10 mph	0 mph	30.1 in	0.0 in	0.0 in
12:51 AM	37 ° F	20 ° F	50 %	NW	18 mph	28 mph	30.1 in	0.0 in	0.0 in
1:51 AM	35 ° F	17 ° F	48 %	NNW	14 mph	25 mph	30.1 in	0.0 in	0.0 in
2:51 AM	35 ° F	16 ° F	46 %	NW	12 mph	24 mph	30.1 in	0.0 in	0.0 in
3:44 AM	35 ° F	16 ° F	46 %	NW	18 mph	25 mph	30.1 in	0.0 in	0.0 in
3:51 AM	35 ° F	16 ° F	46 %	NNW	17 mph	32 mph	30.2 in	0.0 in	0.0 in
4:51 AM	35 ° F	16 ° F	46 %	NW	17 mph	0 mph	30.2 in	0.0 in	0.0 in
5:51 AM	36 ° F	17 ° F	46 %	NW	17 mph	24 mph	30.2 in	0.0 in	0.0 in
6:51 AM	39 ° F	18 ° F	43 %	NW	15 mph	26 mph	30.2 in	0.0 in	0.0 in
7:51 AM	41 ° F	18 ° F	40 %	NNW	18 mph	28 mph	30.2 in	0.0 in	0.0 in
8:51 AM	42 ° F	18 ° F	38 %	WNW	21 mph	29 mph	30.2 in	0.0 in	0.0 in
9:51 AM	41 ° F	17 ° F	38 %	NW	15 mph	0 mph	30.2 in	0.0 in	0.0 in
10:51 AM	43 ° F	17 ° F	35 %	WNW	18 mph	25 mph	30.2 in	0.0 in	0.0 in
11:51 AM	44 ° F	17 ° F	34 %	NW	14 mph	30 mph	30.2 in	0.0 in	0.0 in
12:51 PM	44 ° F	17 ° F	34 %	WNW	18 mph	24 mph	30.2 in	0.0 in	0.0 in
1:51 PM	43 ° F	17 ° F	35 %	NW	16 mph	26 mph	30.2 in	0.0 in	0.0 in
2:51 PM	41 ° F	15 ° F	35 %	NW	15 mph	25 mph	30.2 in	0.0 in	0.0 in
3:51 PM	39 ° F	16 ° F	39 %	WNW	14 mph	0 mph	30.3 in	0.0 in	0.0 in
4:51 PM	38 ° F	16 ° F	41 %	NW	10 mph	0 mph	30.3 in	0.0 in	0.0 in
5:51 PM	37 ° F	15 ° F	41 %	NW	12 mph	0 mph	30.3 in	0.0 in	0.0 in
6:51 PM	36 ° F	16 ° F	44 %	N	7 mph	0 mph	30.3 in	0.0 in	0.0 in
7:51 PM	35 ° F	16 ° F	46 %	N	7 mph	0 mph	30.3 in	0.0 in	0.0 in

From the Web

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Newark Liberty International Airport, New Jersey ★

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HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

- TODAY (/WEATHER/US/NJ/NEWARK/KEWR)
- HOURLY (/HOURLY/US/NJ/NEWARK/KEWR)
- 10-DAY (/FORECAST/US/NJ/NEWARK/KEWR)
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- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)
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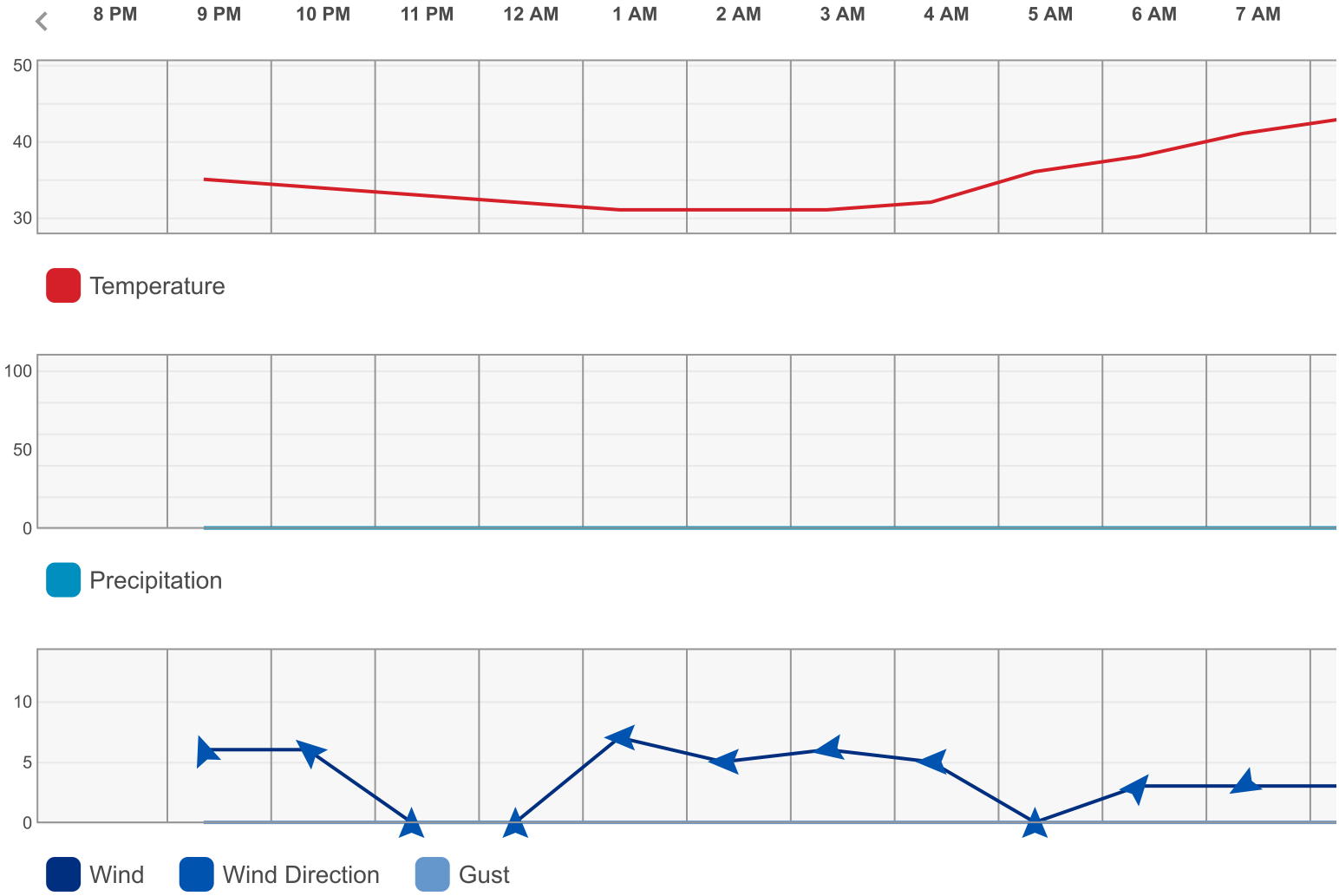
Daily Weekly Monthly

March | **13** | **2019** | View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	47	50	86
Low Temp	28	33	18
Day Average Temp	38	41	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.12	3.99
Month to Date	2.22	1.62	-
Year to Date	9.9	8.04	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	27	24	-
HDD Month to Date	399	334	-
HDD Since July 1	3956	3969	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	23	-	-
High	30	-	-
Low	16	-	-
Average	23	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	14	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.4	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 48m	7:13 AM	7:01 PM
Civil Twilight		6:46 AM	7:29 PM
Nautical Twilight		6:14 AM	8:00 PM
Astronomical Twilight		5:42 AM	8:32 PM
Moon: waxing crescent		11:12 AM	1:02 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:51 PM	35 ° F	16 ° F	46 %	NNW	6 mph	0 mph	30.3 in	0.0 in	0.0 in
9:51 PM	34 ° F	16 ° F	48 %	NW	6 mph	0 mph	30.3 in	0.0 in	0.0 in
10:51 PM	33 ° F	17 ° F	52 %	CALM	0 mph	0 mph	30.3 in	0.0 in	0.0 in
11:51 PM	32 ° F	18 ° F	56 %	CALM	0 mph	0 mph	30.3 in	0.0 in	0.0 in
12:51 AM	31 ° F	18 ° F	59 %	W	7 mph	0 mph	30.3 in	0.0 in	0.0 in
1:51 AM	31 ° F	18 ° F	59 %	W	5 mph	0 mph	30.3 in	0.0 in	0.0 in
2:51 AM	31 ° F	18 ° F	59 %	W	6 mph	0 mph	30.3 in	0.0 in	0.0 in
3:51 AM	32 ° F	20 ° F	61 %	W	5 mph	0 mph	30.4 in	0.0 in	0.0 in
4:51 AM	36 ° F	20 ° F	52 %	CALM	0 mph	0 mph	30.4 in	0.0 in	0.0 in
5:51 AM	38 ° F	18 ° F	44 %	NE	3 mph	0 mph	30.4 in	0.0 in	0.0 in
6:51 AM	41 ° F	18 ° F	40 %	WSW	3 mph	0 mph	30.4 in	0.0 in	0.0 in
7:51 AM	43 ° F	18 ° F	37 %	NW	3 mph	0 mph	30.4 in	0.0 in	0.0 in
8:51 AM	45 ° F	21 ° F	39 %	VAR	6 mph	0 mph	30.3 in	0.0 in	0.0 in
9:51 AM	46 ° F	22 ° F	39 %	E	9 mph	0 mph	30.3 in	0.0 in	0.0 in
10:51 AM	44 ° F	26 ° F	49 %	ESE	13 mph	0 mph	30.3 in	0.0 in	0.0 in
11:51 AM	44 ° F	26 ° F	49 %	SE	9 mph	0 mph	30.3 in	0.0 in	0.0 in
12:51 PM	42 ° F	28 ° F	58 %	SE	9 mph	0 mph	30.3 in	0.0 in	0.0 in
1:51 PM	41 ° F	30 ° F	65 %	SSE	8 mph	0 mph	30.3 in	0.0 in	0.0 in
2:51 PM	42 ° F	30 ° F	62 %	VAR	5 mph	0 mph	30.3 in	0.0 in	0.0 in
3:51 PM	42 ° F	29 ° F	60 %	SSE	6 mph	0 mph	30.3 in	0.0 in	0.0 in
4:51 PM	42 ° F	29 ° F	60 %	SE	5 mph	0 mph	30.3 in	0.0 in	0.0 in
5:51 PM	42 ° F	29 ° F	60 %	SSE	5 mph	0 mph	30.3 in	0.0 in	0.0 in
6:51 PM	42 ° F	29 ° F	60 %	SSE	8 mph	0 mph	30.3 in	0.0 in	0.0 in
7:51 PM	42 ° F	28 ° F	58 %	S	6 mph	0 mph	30.3 in	0.0 in	0.0 in

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HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

- TODAY (/WEATHER/US/NJ/NEWARK/KEWR)
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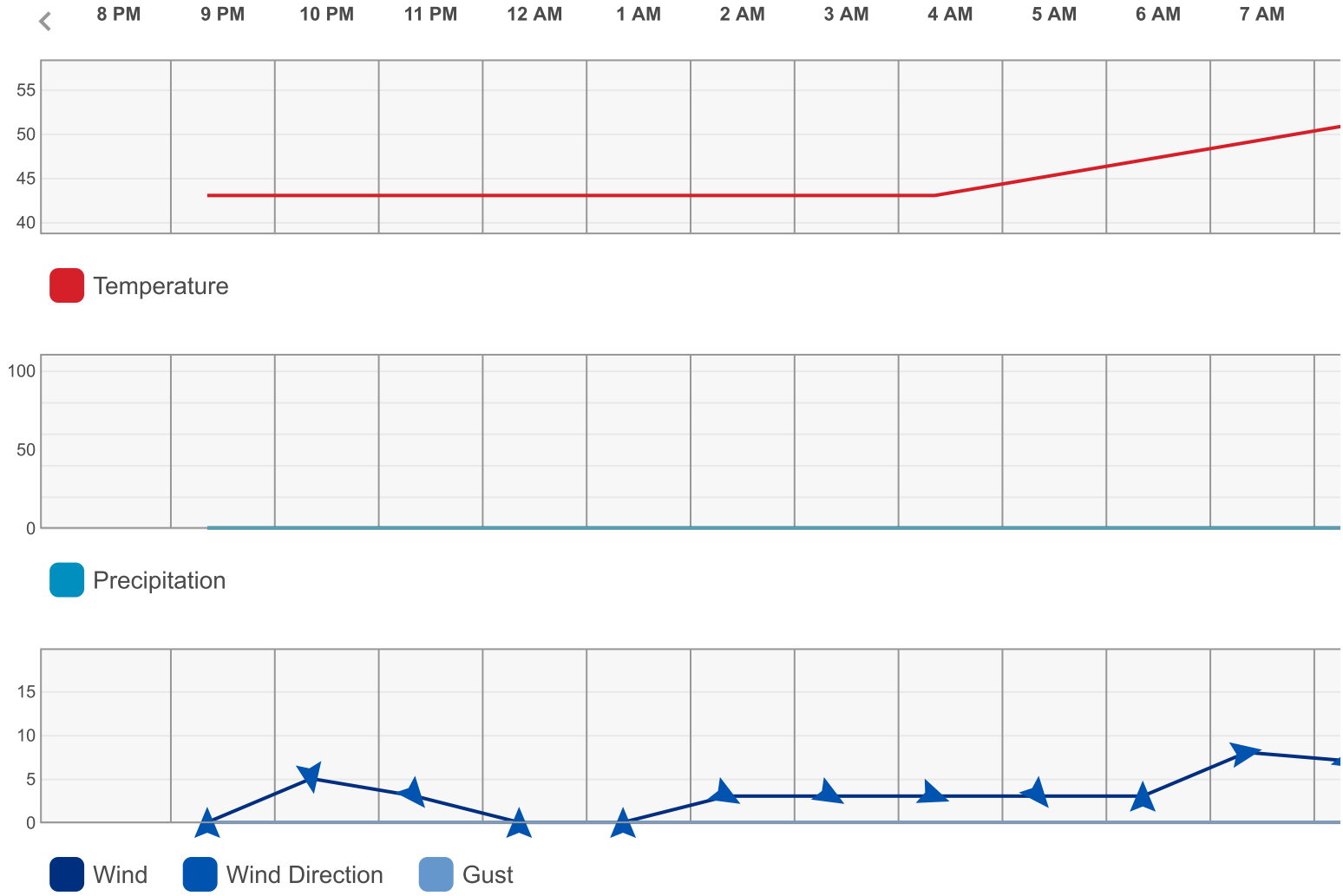
- 10-DAY (/FORECAST/US/NJ/NEWARK/KEWR)
- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)
- WUNDERMAP (/WUNDERMAP?LAT=40.69&LON=-74.18)

Daily Weekly Monthly

March **14** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	54	50	79
Low Temp	42	33	17
Day Average Temp	48	41	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0	0.13	1.15
Month to Date	2.22	1.75	-
Year to Date	9.9	8.17	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	17	24	-
HDD Month to Date	416	358	-
HDD Since July 1	3973	3993	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	0	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	34	-	-
High	42	-	-
Low	25	-	-
Average	34	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	13	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	30.28	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 51m	7:11 AM	7:02 PM
Civil Twilight		6:44 AM	7:30 PM
Nautical Twilight		6:12 AM	8:01 PM
Astronomical Twilight		5:40 AM	8:34 PM
Moon: waxing gibbous		11:58 AM	2:05 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:51 PM	43 ° F	25 ° F	49 %	CALM	0 mph	0 mph	30.3 in	0.0 in	0.0 in
9:51 PM	43 ° F	25 ° F	49 %	S	5 mph	0 mph	30.2 in	0.0 in	0.0 in
10:51 PM	43 ° F	25 ° F	49 %	SE	3 mph	0 mph	30.2 in	0.0 in	0.0 in
11:51 PM	43 ° F	25 ° F	49 %	CALM	0 mph	0 mph	30.2 in	0.0 in	0.0 in
12:51 AM	43 ° F	25 ° F	49 %	CALM	0 mph	0 mph	30.2 in	0.0 in	0.0 in
1:51 AM	43 ° F	25 ° F	49 %	ESE	3 mph	0 mph	30.2 in	0.0 in	0.0 in
2:51 AM	43 ° F	27 ° F	53 %	ESE	3 mph	0 mph	30.2 in	0.0 in	0.0 in
3:51 AM	43 ° F	31 ° F	62 %	ESE	3 mph	0 mph	30.2 in	0.0 in	0.0 in
4:51 AM	45 ° F	34 ° F	65 %	SE	3 mph	0 mph	30.2 in	0.0 in	0.0 in
5:51 AM	47 ° F	32 ° F	56 %	VAR	3 mph	0 mph	30.2 in	0.0 in	0.0 in
6:51 AM	49 ° F	33 ° F	54 %	E	8 mph	0 mph	30.2 in	0.0 in	0.0 in
7:51 AM	51 ° F	34 ° F	52 %	ESE	7 mph	0 mph	30.2 in	0.0 in	0.0 in
8:51 AM	51 ° F	35 ° F	54 %	ESE	8 mph	0 mph	30.2 in	0.0 in	0.0 in
9:51 AM	53 ° F	37 ° F	55 %	E	9 mph	0 mph	30.1 in	0.0 in	0.0 in
10:51 AM	52 ° F	37 ° F	57 %	ESE	8 mph	0 mph	30.1 in	0.0 in	0.0 in
11:51 AM	52 ° F	37 ° F	57 %	ESE	14 mph	0 mph	30.1 in	0.0 in	0.0 in
12:51 PM	51 ° F	38 ° F	61 %	E	10 mph	18 mph	30.1 in	0.0 in	0.0 in
1:51 PM	50 ° F	40 ° F	68 %	VAR	3 mph	0 mph	30.1 in	0.0 in	0.0 in
2:51 PM	50 ° F	40 ° F	68 %	VAR	3 mph	0 mph	30.0 in	0.0 in	0.0 in
3:51 PM	50 ° F	41 ° F	71 %	E	5 mph	0 mph	30.0 in	0.0 in	0.0 in
4:51 PM	50 ° F	41 ° F	71 %	ESE	8 mph	0 mph	30.0 in	0.0 in	0.0 in
5:51 PM	50 ° F	41 ° F	71 %	SE	7 mph	0 mph	30.0 in	0.0 in	0.0 in
6:51 PM	48 ° F	41 ° F	77 %	VAR	3 mph	0 mph	30.0 in	0.0 in	0.0 in
7:51 PM	49 ° F	42 ° F	77 %	E	3 mph	0 mph	30.0 in	0.0 in	0.0 in

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Newark Liberty International Airport, New Jersey ★

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HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)

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- CALENDAR (/CALENDAR/US/NJ/NEWARK/KEWR/DATE/2019-3)
- HISTORY (/HISTORY/DAILY/US/NJ/NEWARK/KEWR/DATE/2019-3-28)
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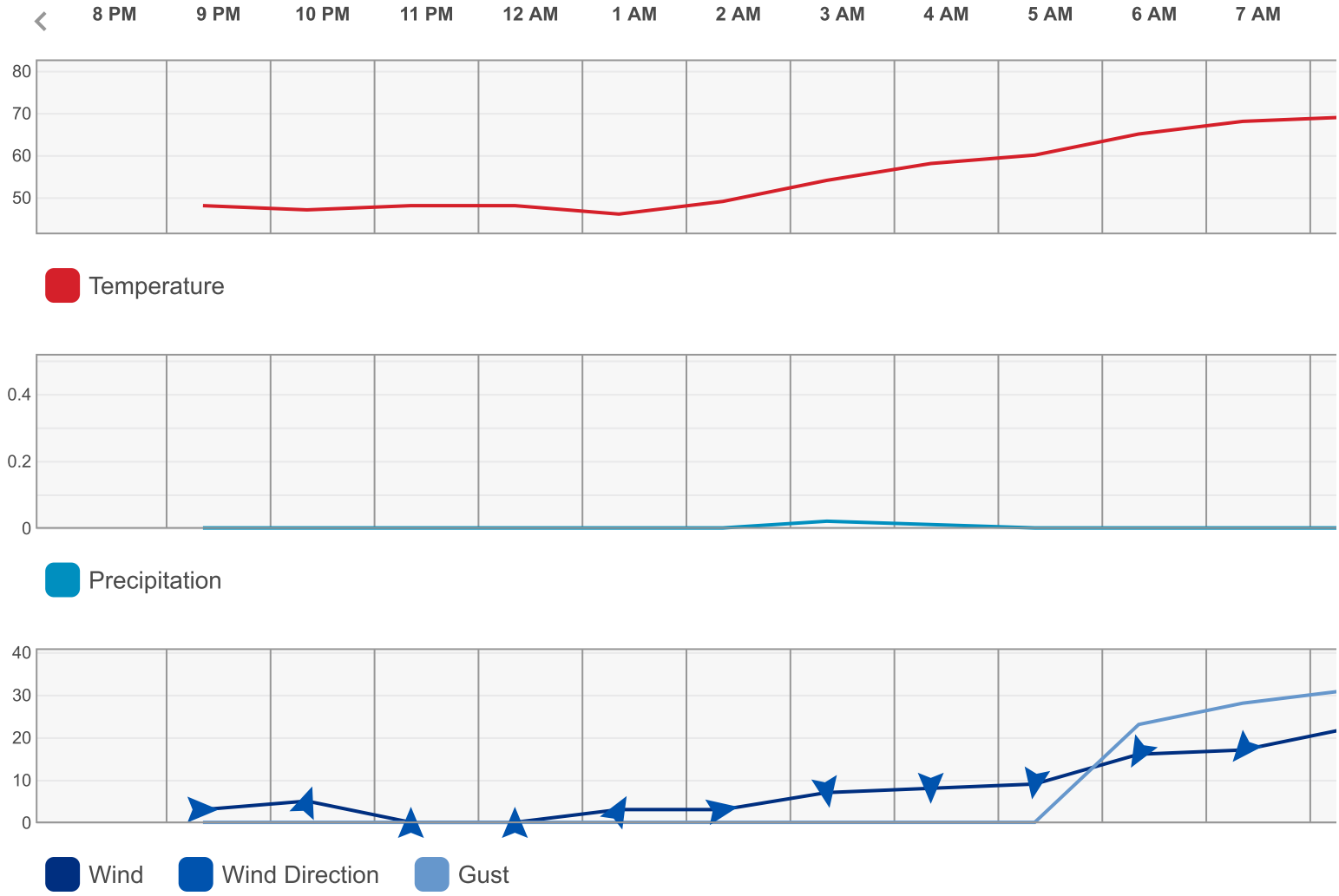
Daily Weekly Monthly

March **15** **2019** View



Summary

Temperature (° F)	Actual	Historic Avg.	Record
High Temp	77	50	79
Low Temp	45	33	14
Day Average Temp	61	42	-

Precipitation (Inches)	Actual	Historic Avg.	Record
Precipitation	0.52	0.14	1.48
Month to Date	2.74	1.89	-
Year to Date	10.42	8.31	-

Degree Days (° F)	Actual	Historic Avg.	Record

Temperature (° F)	Actual	Historic Avg.	Record
Heating Degree Days	4	23	-
HDD Month to Date	420	381	-
HDD Since July 1	3977	4016	-
Cooling Degree Days	0	0	-
CDD Month to Date	0	0	-
CDD Year to Date	0	0	-
Growing Degree Days	11	-	-

Dew Point (° F)	Actual	Historic Avg.	Record
Dew Point	53	-	-
High	58	-	-
Low	42	-	-
Average	53	-	-

Wind (MPH)	Actual	Historic Avg.	Record
Max Wind Speed	28	-	-
Visibility	10	-	-

Sea Level Pressure (Hg)	Actual	Historic Avg.	Record
Sea Level Pressure	29.98	-	-

Astronomy	Day Length	Rise	Set
Actual Time	11h 53m	7:10 AM	7:03 PM
Civil Twilight		6:42 AM	7:31 PM
Nautical Twilight		6:11 AM	8:02 PM
Astronomical Twilight		5:38 AM	8:35 PM
Moon: waxing gibbous		12:52 PM	3:08 AM

Daily Observations

Time	Temperature	Dew Point	Humidity	Wind	Wind Speed	Wind Gust	Pressure	Precip.	Precip Accum
8:51 PM	48 ° F	42 ° F	80 %	E	3 mph	0 mph	30.0 in	0.0 in	0.0 in
9:51 PM	47 ° F	42 ° F	83 %	NNE	5 mph	0 mph	29.9 in	0.0 in	0.0 in
10:51 PM	48 ° F	44 ° F	86 %	CALM	0 mph	0 mph	29.9 in	0.0 in	0.0 in
11:51 PM	48 ° F	44 ° F	86 %	CALM	0 mph	0 mph	29.9 in	0.0 in	0.0 in
12:51 AM	46 ° F	42 ° F	86 %	NNE	3 mph	0 mph	29.8 in	0.0 in	0.0 in
1:51 AM	49 ° F	45 ° F	86 %	E	3 mph	0 mph	29.8 in	0.0 in	0.0 in
2:51 AM	54 ° F	50 ° F	86 %	S	7 mph	0 mph	29.8 in	0.0 in	0.0 in
3:51 AM	58 ° F	53 ° F	84 %	S	8 mph	0 mph	29.8 in	0.0 in	0.0 in
4:51 AM	60 ° F	54 ° F	80 %	S	9 mph	0 mph	29.8 in	0.0 in	0.0 in
5:51 AM	65 ° F	56 ° F	73 %	SSW	16 mph	23 mph	29.8 in	0.0 in	0.0 in
6:51 AM	68 ° F	56 ° F	65 %	SW	17 mph	28 mph	29.8 in	0.0 in	0.0 in
7:51 AM	69 ° F	55 ° F	61 %	SW	22 mph	31 mph	29.8 in	0.0 in	0.0 in
8:51 AM	71 ° F	55 ° F	57 %	SW	17 mph	28 mph	29.7 in	0.0 in	0.0 in
9:51 AM	73 ° F	56 ° F	55 %	SW	16 mph	28 mph	29.7 in	0.0 in	0.0 in
10:51 AM	75 ° F	56 ° F	51 %	SW	21 mph	28 mph	29.7 in	0.0 in	0.0 in
11:51 AM	75 ° F	56 ° F	51 %	SSW	15 mph	23 mph	29.7 in	0.0 in	0.0 in
12:51 PM	75 ° F	56 ° F	51 %	SSW	20 mph	26 mph	29.6 in	0.0 in	0.0 in
1:51 PM	74 ° F	57 ° F	55 %	SSW	16 mph	24 mph	29.6 in	0.0 in	0.0 in
2:51 PM	71 ° F	57 ° F	61 %	SSW	16 mph	22 mph	29.6 in	0.0 in	0.0 in
3:51 PM	69 ° F	57 ° F	65 %	S	13 mph	0 mph	29.6 in	0.0 in	0.0 in
4:20 PM	69 ° F	58 ° F	68 %	SSW	15 mph	26 mph	29.6 in	0.0 in	0.0 in
4:38 PM	69 ° F	58 ° F	68 %	W	16 mph	29 mph	29.6 in	0.0 in	0.0 in
4:42 PM	67 ° F	56 ° F	68 %	WNW	13 mph	29 mph	29.6 in	0.0 in	0.0 in
4:51 PM	64 ° F	54 ° F	68 %	W	28 mph	37 mph	29.7 in	0.0 in	0.0 in
5:38 PM	60 ° F	58 ° F	93 %	W	10 mph	0 mph	29.6 in	0.4 in	0.0 in
5:51 PM	60 ° F	58 ° F	93 %	SW	10 mph	0 mph	29.7 in	0.5 in	0.0 in
6:51 PM	61 ° F	58 ° F	90 %	W	8 mph	0 mph	29.7 in	0.0 in	0.0 in
7:51 PM	60 ° F	43 ° F	53 %	W	21 mph	28 mph	29.7 in	0.0 in	0.0 in

From the Web

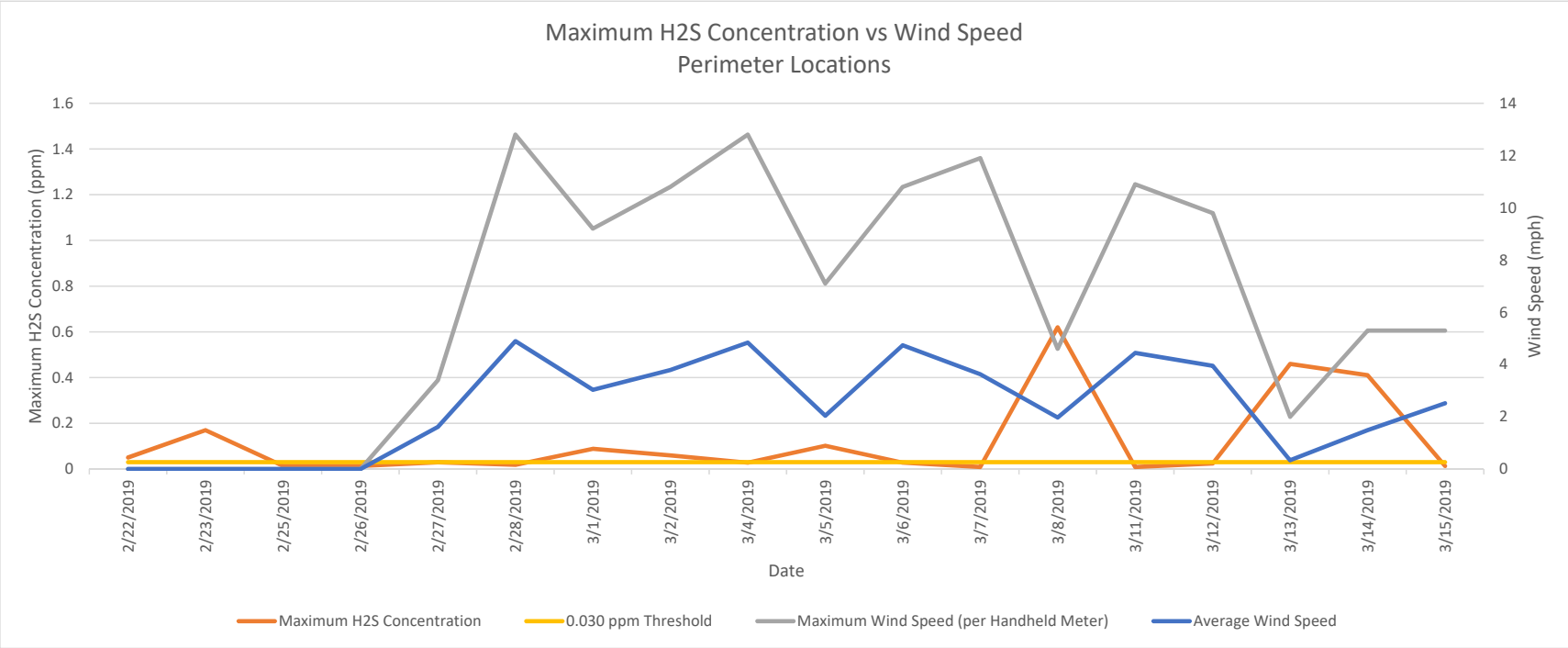
Sponsored By ZergNet

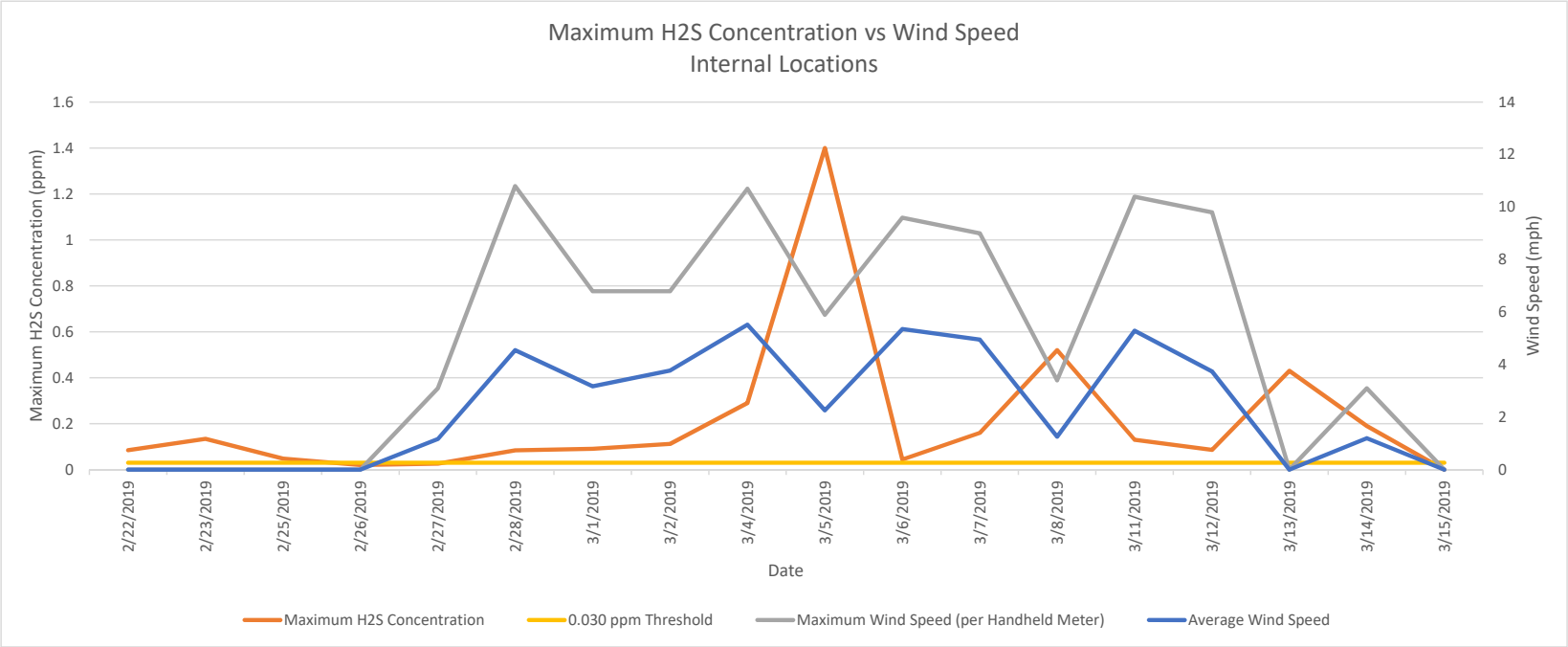
Attachment 5

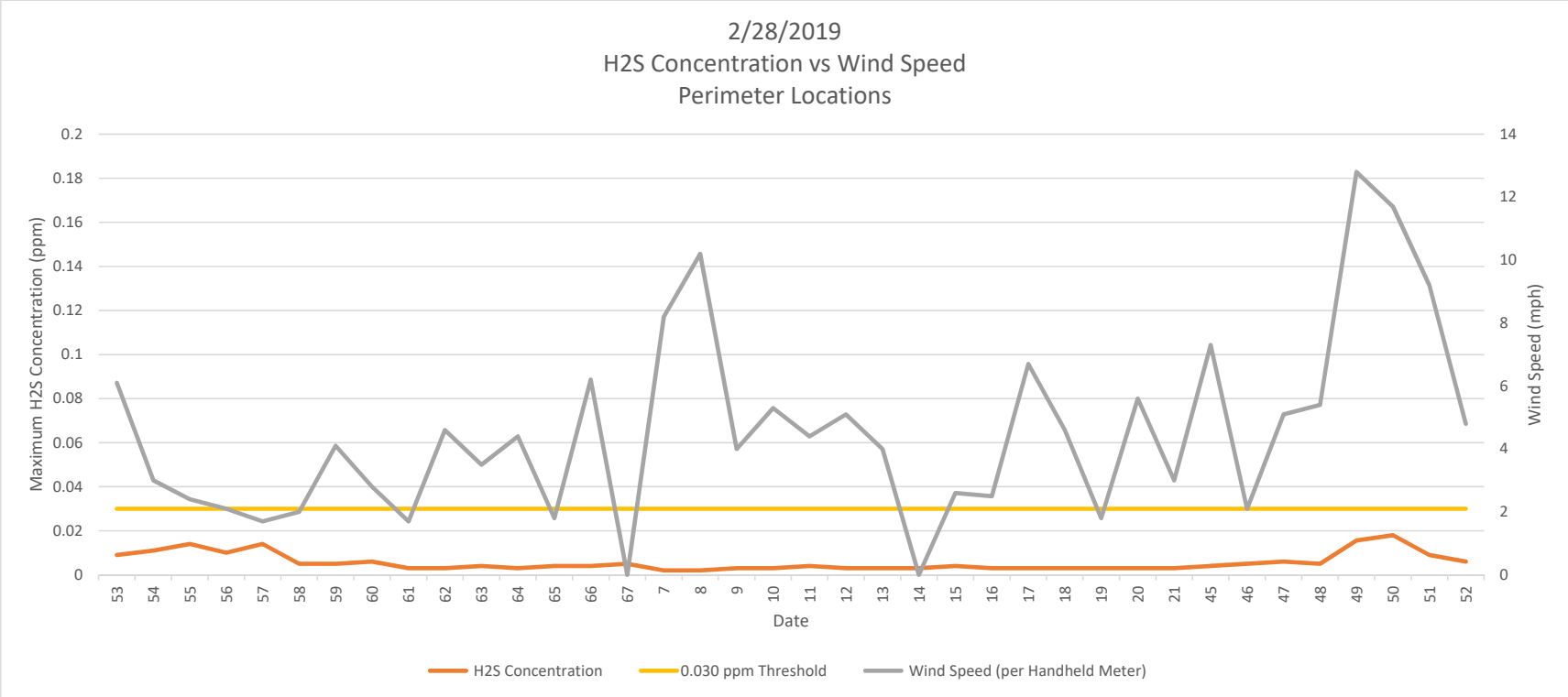
Ambient Air Monitoring Data Summary
Keegan Landfill

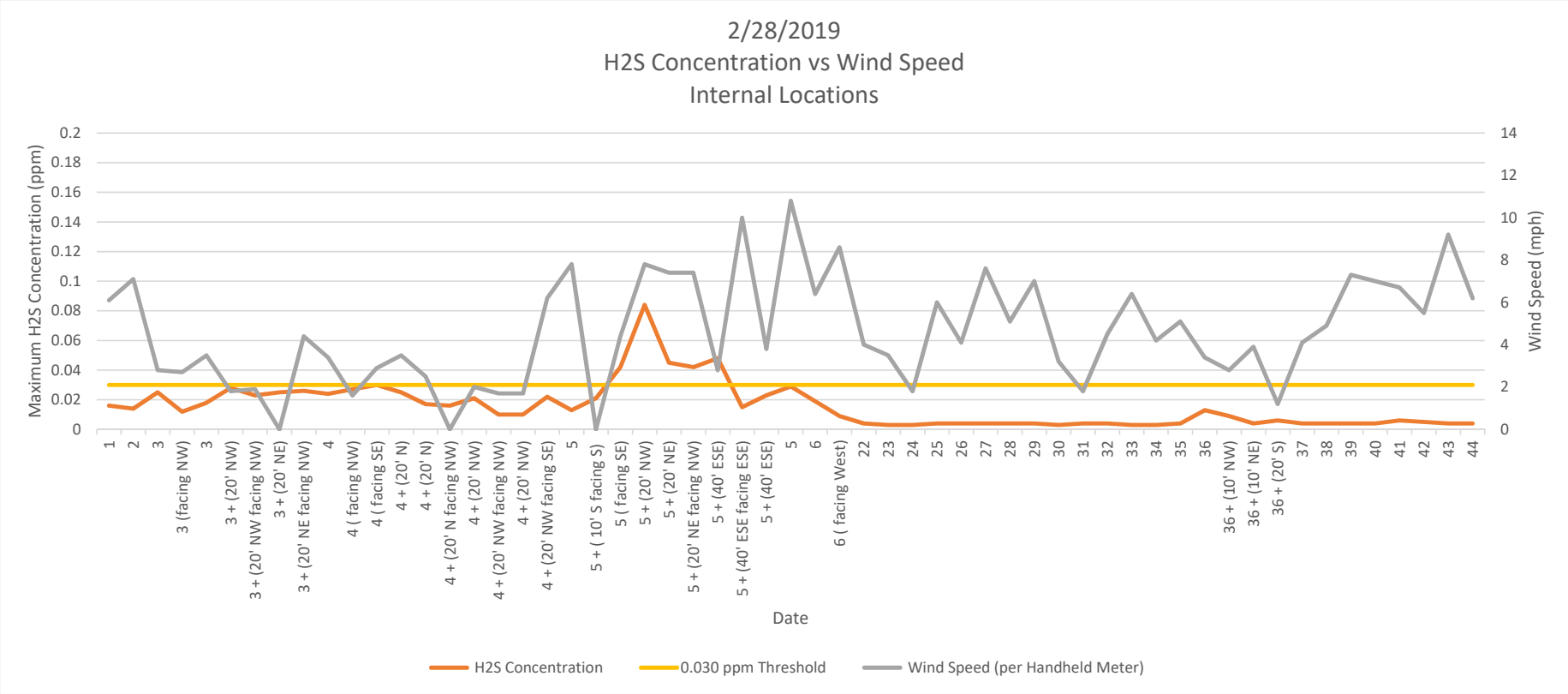
	Perimeter Monitoring Points					Internal Monitoring Points[3]				
DATE	Maximum H2S Concentration (ppm)	Minimum H2S Concentration (ppm)	Maximum Wind Speed (mph)[1]	Average Wind Speed (mph)[1]	Prevailing Wind Direction[2]	Maximum H2S Concentration (ppm)	Minimum H2S Concentration (ppm)	Maximum Wind Speed (mph)[1]	Average Wind Speed (mph)[1]	Prevailing Wind Direction[2]
2/22/2019	0.05	0.001	-	-	NW to NNW	0.085	0.001	-	-	NW to NNW
2/23/2019	0.17	0.002	-	-	NNE	0.134	0.002	-	-	NNE
2/25/2019	0.014	0	-	-	W	0.048	0	-	-	W
2/26/2019	0.013	0.002	-	-	W	0.02	0.001	-	-	W
2/27/2019	0.029	0.002	3.4	1.6	NNE	0.026	0.006	3.1	1.2	NNE
2/28/2019	0.018	0.002	12.8	4.9	N to NNW	0.084	0.003	10.8	4.6	N to NNW
3/1/2019	0.088	0	9.2	3.0	N to NNE	0.091	0	6.8	3.2	N to NNE
3/2/2019	0.059	0.002	10.8	3.8	N to NNE	0.112	0.002	6.8	3.8	N to NNE
3/4/2019	0.028	0.002	12.8	4.8	N to NW	0.29	0.002	10.7	5.5	N to NW
3/5/2019	0.102	0.005	7.1	2.0	WNW to W	1.4	0.005	5.9	2.3	WNW to W
3/6/2019	0.028	0.003	10.8	4.7	W	0.044	0.004	9.6	5.4	W
3/7/2019	0.009	0.006	11.9	3.6	WSW to W	0.16	0.006	9	5.0	WSW to W
3/8/2019	0.62	0.005	4.6	2.0	S to W	0.52	0.006	3.4	1.3	S to W
3/11/2019	0.009	0	10.9	4.4	W	0.13	0.003	10.4	5.3	W
3/12/2019	0.024	0	9.8	3.9	WNW to NNW	0.086	0.005	9.8	3.7	WNW to NNW
3/13/2019	0.46	0.009	2	0.3	WSW to NW	0.43	0.005	0	0.0	WSW to NW
3/14/2019	0.41	0.006	5.3	1.5	ESE	0.19	0.007	3.1	1.2	ESE
3/15/2019	0.013	0.009	5.3	2.5	SW	-	-	-	-	-

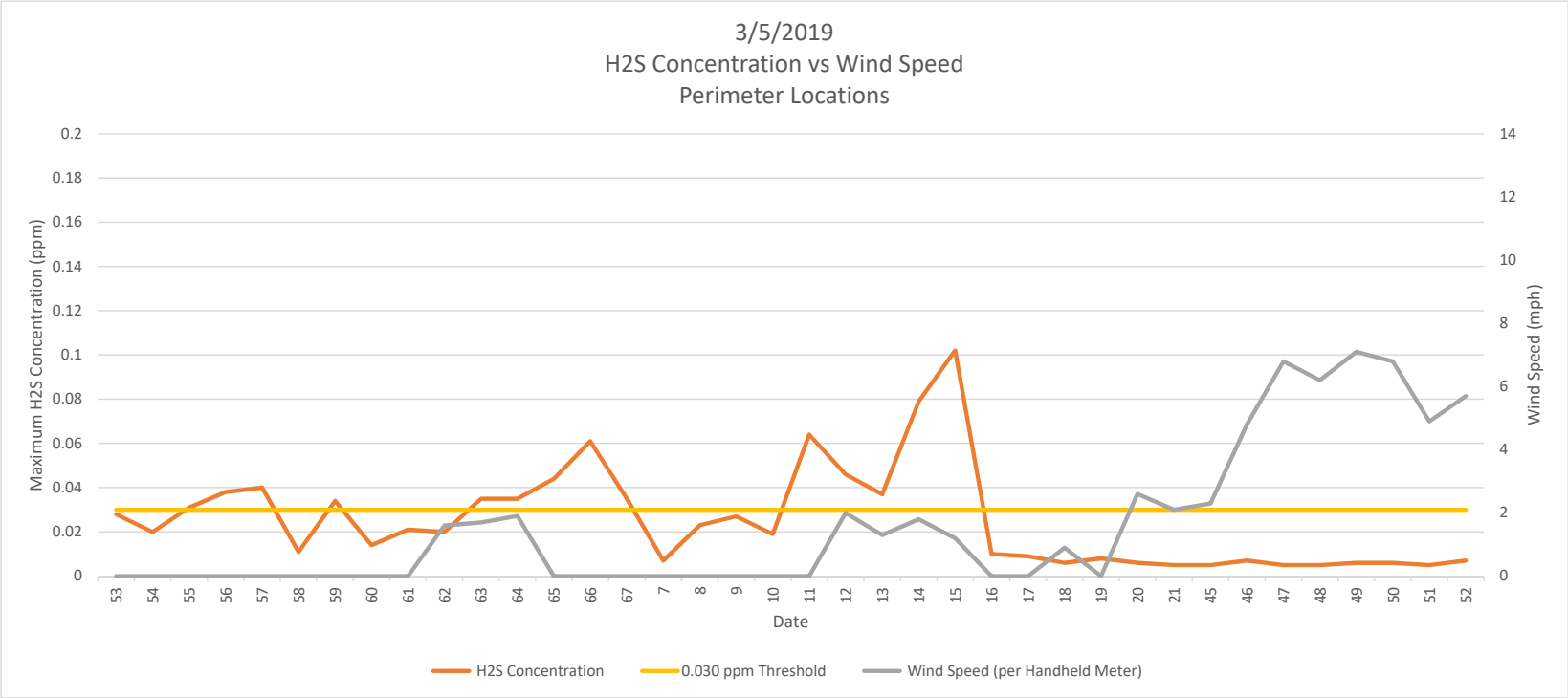
(1) Wind readings not taken between 2/22/2019 and 2/26/2019.
(2) Wind direction determined by the mode of weather data for "Newark International Airport" from wunderground.com
(3) No internal monitoring performed on 3/15/2019

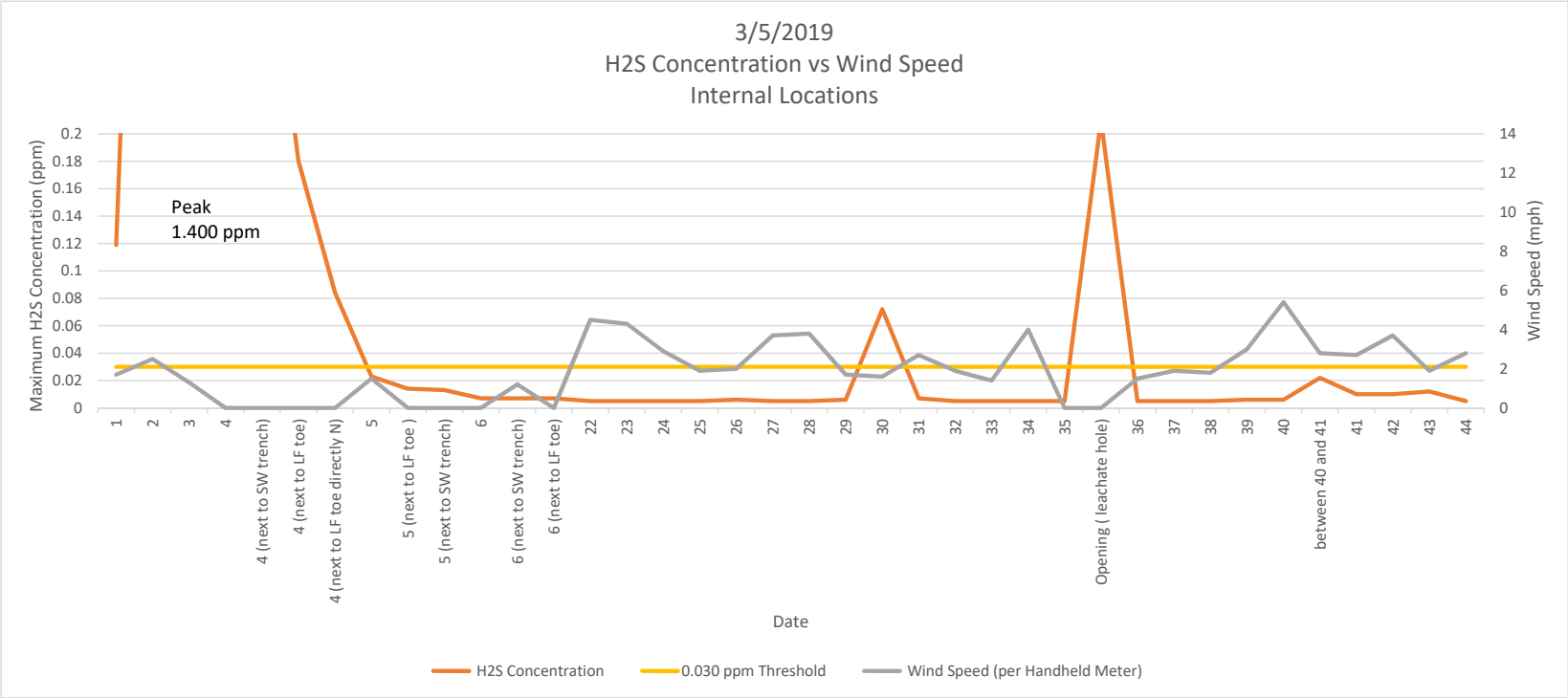

Maximum H2S Concentration vs Wind Speed
Perimeter Locations
Maximum H2S Concentration (ppm)
Wind Speed (mph)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
14
12
10
8
6
4
2
0
2/22/2019
2/23/2019
2/25/2019
2/26/2019
2/27/2019
2/28/2019
3/1/2019
3/2/2019
3/4/2019
3/5/2019
3/6/2019
3/7/2019
3/8/2019
3/11/2019
3/12/2019
3/13/2019
3/14/2019
3/15/2019
Date
Maximum H2S Concentration
0.030 ppm Threshold
Maximum Wind Speed (per Handheld Meter)
Average Wind Speed


Maximum H2S Concentration vs Wind Speed
Internal Locations
Maximum H2S Concentration (ppm)
Wind Speed (mph)
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
14
12
10
8
6
4
2
0
2/22/2019
2/23/2019
2/25/2019
2/26/2019
2/27/2019
2/28/2019
3/1/2019
3/2/2019
3/4/2019
3/5/2019
3/6/2019
3/7/2019
3/8/2019
3/11/2019
3/12/2019
3/13/2019
3/14/2019
3/15/2019
Date
Maximum H2S Concentration
0.030 ppm Threshold
Maximum Wind Speed (per Handheld Meter)
Average Wind Speed


2/28/2019
H2S Concentration vs Wind Speed
Perimeter Locations
Maximum H2S Concentration (ppm)
Wind Speed (mph)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
14
12
10
8
6
4
2
0
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 45 46 47 48 49 50 51 52
Date
H2S Concentration
0.030 ppm Threshold
Wind Speed (per Handheld Meter)

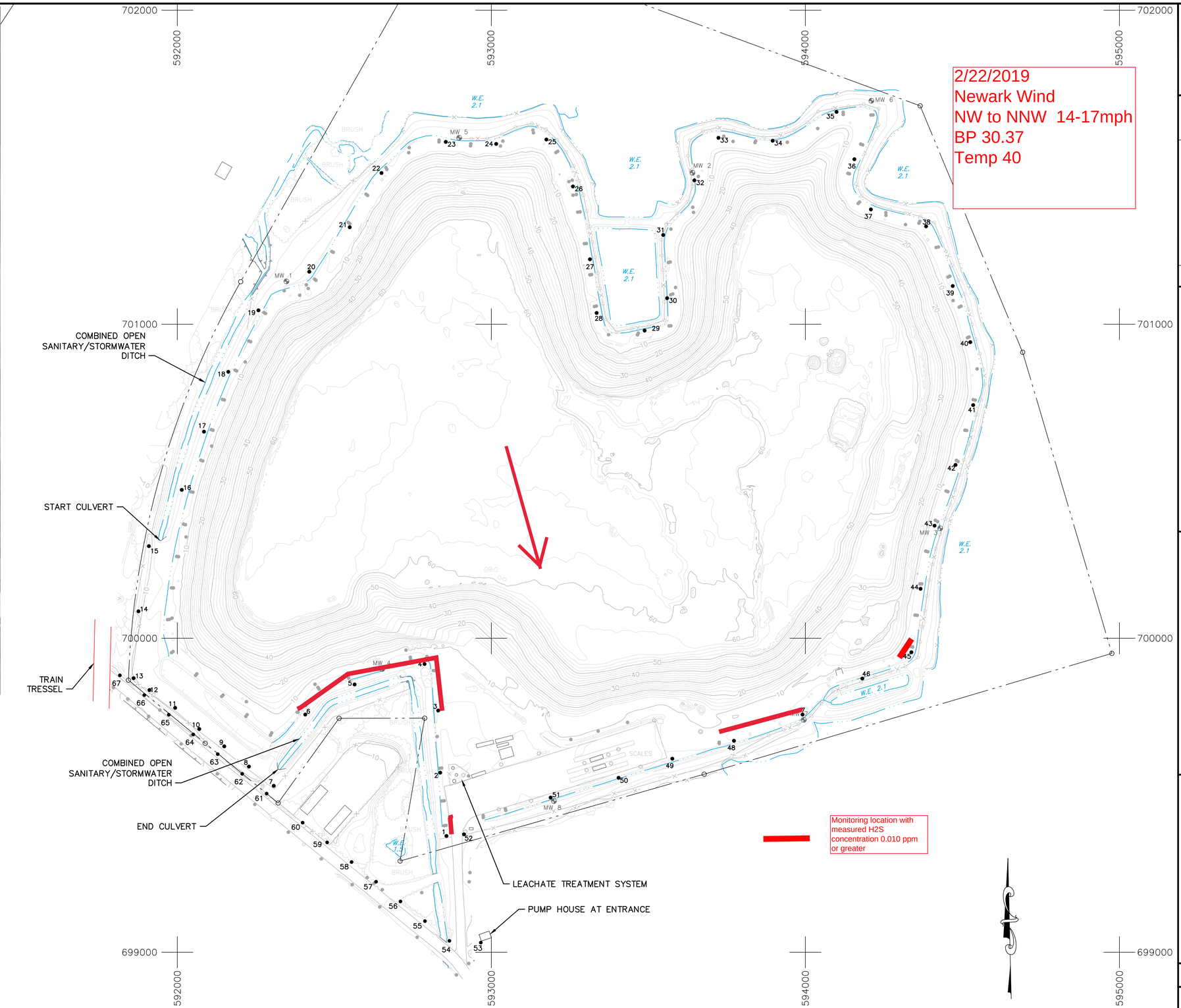

2/28/2019
H2S Concentration vs Wind Speed
Internal Locations
Maximum H2S Concentration (ppm)
Wind Speed (mph)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
14
12
10
8
6
4
2
0
1
2
3
3 (facing NW)
3
3 + (20' NW)
3 + (20' NW facing NW)
3 + (20' NE)
3 + (20' NE facing NW)
4
4 (facing NW)
4 (facing SE)
4 + (20' N)
4 + (20' N)
4 + (20' N facing NW)
4 + (20' NW)
4 + (20' NW facing NW)
4 + (20' NW)
4 + (20' NW facing SE)
5
5 + (10' S facing S)
5 (facing SE)
5 + (20' NW)
5 + (20' NE)
5 + (20' NE facing NW)
5 + (40' ESE)
5 + (40' ESE facing ESE)
5 + (40' ESE)
5
6
6 (facing West)
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
36 + (10' NW)
36 + (10' NE)
36 + (20' S)
37
38
39
40
41
42
43
44
Date
H2S Concentration
0.030 ppm Threshold
Wind Speed (per Handheld Meter)


3/5/2019
H2S Concentration vs Wind Speed
Perimeter Locations
Maximum H2S Concentration (ppm)
Wind Speed (mph)
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
14
12
10
8
6
4
2
0
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 45 46 47 48 49 50 51 52
Date
H2S Concentration
0.030 ppm Threshold
Wind Speed (per Handheld Meter)


3/5/2019
H2S Concentration vs Wind Speed
Internal Locations
Maximum H2S Concentration (ppm)
Wind Speed (mph)
Peak
1.400 ppm
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
14
12
10
8
6
4
2
0
1
2
3
4
4 (next to SW trench)
4 (next to LF toe)
4 (next to LF toe directly N)
5
5 (next to LF toe)
5 (next to SW trench)
6
6 (next to SW trench)
6 (next to LF toe)
22
23
24
25
26
27
28
29
30
31
32
33
34
35
Opening (leachate hole)
36
37
38
39
40
between 40 and 41
41
42
43
44
Date
H2S Concentration
0.030 ppm Threshold
Wind Speed (per Handheld Meter)

Attachment 6

0 300 600 900
SCALE IN FEET



150 75 0 150 300
SCALE: 1"=150'

LEGEND:

- PROPERTY LINE
- 30 EXISTING CONTOUR
- VEGETATION LINE
- MW GROUND WATER MONITORING WELL
- 60 MONITORING LOCATION

REFERENCES:

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3. COORDINATE AND ELEVATION DATA FOR MONITORING WELLS WERE PROVIDED BY NJSEA.

NO.	REVISION	DATE
1	ISSUED FOR CLIENT REVIEW	2/28/2019

SHEET TITLE
MONITORING SITE PLAN

PROJECT TITLE
MONITORING SUPPORT KEEGAN LANDFILL

CLIENT
NEW JERSEY SPORTS & EXHIBITION AUTHORITY
1 DE KORTE PARK PLAZA, POB 640
LYNDHURST, NJ 07071

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
4 EXECUTIVE BLVD, SUITE 202, SUFFERN, NY 10901
PH. (845) 357-1510 FAX. (845) 357-1049

PROJ. NO. 02219702.00
DWN. BY: SHY
Q/A RVW BY: LKW
DSN. BY: LKW
CHK. BY: LKW
APP. BY: LKW

CADD FILE: MONITORING SP
DATE: 2/28/2019
SCALE: AS SHOWN
DRAWING NO. 1 of 1

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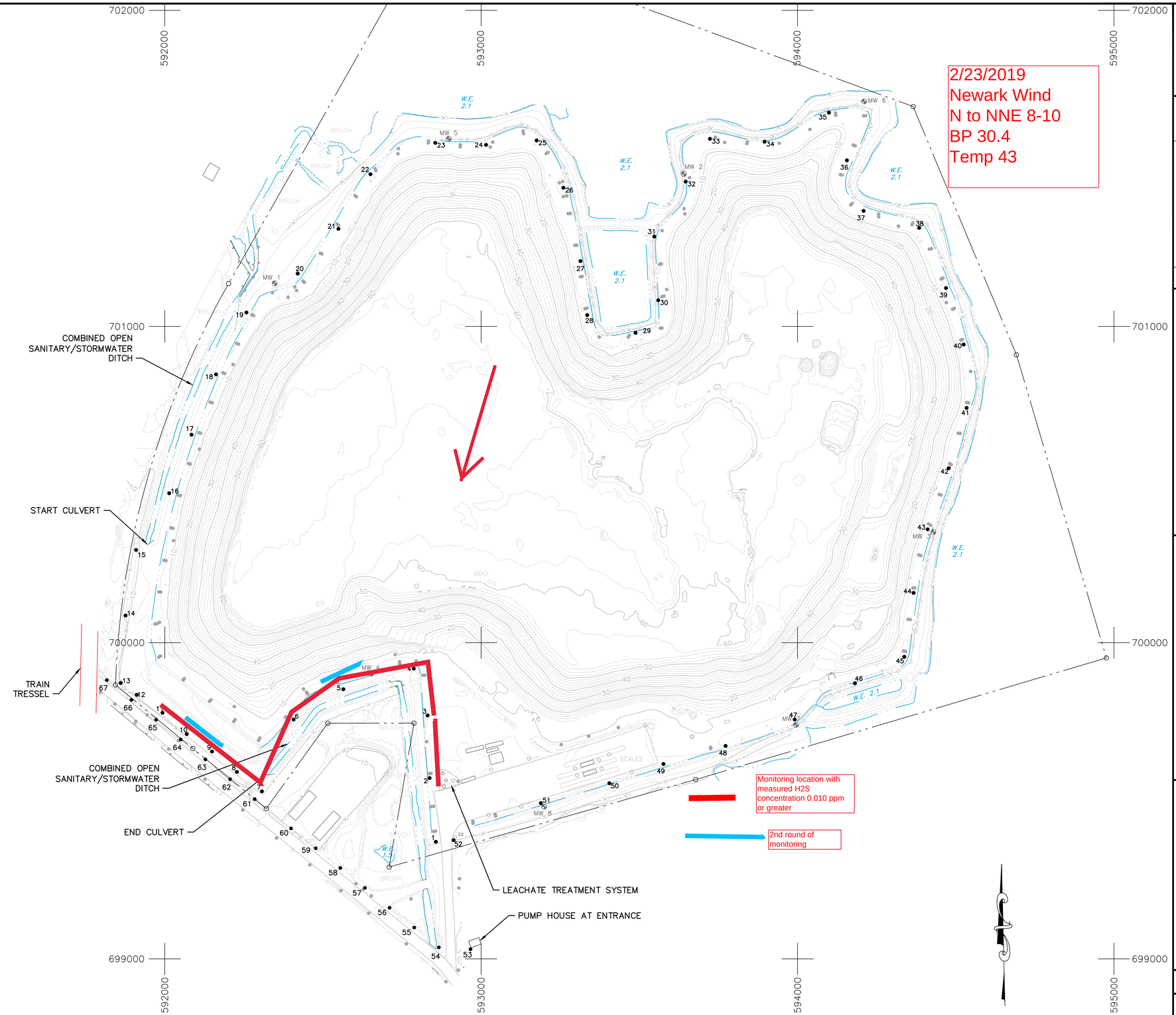
SCALE IN FEET



150 75 0 150 300
SCALE: 1"=150'

LEGEND:

- PROPERTY LINE
- 30 EXISTING CONTOUR
- VEGETATION LINE
- MW GROUND WATER MONITORING WELL
- 60 MONITORING LOCATION

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CADD FILE: MONITORING SP
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DRAWING NO. 1 of 1

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0 300 600 900
SCALE IN FEET

LEGEND:

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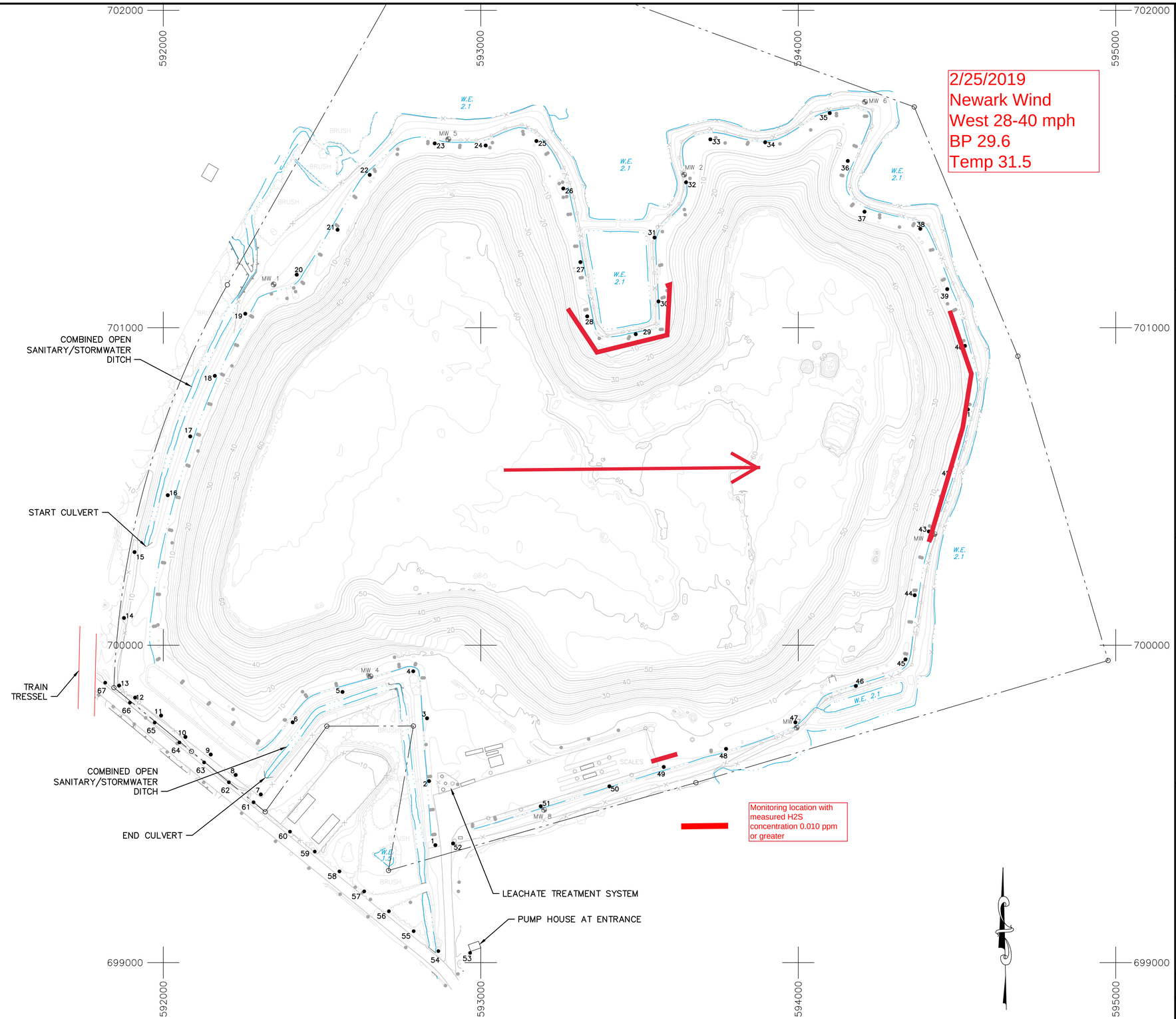

150 75 0 150 300
SCALE: 1"=150'

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PROJ. NO. 02219702.00
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Q/A RVW BY: LKW
CHK. BY: LKW
APP. BY: LKW
ISSUE BY: LKW

CADD FILE: MONITORING SP
DATE: 2/28/2019
SCALE: AS SHOWN
DRAWING NO. 1 of 1

L:\PROJECTS\02219702.00\DRAWINGS\MONITORING SP.DWG layout: SP plotted on: 2/28/2019 4:10 PM Yovchak, Sharon

0 300 600 900
SCALE IN FEET

LEGEND:

- PROPERTY LINE
- 30 EXISTING CONTOUR
- VEGETATION LINE
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- 60 MONITORING LOCATION

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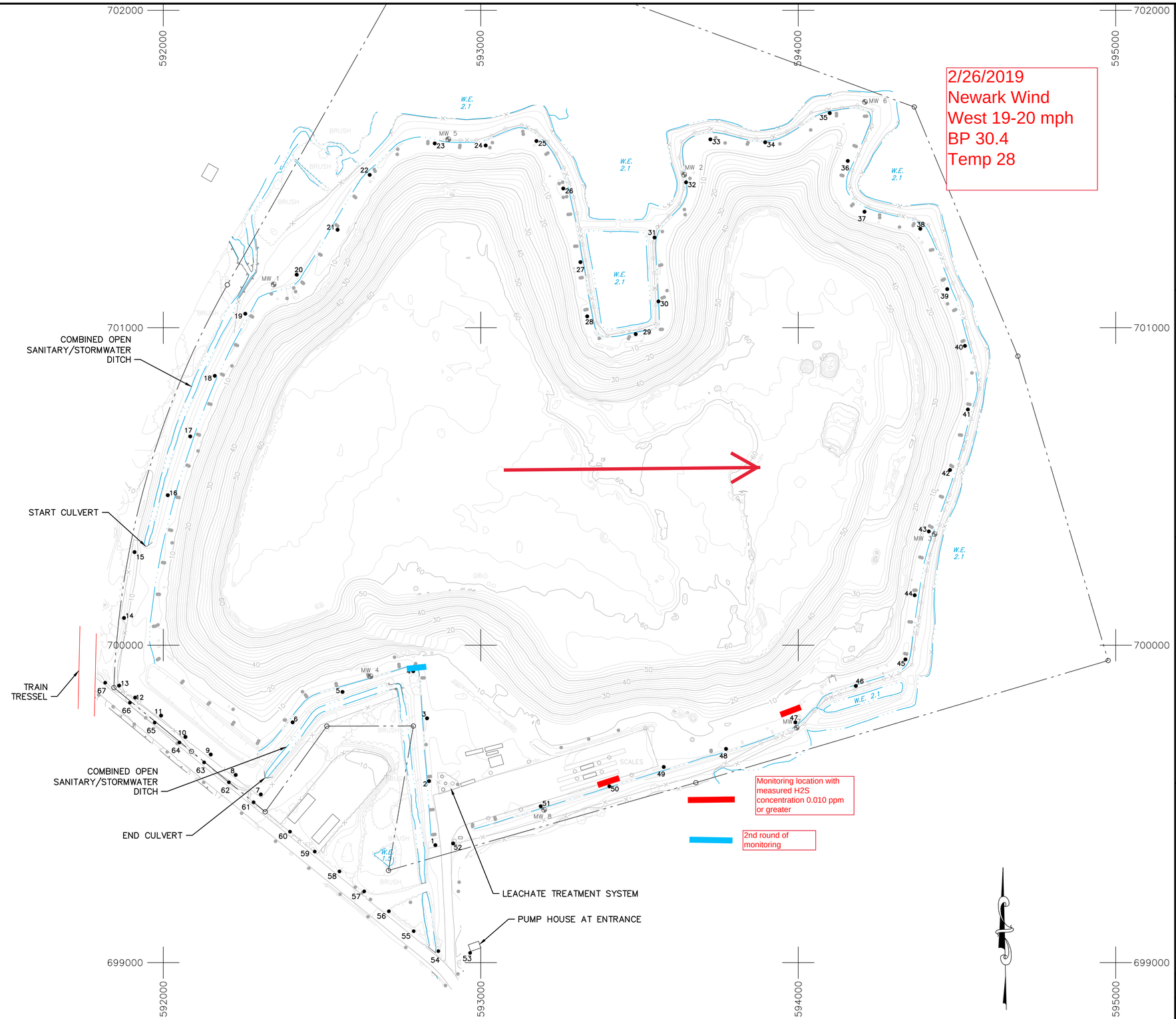

150 75 0 150 300
SCALE: 1"=150'

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L:\PROJECTS\02219702.00\DRAWINGS\MONITORING SP.DWG layout: SP plotted on: 2/28/2019 4:10 PM Yovchak, Sharon

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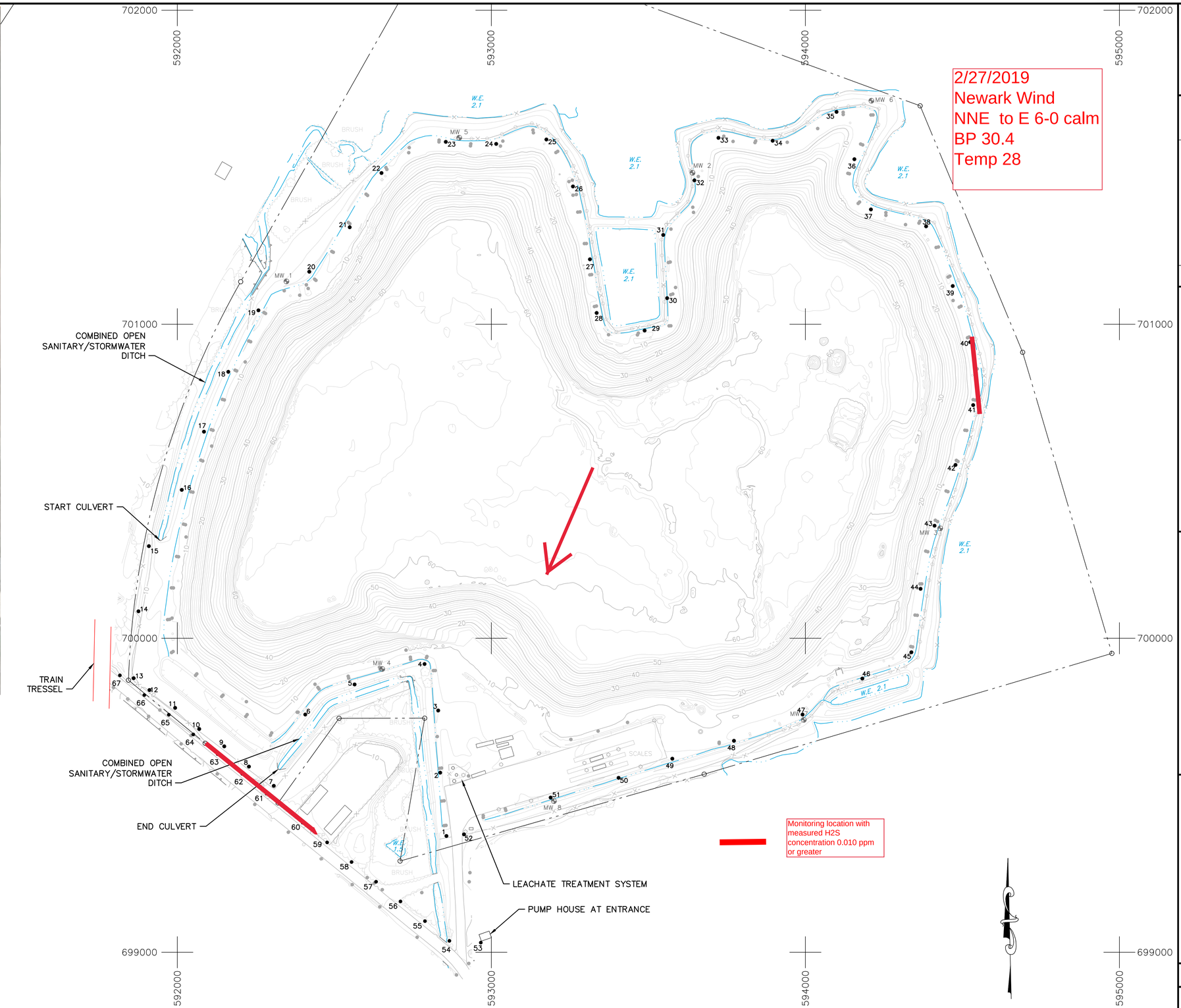
SCALE IN FEET



150 75 0 150 300
SCALE: 1"=150'

LEGEND:

- PROPERTY LINE
- 30 EXISTING CONTOUR
- VEGETATION LINE
- MW GROUND WATER MONITORING WELL
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REFERENCES:

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NO.	REVISION	DATE
A	ISSUED FOR CLIENT REVIEW	2/28/2019

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PROJECT TITLE
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CLIENT
NEW JERSEY SPORTS & EXHIBITION AUTHORITY
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PROJ. NO. 02219702.00
DWN. BY: SHY
CHK. BY: LKW
ISSUE BY: LKW
Q/A RVW BY: LKW
APP. BY: LKW

CADD FILE: MONITORING SP
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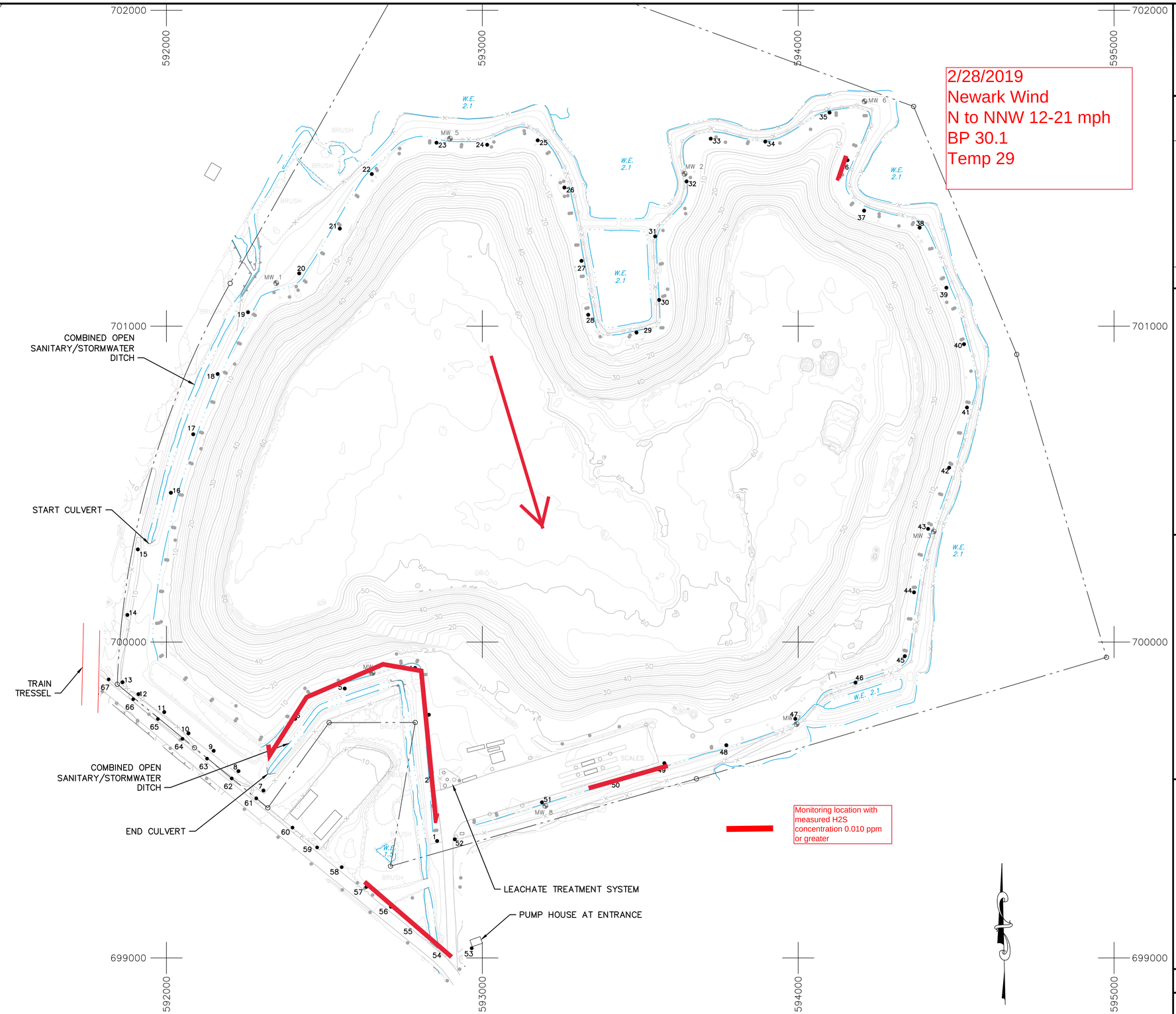
DRAWING NO. 1 of 1

L:\PROJECTS\02219702.00\DRAWINGS\MONITORING SP.DWG layout: SP plotted on: 2/28/2019 4:10 PM Yovchak, Sharon

0 300 600 900
SCALE IN FEET



150 75 0 150 300
SCALE: 1"=150'

LEGEND:

- PROPERTY LINE
- EXISTING CONTOUR
- VEGETATION LINE
- GROUND WATER MONITORING WELL
- MONITORING LOCATION

REFERENCES:

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PROJECT TITLE
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CLIENT
NEW JERSEY SPORTS & EXHIBITION AUTHORITY
1 DE KORTE PARK PLAZA, POB 640
LYNDHURST, NJ 07071

SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT
CONSULTING ENGINEERS, INC.
4 EXECUTIVE BLVD, SUITE 202, SUFFERN, NY 10901
PH. (845) 357-1510 FAX. (845) 357-1049

PROJ. NO. 02219702.00
DWN. BY: SHY
Q/A RVW BY: LKW
DSN. BY: LKW
CHK. BY: LKW
APP. BY: LKW

CADD FILE: MONITORING SP
DATE: 2/28/2019
SCALE: AS SHOWN
DRAWING NO. 1 of 1

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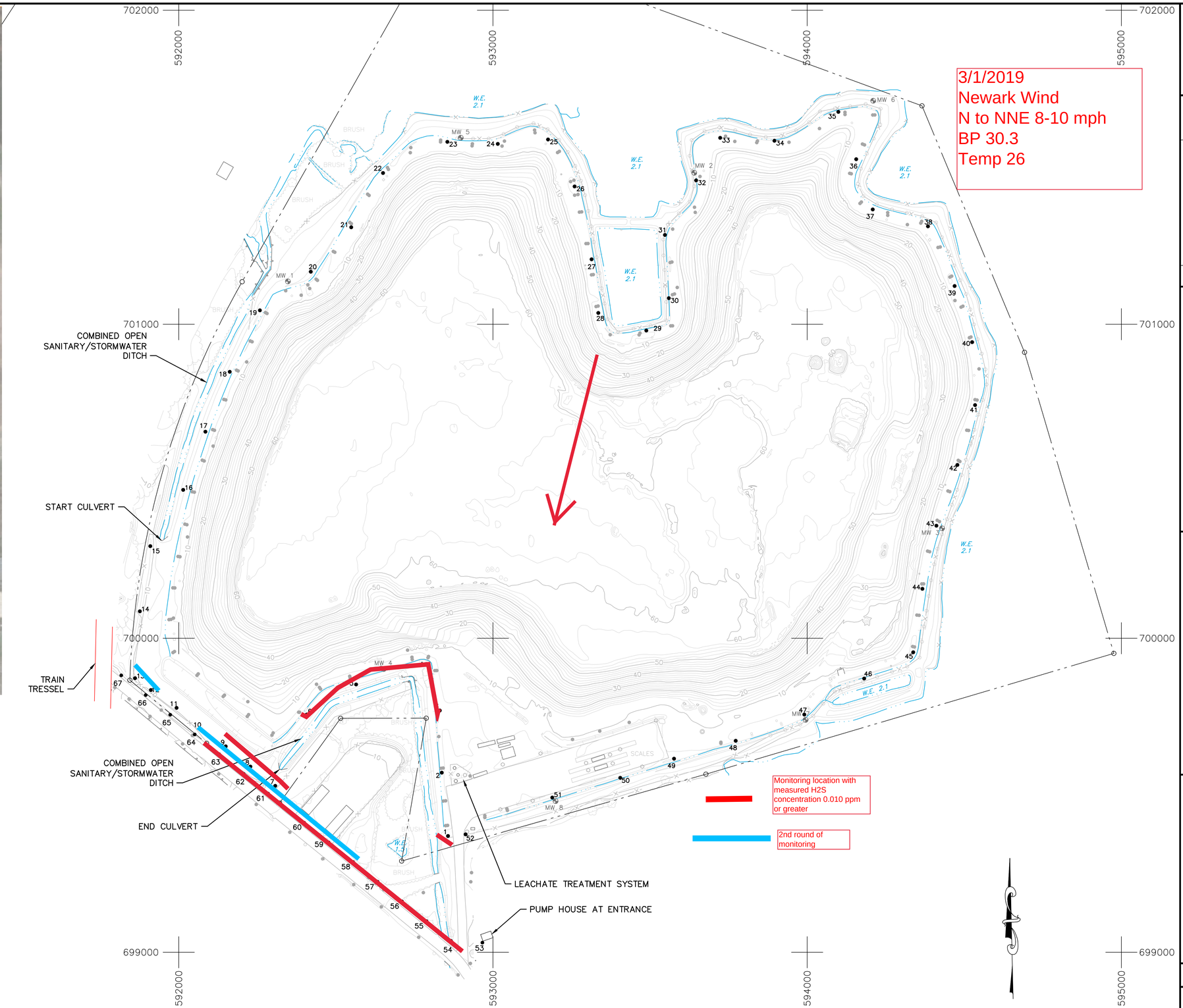

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LEGEND:

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- EXISTING CONTOUR
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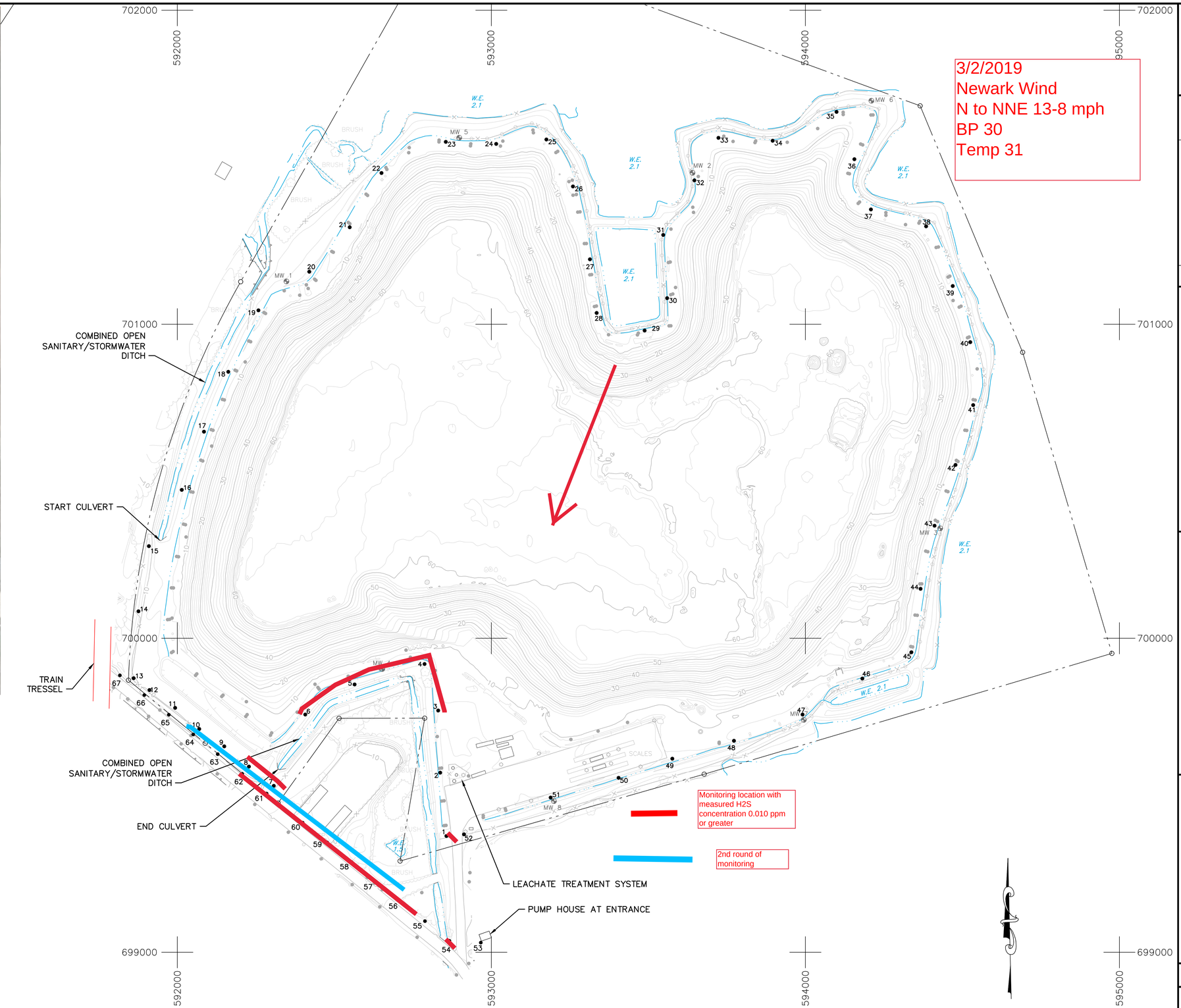

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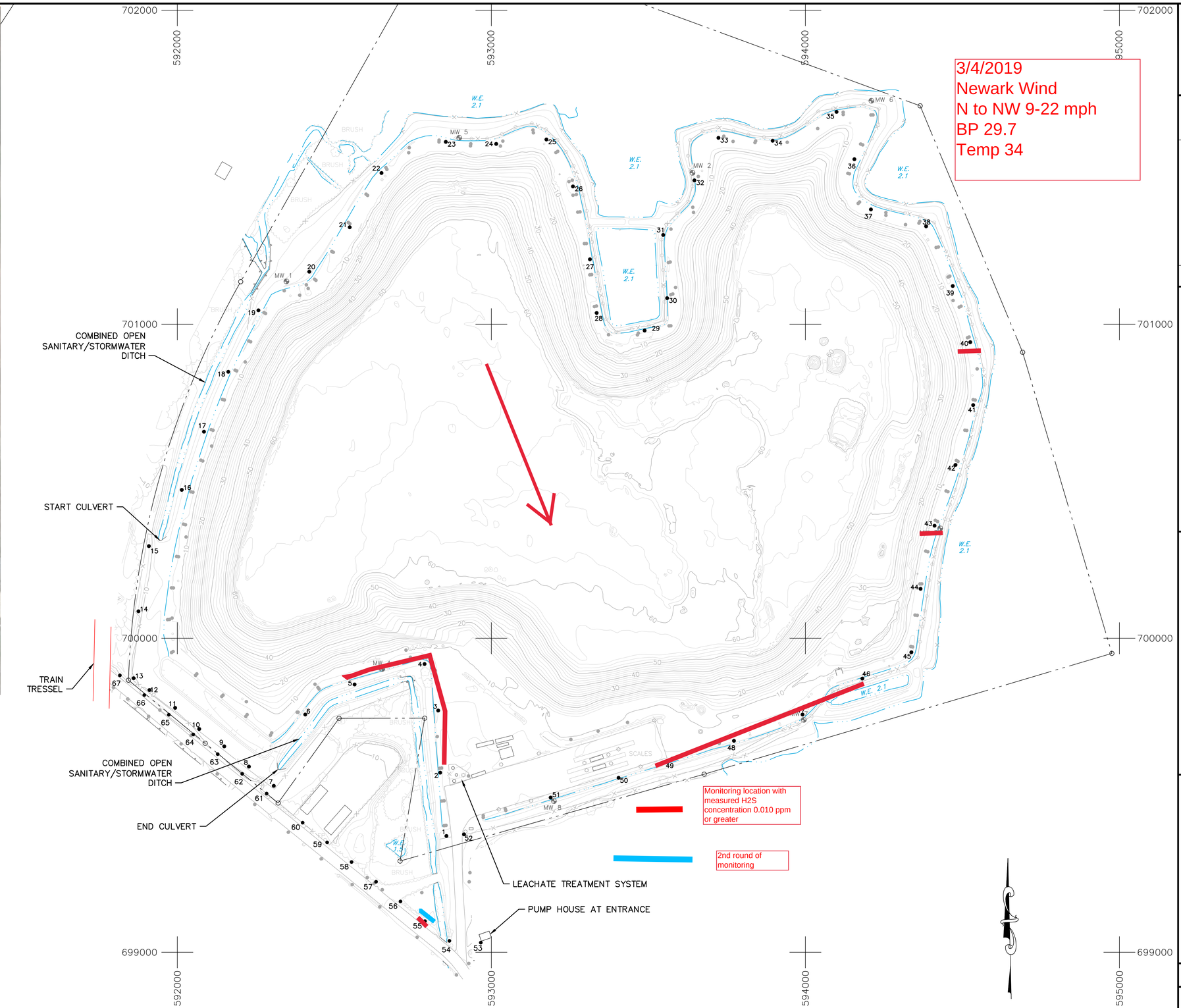

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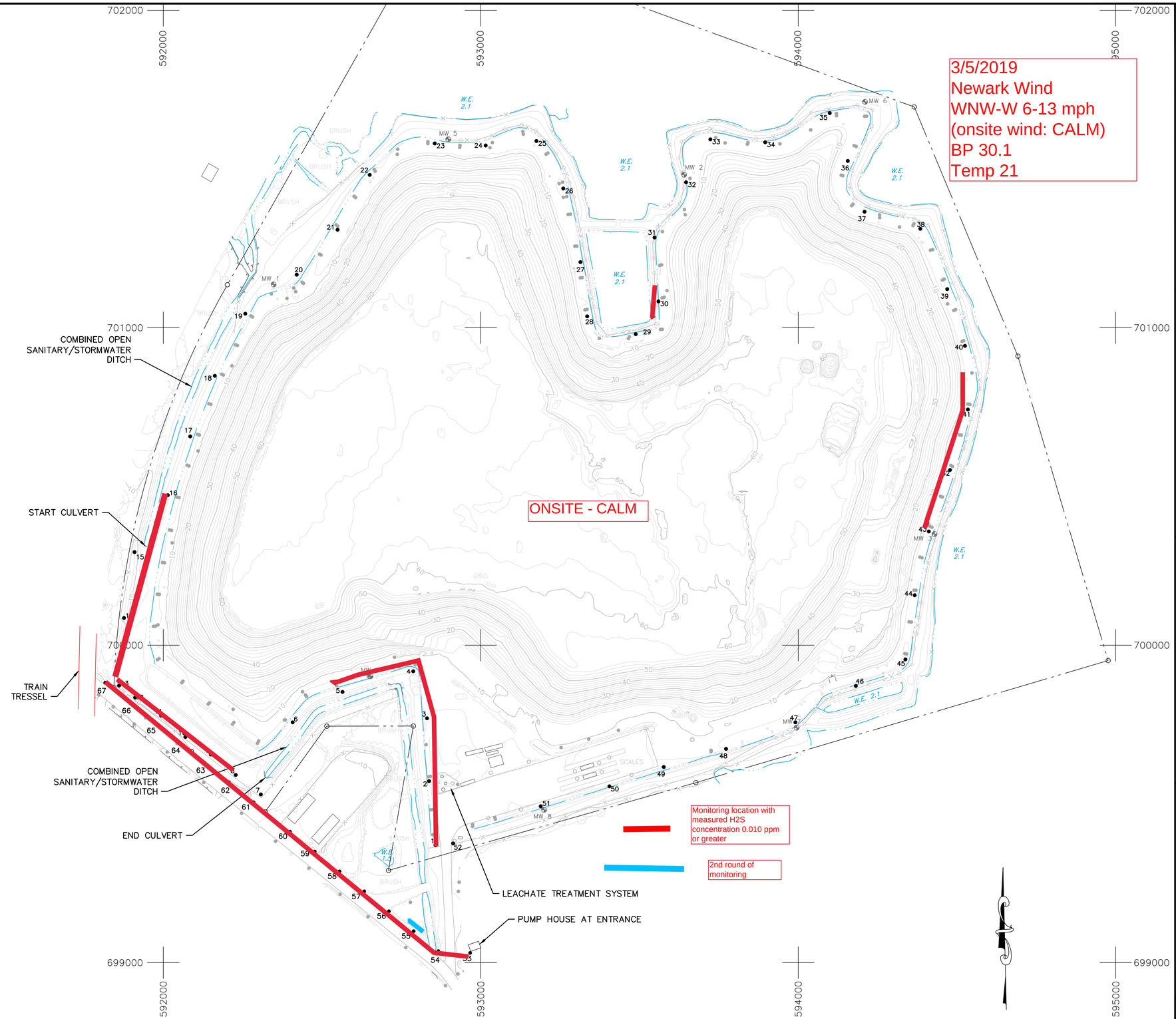

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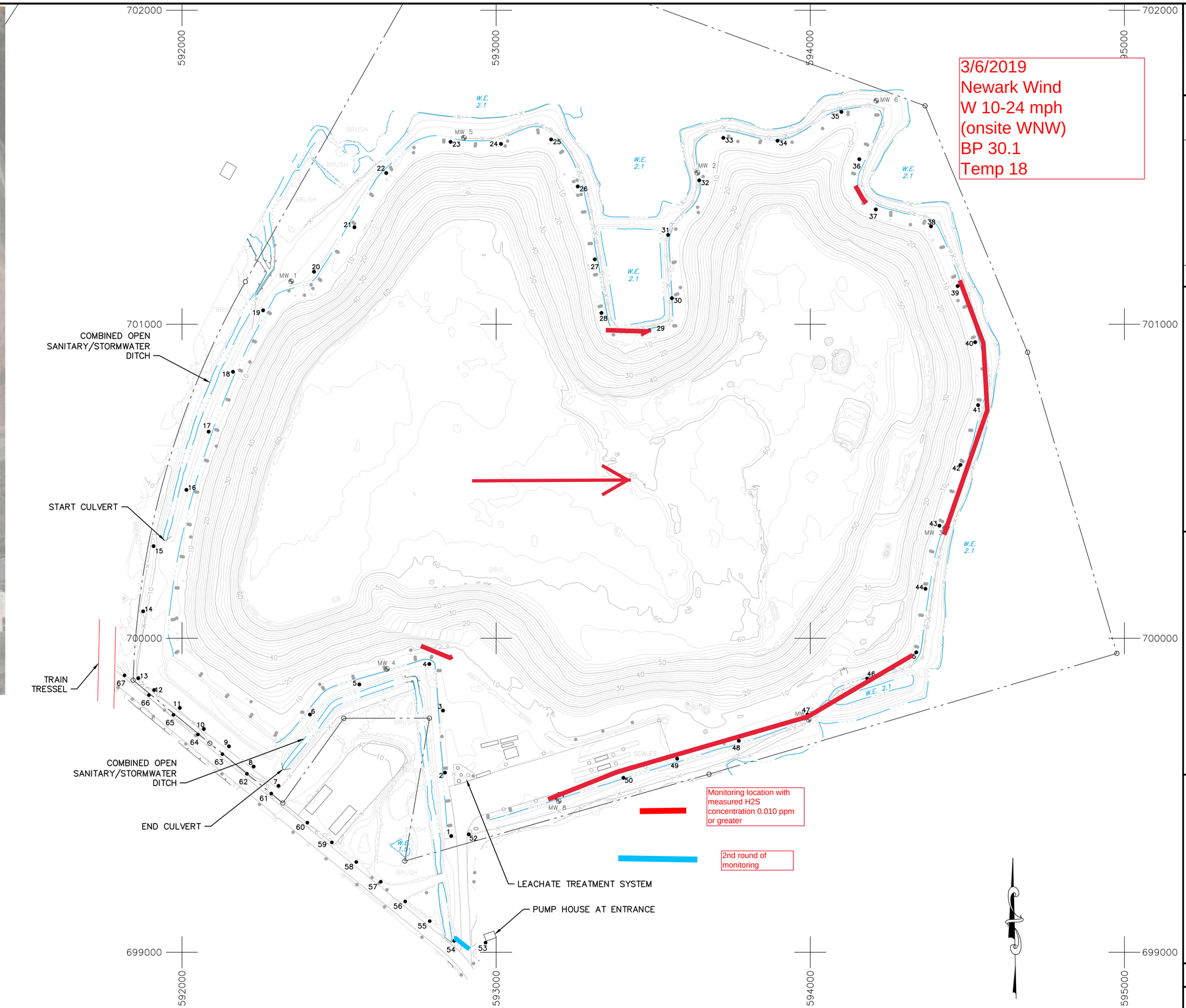

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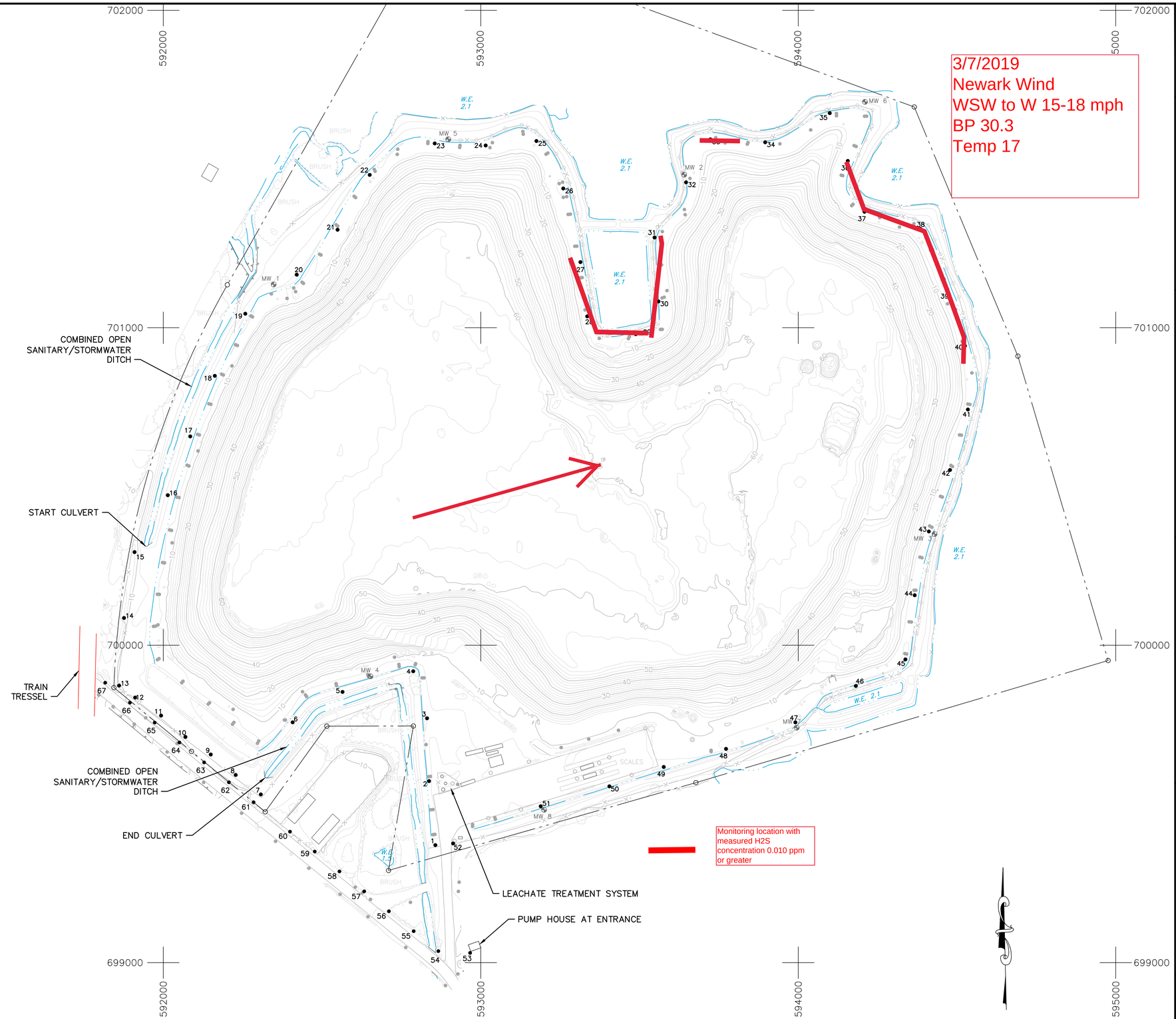

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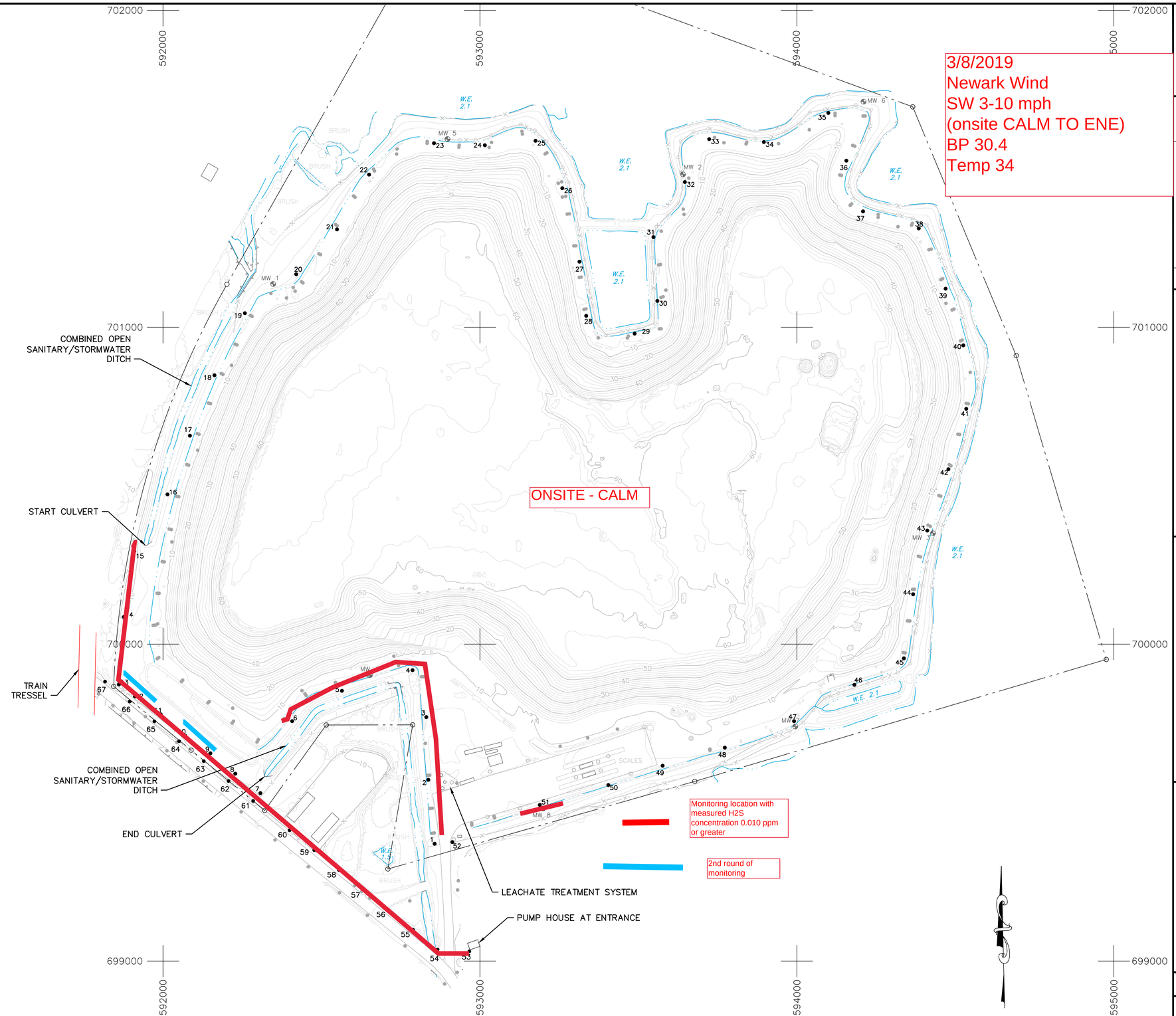

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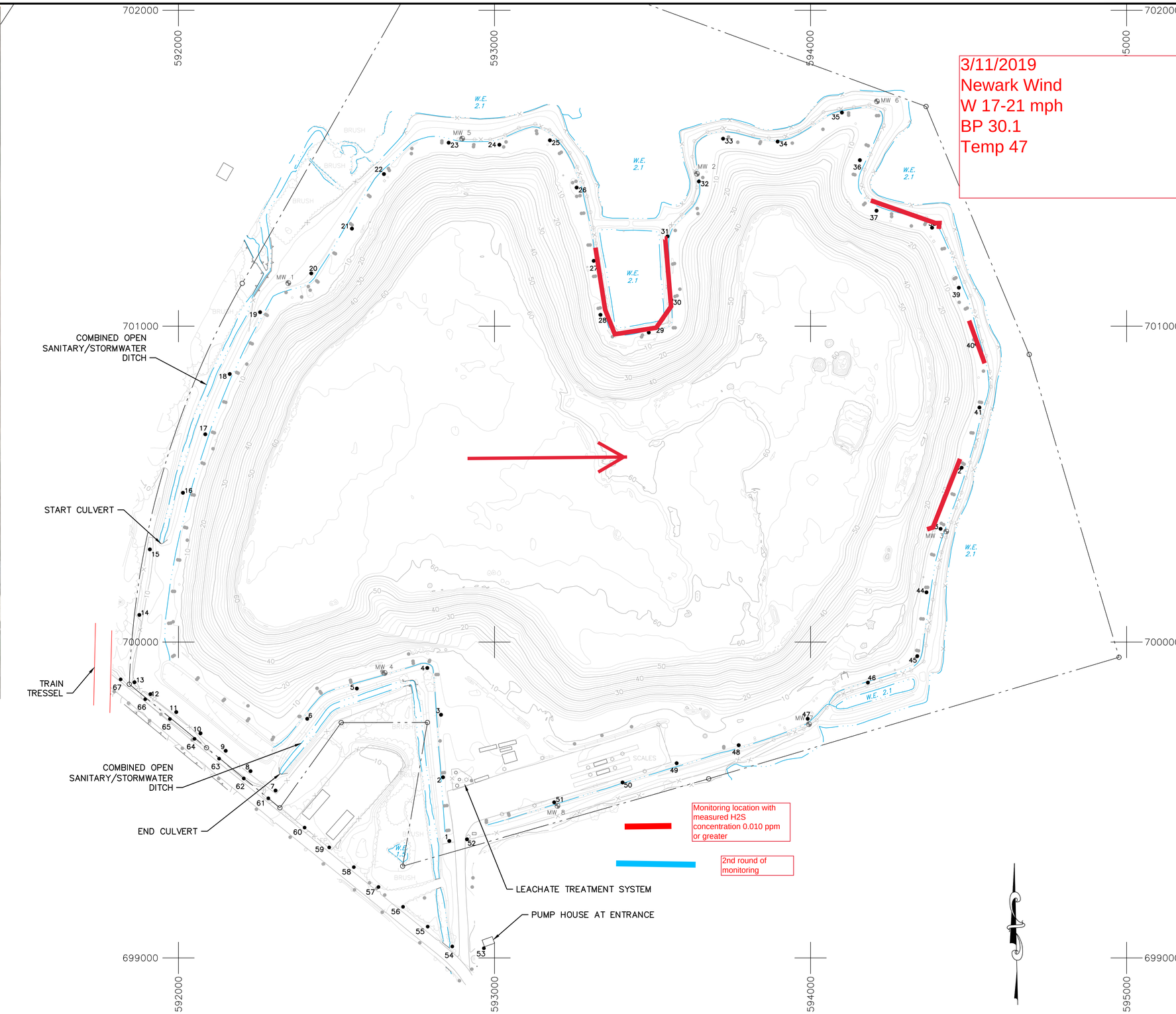

3/11/2019
Newark Wind
W 17-21 mph
BP 30.1
Temp 47

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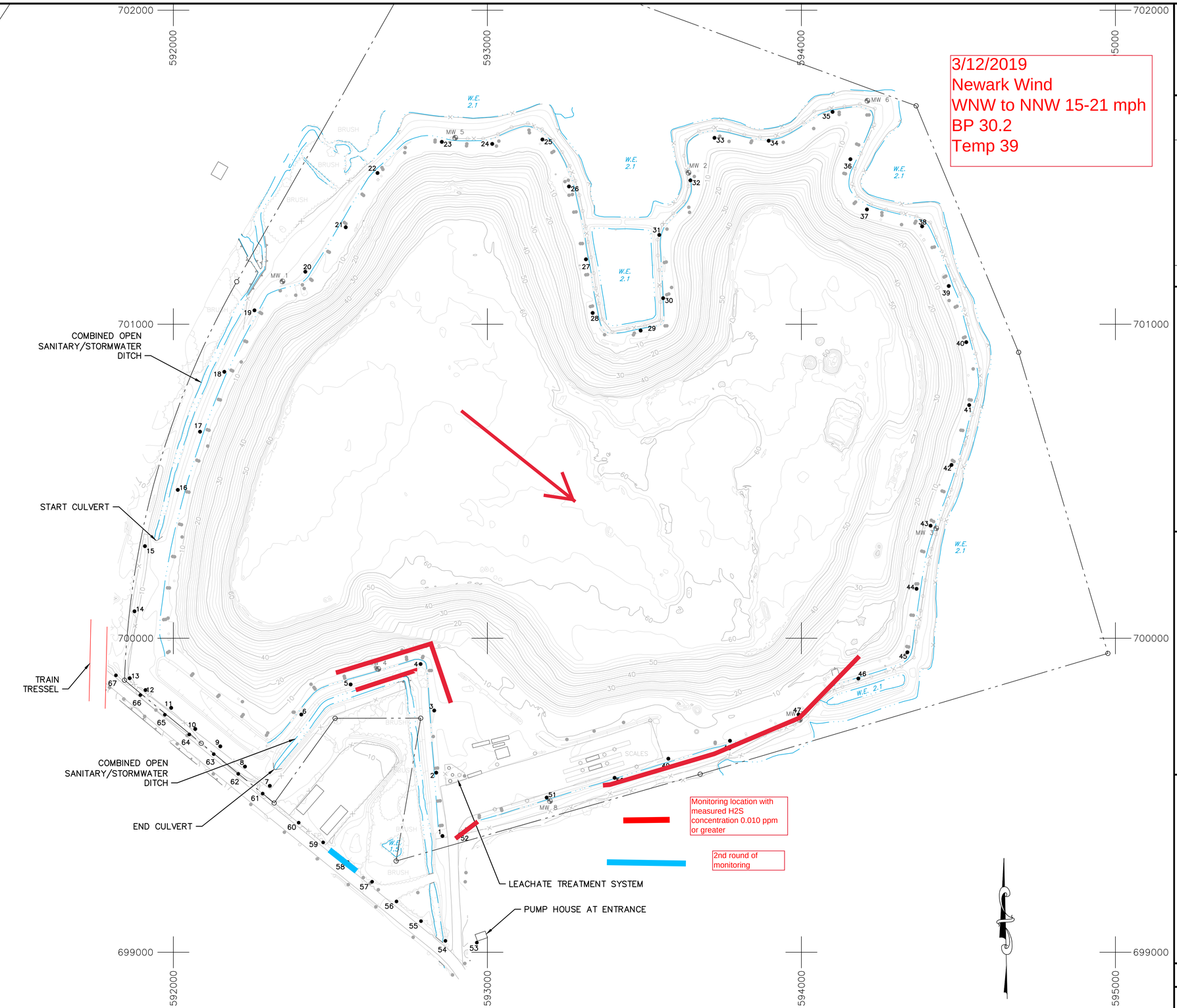

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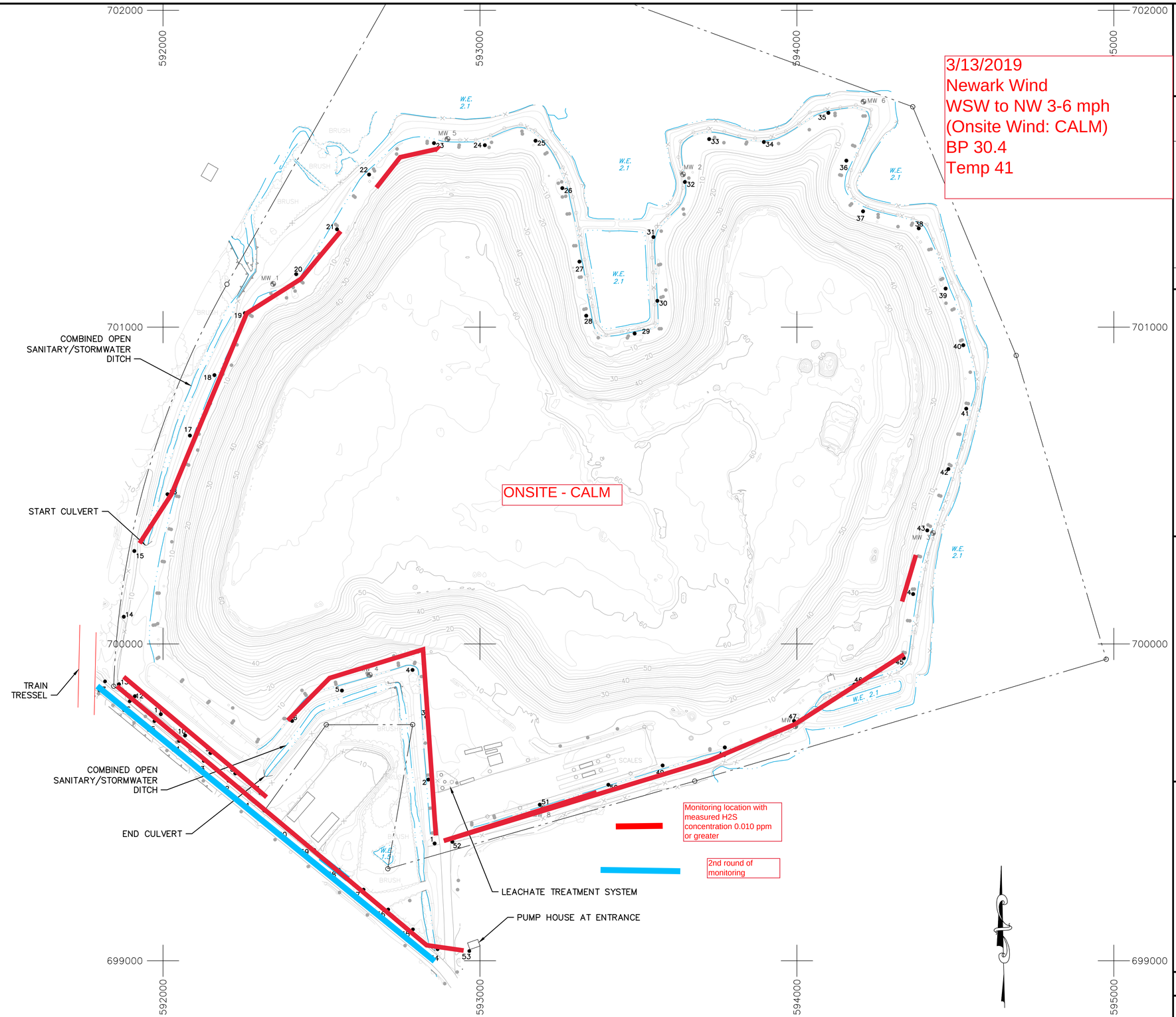

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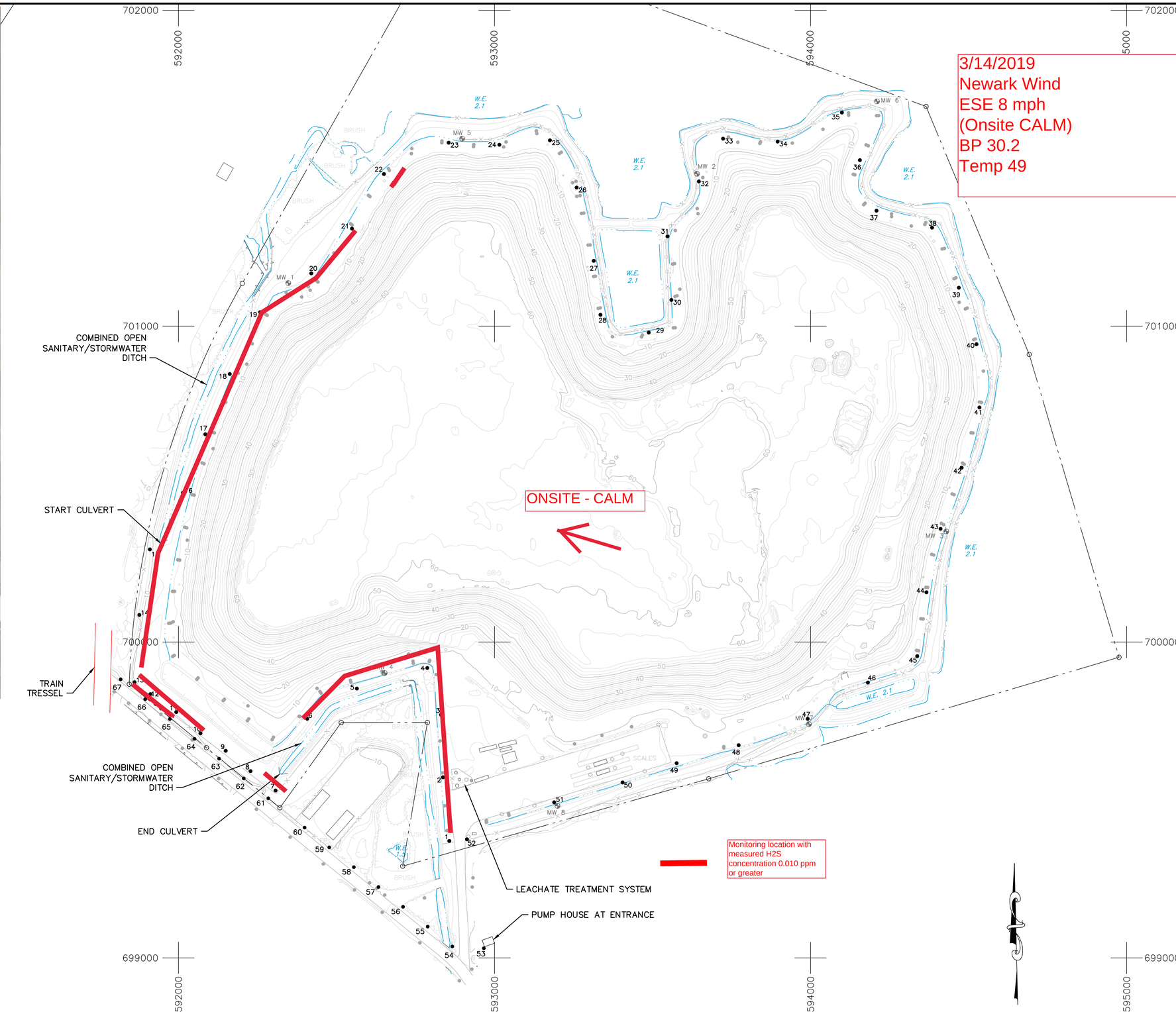


150 75 0 150 300
SCALE: 1"=150'

LEGEND:

- PROPERTY LINE
- 30 EXISTING CONTOUR
- VEGETATION LINE
- MW GROUND WATER MONITORING WELL
- 60 MONITORING LOCATION

REFERENCES:

1. FEATURES DEPICTED BASED ON DRAWING ENTITLED 'EXISTING TOPOGRAPHY, KEEGAN LANDFILL' DATE OF AERIAL FLIGHT IS 03-17-18, PREPARED BY KUCERA INTERNATIONAL INC., DATED 3-17-18. (FILENAME: KEEGAN 2018 REVISED.DWG FILE DATE 5-24-2018)
2. BOUNDARY DEPICTED WAS TAKEN FROM BEST AVAILABLE SOURCES. ALL BEARINGS AND DISTANCES SHOWN WERE DERIVED FROM OR CALCULATED FROM DATA FURNISHED KUCERA INTERNATIONAL BY NJSEA AND SHOULD NOT BE USED AS THE LEGAL BOUNDARY OF RECORD.
3. COORDINATE AND ELEVATION DATA FOR MONITORING WELLS WERE PROVIDED BY NJSEA.

NO.	REVISION	DATE
A	ISSUED FOR CLIENT REVIEW	2/28/2019

SHEET TITLE
MONITORING SITE PLAN

PROJECT TITLE
MONITORING SUPPORT KEEGAN LANDFILL

CLIENT
NEW JERSEY SPORTS & EXHIBITION AUTHORITY
1 DE KORTE PARK PLAZA, POB 640
LYNDHURST, NJ 07071

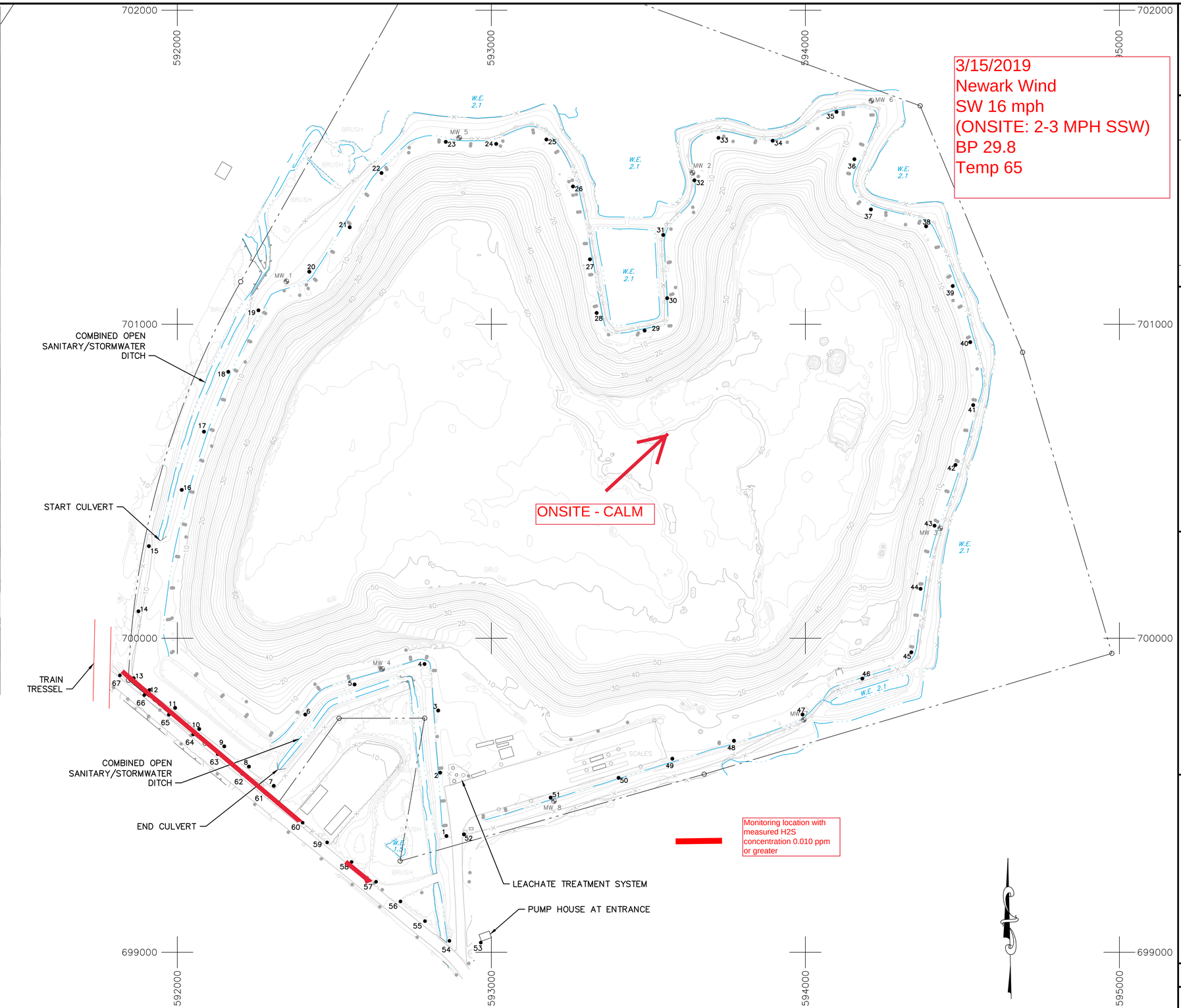
SCS ENGINEERS
STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC.
4 EXECUTIVE BLVD, SUITE 202, SUFFERN, NY 10901
PH. (845) 357-1510 FAX. (845) 357-1049

PROJ. NO. 02219702.00
DWN. BY: SHY
Q/A RVW BY: LKW
CHK. BY: LKW
APP. BY: LKW
DSN. BY: LKW

CADD FILE: MONITORING SP
DATE: 2/28/2019
SCALE: AS SHOWN
DRAWING NO. 1 of 1

L:\PROJECTS\02219702.00\DRAWINGS\MONITORING SP.DWG layout: SP plotted on: 2/28/2019 4:10 PM Yovchak, Sharon

0 300 600 900
SCALE IN FEET



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SCALE: 1"=150'

LEGEND:

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CADD FILE: MONITORING SP
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