cornerstone PLLC

3136 South Winton Road, Suite 303 Rochester, NY 14623
T 877.294.9070 | F 585.563.6582 | W www.cornerstoneeg.com

Transmittal Letter

March 1, 2022

Mr. Greg MacLean
Regional Solid & Hazardous Materials Engineer
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, NY 14414

RE: SENECA MEADOWS LANDFILL 2021 ANNUAL REPORT

Quantity	Description
1	2021 Annual Report – Seneca Meadows Landfill –
	Thumb drive with PDF of 2020 Annual Report

For Your:		Sent Via:	
X	Use		Regular Mail
	Approval		UPS
	Review/Comment		Federal Express
	Information		Courier
	Other	X	Hand Delivery 3-1-22

Comments:
Transmitted By:

Tyler R. Brown, P.E.

cc: Mike Miles – NYSDEC
Jaime Lang - NYSDEC Bureau of Solid Waste; Reduction & Recycling, Central Office
(1 Thumb drive) – shipped via FedEx
Kyle Black/SMI (3 binders/2 CDs)
File – 4213087 (1 binder to File)

March 1, 2022

Mr. Greg MacLean
Regional Materials Management Engineer
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, NY 14414

Re: SENECA MEADOWS LANDFILL 2021 ANNUAL REPORT
209-4223113

Dear Mr. MacLean:

In accordance with Seneca Meadows, Inc.'s 6 NYCRR Part 360 Solid Waste Management Permit, Condition 49, please find enclosed one copy of the 2021 Annual Report for the Seneca Meadows Landfill.

Should you have any questions or comments regarding this submission, please contact me at (585) 450-4010.

Sincerely,

CORNERSTONE ENGINEERING, AND GEOLOGY, PLLC

Tyler R. Brown, P.E.
Senior Project Manager

Enclosure: 2021 Annual Report Thumb drive with PDF of Report

cc: Mike Miles – NYSDEC
Jaime Lang - NYSDEC Bureau of Solid Waste; Reduction & Recycling, Central Office (1 Thumb drive) – shipped via FedEx
Kyle Black/SMI (3 binders/2 CDs)
File – 4213087 (1 binder to File)

Cornerstone Engineering, Geology and Land Surveying, PLLC
3136 South Winton Road, Suite 303, Rochester, NY 14623
Tel 877.294.9070 Fax 877.845.1456 tetratech.com

SENECA MEADOWS, INC.

Facility Number SOS08
Permit Number 8-4532-00023 /00001-0

SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT

JOINTLY PREPARED BY:

CORNERSTONE ENGINEERING, AND GEOLOGY, PLLC

AND

SENECA MEADOWS ENGINEERING GROUP

1786 Salcman Road • Waterloo, NY 13165

315-539-5624 • 315-539-0653 (fax)

March 2022

3136 S. Winton Rd, Suite 303
Rochester, NY 14623

SENECA MEADOWS, INC.

2021 ANNUAL REPORT

1.0 INTRODUCTION/NYSDEC'S ANNUAL REPORT FORM

The SENECA MEADOWS, INC. (SMI) Annual Report for the landfill and the tire facility for the calendar year 2021 is prepared in accordance with the NYSDEC's Annual Reporting Form Requirements, SMI's 6 NYCRR Part 360 Operating Permit (Permit #8-4532-00023/00001-0), renewed October 31, 2017, and the SENECA MEADOWS Landfill Environmental Monitoring Plan (November 2016). This report will also serve as the 2021 Annual Report for the Waste Tire Handling & Recovery Facility. Table 1-1 summarizes the tire movement through the facility for 2021.

SMI also provides annual reports under separate cover to the NYSDEC as required by the following state regulated permits/registrations:

PERMIT	EFFECTIVE DATE
Title V Air Facility Permit (Permit #8-4532-00023/00041)	June 26, 2001 Modified: October 21, 2021
SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (Permit #GP-0-17-004, SMI Facility #NYR00A672)	March 1, 2018
6 NYCRR Part 360: Tire Processing Facility (TPF) (Permit #8-4532-00023/00001-0)	October 31, 2017
Article 24: Wetland Permit (Permit #8-4532-00023/00046)	October 5, 2006 Modified: November 26, 2008
Electronic Waste Collection Site Registration (Registration #00566)	September 12, 2011

SENECA MEADOWS, INC.

2021 ANNUAL REPORT

The introductory section of this Report contains NYSDEC's completed Annual Report Form. Information and supporting data required by the Form is presented throughout this Annual Report and the attached appendices.

TABLE 1-1. TIRE MOVEMENT THROUGH FACILITY

2021 Annual Report
Seneca Meadows, Inc.
Tire Processing Facility
Tire Movement Through Facility
1/01/2021-12/31/2021

		Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
	Whole Tires	390	528	13,542	0		600	1,707
	Chipped Tires		946	3,008		547		*** 1,328
**	Shredded Tires		0			0		*** 9,575

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.

* Chipped tired not reported in the category waste report were beneficially used in construction as stated in previous quarterly reports.

** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis

*** Based on an actual field survey Dated 01/31/22

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.

NEW YORK STATE OF OPPORTUNITY | Department of Environmental Conservation

MSW, INDUSTRIAL OR ASH LANDFILL ANNUAL/QUARTERLY REPORT

Submit the Annual Report no later than March 1, 2022.

A. This annual/quarterly report is for the year of operation from January 01, 2021 to December 31, 2021

B. Quarterly Report for: ☐ Quarter 1 ☐ Quarter 2 ☐ Quarter 3 ☐ Quarter 4

SECTION 1 – FACILITY INFORMATION

FACILITY INFORMATION

FACILITY NAME: Seneca Meadows Landfill			
FACILITY LOCATION ADDRESS: 1786 Salcman Road	**FACILITY CITY:** Waterloo	**STATE:** NY	**ZIP CODE:** 13165
FACILITY TOWN: Seneca Falls	**FACILITY COUNTY:** Seneca	**FACILITY PHONE NUMBER:** 315-539-5624	
FACILITY NYS PLANNING UNIT: (A list of NYS Planning Units can be found at the end of this report). Western Finger Lakes SWMA (WFLSWMA)		**NYSDEC REGION #:** 8	

360 PERMIT #: 8-4532-00023/00001-0	**DATE ISSUED:** 04/13/99 renewed 10/31/17	**DATE EXPIRES:** 12/31/2025	**NYS DEC ACTIVITY CODE OR REGISTRATION NUMBER:** 50S08

FACILITY CONTACT: Kyle Black	☐ public ☒ private	**CONTACT PHONE NUMBER:** 315-539-5624	**CONTACT FAX NUMBER:** 315-539-0653
CONTACT EMAIL ADDRESS: kyle.black@wasteconnections.com			

OWNER INFORMATION

OWNER NAME: Seneca Meadows, Inc.	**OWNER PHONE NUMBER:** 315-539-5624	**OWNER FAX NUMBER:** 315-539-0653	
OWNER ADDRESS: 1786 Salcman Road	**OWNER CITY:** Waterloo	**STATE:** NY	**ZIP CODE:** 13165
OWNER CONTACT: Kyle Black	**OWNER CONTACT EMAIL ADDRESS:** kyle.black@wasteconnections.com		

OPERATOR INFORMATION

OPERATOR NAME: ■ *same as owner*	☐ public ☒ private

PREFERENCES

Preferred address to receive correspondence:	☒ *Facility location address*	☐ *Owner address*
☐ *Other (provide):*		
Preferred email address:	☒ *Facility Contact*	☐ *Owner Contact*
☐ *Other (provide):*		
Preferred individual to receive correspondence:	☒ *Facility Contact*	☐ *Owner Contact*
☐ *Other (provide):*		

Did you operate in 2021? ☒ Yes; Complete this form.

☐ No; Complete and submit Sections 1 and 23. If you no longer plan to operate and wish to relinquish your permit/registration associated with this solid waste management activity, also complete the "Inactive Solid Waste Management Facility or Activity Notification Form" located at: http://www.dec.ny.gov/chemical/52706.html .

SECTION 2 - SITE LIFE

1. Landfill Capacity Utilized Last Year (reporting year).

   a. What is the estimated landfill capacity that was utilized during the reporting year?

   2,523,165 Cubic Yards of Airspace

   Please do not report units as pounds per cubic yard.

   b. What is the estimated in-situ waste density for the reporting year?

   0.86 Tons/Cubic Yard

2. Remaining Constructed Capacity

   a. What is the remaining capacity of the landfill that is already constructed?

   2,713,315 Cubic Yards of Airspace

   b. What is the estimated remaining life of the constructed capacity?

   1 Years 1 Months

   at 2,180,000 Tons/Year.*

   * Please note that this tonnage rate must include all materials placed in the landfill, i.e., waste, soil, cover, alternative daily covers, etc.

   c. The tonnage rate reported under 2.b. is based on (select one):

   _____ The amount of materials placed in the landfill in the reporting year

   X Estimated future disposal

   _____ Permit limit

   Other (explain): _____

3. Permitted Capacity Still to be Constructed

   a. What is the remaining but not yet constructed landfill capacity that is authorized by a Part 360 permit?

   4,787,558 Cubic Yards of Airspace

   b. What is the projected life of capacity reported in 3.a?

   1 Years 11 Months

   at 2,180,000 Tons/Year.*

   * Please note that this tonnage rate must include all materials disposed in the landfill, i.e., waste, and soil and alternative daily covers.

   c. The tonnage rate reported under 3.b. is based on (select one):

   _____ The amount of materials placed in the landfill in the reporting year

   X Estimated future disposal

   _____ Permit limit

   Other (explain):

   _____

4. Capacity Proposed in a Part 360 Permit Application

What is the capacity of any expansion proposed in a Part 360 permit application that has been submitted to the Department but not authorized by a permit as of the end of the reporting period?

Not Applicable _____ Cubic Yards of Airspace

5. Estimated Potential Future Capacity Not Permitted or in an Application (optional)

What is the estimated capacity of any potential future expansion at the facility that is not yet authorized by a permit or proposed in a Part 360 permit application that has been submitted to the Department?

Not Applicable _____ Cubic Yards of Airspace

SECTION 3 - PRIMARY LEACHATE

Name of off-site leachate treatment facility(s) utilized: _____

Does the landfill have a constructed liner and a leachate collection system? ☐ Yes ☐ No

Enter the quantity of primary leachate that was collected, removed for on-site and off-site treatment, and recirculated each month, and the corresponding **Acreage, by Cell**:
(Note: For double-lined landfills this should not include the volume of leachate collected from secondary leachate collection and removal systems.)

Refer to Tables 3-1, 3-2, and Appendix B of Leachate and Gas Condensate Report in Section 3.0

For **each cell**, please report the **acreage** and the **primary leachate** amount.

	PRIMARY LEACHATE COLLECTED (GALLONS)						PRIMARY LEACHATE TREATED OFF SITE (GALLONS)					
	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres
January	Refer to Tables 3-1, 3-2, and Appendix B of Leachate and Gas Condensate Report in Section 3.0							Refer to Table 3-2 of this report.				
February												
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
ANNUAL												

	PRIMARY LEACHATE RECIRCULATED (GALLONS)						PRIMARY LEACHATE TREATED ON SITE (GALLONS)					
	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres
January	Refer to Table 3-1 of this report.									Not Applicable		
February												
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
ANNUAL												

Submit (attached to this form) a copy of the maintenance logs which document compliance with the Operation and Maintenance Manual's schedule for the routine annual flushing and inspection of the primary leachate collection and removal system. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

Refer to the SMI Daily Cleaning Included in Section 3.0 (Leachate Wastewater Management)

Submit (attached to this form) a tabulated compilation of the semi-annual primary leachate quality data collected throughout the year including a summary comparing this year's data with the previous year's data and a summary discussion of results. This list should identify sample location(s) and method of analysis. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

Refer to the Leachate and Gas Condensate Report in Section 3.0 (Leachate Wastewater Management)

SECTION 4 - SECONDARY LEACHATE

Does landfill have a double liner system with a secondary leachate collection and removal system? ☐ Yes ☐ No

Submit (attached to this form) a tabulated compilation of the semi-annual secondary leachate quality data collected throughout the year including a summary comparing this year's data with all previous years' data and a summary discussion of results. This list should identify sample location(s) and methods of analysis. List required submissions that have been attached to this form or the reason for not attaching a required piece of information:

Refer to Leachate and Gas Condensate Report in Section 3.0 (Leachate Wastewater Management).

Please report total cost for the year, not cost/gal.

Leachate Cost: (including transportation if appropriate) during the calendar year for leachate treatment: $ 15,046,124

Total quantity treated: 76,654,505 gal

Enter the quantity of secondary leachate that was collected, removed for on-site and off-site treatment, and recirculated each month, and the corresponding **Acreage, by Cell**:

For **each cell**, please report the **acreage** and the **secondary leachate** amount.

Refer to Appendix B of Leachate and Gas Condensate Report in Section 3.0

	SECONDARY LEACHATE COLLECTED (GALLONS)						SECONDARY LEACHATE TREATED OFF SITE (GALLONS)					
	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres
January	Refer to Appendix B for Leachate and Gas Condensate Report in Section 3.0						Refer to Table 3-2 of this report.					
February												
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
ANNUAL												

	SECONDARY LEACHATE RECIRCULATED (GALLONS)						SECONDARY LEACHATE TREATED ON SITE (GALLONS)					
	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres	Cell 1 ___Acres	Cell 2 ___Acres	Cell 3 ___Acres	Cell 4 ___Acres	Cell 5 ___Acres	Cell 6 ___Acres
January	Refer to Table 3-1 of this report.									Not Applicable		
February												
March												
April												
May												
June												
July												
August												
September												
October												
November												
December												
ANNUAL												

SECTION 5 – BENEFICIAL USE DETERMINATION MATERIALS AND ALTERNATIVE OPERATING COVER MATERIALS

For each type of waste material that the Department has approved for use as alternative operating cover (AOC), intermediate cover, or other landfill material, provide the annual weight in tons, use (i.e., operating cover, intermediate cover, etc.), and source of material. (If material is from a solid waste facility also provide facility name, address, NYS Planning Unit, County/ Province, and State/Country.) **Refer to the list of NYS Planning Units that can be found at the end of this report.**

Type of Solid Waste	Weight (tons/year)	Use	NYS Planning Unit (See Attached List of NYS Planning Units)	County or Province	State or Country	Source (Facility and Address)
Aggregate/Concrete						
Contaminated Soil						
Foundry Sand						
Glass						
Industrial Waste (specify)						
MSW Ash						
Wood Ash						
Paper Mill Sludge						
Processed C&D						
Waste Tire-Derived Aggregate /						
Waste Tires						
Other (specify)						
Total AOC						
Total Beneficial Use Determination Materials						

Refer to Table 1, made part of this form on next page.

The Seneca Meadows permitted hours of operation are 6 am to 6 pm Monday through Sunday

Maximum Allowable Tons: 6000 daily/yearly average

Percent Alternative Operating Cover (AOC) Calculation

AOC Calculations: Total Tons AOC/Total Tons Waste Disposed x 100 = 264,187.0 / 2,169,921.9 = 12.2%

Please note the calculation **is**: Tons AOC (from table above)/Tons Solid Waste (from table in Section 6) x 100 and **Not**: Tons AOC / (Tons Solid Waste + AOC) x 100

SECTION 6 - SOLID WASTE DISPOSED

Provide the tonnages of solid waste disposed. Exclude Beneficial Use Material amounts reported in Section 5 and Recyclable Material amounts reported in Section 8. Specify the methods used to measure the quantities disposed and the percentages measured by each method:

_____% Scale Weight _____% Estimated

_____% Truck Count _____% Other (Specify: _____)

Type of Solid Waste	January (tons)	February (tons)	March (tons)	April (tons)	May (tons)	June (tons)	July (tons)
Asbestos	Refer to Table 4-1 of this report for the monthly waste volumes by category, made part of this form on next page.						
Ash (Coal)							
Ash (MSW Energy Recovery)							
Construction & Demolition Debris (mixed)							
Industrial Waste (Including Industrial Process Sludges)							
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)							
Oil/Gas Drilling Waste							
Petroleum Contaminated Soil							
Sewage Treatment Plant Sludge							
Treated Regulated Medical Waste							
Emergency Authorization Waste (Storm Debris)							
Other (specify)							
Total Tons Disposed							

Seneca Meadows, Inc.
2021 Annual Report
Table 1
Total Tonnage of Material Received Per Quarter

Waste Type	Quarter 1 (tons)	Quarter 2 (tons)	Quarter 3 (tons)	Quarter 4 (tons)	Grand Total	Daily Average (tons)*
Asbestos	1,514.3	1,834.8	7,597.7	8,162.0	19,108.7	53.2
Industrial Ash	5,134.3	10,303.8	11,986.7	8,857.5	36,282.3	101.1
Construction Debris	47,169.6	67,847.4	65,872.6	66,813.6	247,703.1	690.0
Contaminated Soil	6,673.9	8,753.3	56,477.1	19,028.2	90,932.5	253.3
Medical Waste	-	-	-	-	-	-
Sludge	14,353.7	8,117.2	11,353.7	10,519.8	44,344.3	123.5
Other Industrial Waste	3,449.1	3,601.2	3,640.6	3,758.8	14,449.7	40.2
Solid Waste (MSW)	253,389.0	378,189.4	417,529.8	397,543.9	1,446,652.1	4,029.7
Grits & Screenings	4,778.5	550.6	473.2	459.7	6,262.1	17.4
Hardfill	-	-	-	-	-	-
Processed Construction Debris	-	-	-	-	-	-
Tires-NonProcessable& Shreds	-	-	-	-	-	-
TOTAL	336,462.3	479,197.8	574,931.3	515,143.5	**1,905,734.9**	**5,308.5**

BUDs	Quarter 1 (tons)	Quarter 2 (tons)	Quarter 3 (tons)	Quarter 4 (tons)	Grand Total	Daily Average (tons)*
Coal Ash	-	-	-	-	-	-
Auto Fluff	118.3	357.4	1,342.6	740.6	2,558.9	7.1
C&D (BUD)	47,601.1	47,377.2	56,877.4	62,030.2	213,885.9	595.8
Contaminated Soil	2,860.6	16,687.5	13,694.1	1,599.0	34,841.2	97.1
Foundry Sand (BUD)	-	-	-	-	-	-
Hard Fill	-	-	-	-	-	-
Paper Sludge	-	-	-	-	-	-
Other Industrial Waste (BUD)	62.5	75.5	80.2	50.0	268.1	0.1
Ash	179.3	-	-	-	179.3	-
B/R Tire Cover	4,978.3	3,431.8	1,229.8	2,239.6	11,879.6	6.2
Yard Debris	32.2	191.3	215.4	135.0	573.8	0.4
Z9500 (Tire Chips for Cover)	-	-	-	-	-	-
TOTAL	55,832.4	68,120.7	73,439.5	66,794.4	**264,187.0**	**735.9**

*Based on 359 working days during 2021

SECTION 6 - SOLID WASTE DISPOSED (continued)

Type of Solid Waste	Tip Fee ($/Ton)	August (tons)	September (tons)	October (tons)	November (tons)	December (tons)	Total Year (tons)	Daily Avg. (tons)
Asbestos								
Ash (Coal)								
Ash (MSW Energy Recovery)								
Construction & Demolition Debris (mixed)								
Industrial Waste (Including Industrial Process Sludges)								
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)								
Oil/Gas Drilling Waste								
Petroleum Contaminated Soil								
Sewage Treatment Plant Sludge								
Treated Regulated Medical Waste								
Emergency Authorization Waste (Storm Debris)								
Other (specify)								
Total Tons Disposed								

Refer to Table 4-1 of this report for the monthly waste volumes by category.

SECTION 7 – SERVICE AREA OF SOLID WASTE RECEIVED

Please identify where the waste is coming from. The total tons received reported below should equal the total tons received in Section 6 (Solid Waste Disposed). DO NOT REPORT IN CUBIC YARDS!

- If the waste ***WAS*** received from another solid waste management facility, please write in the name *and* address of the facility along with the appropriate state, county and planning unit/municipality.
- If the waste ***WAS NOT*** received from another solid waste management facility, please write in "***Direct Haul***" along with the appropriate state, county and planning unit/municipality where the waste was generated.

Specify transport method and percentages of total waste transported by each:

100 % Road _____% Rail _____% Water _____% Other (specify:_____)

Explain which waste types and service areas below are included in these transport methods _____

SERVICE AREA OF SOLID WASTE RECEIVED					
TYPE OF SOLID WASTE	**SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"**	**SERVICE AREA STATE OR COUNTRY**	**SERVICE AREA COUNTY OR PROVINCE**	**SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)**	**TONS RECEIVED**
Asbestos	Refer to Table 2, made part of this form following this section.				
Ash (Coal)	**The Seneca Meadows permitted hours of operation are 6 am to 6 pm Monday through Sunday**				
	Maximum Allowable Tons: 6000 daily/yearly average				
Ash (MSW Energy Recovery)					
Construction & Demolition Debris (mixed)					

SERVICE AREA OF SOLID WASTE RECEIVED					
TYPE OF SOLID WASTE	**SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"**	**SERVICE AREA STATE OR COUNTRY**	**SERVICE AREA COUNTY OR PROVINCE**	**SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)**	**TONS RECEIVED**
Industrial Waste (Including Industrial Process Sludges)	Refer to Table 2, made part of this form on next page.				
Mixed Municipal Solid Waste (Residential, Institutional & Commercial)	**The Seneca Meadows permitted hours of operation are 6 am to 6 pm Monday through Sunday** Maximum Allowable Tons: 6000 daily/ yearly average				
Oil/Gas Drilling Waste					
Petroleum Contaminated Soil					
Sewage Treatment Plant Sludge					
Treated Regulated Medical Waste (TRMW)*					
Emergency Authorization Waste (Storm Debris)					
Other (specify)					
				TOTAL RECEIVED (tons): _____	

* List generators that provide you Certificates of Treatment forms and quantities of TRMW from each _____

Table 2
Waste Origination / Percentage of Total Waste Received

IN STATE (By County)	Asbestos	Ash	Construction Debris	Contaminated Soil	Sludge	Other Industrial Waste	Solid Waste (MSW)	Grits & Screenings	Tires-NonProcessable & Shreds	Auto Fluff	C&D (BUD)	Contaminated Soil (BUD)	Foundry Sand	Other Industrial Waste (BUD)	Industrial Ash	B/R Tire Cover	Yard Waste	Total by Location	Percentage
	Tons																	*Tons*	*%*
ALBANY	1,933	0	567	0	0	46	36,030	0	0	0	16,030	0	0	0	0	0	0	54,605	2.52%
ALLEGANY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
BRONX	0	0	92,498	0	0	0	156,123	0	0	0	33,654	0	0	0	0	0	0	282,275	13.01%
BROOKLYN	0	0	16,641	0	8,520	0	74	0	0	0	41	0	0	0	0	0	0	25,276	1.16%
BROOME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
CATTARAUGUS	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29	0.00%
CAYUGA	51	8,139	2,637	516	444	73	21,875	0	0	0	0	87	0	0	0	0	7	33,829	1.56%
CHAUTAUQUA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
CHEMUNG	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
CHENANGO	17	0	0	0	0	0	375	0	0	0	0	0	0	0	0	0	0	392	0.02%
CLINTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
COLUMBIA	0	0	0	0	0	0	441	0	0	0	8,790	0	0	0	0	0	0	9,230	0.43%
CORTLAND	1	0	848	16,376	0	293	0	0	0	0	0	0	0	0	0	0	0	17,518	0.81%
DELAWARE	511	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	511	0.02%
DUTCHESS	0	0	63	0	0	0	30,746	0	0	0	16,185	0	0	0	0	0	0	46,994	2.17%
ERIE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	0	34	0.00%
ESSEX	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
FRANKLIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
FULTON	0	0	0	285	0	0	0	0	0	0	0	0	0	0	0	0	0	285	0.01%
GENESEE	0	0	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	152	0.01%
GREENE	0	0	58	0	0	0	75,669	0	0	0	1,831	0	0	0	0	9,450	0	87,007	4.01%
HAMILTON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
HERKIMER	0	0	0	0	0	0	0	0	0	0	0	408	0	0	0	0	0	408	0.02%
JEFFERSON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	179	0	0	179	0.01%
KINGS	0	0	0	0	0	0	109,752	0	0	0	0	0	0	0	0	0	0	109,752	5.06%
LEWIS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
LIVINGSTON	0	0	18	0	325	0	0	0	0	0	0	0	0	0	0	0	0	342	0.02%
MADISON	69	0	61	0	0	0	0	0	0	0	0	0	0	0	0	306	0	436	0.02%
MANHATTAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
MONROE	0	0	166	17,419	0	32	4	0	0	0	0	28,030	0	0	0	0	0	45,652	2.10%
MONTGOMERY	0	0	8	0	4,449	1	50,466	1	0	0	0	0	0	0	0	0	0	54,925	2.53%
NASSAU	0	0	0	0	0	0	13,580	0	0	0	0	0	0	0	0	0	0	13,580	0.63%
NIAGARA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
ONEIDA	30	0	1,165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,195	0.06%
ONEONTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
ONONDAGA	3,106	28,143	7,830	38,879	14,538	1,398	282	3,713	0	0	50	6,274	0	0	0	0	1	104,214	4.80%
ONTARIO	37	0	261	0	0	0	488	0	0	0	0	0	0	0	0	0	1	786	0.04%
ORANGE	481	0	415	0	0	16	0	0	0	0	0	0	0	0	0	0	0	912	0.04%
ORLEANS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
OSWEGO	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
OTSEGO	73	0	2	0	222	0	0	0	0	0	0	0	0	0	0	0	0	296	0.01%
PUTNAM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
QUEENS	0	0	0	0	0	0	203,391	2,429	0	0	53,610	0	0	0	0	0	0	259,430	11.96%
RENSSELAER	243	0	562	0	0	0	0	0	0	1,277	0	0	0	0	0	0	0	2,082	0.10%
RICHMOND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
ROCKLAND	0	0	0	0	0	119	122,257	0	0	0	6,241	0	0	0	0	0	0	128,616	5.93%
SARATOGA	797	0	185	29	0	46	31,685	0	0	0	0	0	0	0	0	0	0	32,742	1.51%
SCHENECTADY	110	0	1,660	14	475	0	81,115	0	0	0	0	0	0	0	0	0	0	83,374	3.84%
SCHOHARIE	26	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	26	0.00%
SCHUYLER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
SENECA	738	0	9,674	384	2,305	2,991	8,572	0	0	0	672	41	0	0	0	0	565	25,941	1.20%

Table 2
Waste Origination / Percentage of Total Waste Received

IN STATE (By County)	Asbestos	Ash	Construction Debris	Contaminated Soil	Sludge	Other Industrial Waste	Solid Waste (MSW)	Grits & Screenings	Tires-NonProcessable & Shreds	Auto Fluff	C&D (BUD)	Contaminated Soil (BUD)	Foundry Sand	Other Industrial Waste (BUD)	Industrial Ash	B/R Tire Cover	Yard Waste	Total by Location	Percentage
	Tons																	*Tons*	*%*
SKANEATELES	0	0	0	0	0	0	3,067	27	0	0	0	0	0	0	0	0	0	3,094	0.14%
STATEN ISLAND	0	0	0	0	0	0	3,082	0	0	0	0	0	0	0	0	0	0	3,082	0.14%
ST. LAWRENCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
STEUBEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
SUFFOLK	10,020	0	2,487	0	0	0	49,219	0	0	0	28,161	0	0	0	0	0	0	89,886	4.14%
SULLIVAN	355	0	0	0	470	27	85,830	0	0	0	0	0	0	0	0	0	0	86,681	3.99%
TIOGA	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.00%
TOMPKINS	126	0	342	16	2,830	14	2	0	0	0	0	0	0	0	0	0	0	3,329	0.15%
ULSTER	6	0	1,133	563	0	0	142,589	0	0	0	3,360	0	0	0	0	0	0	147,652	6.80%
WARREN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
WASHINGTON	22	0	0	0	0	2,126	24,140	0	0	0	15,287	0	0	0	0	0	0	41,576	1.92%
WAYNE	24	0	1,255	331	92	0	3,401	27	0	0	0	0	0	268	0	0	0	5,398	0.25%
WESTCHESTER	0	0	86,915	0	431	45	15,191	0	0	0	3,383	0	0	0	0	0	0	105,965	4.88%
WYOMING	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
YATES	0	0	14	314	0	0	102	0	0	0	36	0	0	0	0	0	0	466	0.02%
Totals:	18,803	36,282	227,617	75,126	35,100	7,226	1,269,548	6,197	0	1,277	187,331	34,841	0	268	179	9,790	574	1,910,158	88.03%
OUT OF STATE	Asbestos	Ash	Construction Debris	Contaminated Soil	Sludge	Other Industrial Waste	Solid Waste (MSW)	Grits & Screenings	Tires-NonProcessable & Shreds	Auto Fluff	C&D (BUD)	Contaminated Soil (BUD)	Foundry Sand	Other Industrial Waste (BUD)	Industrial Ash	B/R Tire Cover	Yard Waste	Total by Location	Percentage
									Tons										*%*
CANADA	74	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	74	0.00%
CONNECTICUT	0	0	10,585	3,091	0	291	12,827	0	0	0	3,292	0	0	0	0	0	0	30,085	1.39%
MASSACHUSETTS	232	0	1,928	12,716	7,418	395	127,035	65	0	1,282	19,924	0	0	0	0	0	0	170,994	7.88%
NEW HAMPSHIRE	0	0	644	0	0	6,197	69	0	0	0	3,339	0	0	0	0	0	0	10,248	0.47%
NEW JERSEY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00%
PENNSYLVANIA	0	0	0	0	1,826	0	0	0	0	0	0	0	0	0	0	2,090	0	3,916	0.18%
RHODE ISLAND	0	0	0	0	0	341	37,174	0	0	0	0	0	0	0	0	0	0	37,516	1.73%
VERMONT	0	0	6,930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6,930	0.32%
Totals:	306	0	20,087	15,806	9,244	7,224	177,104	65	0	1,282	26,555	0	0	0	0	2,090	0	259,763	11.97%
Grand Totals	19,109	36,282	247,703	90,932	44,344	14,450	1,446,652	6,262	0	2,559	213,886	34,841	0	268	179	11,880	574	2,169,922	100.00%

Note: There is a discrepancy of 1.6 tons in total waste accepted between this table and Tables 1 & 3. The total tonnage being reported is 2,068,960.5 as shown of Tables 1 & 3. This difference can be atrributed to a rounding error.

SECTION 8 –LANDFILL RECYCLABLE & RECOVERED MATERIALS

Is your facility <u>also</u> a permitted or registered Recyclables Handling & Recovery Facility?

☐ Yes; Complete Section 9 for material recovered from the mixed solid waste stream. Complete a Recyclables Handling & Recovery Facility (RHRF) form for material received as source separated. The RHRF form is located at: http://www.dec.ny.gov/chemical/52706.html .

☐ No; Complete Section 9 for material recovered from the mixed solid waste stream and for material received as source separated.

A. Service Area of Recyclable Material Received

<u>Please identify where the recyclable materials are coming from.</u> DO NOT REPORT IN CUBIC YARDS!

- If the materials ***WERE*** received from another solid waste management facility, please write in the name and <u>address</u> of the facility along with the appropriate state, county and planning unit/municipality.
- If the materials ***WERE NOT*** received from another solid waste management facility, please write in "***Direct Haul***" along with the appropriate state, county and planning unit/municipality where the recyclables were generated.

Specify transport method, list type of material(s) and percentages of total waste transported by each:

_____% Road: Waste Type(s):_____ _____% Rail: Waste Type(s):_____

_____% Water: Waste Type(s):_____ _____% Other (specify: _____): Waste Type(s):_____

SERVICE AREA OF RECYCLABLE MATERIAL RECEIVED					
MATERIAL	SOLID WASTE MANAGEMENT FACILITY FROM WHICH IT WAS RECEIVED (Name & Address) OR "Direct Haul"	SERVICE AREA STATE OR COUNTRY	SERVICE AREA COUNTY OR PROVINCE	SERVICE AREA NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECEIVED
Commingled Containers (metal, glass, plastic)	~~Not Applicable~~				
Commingled Paper (all grades)					
Single Stream (total)					
Brush, Branches, Trees, & Stumps					
Food Scraps					
Yard Waste (curbside)					
Other (specify)					
				TOTAL RECEIVED (tons):	

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS

B. Material Recovered

Identify the name of the destination facility to which the material was sent from your facility, the corresponding State/Country, the County/Province, the NYS Planning Unit, and the amount of material transported. **Refer to the list of NYS Planning Units that can be found at the end of this report.** DO NOT REPORT IN CUBIC YARDS!

Specify transport method and percentages of total material transported by each:

100 % Road _____% Rail _____% Water _____% Other (specify: _____)

Explain which materials and destinations below are included in these transport methods _____

PAPER RECOVERED					
RECOVERED MATERIAL	**DESTINATION** (Name & Address)	**DESTINATION STATE OR COUNTRY**	**DESTINATION COUNTY OR PROVINCE**	**DESTINATION NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECOVERED** (out of facility)
Commingled Paper (all grades)	Not Applicable				
Corrugated Cardboard					
Junk Mail					
Magazines					
Newspaper					
Office Paper					
Paperboard / Boxboard					
Other Paper (specify)					
				TOTAL PAPER RECOVERED (tons):	_____

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

GLASS RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Container Glass	Not Applicable				
Industrial Scrap Glass					
Other Glass (specify)					
TOTAL GLASS RECOVERED (tons):					

METAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Aluminum Foil / Trays	Not Applicable				
Bulk Metal (from MSW)					
Bulk Metal (from CD debris)					
Enameled Appliances / White Goods					
Industrial Scrap Metal					
Tin & Aluminum Containers					
Other Metal (specify)					
TOTAL METAL RECOVERED (tons):					

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

PLASTIC RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Mixed Plastic (#1 - #7)	Not Applicable				
PET (plastic #1)					
HDPE (plastic #2)					
Other Rigid Plastics (#3 - #7)					
Industrial Scrap Plastic					
Plastic Film & Bags					
Other Plastics (specify)					
				TOTAL PLASTIC RECOVERED (tons):	

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

MIXED MATERIAL RECOVERED					
RECOVERED MATERIAL	**DESTINATION** (Name & Address)	**DESTINATION STATE OR COUNTRY**	**DESTINATION COUNTY OR PROVINCE**	**DESTINATION NYS PLANNING UNIT** (See Attached List of NYS Planning Units)	**TONS RECOVERED** (out of facility)
Commingled Containers (metal, glass, plastic)	Not Applicable				
Commingled Paper & Containers					
Single Stream (total)					
Other (specify)					
				TOTAL MIXED MATERIAL RECOVERED (tons):	

SECTION 8 – LANDFILL RECYCLABLE & RECOVERED MATERIALS (continued)

B. Material Recovered

MISCELLANEOUS MATERIAL RECOVERED					
RECOVERED MATERIAL	DESTINATION (Name & Address)	DESTINATION STATE OR COUNTRY	DESTINATION COUNTY OR PROVINCE	DESTINATION NYS PLANNING UNIT (See Attached List of NYS Planning Units)	TONS RECOVERED (out of facility)
Electronics	See Section 13 of the Report				
Textiles					
Brush, Branches, Trees, & Stumps					
Food Scraps					
Yard Waste (curbside)					
Other (specify)					
TOTAL MISCELLANEOUS MATERIAL RECOVERED (tons): _____					

VOLUME TO WEIGHT CONVERSION FACTORS

MATERIAL	EQUIVALENT		MATERIAL	EQUIVALENT		MATERIAL	EQUIVALENT	
GLASS – whole bottles	1 cubic yard	0.35 tons	GLASS - crushed mechanically	1 cubic yard	0.88 tons	ALUMINUM – cans – whole	1 cubic yard	0.03 tons
GLASS - semi crushed	1 cubic yard	0.70 tons	GLASS - uncrushed manually	55 gallon drum	0.16 tons	ALUMINUM – cans – flattened	1 cubic yard	0.125 tons
PAPER - high grade loose	1 cubic yard	0.18 tons	PLASTIC – PET – whole	1 cubic yard	0.015 tons			
PAPER - high grade baled	1 cubic yard	0.36 tons	PLASTIC – PET – flattened	1 cubic yard	0.04 tons			
PAPER - mixed loose	1 cubic yard	0.15 tons	PLASTIC – PET – baled	1 cubic yard	0.38 tons	WHITE GOODS - uncompacted	1 cubic yard	0.10 tons
NEWSPRINT - loose	1 cubic yard	0.29 tons	PLASTIC – styrofoam	1 cubic yard	0.02 tons	WHITE GOODS - compacted	1 cubic yard	0.5 tons
NEWSPRINT - compacted	1 cubic yard	0.43 tons	PLASTIC – HDPE – whole	1 cubic yard	0.012 tons			
CORRUGATED – loose	1 cubic yard	0.015 tons	PLASTIC – HDPE – flattened 1	1 cubic yard	0.03 tons			
CORRUGATED - baled	1 cubic yard	0.55 tons	PLASTIC – HDPE – baled	1 cubic yard	0.38 tons	FERROUS METAL - cans whole	1 cubic yard	0.08 tons
			PLASTIC – mixed (grocery bags)	45 gallon bag	0.01 tons	FERROUS METAL - cans	1 cubic yard	0.43 tons

SECTION 9 – UNAUTHORIZED SOLID WASTE

Has unauthorized solid waste been received at the facility during the reporting period?

☐ Yes ☐ No If yes, give information below for each incident (attach additional sheets if necessary):

Date Received	Type Received	Date Disposed	Disposal Method & Location

Refer to Section 5 (Unauthorized Solid Waste/Radiation Monitoring) of this report.

Radiation Monitoring

Does your facility use a fixed radiation monitor? ■ Yes _____ No

Identify Manufacturer Ludlum and Model 375P of fixed unit.

Does your facility use a portable radiation monitor? ■ Yes _____ No

Identify Manufacturer Thermo Eberline, LLC and Model IdentiFINDER of portable unit.

If the radiation monitors have been triggered give information below for each incident:

Incident Number	Received		Hauler	Origin	Truck Number	Reading	Disposal Status	Removed	
	Date	Time						Date	Time

Refer to Table 5 of this report for the specific incidents.

SECTION 10 - WASTE IN PLACE

Summary by Waste Type and Year

Include all active and inactive sections of the landfill. Report waste disposed annually by type, if known, in tons per year. Report total waste disposed, if breakdown of types is not available. In the case where more than one landfill section operated in a given year identify each separately, if known. If the annual amount is not available, report the quantities for a range of years. If you include amounts from old, closed landfills then clearly identify them on the table and explain below. In each row, report quantities disposed each year (or group of years if individual years unknown) for each waste type. Report cumulative WIP at bottom (sum of annual quantities disposed). Add additional sheets as necessary.

Year	MSW (tons)	Asbestos Waste (tons)	Ash (tons)	C&D Debris (tons)	Industrial Waste (tons)	Petroleum Contaminated Soil (tons)	Sewage Treatment Plant Sludge (tons)	Other (tons)	Year(s) Total (tons)	Identify Landfill Section(s) Used
Refer to Table 3 (Waste in Place Summary), made part of this form on next page.										
WIP Cumulative Total										

Overall in place volume _____ cubic yards

Method for determining waste composition, if known. _____

Explain if closed landfills are included above _____

Table 3 - Waste In Place Summary
(Tons)

YEAR	SMI LANDFILL	TOTAL WASTE IN PLACE (SMI)	SOUTHEAST LANDFILL	TOTAL WASTE IN PLACE (SELF)	SOUTHEAST BUMP OUT	TOTAL WASTE IN PLACE (SBO)	WESTERN EXPANSION	TOTAL WASTE IN PLACE (WEX)	EASTERN EXPANSION	TOTAL WASTE IN PLACE (EX)
Prior to 2000*		6,485,593								
2000	1,241,934	12,704,805	-	-	-	-	-	-	-	-
2001	1,391,885	14,096,690	-	-	-	-	-	-	-	-
2002	1,817,178	15,913,868	-	-	-	-	-	-	-	-
2003	1,295,262	17,209,130	697,449	697,449	-	-	-	-	-	-
2004	-	17,209,130	2,055,102	2,752,551	-	-	-	-	-	-
2005	-	17,209,130	2,226,558	4,979,109	-	-	-	-	-	-
2006	-	17,209,130	2,191,962	7,171,071	-	-	-	-	-	-
2007**	73,793	17,278,653	2,043,356	9,214,427	-	-	-	-	-	-
2008	264,445	17,543,098	1,738,373	10,952,800	9,748	9,748	-	-	-	-
2009	223,349	17,766,447	184,386	11,137,186	1,705,161	1,714,909	-	-	-	-
2010	-	24,252,040	-	11,137,186	2,476,660	4,191,569	-	-	-	-
2011	-	24,252,040	-	11,137,186	1,879,357	6,070,926	560,899	560,899	-	-
2012	-	24,252,040	-	11,137,186	483,704	6,554,630	1,799,669	2,360,568	-	-
2013	-	24,252,040	3,607	11,140,793	-	6,554,630	2,429,638	4,790,206	-	-
2014	-	24,252,040	-	11,140,793	-	6,554,630	2,096,247	6,886,453	-	-
2015	-	24,252,040	-	11,140,793	-	6,554,630	2,190,515	9,076,968	72,159	72,159
2016	-	24,252,040	-	11,140,793	-	6,554,630	144,465	9,221,433	2,444,833	2,516,993
2017	-	24,252,040	-	11,140,793	-	6,554,630	-	9,221,433	2,571,126	5,088,119
2018	-	24,252,040	-	11,140,793	-	6,554,630	615,289	9,836,722	2,510,499	7,598,618
2019	-	24,252,040	-	11,140,793	-	6,554,630	2,523,471	12,360,193	25,460	7,624,078
2020***	-	24,252,040	-	11,140,793	-	6,554,630	1,804,124	14,164,317	264,270	7,888,348
2021****/*****	741	24,252,781	-	11,140,793	-	6,554,630	1,560,866	15,725,183	607,740	8,496,089

Notes:

* Total Waste in Place for the SMI Landfill only tracks waste placed since 2000. An estimated 6,485,593 tons was placed prior to 2000.

** Total Waste in Place for the SMI Landfill in 2007 reflects a 4270-ton decrease as waste had to be re-located to the SELF for construction purposes.

*** An additional 566.84 tons of waste was sent to the yard debris stockpile and is not accounted for in the 2020 totals.

**** A breakdown of waste types accepted in 2021 can be found in Tables 4-1 and 4-2 of the Annual Report.

***** An additional 573.83 tons of waste was sent to the yard debris stockpile and is not accounted for in the 2021 totals but is accounted for in other report tables.

Waste Summary by Landfill Section

Provide waste in place information for all landfill sections.

Number of landfill sections: ____

Original* section used (years) from _____ to _____

Section Footprint _____ acres

Capped with approved final cover system Yes _____ No _____

Percent capped _____

Waste in Place: _____ Tons _____ Cubic Yards, if known

Next* section used (years) from _____ to _____

Section Footprint _____ acres

Capped with approved final cover system Yes _____ No _____

Percent capped _____

Waste in Place: _____ Tons _____ Cubic Yards, if known

* If there are additional landfill sections, phases or cells, please provide the same waste in place information on additional sheets and attach to form.

SECTION 11 - LANDFILL GAS

Does the landfill have a landfill gas collection & control system?
Yes ■ No ____ If Yes: Active ■ Passive ___

Number of gas wells: 772

Total landfill footprint acreage 350.5

Total landfill acreage from which gas is collected 350.5

Landfill sections from which gas is collected ALL

Landfill acreage from which gas is collected for energy recovery 350.5

Measured Methane Generation Rate*, k 0.04

Measured Potential Methane Generation Capacity*, L_o 100 m^3/Mg

NMOC Concentration* 535 ppmv as hexane

Does the landfill require a Title V Permit? Yes _____ No ■

Name of Landfill Gas Recovery (gas to energy or other use) Facility: Innovative Energy Systems, LLC

* Note: If Concentration NMOC, Lo and k are not known or included, default values will be used to calculate the NMOCs emissions from the Landfill.

Flare

Open and Enclosed Flares located at the Landfill and the Landfill Gas Recovery Facility:

Number of Flares: 5

Type of Flare: Opened Flare 1 Enclosed Flare 4

Please report units in cubic feet

Quantity of Gas Collected and Flared Annually 691,184,830 cubic feet
Flare Hours of Operation per Year 9,608.51 hours/year
Methane Percentage in Landfill Gas before flaring 50 %
Methane Destruction efficiency 98 %

Candlestick Flares:

Number of Candlestick Flares 0
Estimate of Gas Flared Candlestick Flare 0 cubic feet

Gas To Energy

Please report units in cubic feet

Number of Internal Combustion Engines: 18

Quantity of Gas collected for Internal Combustion Engine Annually 1,989,111,275 cubic feet
Methane Destruction efficiency 97 %
Methane Percentage in Landfill Gas before combustion 50 %
Utility Company Receiving Electricity NYSEG

Gas Processed for Use (Other than gas to electricity)

Quantity of Gas Collected for Processing 2,944,324,199 cubic feet
Methane Percentage in Landfill Gas before processing 50 %
On-site or Off-site User of Gas Dominion Transmission, Inc.

Landfill Gas Recovery Facility/Landfill Data

Facility Contact J.P. McNeil Phone # (404) 862-3782

Contact e-mail address jmcneil@archaea.energy Fax # (_____)_____-_____

Operation and maintenance cost for calendar year: $ N/A

Does the LGRF experience shut downs: ■ Yes _____ No

If yes, indicate reasons for shut downs. List required submissions that have been attached to this form or the reasons for not attaching a required piece of information:

Utility breaker trips, gas collection system repairs, requests by the utility to shut the plant down, and facility maintenance/repairs. See Title V Air Reporting for startup, shutdown and malfunction information

Year landfill opened: 1973 Anticipated landfill closure date: 2025

Air space on site will be managed to meet the permitted site life of 2025.

Results of Condensate Sampling

Submit (attached to this form) condensate quality monitoring results accomplished in accordance with condensate sampling. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Refer to the Gas Condensate Report in Section 3.0 (Leachate Wastewater Management)

Landfill Gas Utilized For Energy Recovery

Provide the following information for the landfill gas recovered for energy. **DO NOT INCLUDE THE GAS FLARED!**

	Landfill Gas Collected for Energy Recovery (Cubic Feet)	Steam* Generated (Cubic Feet)	Total Electricity* Generated for onsite and offsite use (K.W.H.)	Total Gas Processed for use other than electricity generation (Cubic Feet)	Condensate Generated (Gallons)	Facility Operation (Hours)
January	171,025,963	N/A	8,614,898	266,675,334	197,832	1,487
February	164,694,280	N/A	8,076,058	201,351,746	227,313	1,327
March	169,005,289	N/A	8,424,311	227,355,747	186,676	1,425
April	149,013,805	N/A	7,375,709	256,314,000	221,057	1,436
May	158,262,088	N/A	7,144,745	268,463,004	217,757	1,488
June	142,858,648	N/A	6,473,687	257,856,697	240,426	1,440
July	163,204,852	N/A	7,322,867	257,986,308	341,357	1,478
August	153,926,553	N/A	6,914,652	263,407,407	411,522	1,483
September	176,166,933	N/A	8,289,449	147,263,002	350,319	1,109
October	175,409,709	N/A	8,683,291	255,167,217	340,101	1,438
November	172,185,380	N/A	8,393,815	271,095,590	249,929	1,427
December	193,357,773	N/A	9,122,059	271,058,395	284,909	1,466
ANNUAL TOTAL	1,989,111,275	N/A	94,835,541	2,943,994,447	3,269,197	17,003

* Provide where applicable.

Normal Weekdays of Operation 7 Normal Hours of Operation 24

Electricity Generated and used/marketed offsite 58,690,629 KWH
Electricity Generated and used onsite 34,144,912 KWH
Gas Processed and used/marketed offsite 2,943,994,447 cubic feet
Gas Processed and used onsite 0 cubic feet

Describe the collection, storage, treatment and disposal techniques used in managing the condensate:

Refer to Section 3.0 (Leachate Wastewater Management) of this report.

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SECTION 12 - COST ESTIMATES AND FINANCIAL ASSURANCE DOCUMENTS

Are there required cost estimates and financial assurance documents for closure and post-closure care?

☒ Yes ☐ No If yes, attach additional sheets reflecting annual adjustments for inflation and any changes to the Closure Plan?

SECTION 13 – PROBLEMS

Were any problems encountered during the reporting period (e.g., specific occurrences which have led to changes in facility procedures)?

☐ Yes ☒ No If yes, attach additional sheets identifying each problem and the methods for resolution of the problem.

SECTION 14 – CHANGES

Were there any changes from approved reports, plans, specifications, and permit conditions?

☐ Yes ☒ No If yes, attach additional sheets identifying changes with a justification for each change.

SECTION 11 – LANDFILL OPERATOR TRAINING

Name of trained landfill operator: Seth Greathouse

Name and location of training course: Landfill Operator Certification, Holiday Inn, Syracuse, NY

Date completed: 12-13-2019

SECTION 16 - ANALYTICAL RESULTS

Submit (attached to this form) tables showing the sample collection date, the analytical results [including all peaks even if below the Method Detection Limits (MDL)], designation of upgradient wells and location number for each environmental monitoring point sampled, applicable water quality standards, and groundwater protection standards if established, MDL's, and Chemical Abstracts Service (CAS) numbers on all parameters. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Refer to Section 9.0 (Groundwater Sampling and Analysis) of this report.

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SECTION 17 - COMPARING DATA

Submit (attached to this form) tables or graphical representations comparing current water quality with existing water quality and with upgradient water quality. These comparisons may include Piper diagrams, Stiff diagrams, tables, or other analyses. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Refer to Section 9.0 (Groundwater Sampling and Analysis) of this report.

SECTION 18 - DISCUSSION OF RESULTS

Submit (attached to this form) a summary of any contraventions of State water quality standards, significant increases in concentrations above existing water quality, any exceedances of groundwater protection standards, and discussion of results, and any proposed modifications to the sampling and analysis schedule necessary to meet the Existing, Operational and Contingency water quality monitoring requirements. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Refer to Section 9.0 (Groundwater Sampling and Analysis) of this report.

SECTION 19 - DATA QUALITY ASSESSMENT

Submit (attached to this form) any required data quality assessment reports. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Refer to Section 9.0 (Groundwater Sampling and Analysis) of this report.

SECTION 20 - SUMMARIES OF MONITORING DATA

Submit (attached to this form) a summary of the water quality information presented in Sections 16 and 17 for the year of operation for which the Annual Report is made, noting any changes in water quality which have occurred throughout the year. List submissions (required by this section) that have been attached to this form or the reasons for not attaching a required piece of information:

Refer to Section 9.0 (Groundwater Sampling and Analysis) of this report.

SECTION 21 - SURFACE IMPOUNDMENTS

Does this landfill have a surface impoundment?

☐ Yes ■ No If yes, repeat Sections 15 through 18 above for Quarterly Reports and Section 19 above for Annual report. Attach additional submissions required by this section.

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SECTION 22 - PERMIT/CONSENT ORDER REPORTING REQUIREMENTS

Are there any additional permit/consent order reporting requirements not covered by the previous sections of this form?

☐ Yes ■ No If yes, attach additional sheets identifying the reporting requirements with their respective responses.

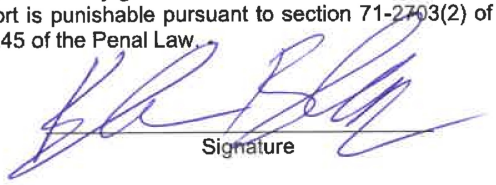
SECTION 23 - SIGNATURE AND DATE BY OWNER OR OPERATOR

Owner or Operator must sign, date and submit one completed form to the appropriate Regional Office (See attachment for Regional Office addresses, email addresses and Materials Management Contacts).

The Owner or Operator must also submit one copy by email, fax or mail to:

New York State Department of Environmental Conservation
Division of Materials Management
Bureau of Solid Waste Management
625 Broadway
Albany, New York 12233-7260
Fax 518-402-9041
Email address: SWMFannualreport@dec.ny.gov

I certify, under penalty of law, that the data and other information identified in this report have been prepared under my direction and supervision in compliance with a system designed to ensure that qualified personnel properly and accurately gather and evaluate this information. I am aware that any false statement I make in such report is punishable pursuant to section 71-2703(2) of the Environmental Conservation Law and section 210.45 of the Penal Law.



Signature

2/24/22
Date

Kyle Black
Name (Print or Type)

District Manager
Title (Print or Type)

kyle.black@wasteconnections.com
Email (Print or Type)

1786 Salcman Road
Address

Waterloo
City

New York 13165
State and Zip

(315) 539-5624
Phone Number

ATTACHMENTS: ☒ YES ☐ NO
(Please check appropriate line)

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2.0 SITE LIFE

The remaining site life for the SMI facility includes both constructed and future expansion landfill areas. The constructed portions of the SMI facility include the Southeast Landfill and initial expansion stage (referred to as the SELF/EX-2 area), the SMI Landfill, the several stages of the western expansion (EX-1 or WEX) area (referred to as Stages 3/4/5/6), and the first stage (referred to as Stage 7) and the second stage (referred to as Stage 8) of the northeastern expansion (EX-3 or NEX). In 2018, waste placement began in the first phase of expansion area EX-1 (referred to as Stage 6A). In 2019, waste placement began in the second phase of expansion area EX-1 (referred to as Stage 6B). In 2020, waste placement began in the third phase of expansion area EX-1 (referred to as 6C). In 2021, waste placement began in the fourth phase of expansion area EX-1 (referred to as 5A). Future expansion areas include the remaining landfill stages (referred to as Stage 5) within the EX-1 expansion area.

WASTE INTAKE AND AIR SPACE CONSUMED IN 2021

Based on truck scale records, a total of 2,169,922 tons of waste (inclusive of BUDs) was received between January 1, 2021 and December 31, 2021. To determine air space remaining as of December 31, 2021 the remaining volume of airspace was determined as of the aerial flight on May 11, 2021 and supplemented with consumed volume based off truck scale records for the remainder of the year and the historical compaction rate of 0.86 Tons/CY the site. The remaining available airspace as of December 31, 2021 was estimated to be 7,500,873 CY. The remaining available airspace as of December 31, 2020 had been estimated to be 10,024,038 CY therefore the estimated consumed volume of airspace for 2021 is 2,523,165 CY.

The approximate locations of waste placement in Stages 7A/B, Stage 6A/B/C, and Stage 5A during 2021 are depicted on Figures 2-1 and 2-3. The following table summarizes air space consumed in the landfill in 2021.

Landfill Area	Air Space Consumed in 2021	
	Cubic Yards	Tons
Total Air Space Consumed	2,523,165	2,169,922

Notes:
1. Tonnage equivalent for air space consumed is based on the historical calculated annual average in-place waste density of 0.86 tons/cubic yard.

PLANNED NEAR-TERM WASTE FILLING LOCATIONS

Near-term waste filling will continue within the constructed and certified landfill areas which include Stage 6A, 6B, 6C, and 5A during 2022. The approximate locations of waste placement in the Stage 7A/B, Stage 6A/B/C, and Stage 5A are depicted on Figures 2-1, and 2-3. Additionally, it is noted that the SELF/EX-2 and NEX/EX-3 areas contain plateau and veneer fills that represent significant remaining air space that may be utilized for future waste placement. The specific locations of veneer fills that may be utilized will depend on operational considerations and will be determined at a later time.

TOTAL REMAINING AIR SPACE AND SITE LIFE

The total remaining air space and site life for the SMI facility as of January 1, 2022 includes available air space within constructed and certified areas as well as the anticipated air space that will be available within permitted but, yet, unconstructed areas. Remaining air space within unconstructed areas is based on a comparison of anticipated top of liner grades and permitted final grades, with appropriate reductions for final cover thickness. Remaining air space within constructed areas is generally based on extending the 3H:1V design sideslope up from the existing top of slope until reaching either the permitted final waste grade or until a minimum (from an operational perspective)

plateau area is reached, at which point the design slope breaks to the 4% plateau slope gradient. Generally, veneer fills on 3H:1V sideslopes are not included in the remaining air space estimate due to the complexity of constructing thin lifts on steeper slopes. However, in limited cases, veneer fills may be significant and may therefore become operationally feasible for future waste placement. The following table summarizes remaining air space for constructed and future landfill areas.

Landfill Area	Remaining Air Space	
	Cubic Yards	Tons
Constructed Cells	2,713,315	2,306,318
Future Cells (Stage 5)	4,787,558	4,069,424
Total	**7,500,873**	**6,375,742**

Notes:

1. Tonnage equivalent for remaining air space is based on an assumed in-place waste density of 0.86 tons/cubic yard. This assumed value is used for planning estimates and is within the range of average annual historical waste densities.
2. Remaining air space in SELF/EX-2 and NEX/EX-3 areas include certain veneer fill areas that have become available due to settlement over time.

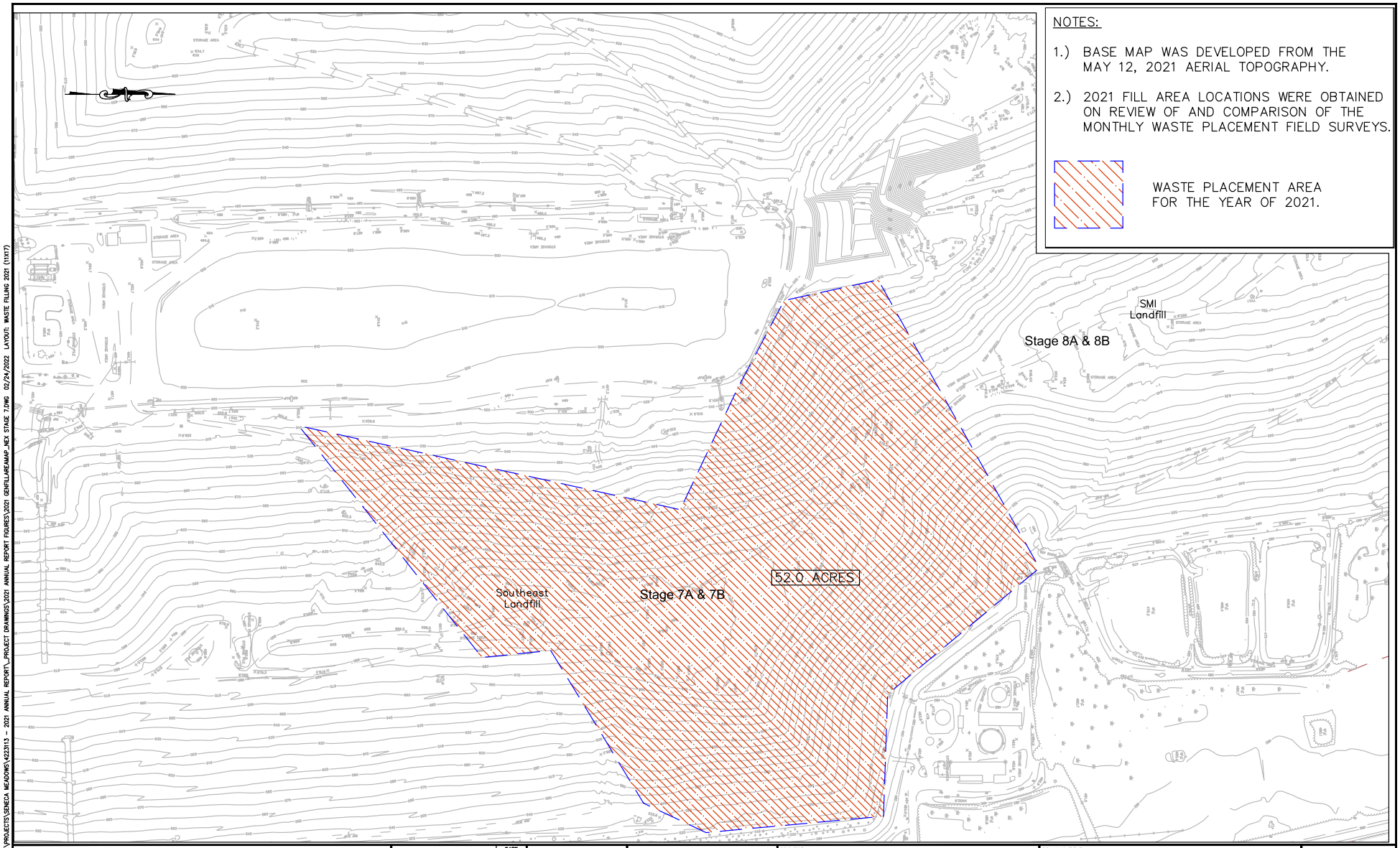
To calculate remaining site life, an assumed annual waste intake of 2,180,000 tons, inclusive of BUDs, is assumed. An average in-place waste density of 0.86 tons/cubic yard is also assumed based on historical observed values and planning estimates. Based on these assumptions and the remaining air space presented above, the total estimated remaining site life for the SMI facility is approximately 3 years. Future waste intake rates and in-place density will affect the remaining site life.

FIGURE 2-1. APPROXIMATE LIMIT OF WASTE FILLING – 2021 EX-3 EXPANSION STAGE 7 & 8

FIGURE 2-2. GENERALIZED FILL AREA MAP FOR CALENDAR YEAR 2022 EX-3 EXPANSION STAGE 7 - 8

FIGURE 2-3. APPROXIMATE LIMIT OF WASTE FILLING – 2021 EX-1 EXPANSION STAGE 6A

FIGURE 2-4. GENERALIZED FILL AREA MAP FOR CALENDAR YEAR 2022 EX-1 EXPANSION STAGE 5/6A-6B



PREPARED BY: CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

	DATE
DESIGNED BY:	
DRAWN BY: D. STENSHORN	JAN.2022
CHECKED BY: T. BROWN	JAN.2022

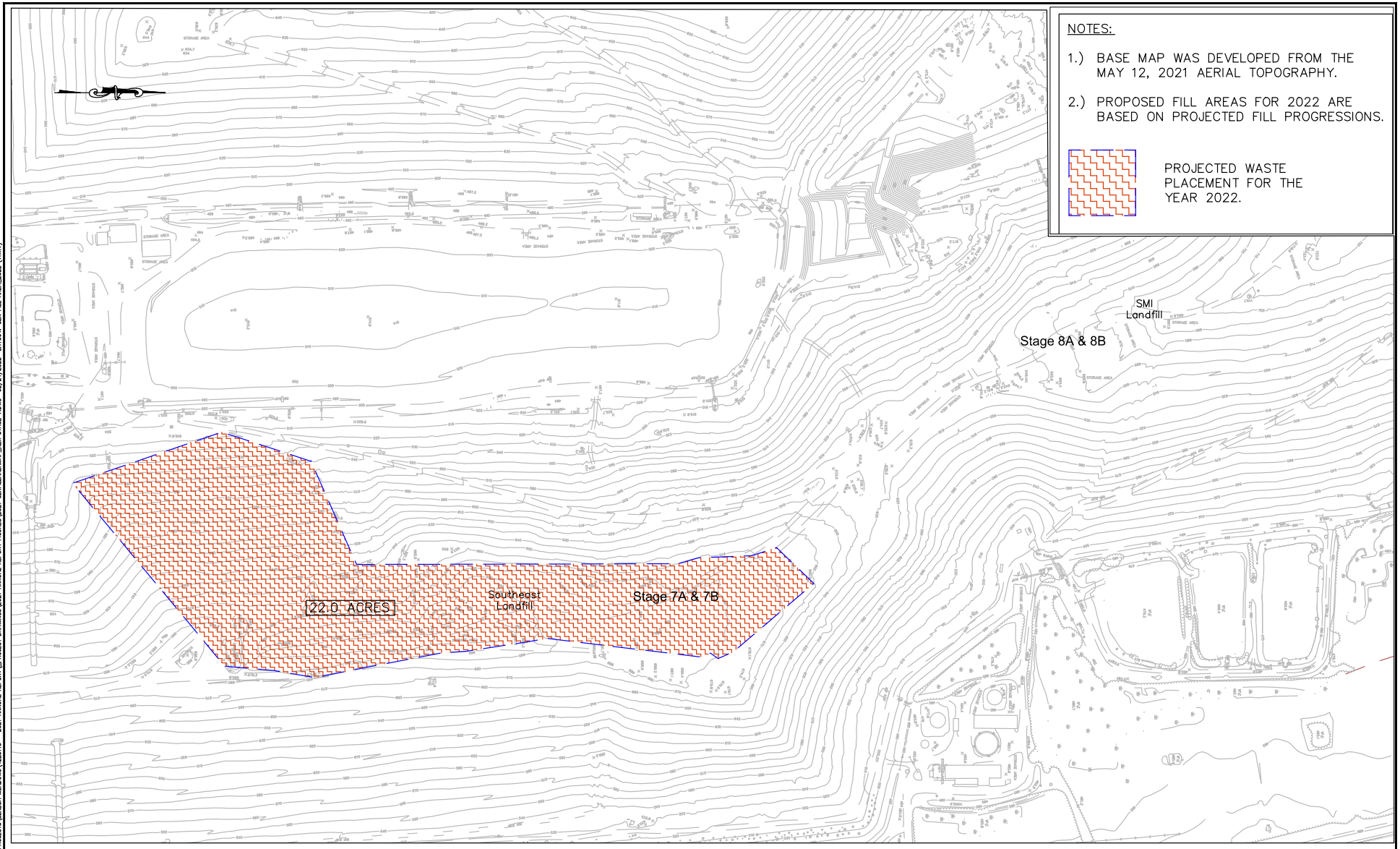
0 300' 600'
DRAWING SCALE IN FEET

PROJECT: SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

DRAWING TITLE:
APPROXIMATE LIMIT OF WASTE FILLING - 2021
EX-3 EXPANSION STAGES

Fig. 2-1
4223113

\\TS620FS2\GEO2\PROJECTS\SENECA MEADOWS\4223113 - 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021 GENFILLAREAMAP_NEX STAGE 7.DWG 02/24/2022 LAYOUT: WASTE FILLING 2021 (11X17)



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

cornerstone PLLC

		DATE
DESIGNED BY:		
DRAWN BY:	D. STENSHORN	JAN.2022
CHECKED BY:	T. BROWN	JAN.2022

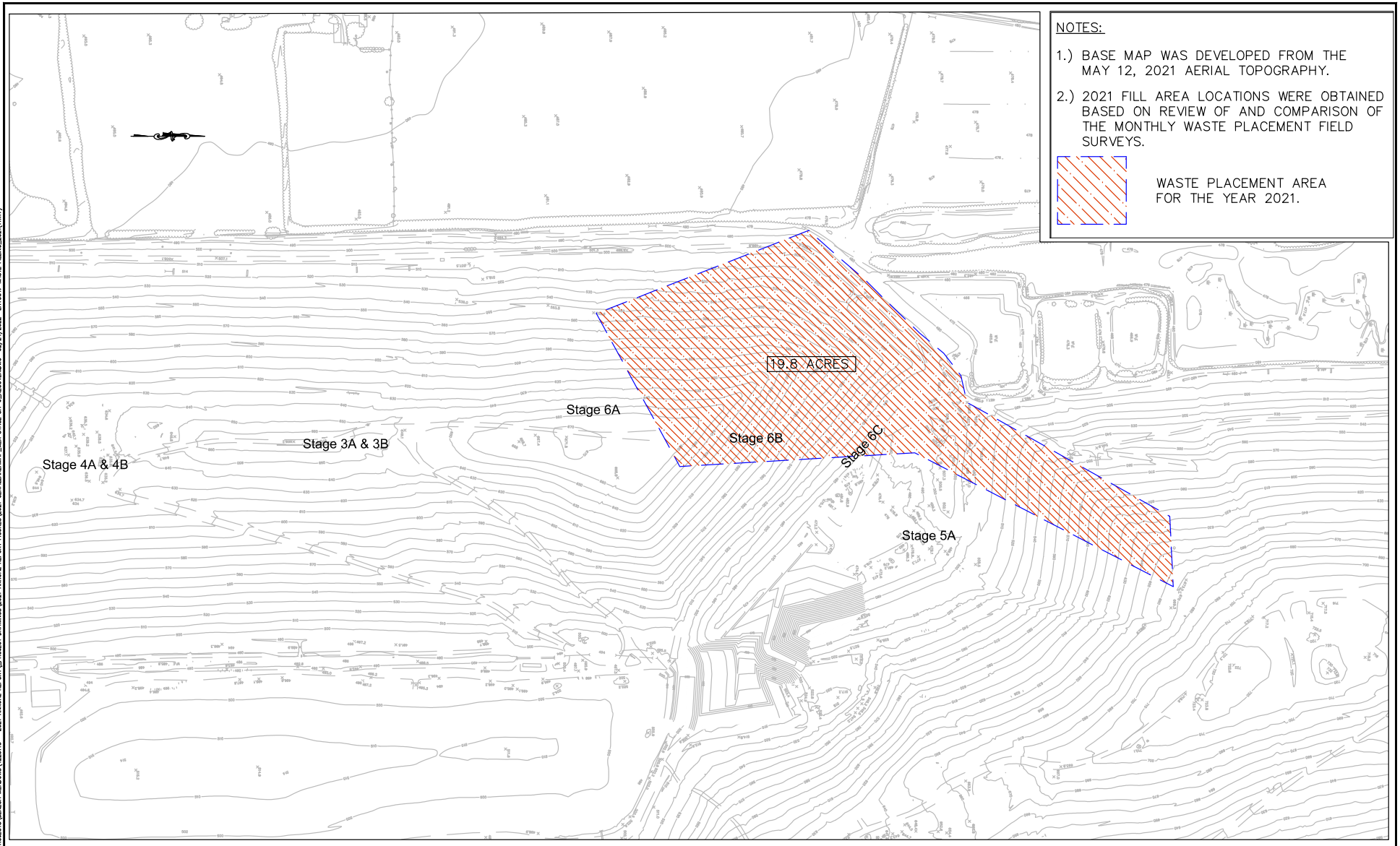
0 250' 500'
DRAWING SCALE IN FEET

PROJECT: SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

DRAWING TITLE:
GENERALIZED FILL AREA MAP FOR CALENDAR YEAR 2022 EX-3 EXPANSION STAGE 7 - 8

Fig. 2-2
4223113

\\TS62BF52\GEO2\PROJECTS\SENECA MEADOWS\4223113 - 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021 GENFILLAREAMAP_NEX STAGE 7.DWG 02/24/2022 LAYOUT: GEN FILL AREA_2022 (11X17)



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cornerstone PLLC

	DATE
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CHECKED BY: T. BROWN	JAN.2022

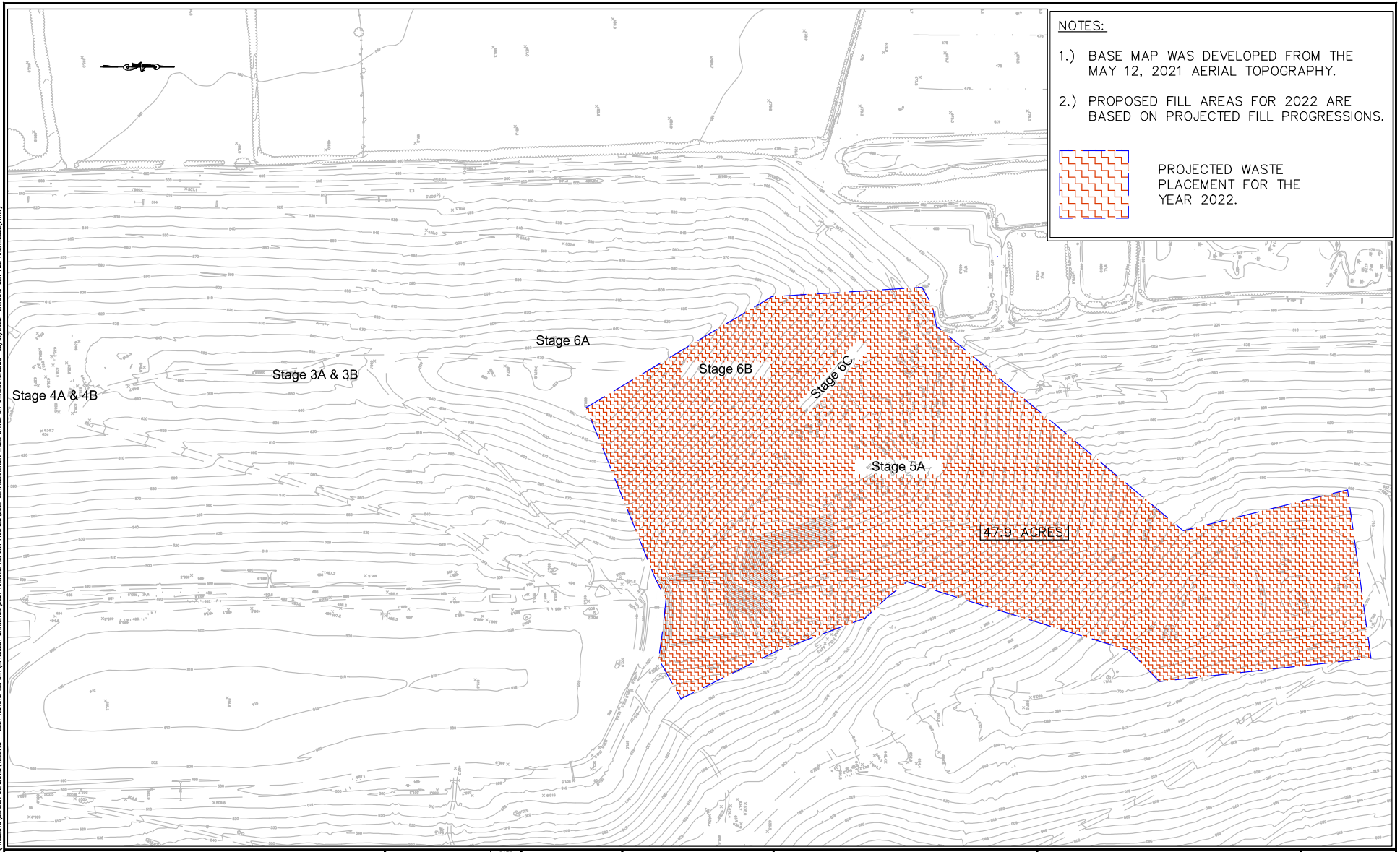
0 300' 600'
DRAWING SCALE IN FEET

PROJECT: SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

DRAWING TITLE:
APPROXIMATE LIMIT OF WASTE FILLING - 2021
EX-1 EXPANSION STAGES 6

Fig. 2-3
4223113

\\TS62BFS2\GEO2\PROJECTS\SENECA MEADOWS\4223113 - 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021 GENFILLAREAMAP_MEX STAGE 5A-6_RECOVER.DWG 02/24/2022 LAYOUT: WASTE FILLING_2021(11X17)



PREPARED BY:
CORNERSTONE ENGINEERING AND GEOLOGY, PLLC

		DATE
DESIGNED BY:		
DRAWN BY:	D. STENSHORN	JAN.2022
CHECKED BY:	T. BROWN	JAN.2022

0 300' 600'
DRAWING SCALE IN FEET

PROJECT: SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

DRAWING TITLE:
GENERALIZED FILL AREA MAP FOR CALENDAR YEAR 2022 EX-1 EXPANSION STAGES

Fig. 2-4
4223113

\\TS62BFS2\GEO2\PROJECTS\SENECA MEADOWS\4223113 - 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021 GENFILLAREAMAP_MEX STAGE 5A-6_RECOVER.DWG 03/01/2022 LAYOUT: GEN FILL AREA_2022(11X17)

3.0 LEACHATE WASTEWATER MANAGEMENT

PRIMARY LEACHATE COLLECTION

Wastewater management at SMI is comprised of the collection, temporary storage, off-site transport and treatment of leachate, septage, process water, contaminated groundwater or surface water, and landfill gas condensate. During calendar year 2021, wastewater was temporarily stored on-site in two 500,000-gallon and one 1,720,000-gallon glass-fused-to-steel-above-ground leachate storage tanks before being transported off-site for treatment, processed using an evaporator or processed in a reverse osmosis treatment system, where the permeate is discharged and the concentrate is trucked off-site. In total 76,654,505 gallons were treated (Appendix C of Leachate and Gas Condensate Report, this Section), SMI spent approximately $15,046,124 for treatment at an average cost of approximately $0.20 per gallon.

Leachate is defined as any liquid which accumulates in the leachate drawdown wells, any liquid which accumulates within a zone in which refuse has been deposited, or any liquid which has been in contact with or passed through solid waste, or which has been contaminated by liquid which has been in contact with or passed through solid waste. Figure 3-1 presents the existing leachate collection system for the SENECA MEADOWS Landfill. Leachate from the SMI Landfill is routinely removed from perimeter leachate wells #4 through #22. Liquid from the primary and secondary leachate collection system within the double lined cells (Area 1, Area 2, Area 3, and Area 4) is collected at AB Sideriser Station 1 (ABSRS-1) and AB Sideriser Station 2 (ABSRS-2). Leachate from the inactive landfill is primarily collected in the AB leachate drain from one of three sumps: ABMH-1, ABMH-2 or ABMH-3.

Figure 3-1a presents the existing leachate collection system for the Southeast Landfill. Liquid from the primary and secondary leachate collection systems within the double lined cells (Area 1 and Area 2) is collected at SE Sideriser Station 1 (SESRS-1) and at SE Sideriser Station 2 (SESRS-2).

Figure 3-1a also presents the existing leachate collection system for the Southeast Landfill Bumpout. Liquid from the primary and secondary leachate collection systems within the double lined cell is collected at SE Sideriser Station 3 (SESRS-3).

Figure 3-1b presents the existing leachate collection system for the Western Expansion Landfill. Liquid from the primary and secondary leachate collection systems within the double lined cells (Area 3, 4 and 6) is collected at WE Sideriser Station 3 (WESRS-3), at WE Sideriser Station 4 (WESRS-4), and at WE Sideriser Station 2 (WESRS-2).

Figure 3-1c presents the existing leachate collection system for the Northeast Expansion Landfill. Liquid from the primary and secondary leachate collection systems within the double lined cells (Area 7 and Area 8) is collected at Northeast Sideriser Station 1 (NESRS-1).

Contact water, septage, wash waters, and process water from construction activities and/or the operation of the Landfill's ancillary facilities is collected and processed as leachate. This includes the groundwater that is collected by the SM-11 drain system, located south of the SMI landfill area, and gravity drains to one of two sumps: SM-11(E) or SM-11(W).

Condensate from the SMI Landfill gas collection system drains to two underground holding tanks. The location of these tanks is presented in Figure 3-2. CT-008 is a 3,000-gallon, double-walled tank located along the perimeter access road near Area 3. Condensate from the Southeast Landfill gas collection system drains to three underground holding tanks. The location of these tanks is presented in Figure 3-2a. SE-CT-0001 is a 2,000-gallon, double-walled tank located on the north side of Black Brook. RP-CT-0001 is a 2,000-gallon, double-walled tank located in the Renewable Resource Park (RRP). RP-CT-0002 is a 48" diameter HDPE sump located at the SMI Landfill Gas Recovery Facility (LFGRF) in the RRP. Condensate from the Southeast Landfill Bumpout (SBO) gas collection system drains to three underground holding tanks. The location of these tanks is also presented in Figure 3-2a. SE-CT-0002 is a 2,000-gallon, double-walled tank located along the east berm of the SBO. SE-CT-0003 is a 2,000-

gallon, double-walled tank located along the south berm of the SBO. SE-CT-0004 is a 2,000-gallon, double-walled tank located along the southwest corner berm of the SBO. IES-HDPE SUMPS is a set of 48" diameter HDPE sumps located at the Innovative Energy gas-to-energy facility. Condensate from the Western Expansion gas collection system drains to two underground holding tanks. The location of these tanks is presented in Figure 3-2b. WE-CT-001 was a 2,000-gallon, double-walled tank which was removed from the north side of the Western Expansion Area 3 for the Stage 6A construction in May 2017. WE-CT-002 is a 2,000-gallon, double-walled tank located east of Western Expansion Area 4b and west of the Southeast Landfill Bumpout. WE-CT-003 is a 2,000-gallon, double walled tank located east of Western Expansion Area 4b. Two additional 2,000-gallon, double-walled condensate tanks (WEX-CT-004 and WEX-CT-005) were installed as part of the Western Expansion for Stages 5 and 6 as shown on Figure 3-2b and Figure 3-2c.

The majority of the liquid collected from the condensate tanks is leachate entering the gas system's horizontal collection trenches, then gravity draining through the header system into the holding tanks.

The Leachate and Gas Condensate Report summarizes the quantities of leachate, groundwater and process water removed from the Site on a monthly basis and the liquid removed from the landfill gas condensate tanks. Table 3-1 is a summary of leachate recirculated back into the Western Expansion or the Northern Expansion. In calendar year 2021, no leachate was recirculated back into the landfill, however, the table has been included as recirculation could potentially occur in future years at the Site. Table 3-2 is a summary of leachate treated at off-site POTW's and through the on-site evaporator.

LEACHATE TREATMENT SYSTEM & STORAGE TANK

During 2021, operation of the three-stage reverse osmosis (RO) leachate treatment system and 100,000-gallon, above-ground, concentrate storage tank continued. In calendar year 2021, approximately 25,117,502 gallons of raw leachate were processed and treated through the RO system. Raw leachate was pumped from two 500,000-gallon and one 1,720,000, above-ground,

storage tanks to the treatment plant building for processing. Permeate from the treatment system was discharged to a local sewer system. The concentrate stream was disposed offsite.

SECONDARY LEACHATE COLLECTION

Flow in the secondary leachate collection and removal system is comprised of construction water, consolidation water and primary liner containment system. Construction water and consolidation water are released from storage above the secondary liner system, and within the wet soil used in the soil liner construction, respective. Liquid from the secondary leachate collection system within the double lined cells (Area 1, Area 2, Area 3, and Area 4) is collected at AB Sideriser Station 1 (ABSRS-1) and AB Sideriser Station 2 (ABSRS-2). Figure 3-1 presents the existing leachate collection system for the SMI Landfill. Liquid from the secondary leachate collection system within the double lined cells (Area 1 and Area 2) of the Southeast Landfill is collected at SE Sideriser Station 1 (SESRS-1) and at SE Sideriser Station 2 (SESRS-2). Figure 3-1a presents the existing leachate collection system for the Southeast Landfill. Liquid from the secondary leachate collection system within the double lined cell of the Southeast Landfill Bumpout (SBO) is collected at SE Sideriser Station 3 (SESRS-3). Figure 3-1a presents the existing leachate collection system for the Southeast Landfill Bumpout. Liquid from the secondary leachate collection system within the double lined cells (Area 3, Area 4, and Area 6) of the Western Expansion Landfill is collected at WE Sideriser Station 3 (WESRS-3), WE Sideriser Station 4 (WESRS 4), and WE Sideriser Station 2 (WESRS 2). Figure 3-1b presents the existing leachate collection system for the Western Expansion Landfill. Figure 3-1c presents the existing leachate collection system for the Northern Expansion Landfill. The Leachate and Gas Condensate Annual Report summarizes the quantities of secondary leachate removed from the Site on a monthly basis. The table below summarizes the acreage covered by each side sump.

Sump ID	Area	Secondary Liner Acreage
ABSRS-1	Area 3	17.3
ABSRS-2	Area 1 & 2	37.0
SESRS-1	Area 1A & 1B	34.2
SERS-2	Area 2	36.0
SERS-3	SBO	35.2
WESRS-2	WEX6	32.1
WESRS-3	WEX3	35.2
WESRS-4	WEX4	29.5
NESRS	NEX7 & NEX8	37.0

The existing Supervisory Control and Data Acquisition (SCADA) system has been used to record flow rates in the secondary sumps in the AB Landfill, Southeast Landfill, the SBO, the Western Expansion, and the Northern Expansion during 2021. Construction and consolidation water may vary based on the amount and intensity of land filling or construction operations above the liner system. Accordingly, flow rates in the secondary LCRS will vary over time.

The flow rates to the secondary sumps at the nine locations summarized above are presented in the table below.

Sump ID	Area	Peak Leakage Rate 30-Day Average for 2021 (gal/ac)
ABSRS-1	Area 3	74.24 *
ABSRS-2	Area 1 & 2	21.13 *
SESRS-1	SELF 1	15.83
SERS-2	SELF 2	29.91 *
SERS-3	SBO	19.16
WESRS-2	WEX6	24.17 *
WESRS-3	WEX3	8.11
WESRS-4	WEX4	11.16
NESRS	NEX7 & NEX8	25.57 *

* Data presented over 20 gal/ac day are due to construction related activities due to the tie in of the Stage 5 liner, and final cover installation.

During 2021 several construction projects impacted the secondary flow rates of several cells. The NYSDEC was informed of the increase in flow. Evaluations were made to determine the causes of the increase in flow rates. Steps have been taken to mitigate the leakage or investigate the leak further. At the end of the reporting year the leakage rates have shown a downward trend.

RECIRCULATION AND OFF-SITE TREATMENT

Leachate collected at the sideriser stations located in the SMI, Southeast, Southeast Bumpout, and Western Expansion Landfills is conveyed to two 500,000-gallon and one 1,720,000 on-site storage tanks where it is mixed with primary leachate, septage, process water, contaminated wash water, contact water, and landfill gas condensate prior to being discharged to our RO treatment system for processing, or transported to local POTW's for treatment. In 2021 there was no leachate recirculation performed. The summaries for leachate recirculation and off-site treatment and on-site evaporator are provided in Tables 3-1 and 3-2, respectively.

FIGURE 3-1. LEACHATE DRAWDOWN LOCATIONS (SMI LANDFILL)

FIGURE 3-1A. LEACHATE DRAWDOWN LOCATIONS (SOUTHEAST LANDFILL, SOUTHEAST LANDFILL BUMPOUT AND RENEWABLE RESOURCE PARK)

FIGURE 3-1B. LEACHATE DRAWDOWN LOCATIONS (WESTERN EXPANSION LANDFILL)

FIGURE 3-1C. LEACHATE DRAWDOWN LOCATIONS (NORTHERN EXPANSION LANDFILL)

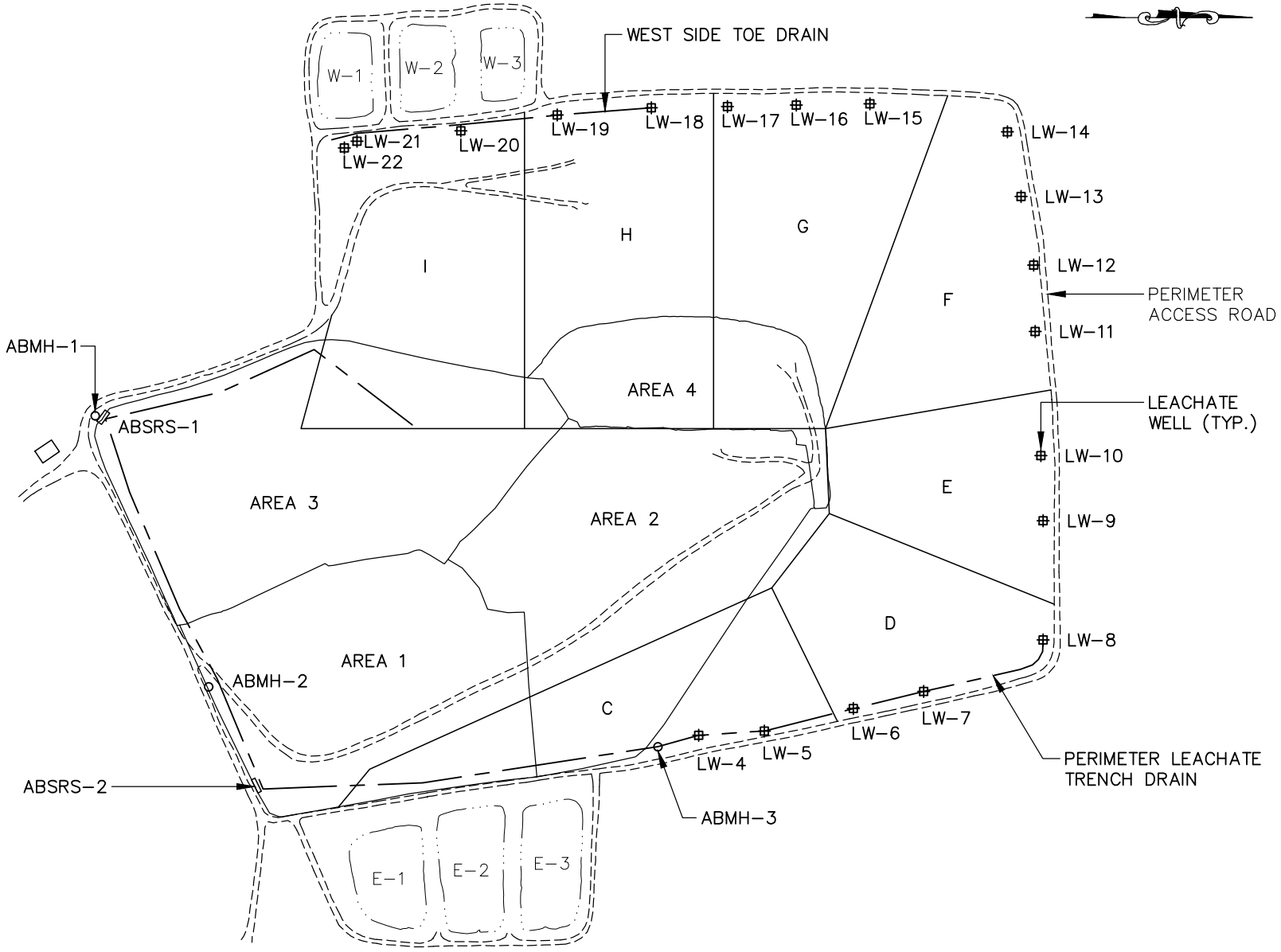
FIGURE 3-2. CONDENSATE TANK LOCATIONS (SMI LANDFILL)

FIGURE 3-2A. CONDENSATE TANK LOCATIONS (SOUTHEAST LANDFILL, SOUTHEAST LANDFILL BUMPOUT AND RENEWABLE RESOURCE PARK)

FIGURE 3-2B. CONDENSATE TANK LOCATIONS (WESTERN EXPANSION LANDFILL)

FIGURE 3-2C. CONDENSATE TANK LOCATIONS (WESTERN EXPANSION LANDFILL)

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_SMI LF_LEACHATE DRAWDOWN LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3-1 (8.5X11)



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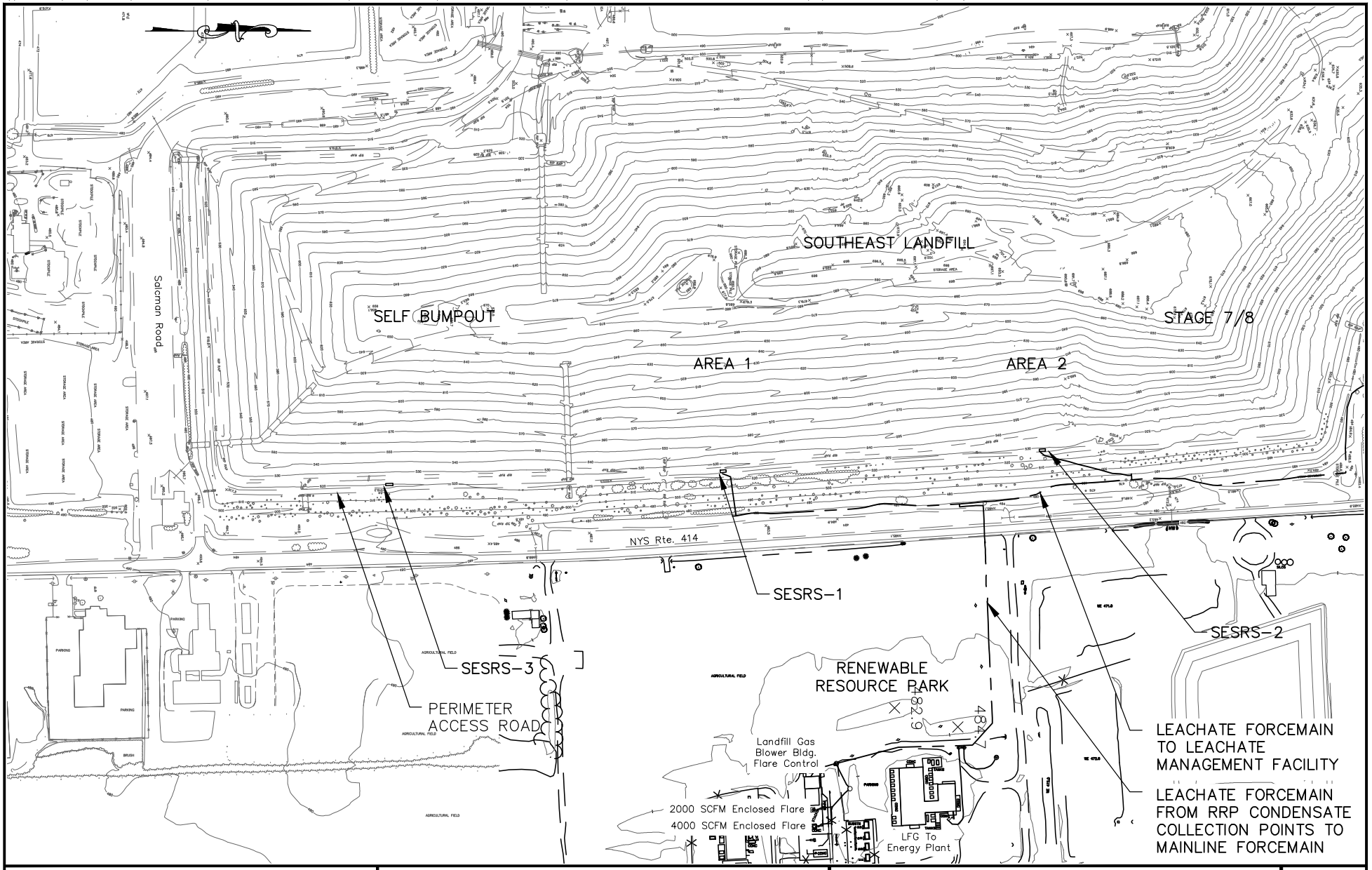
SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

LEACHATE DRAWDOWN LOCATIONS
SMI LANDFILL

FIGURE
3-1

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_SELE-SBO_LEACHATE DRAWDOWN LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3-1A (8.5X11)



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LEACHATE DRAWDOWN LOCATIONS SOUTHEAST LANDFILL, SELF BUMPOUT & RENEWABLE RESOURCE PARK

FIGURE
3-1a

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_WEX_LEACHATE DRAWDOWN LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3–1B (8.5X11)

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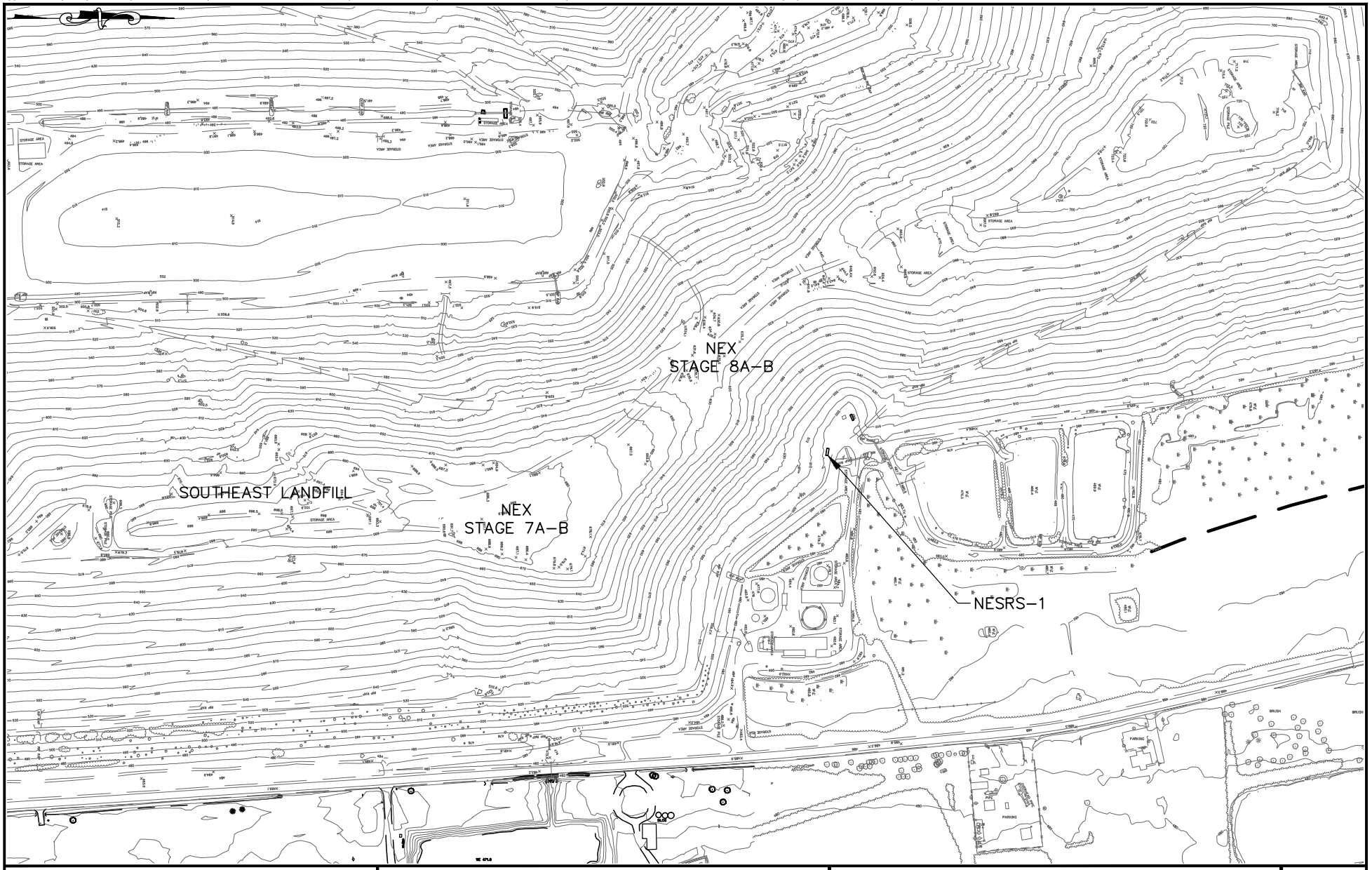
LEACHATE DRAWDOWN LOCATIONS WESTERN EXPANSION LANDFILL

FIGURE
3–1b

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_NEX_LEACHATE DRAWDOWN LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3–1C (8.5X11)



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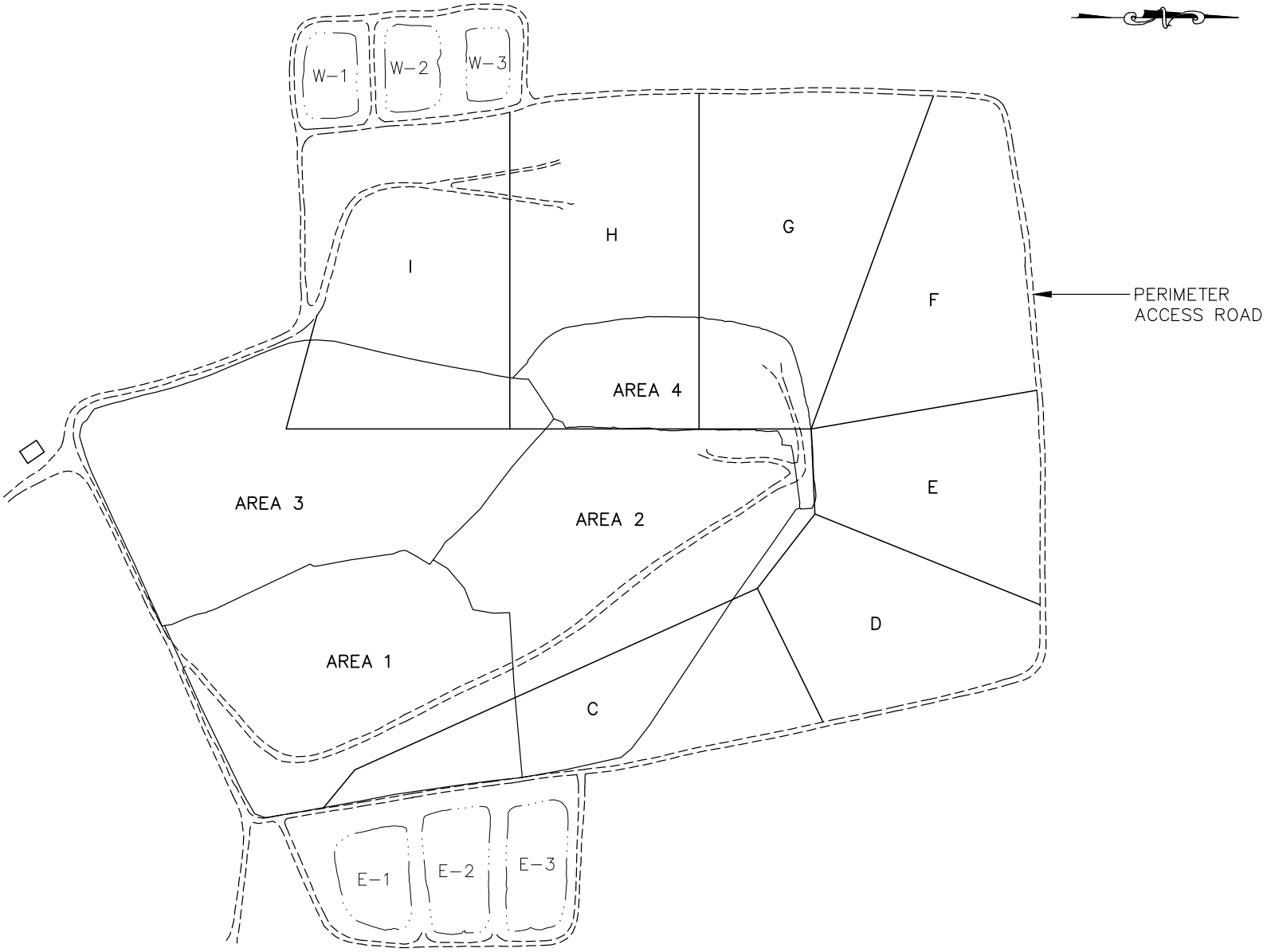
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

LEACHATE DRAWDOWN LOCATIONS
NORTHERN EXPANSION LANDFILL

FIGURE
3–1c

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_SMI LF_CONDENSATE TANK LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3-2 (8.5X11)



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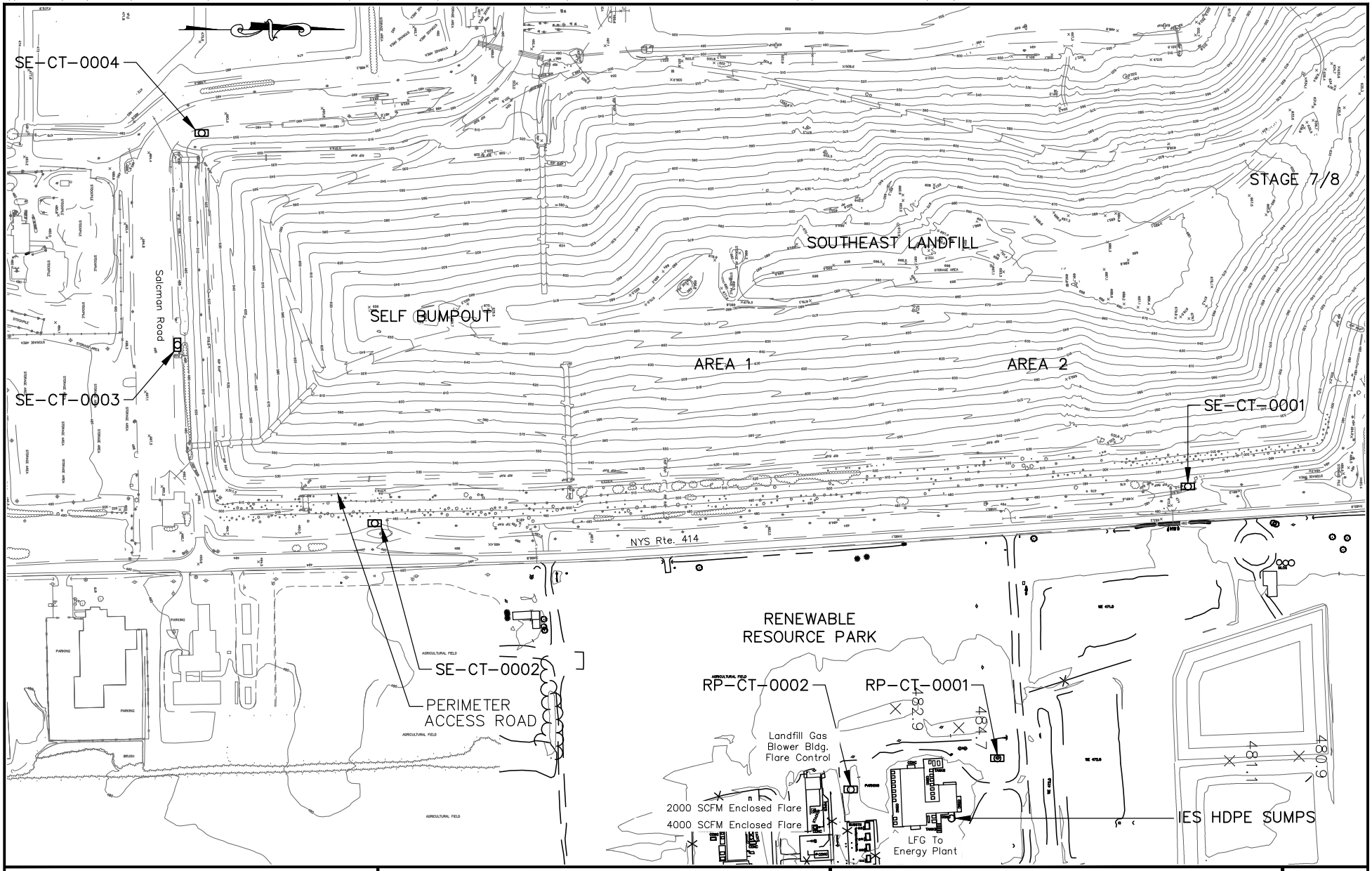
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

CONDENSATE TANK LOCATIONS
SMI LANDFILL

FIGURE
3-2

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_SELE-SBO_CONDENSATE TANK LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3-2A (8.5X11)



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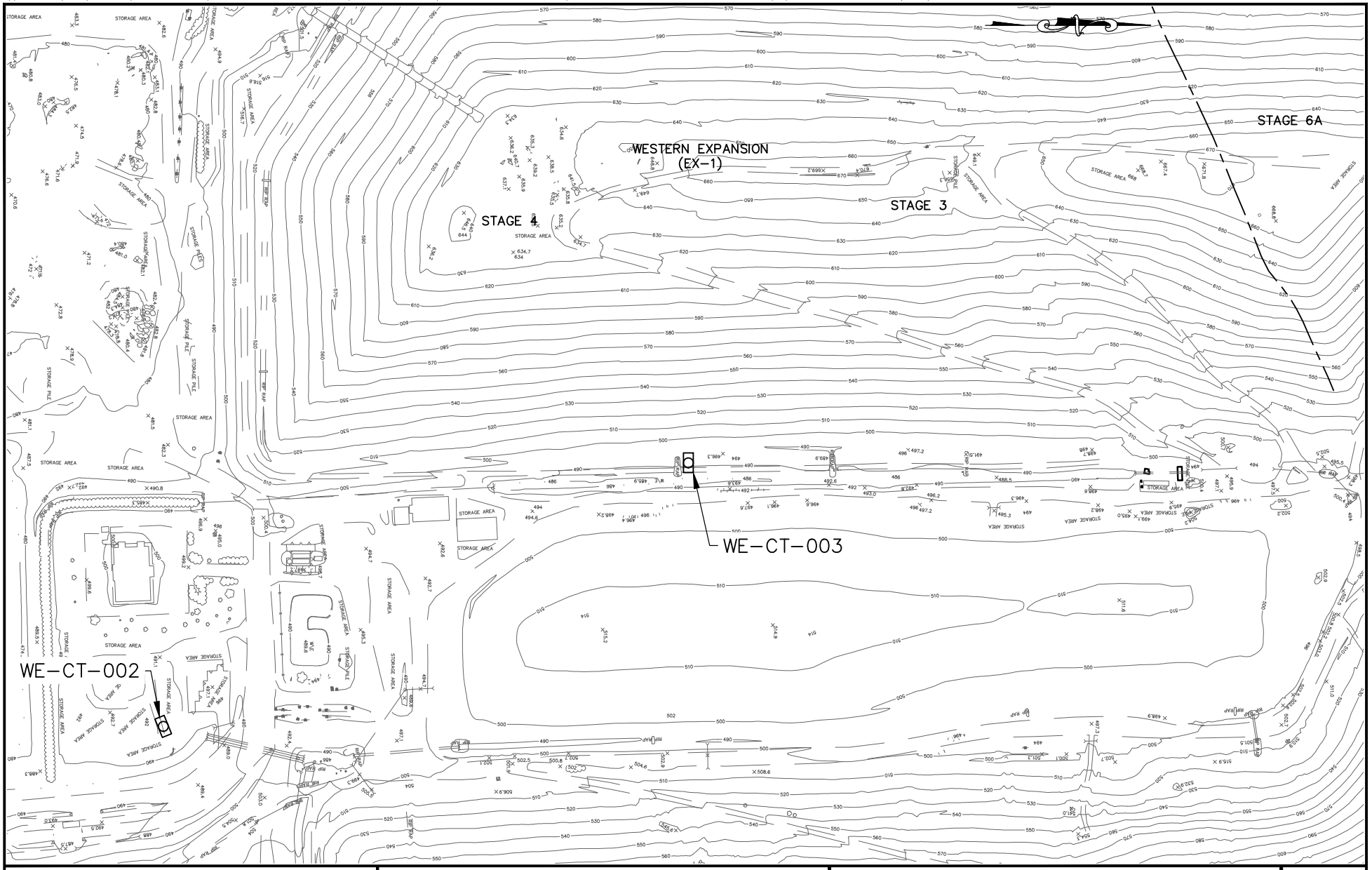
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

CONDENSATE TANK LOCATIONS
SOUTHEAST LANDFILL, SELF BUMPOUT
& RENEWABLE RESOURCE PARK

FIGURE
3-2a

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_WEX_CONDENSATE TANK LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3-2B (8.5X11)



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SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

CONDENSATE TANK LOCATIONS
WESTERN EXPANSION LANDFILL

FIGURE
3-2b

\\TTS628FS2\CEG2\PROJECTS\SENECA MEADOWS\4223113 – 2021 ANNUAL REPORT_PROJECT DRAWINGS\2021 ANNUAL REPORT FIGURES\2021_WEX 004_005_CONDENSATE TANK LOCATIONS.DWG 03/01/2022 LAYOUT: FIG 3-2C (8.5X11)

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SENECA MEADOWS LANDFILL
2021 ANNUAL REPORT
SENECA FALLS SENECA COUNTY NEW YORK

CONDENSATE TANK LOCATIONS
WESTERN EXPANSION LANDFILL

FIGURE
3-2c

TABLE 3-1. LEACHATE RECIRCULATION SUMMARY

TABLE 3-2. LEACHATE TREATED OFF-SITE

SENECA MEADOWS, INC.

2021 LEACHATE VOLUMES SUMMARY

Seneca Meadows, Inc.
2021 Annual Report
Table 3-1
Leachate Recirculation Summary

Date	Leachate Recirculated to Existing Landfill Spray Application (Gal)	Number of Loads Recirculated	Leachate Recirculated to SMI Injection Lines (Gal)	Number of Loads Recirculated	Leachate Recirculated to SELF Injection Lines (Gal)	Number of Loads Recirculated	Leachate Recirculated to SELF Spray Application (Gal)	Number of Loads Recirculated	Leachate Recirculated to SBO Spray Application (Gal)	Number of Loads Recirculated	Leachate Recirculated to SBO Injection Lines (Gal)	Number of Loads Recirculated	Leachate Recircukated to WEX Spray Application (Gal)	Number of Loads Recirculated	Leachate Recirculated to NEX Spray Application (Gal)	Number of Loads Recirculated
January	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Grand Total	**0**	**0**														

Note: No leachate was recirculated in 2021. This table is to be reserved for future leachate recirculation records.

Seneca Meadows Inc.
2021 Annual Report
Table 3-2
Leachate Treated Off-Site

Month	From Tank(s) To Chittenango (Gal)	From Tank(s) Steuben (Gal)	From Tank(s) To Watertown (Gal)	From Tank(s) To Passaic Valley (Gal)	From Tank(s) To BSA (Gal)	From Tank(s) To SF Sewer (Gal)*	Concentrate to PVSC	Total From Tank(s) / RO To POTW's (Gal)
January	117,940	69,083	641,486	158,594	4,258,526	1,007,184	0	**6,252,814**
February	99,033	50,880	614,221	113,555	2,952,878	1,172,146	164,355	**5,167,068**
March	94,630	105,294	664,646	127,406	3,244,468	1,607,523	327,655	**6,171,623**
April	90,682	122,911	665,421	140,021	2,011,119	1,620,991	351,326	**5,002,471**
May	98,853	122,349	642,151	122,239	2,444,374	1,218,841	325,459	**4,974,266**
June	132,024	104,157	755,246	132,799	2,724,318	1,399,656	340,214	**5,588,414**
July	90,583	35,409	704,063	106,514	3,765,690	1,640,059	327,250	**6,669,568**
August	99,201	34,722	719,593	106,642	3,680,691	1,649,485	291,609	**6,581,943**
September	115,711	78,074	712,340	301,031	3,810,620	1,571,211	371,461	**6,960,448**
October	90,472	51,317	674,715	403,000	4,915,548	1,530,635	48,835	**7,714,522**
November	107,209	0	640,550	323,610	4,943,682	1,480,766	0	**7,495,817**
December	115,672	8,477	733,299	307,411	5,192,752	1,666,189	51,751	**8,075,551**
Total	**1,252,010**	**782,673**	**8,167,731**	**2,342,823**	**43,944,666**	**17,564,687**	**2,599,915**	**76,654,505**

SENECA MEADOWS, INC.

CLEANING RECORDS

Seneca Meadows, Inc.

2021 Annual Report

Daily Line Cleaning Report

Date	Location	Line Segment (Sta. to Sta.)	Jetter Equipment Used	Pipe Diameter	Pipe Type	Total Length (Linear Footage)	Total Linear Footage Cleaned	No. of Passes	Total Water Used (Gallons)	Total Leachate Removed (Gallons)	Notes
05/17/21	NEX	CO11E	Football	8"	PVC	1250'	910'	2	10,000	0	
05/18/21	NEX	CO10E	Bulldog	8"	PVC	609'	609'	4	7,500	0	
05/18/21	NEX	CO9E	Standard	8"	PVC	600'	600'	2	2,500	0	
05/18/21	NEX	CO7E	Standard	8"	PVC	581'	581'	2	2,500	0	
06/08/21	NEX	CO5E	Bulldog	8"	PVC	935'	900'	4	5,000	9000	
06/08/21	NEX	CO3E	Bulldog	8"	PVC	1588'	900'	4	5,000	4500	
06/09/21	NEX	CO2N	Bulldog	8"	PVC	1169'	1169'	5	5,000	0	
06/09/21	NEX	CO1N	Forward Pusher	8"	PVC	300'	300'	1	1,000	4500	
06/11/21	NEX	CO8E	Forward Pusher	8"	PVC	225'	225'	many	2,000	4500	
06/11/21	NEX	CO1N	Forward Pusher	8"	PVC	300'	300'	many	5,000	9000	
04/27/21	SELF 1	CO14E	Standard	8"	PVC	1400'	1400'	6	5,000	0	
05/10/21	SELF 1	CO6E	Bulldog	8"	PVC	600'	650'	10	10,000	9000	
05/11/21	SELF 1	CO1E	Bulldog	8"	PVC	750'	750'	1	5,000	4500	
05/11/21	SELF 1	CO3E	Vibrator	8"	PVC	1500'	1500'	9	10,000	0	
05/12/21	SELF 1	CO3E	Bulldog	8"	PVC	1500'	1500'	5	15,000	0	
05/13/21	SELF 1	SE West Side	Bulldog	8"	PVC	750'	750'	5	5,000	4500	
05/13/21	SELF 1	CO3E	Vibrator	8"	PVC	1500'	1500'	2	5,000	0	
05/18/21	SELF 1	CO8E	Standard	8"	PVC	1487'	900'	3	2,500	0	
05/18/21	SELF 1	CO9E	Bulldog	8"	PVC	1476'	224'	1	2,500	0	
05/19/21	SELF 1	CO9E	Vibrator	8"	PVC	1476'	234'	4	5,000	0	
05/19/21	SELF 1	CO8E	Bulldog	8"	PVC	1487'	1460'	2	10,000	0	
06/01/21	SELF 1	CO2E	Standard	8"	PVC	1450'	920'	5	3050	0	
06/02/21	SELF 1	CO2E	Bulldog	8"	PVC	1450'	1197'	4	10000	0	
06/03/21	SELF 1	CO2E	Bulldog	8"	PVC	1450'	1450'	2	15000	0	
06/07/21	SELF 1	CO1E	Forward Pusher	8"	PVC	650'	650'	1	1,350	1350	
04/20/21	SBO	CO10E	Bulldog	8"	PVC	1025'	900'	5	15,000	0	
04/21/21	SBO	CO9E	Bulldog	8"	PVC	625'	625'	6	10,000	0	
04/25/21	SBO	CO1E	Bulldog	8"	PVC	1050'	900'	6	15,000	0	
04/27/21	SBO	CO5E	Standard	8"	PVC	1237'	1000'	6	5,000	0	
04/28/21	SBO	CO10E	Football	8"	PVC	1025'	900'	6	15,000	0	
05/13/21	SBO	CO2W	Vibrator	8"	PVC	650'	625'	7	500	0	
05/14/21	SBO	CO1W	Standard	8"	PVC	675'	675'	6	2,500	0	
05/14/21	SBO	CO1E	Bulldog	8"	PVC	1050'	775'	6	10,000	0	
05/17/21	SBO	CO1E	Football	8"	PVC	1050'	900'	1	5,000	0	
05/25/21	SBO	CO5E	Standard	8"	PVC	1025'	975'	6	10,000	0	
05/20/21	SBO	CO5E	Standard	8"	PVC	1025'	400'	1	1,000	0	
04/29/21	WEX3/4	CO12W	Chisle	8"	PVC	400'	400'	3	2,500	0	
04/29/21	WEX3/4	CO13W	Bulldog	8"	PVC	790'	800'	4	5,000	0	
05/03/21	WEX3/4	CO14S	Standard	8"	PVC	689'	700'	3	2,500	0	
05/03/21	WEX3/4	CO15S	Vibrator	8"	PVC	994'	900'	4	10,000	0	
05/04/21	WEX3/4	CO15S	Vibrator	8"	PVC	994'	900'	1	5000	0	
05/04/21	WEX3/4	CO154S	Standard	8"	PVC	689'	700'	1	2,500	0	
05/05/21	WEX3/4	CO14S	Standard	8"	PVC	689'	700'	1	2500	0	
05/05/21	WEX3/4	CO13W	Bulldog	8"	PVC	790'	800'	2	5,000	0	
05/05/21	WEX3/4	CO12W	Standard	8"	PVC	400'	400'	2	2500	0	
05/05/21	WEX3/4	CO6W	Bulldog	8"	PVC	1800'	800'	3	5000	0	
05/06/21	WEX3/4	CO6W	Bulldog	8"	PVC	1800'	920'	1	10,000	0	
05/07/21	WEX3/4	CO2W	Standard	8"	PVC	1350'	1350'	6	5,000	0	
05/26/21	WEX6	CO1W	Standard	8"	PVC	1200'	900'	3	1500	0	
05/26/21	WEX6	CO5W	Standard	8"	PVC	1250'	900'	3	1500	0	
05/26/21	WEX6	CO2W	Standard	8"	PVC	548'	590'	2	1100	0	
05/26/21	WEX6	CO8W	Standard	8"	PVC	454'	490'	1	1000	0	
05/26/21	WEX6	CO1W	Standard	8"	PVC	1200'	800'	1	2500	0	
05/27/21	WEX6	CO1W	Bulldog	8"	PVC	1200'	1200'	1	5,000	0	
05/27/21	WEX6	CO5W	Football	8"	PVC	1250'	1250'	1	5000	0	
06/01/21	WEX6	CO4W	Standard	8"	PVC	600'	800'	4	1,500	0	
06/01/21	WEX6	CO6W[2]	Standard	8"	PVC	420'	420'	3	1000	0	
06/01/21	WEX6	CO7W[3]	Forward Pusher	8"	PVC	328'	328'	2	500	0	
06/01/21	WEX6	CO8W[1]	Standard	8"	PVC	454'	454'	2	500	0	
06/01/21	WEX6	CO3W	Forward Pusher	8"	PVC	273'	273'			0	
11/02/21	SBO	7E - 10E	Standard	8	HDPE	631	631	2	1,000		
11/02/21	SBO	4E - 1E	Standard	8	HDPE	600	740	2	800		
11/02/21	SBO	3E - 8E	Standard	8	HDPE	260	320	2	400		
11/02/21	SBO	8E - 3E	Standard	8	HDPE	260		2			
11/02/21	SBO	2E - 1E	Standard	8	HDPE	600		2			
11/03/21	SELF	5E- 5W	Medium Bomb	8	HDPE	1510	1000	2	1,200		
11/03/21	SELF	5E- 5W	Standard	8	HDPE	1510	1000	2	1,200		
11/03/21	SELF	5E- 5W	Standard	8	HDPE	1510	1510	2	1,800		
11/04/21	SELF	10E -10w	NA	8	HDPE			8			
11/04/21	SELF	4E - 4W	Standard	8	HDPE	1500	200	8	600		

Seneca Meadows, Inc.

2021 Annual Report

Daily Line Cleaning Report

Date	Location	Line Segment (Sta. to Sta.)	Jetter Equipment Used	Pipe Diameter	Pipe Type	Total Length (Linear Footage)	Total Linear Footage Cleaned	No. of Passes	Total Water Used (Gallons)	Total Leachate Removed (Gallons)	Notes
11/04/21	NEX	11E - Burried Flange	Bulldog	8	HDPE	1500	300	8			
11/05/21	NEX	11E - Burried Flange	Bulldog	8	HDPE	1500	475	40	9,000		
11/09/21	Tantalo	wetwell to 10	Standard	6	PVC	420	420	2	2,000	NA	
11/09/21	Tantalo	10 to 8	Standard	6	PVC	900	940	2	2,000	NA	
11/09/21	Tantalo	8 to 9	Standard	6	PVC	900	940	2	2,000	NA	
11/09/21	NEX	11E-FLG	Multiple	8	PVC	1500	450	20	5,000	NA	
11/10/21	SELF	West haul leachate drain	Standard Flusher	8	HDPE	680	680	2	2,000	2500	
11/11/21	SELF	1E	Bulldog	8	HDPE	750	750	4	6,000	NA	
11/12/21	Tantalo	2W - 1W	Standard	8	PVC	870	870	2	2,000	NA	
11/12/21	Tantalo	4W-2W	Standard	8	PVC	970	970	2	2,000	NA	
11/12/21	Tantalo	6 - Wetwell	Standard	8	PVC	150	150	2	2,000	NA	
11/12/21	Tantalo	Wetwel l- 6w	Standard	8	PVC	250	250	2	2,000	NA	
11/15/21	WEX	7W-FLG	Bulldog/Standard	8"	PVC/HDPE	612	668	4	1,200		
11/15/21	WEX	11w-13-w	Standard	8"	PVC/HDPE	390	412	2	3,000		
11/15/21	WEX	8W-13W	Standard	8"	PVC/HDPE	228	250	2	1,200		
11/15/21	WEX	9W-FLG	Bulldog/Standard	8"	PVC/HDPE	516	410	8	3,200		
11/16/21	WEX	6W-E	Standard/Bulldog/ Med. Bomb	8"	PVC/HDPE	1258	920	18	15,000		
11/17/21	WEX	6W-E	Knocker/Bomb	8"	PVC/HDPE	1258	1000	3	20,000		
11/18/21	WEX	6W-E	Bomb	8"	PVC/HDPE	1258	1238	2	17,000	NA	
11/19/21	WEX	5W	Standard	8	PVC/HDPE	234	234	2	500		
11/19/21	WEX	4W	Standard	8	PVC/HDPE	640	660	2	500		
11/20/21	WEX	3W	Bullet	8	HDPE	1804	200	2	150		
11/20/21	WEX	3w	Standard	8	HDPE	1804	200	2	500	NA	
11/20/21	WEX	2W	Standard	8	HDPE	1353	1360	2	4,500	NA	
11/22/21	WEX	3W	Bulldog	8	HDPE	1804	1000	2	4,500		
11/22/21	WEX	3W	Bulldog	8	HDPE	1804	200	2	2,800		
11/23/21	NW RETENTION POND	POND 2 -3	Bulldog	36		`200	30'	40	6,500		
11/24/21	WEX	WEX 6B 3W (P)	Bulldog	8	HDPE	273	280	6	1,000		
11/24/21	WEX	WEX 5A 6W	Bulldog	8	HDPE	420	420	2	2,000		
11/24/21	WEX	WEX 5A 1W	Bulldog	8	HDPE	200	200	2	1,000		
11/29/21	WEX	3W	Bulldog/Standard	8	HDPE	1804	1260	6	10,000		
11/30/21	WEX	13W	Bulldog	8	HDPE	790	830	2	1,400		
12/01/21	SBO	1E	Bulldog	8	HDPE	1045	1076	2	4,200		
12/01/21	SBO	1E	Bulldog	8	HDPE	1045	800	2	1,000		
12/01/21	SBO	1E	Bulldog	8	HDPE	1045	710	2	1,000		
12/02/21	SBO	1E	Bulldog	8	HDPE	1045	1045	30	15,000		
12/04/21	SBO	13E	Bulldog	8	HDPE	1028	1028	8	6,000		
12/06/21	SBO	10E	Bulldog	8	HDPE	1028	1040	2	3,000		
12/06/21	NEX	11E	Bulldog	8	HDPE	1450	550	6	5,000		
12/07/21	NEX	5E	Bulldog	8	HDPE	935	935	4	4,000		
12/07/21	NEX	7E TO 9E	Bulldog	8	HDPE	581	1065	4	4,000		
12/07/21	NEX	8E	Bulldog	8	HDPE	219	219	2	2,000		
12/08/21	NEX	11E	Bulldog	8	HDPE	1450	380	6	3,900		
12/08/21	NEX	11E	Bulldog	8	HDPE	1450	500	4	5,000		
12/09/21	WEX	3E	Chisle	8	HDPE	1804	850	6	9,750		
12/09/21	WEX	3E	Torpedo	8	HDPE	1804	1050	2	1,100		
12/13/21	NEX	10E	Bulldog	8	HDPE	600	630	4			
12/13/21	WEX	3W EASTSIDE	Bulldog	8	HDPE	1804					
12/13/21	WEX	3W EASTSIDE	Bulldog	8	HDPE	1804	550	8	6,500		
12/14/21	WEX	WEX 3W EASTSIDE ENTRY	Knocker	8	HDPE	1803	140'		1,000		
12/14/21	WEX	WEX 3W EASTSIDE ENTRY	Torpedo	8	HDPE	1803	680	6	3,000		
12/14/21	WEX STAGE 6A	WEX STAGE 6 2W(P)	Torpedo	8	HDPE	548	580	6	3,500		

Seneca Meadows, Inc.

2021 Annual Report

Daily Line Cleaning Report

Date	Location	Line Segment (Sta. to Sta.)	Jetter Equipment Used	Pipe Diameter	Pipe Type	Total Length (Linear Footage)	Total Linear Footage Cleaned	No. of Passes	Total Water Used (Gallons)	Total Leachate Removed (Gallons)	Notes
12/14/21	WEX STAGE 6	WEX STAGE 6B(P)	Torpedo	8	HDPE	615	900	4	2,000		
12/15/21	SELF	2E	Torpedo	8	HDPE	1414	1200	6	5,000		
12/16/21	WEX	STAGE 6 WESRS-6	Bulldog/Vacuum Truck	8	HDPE	210	210	20	6,000	4500	
12/16/21	SELF	2E	Bulldog	8	HDPE	1414	1000	2	1,500		
12/16/21	NEX	11E	Bulldog	8	HDPE	1804	300	2	500		
12/17/21	SELF	2E	Bulldog	8	HDPE	1414	1100	8	6,000		
12/17/21	SELF	WEST SIDE TOE DRAIN	Bulldog	8	HDPE	680	680	8	3,000	3500	
12/20/21	SELF	WEST SIDE TOE DRAIN	Bulldog	8	HDPE	680	680	4	3,100		
12/20/21	SELF	WEST SIDE TOE DRAIN	Knocker	8	HDPE	680	680	4	3,100	3000	
12/21/21	NEX	3E	Bulldog	8	HDPE	1500	1256	2	5,000		
12/27/21	SELF	2W	Wobbler	8	HDPE	1414	400	4	1,000		
12/27/21	SELF	3W	Wobbler	8	HDPE	1419	400	4	2,000		
12/27/21	SELF	2E	Wobbler/Flusher/Chisle	8	HDPE	1414	400	6	7,200		
12/28/21	SELF	2E	Bulldog	8	HDPE	1414	1100	6	5,000		
12/28/21	SELF	3E	Bulldog/Penetrator /Standard/Chisle/Spinner	8	HDPE	1418	1100	10	10,000		
12/29/22	SELF	WESTSIDE TOE DRAIN	Standard/Vacuum Truck	8	HDPE	700	700	4	6,000		
12/29/22	SELF	6E	Standard/Vacuum Truck	8	HDPE	700	700	2	2,250		

SENECA MEADOWS, INC.

LEACHATE AND GAS CONDENSATE REPORT

2021 ANNUAL REPORT

LEACHATE AND GAS CONDENSATE REPORT

2021 ANNUAL REPORT

SENECA MEADOWS SOLID WASTE MANAGEMENT FACILITY

WASTE CONNECTIONS, INC.
Connect with the Future®

FEBRUARY 2022

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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EXECUTIVE SUMMARY

The monitoring of leachate and gas condensate was conducted at the Seneca Meadows Solid Waste Management Facility, Seneca Falls, New York, during 2021 in compliance with an Environmental Monitoring Plan (EMP) and Site Analytical Plan (SAP).

Leachate samples were collected from above the primary liner systems of all lined fill areas at the facility, from leachate recovery wells on the Existing Landfill, and from drains that service the A/B Overfill Area of the Existing Landfill and the previous SM-11 disposal area. Samples of liquid from the secondary liner systems of each lined fill area were also collected. Composite samples of gas condensate were collected from various storage tanks at the facility.

The sampling of leachate, secondary liquids, and gas condensate was conducted semi-annually during the second and fourth quarters. Liquids collected from secondary liner systems were also sampled during the first and third quarters.

The semi-annual samples (second and fourth quarters) were analyzed for the expanded list of chemical parameters (minus dioxins and furans) identified in 6 NYCRR Part 360-2.11(d)(6), which includes general chemistry parameters, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), herbicides, and pesticides. The secondary liquid samples collected during the first and third quarters were analyzed for the baseline list of parameters, which includes general chemistry parameters, metals, and VOCs.

Stiff and Piper diagrams of the leachate and gas condensate samples revealed cation compositions dominated by sodium and anion compositions consisting mainly of chloride and bicarbonate.

The analytical results showed that most general chemistry parameters except hexavalent chromium, total cyanide, nitrate, and sulfide were elevated in the leachate and gas condensate samples relative to naturally-occurring

groundwater at the site. Arsenic, boron, chromium, iron, magnesium, potassium, and sodium were also elevated. Aluminum, barium, cobalt, nickel, vanadium, and zinc were slightly elevated relative to groundwater concentrations. Antimony, beryllium, cadmium, copper, lead, mercury, selenium, silver, thallium, and tin were found at low or non-detect levels.

Volatile organic compounds (VOCs) detected in the leachate samples consisted mainly of acetone and 2-butanone. 4-Methyl-2-pentanone, toluene, and xylenes were detected at low levels in a few samples. Semi-volatile organic compounds (SVOCs), mainly BEHP and phenolic compounds, were detected at moderate to elevated concentrations. Several additional SVOCs were detected in a few samples at low levels. Endosulfan 1, a pesticide, was detected at low levels in several samples. Other pesticides such as beta-BHC, 4,4'DDT, and heptachlor were detected at low levels in a few samples. The herbicides 2,4-D and 2,4,5-TP were detected in a few samples at low levels. Aroclor 1232, a PCB compound, was detected in one sample.

By comparison to the leachate samples, the gas condensate samples exhibited lower values for many of the general chemistry parameters. Hexavalent chromium, nitrate, and sulfide were not detected in the samples. In addition, beryllium, cadmium, cobalt, copper, lead, nickel, selenium, silver, thallium, tin, and vanadium were not detected in either of the two semi-annual condensate samples. The concentrations of aluminum, antimony, arsenic, iron, zinc, and mercury concentrations were moderate to elevated.

Fewer organic compounds were detected in the gas condensate samples as compared to the leachate samples. Acetone, 2-butanone, and phenolic compounds were the dominant organic compounds in the gas condensate samples, and on average, were higher in the gas condensate samples than in the leachate samples. A trace of endosulfan 1, a pesticide, was detected in one sample. No herbicides or PCBs were detected in the samples.

Samples collected from the west end of the SM-11 drain were substantially more dilute than the leachate samples,

but continue to show slight exceedances of the groundwater standards for a few analytes.

The chemical data and Stiff diagrams for each secondary sampling location showed no signs of impacts from primary leachate except for sideriser sump ABSRS-2(S), which was temporarily impacted by primary leachate during construction in 2017. Evaluations of analytical data for samples of porewater from beneath the secondary liner systems also showed no indications that the integrity of the liners had been compromised.

The volumes of leachate and gas condensate collected during 2021 at various sumps and storage tanks at the solid waste facility were recorded monthly and are provided in this report.

1.0 INTRODUCTION

This report summarizes the results of leachate and landfill gas condensate monitoring conducted at the Seneca Meadows Solid Waste Management Facility, Seneca Falls, New York, during 2021.

Leachate and gas condensate monitoring at the landfill is conducted for the purposes of:

- Characterizing leachate and gas condensate quality,
- Monitoring the quantities of leachate and gas condensate generated at the facility, and
- Evaluating the integrity of landfill liner systems.

Leachate and gas condensate monitoring consists of the semi-annual sampling and analyzing of leachate generated above the primary liners of lined landfills at the facility (i.e., the A/B area of the Existing Landfill, the Southeast Landfill, the Southeast Landfill Bumpout, the Western Expansion Landfill, and the Northern Expansion Landfill), from leachate recovery wells that surround the Existing Landfill, and from gas condensate collected at each of the landfills and the Renewable Resource Recovery Facility. Liquid collected from the secondary liner systems of the lined landfills is sampled and analyzed quarterly.

In addition, drainage from the west end of the SM-11 drain located along the southern boundary of the Existing Landfill is sampled as part of the leachate monitoring program. The SM-11 drain was installed to capture and dispose of shallow groundwater drained from an area south of the Existing Landfill where waste was previously removed (known as the SM-11 area). The drainage is sampled to monitor the leaching of residual contaminants by shallow groundwater flow.

Leachate, secondary liquid, and gas condensate are monitored semi-annually during the second and fourth quarters of the year (April and October) and are analyzed for the 6 NYCRR Part 360 list of expanded chemical parameters (minus dioxins and furans), which includes field parameters, general chemistry parameters, metals, volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides, and herbicides.

In addition to the semi-annual events, liquids collected from the secondary liner systems are also sampled during the first and third quarters of the year (January and July). The first and third quarter samples are analyzed for the Part 360 list of baseline chemical parameters, which includes field parameters, general chemistry parameters, metals, and VOCs. The analytical data obtained from the secondary liner systems are used to assess the performance of the primary liner systems.

Stiff and Piper diagrams were used to define the general chemical characteristics of the leachate and gas condensate samples. The analytical results were also reviewed to identify chemical parameters that were substantially elevated relative to non-contaminated groundwater at the facility. Parameters exhibiting elevated concentrations were identified as possible indicators of impacts to groundwater and surface water at the facility.

In addition to monitoring leachate chemical quality, the quantity of leachate generated by the facility is also monitored. Leachate collected from the liner systems of lined landfills at the facility (i.e., all areas except the Existing Landfill) and from leachate recovery wells at the Existing Landfill is pumped by an automated system through a dual containment forcemain to two on-site 500,000-gallon leachate storage tanks. A site-wide Supervisory Control and Data Acquisition (SCADA) system tabulates the daily and year-to-date volumes of leachate generated by various sources at the facility. The volume data are included in the semi-annual monitoring reports and are summarized in this report.

Gas recovered from the landfills is conveyed along a header to an electrical generating facility and gas flares. Condensate formed during the conveyance is collected at holding tanks located on the Seneca Meadows facility and at

the Renewable Resource Recovery Facility. The tanks are pumped on a routine basis and the condensate is transported to the leachate storage tanks for disposal at a wastewater treatment facility or processing through SMI's reverse osmosis treatment system. The volumes of condensate generated at the facility are recorded monthly and reported with the leachate quantities.

The results of the 2021 monitoring, including the analytical data, are discussed in separate semi-annual reports and are available for review at the offices of Seneca Meadows, Inc. and the Region 8 Office of the New York State Department of Environmental Conservation, Avon, New York. The purpose of this annual report is to summarize the findings of the semi-annual reports.

2.0 SAMPLING AND ANALYSIS

2.1 SAMPLE LOCATIONS

The leachate and gas condensate samples collected during the 2021 monitoring events are listed in Table 2-1. The sampling locations are shown in Figure 2-1.

2.2 COMPLIANCE

Monitoring of leachate and gas condensate was conducted in compliance with the methods and procedures described in the Environmental Monitoring Plan (EMP) and the Site Analytical Plan (SAP) for the Seneca Meadows Solid Waste Management Facility. Sampling and analysis of leachate and gas condensate was conducted semi-annually by ALS Environmental, Rochester, NY. Secondary liquids were sampled and analyzed quarterly. The analytical results were evaluated in monitoring reports filed with the NYSDEC's Region 8 Office following each semi-annual monitoring event.

Table 2-1

Leachate and Gas Condensate Sample Summary

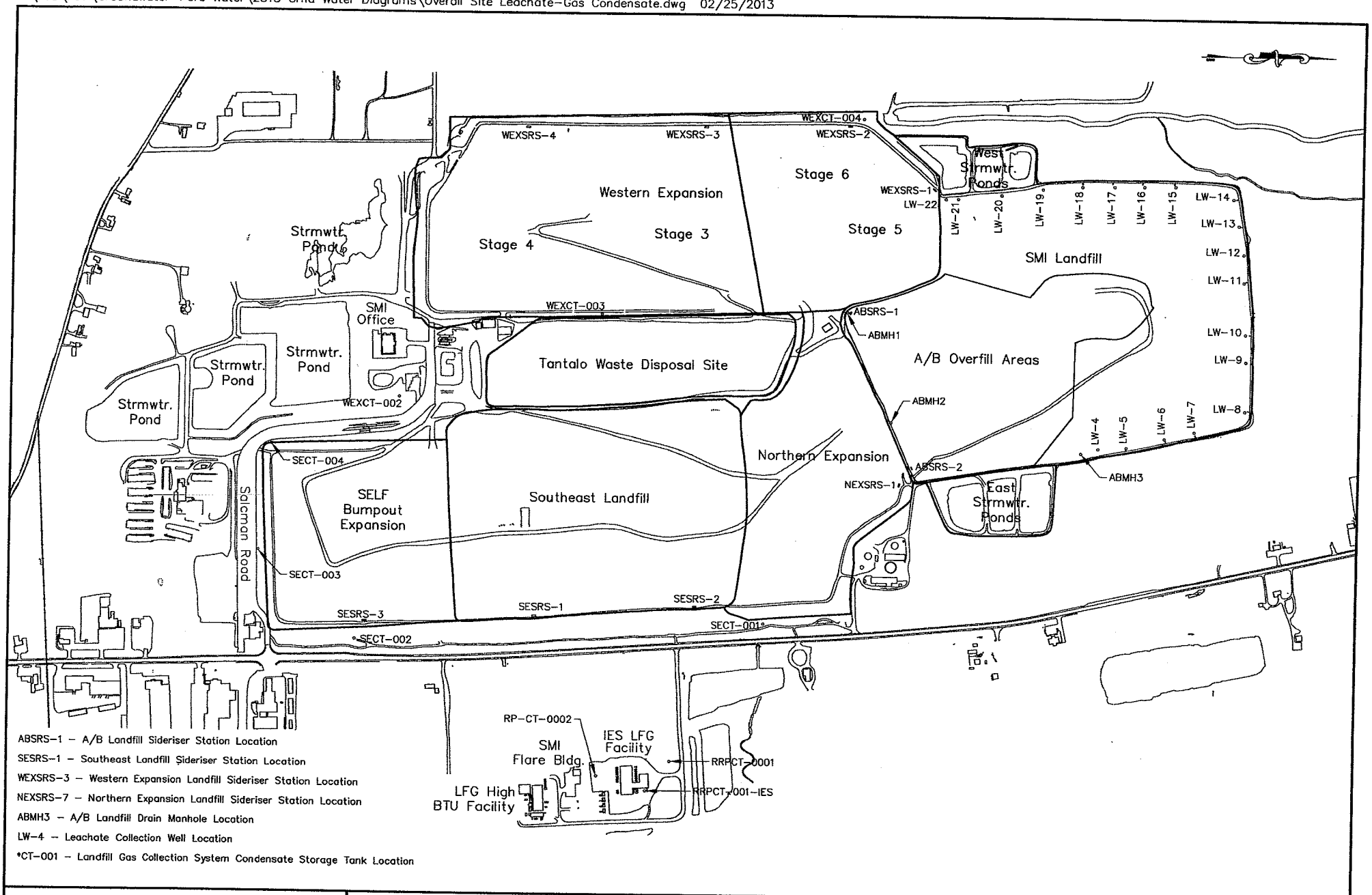
Sample Number	Description	Location
1st Quarter 2021		
ABSRS-1(S)	Liquid / Secondary liner system	A/B Overfill Area 1
ABSRS-2(S)	Liquid / Secondary liner system	A/B Overfill Area 2
NEXSRS-7(S)	Liquid / Secondary liner system	Northern Expansion Area
SESRS-1(S)	Liquid / Secondary liner system	Southeast Landfill Area 1
SESRS-2(S)	Liquid / Secondary liner system	Southeast Landfill Area 2
SESRS-3(S)	Liquid / Secondary liner system	Southeast Landfill Bumpout
WEXSRS-1(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-2(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-3(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-4(S)	Liquid / Secondary liner system	Western Expansion Area
2nd Quarter 2021		
ABSRS-1(P)	Leachate / Primary liner system	A/B Overfill Area 1
ABSRS-1(S)	Liquid / Secondary liner system	A/B Overfill Area 1
ABSRS-2(P)	Leachate / Primary liner system	A/B Overfill Area 2
ABSRS-2(S)	Liquid / Secondary liner system	A/B Overfill Area 2
NEXSRS-7(P)	Leachate / Primary liner system	Northern Expansion Area
NEXSRS-7(S)	Liquid / Secondary liner system	Northern Expansion Area
SESRS-1(P)	Leachate / Primary liner system	Southeast Landfill Area 1
SESRS-1(S)	Liquid / Secondary liner system	Southeast Landfill Area 1
SESRS-2(P)	Leachate / Primary liner system	Southeast Landfill Area 2
SESRS-2(S)	Liquid / Secondary liner system	Southeast Landfill Area 2
SESRS-3(P)	Leachate / Primary liner system	Southeast Landfill Bumpout
SESRS-3(S)	Liquid / Secondary liner system	Southeast Landfill Bumpout
WEXSRS-1(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-1(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-2(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-2(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-3(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-3(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-4(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-4(S)	Liquid / Secondary liner system	Western Expansion Area
LW-4	Leachate Recovery Well	Existing Landfill
LW-8	Leachate Recovery Well	Existing Landfill
LW-12	Leachate Recovery Well	Existing Landfill
LW-16	Leachate Recovery Well	Existing Landfill
LW-20	Leachate Recovery Well	Existing Landfill
T-008	Gas condensate tank	Existing Landfill
SE CT-001	Gas condensate (Tank #1)	Southeast Landfill
SE CT-002	Gas condensate (Tank #2)	Southeast Landfill Bumpout
SE CT-003	Gas condensate (Tank #2)	Southeast Landfill Bumpout
SE CT-004	Gas condensate (Tank #2)	Southeast Landfill Bumpout
WE CT-001	Gas Condensate (Tank #1)	Western Expansion Area
WE CT-002	Gas Condensate (Tank #2)	Western Expansion Area
RRPCT1	Gas condensate (Tank #1)	Renewable Resource Recovery Fac.
RRPCT2	Gas condensate (Tank #2)	Renewable Resource Recovery Fac.
RRPCT1-IES	Gas condensate (Tank #1)	Renewable Resource Recovery Fac.
SM-11W	West end of SM-11 drain	SM-11 area

Table 2-1 Contined)

Leachate and Gas Condensate Sample Summary

Sample Number	Description	Location
3rd Quarter 2021		
ABSRS-1(S)	Liquid / Secondary liner system	A/B Overfill Area 1
ABSRS-2(S)	Liquid / Secondary liner system	A/B Overfill Area 2
NEXSRS-7(S)	Liquid / Secondary liner system	Northern Expansion Area
SESRS-1(S)	Liquid / Secondary liner system	Southeast Landfill Area 1
SESRS-2(S)	Liquid / Secondary liner system	Southeast Landfill Area 2
SESRS-3(S)	Liquid / Secondary liner system	Southeast Landfill Bumpout
WEXSRS-1(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-2(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-3(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-4(S)	Liquid / Secondary liner system	Western Expansion Area
4th Quarter 2021		
ABSRS-1(P)	Leachate / Primary liner system	A/B Overfill Area 1
ABSRS-1(S)	Liquid / Secondary liner system	A/B Overfill Area 1
ABSRS-2(P)	Leachate / Primary liner system	A/B Overfill Area 2
ABSRS-2(S)	Liquid / Secondary liner system	A/B Overfill Area 2
NEXSRS-7(P)	Leachate / Primary liner system	Northern Expansion Area
NEXSRS-7(S)	Liquid / Secondary liner system	Northern Expansion Area
SESRS-1(P)	Leachate / Primary liner system	Southeast Landfill Area 1
SESRS-1(S)	Liquid / Secondary liner system	Southeast Landfill Area 1
SESRS-2(P)	Leachate / Primary liner system	Southeast Landfill Area 2
SESRS-2(S)	Liquid / Secondary liner system	Southeast Landfill Area 2
SESRS-3(P)	Leachate / Primary liner system	Southeast Landfill Bumpout
SESRS-3(S)	Liquid / Secondary liner system	Southeast Landfill Bumpout
WEXSRS-1(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-1(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-2(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-2(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-3(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-3(S)	Liquid / Secondary liner system	Western Expansion Area
WEXSRS-4(P)	Leachate / Primary liner system	Western Expansion Area
WEXSRS-4(S)	Liquid / Secondary liner system	Western Expansion Area
ABMH 1	AB Manhole 1	A/B Overfill Area/Existing Landfill
LW-5	Leachate Recovery Well	Existing Landfill
LW-9	Leachate Recovery Well	Existing Landfill
LW-13	Leachate Recovery Well	Existing Landfill
LW-17	Leachate Recovery Well	Existing Landfill
LW-21	Leachate Recovery Well	Existing Landfill
T-008	Gas condensate	Existing Landfill
SE CT-001	Gas condensate (Tank #1)	Southeast Landfill
SE CT-002	Gas condensate (Tank #2)	Southeast Landfill Bumpout
SE CT-003	Gas condensate (Tank #2)	Southeast Landfill Bumpout
SE CT-004	Gas condensate (Tank #2)	Southeast Landfill Bumpout
WE CT-001	Gas Condensate (Tank #1)	Western Expansion Area
WE CT-002	Gas Condensate (Tank #2)	Western Expansion Area
RRPCT1	Gas condensate	Renewable Resource Recovery Fac.
RRPCT2	Gas condensate (Tank #2)	Renewable Resource Recovery Fac.
RRPCT1-IES	Gas condensate	Renewable Resource Recovery Fac.
SM-11W	West end of SM-11 drain	SM-11 area

S:\L03\P67\Groundwater-Pore Water\2013 Grnd Water Diagrams\Overall Site Leachate-Gas Condensate.dwg 02/25/2013



ABSRS-1 – A/B Landfill Sideriser Station Location

SESRS-1 – Southeast Landfill Sideriser Station Location

WEXSRS-3 – Western Expansion Landfill Sideriser Station Location

NEXSRS-7 – Northern Expansion Landfill Sideriser Station Location

ABMH3 – A/B Landfill Drain Manhole Location

LW-4 – Leachate Collection Well Location

*CT-001 – Landfill Gas Collection System Condensate Storage Tank Location

IESI SENECA MEADOWS LANDFILL
SENECA MEADOWS. INC.
1786 SALCMAN ROAD
WATERLOO, NEW YORK 13165

LEACHATE AND GAS CONDENSATE SAMPLING LOCATIONS AT THE SMI SOLID WASTE MANAGEMENT FACILITY

0 500 1000
Scale In Feet

FIGURE
2-1

2.3 COMPLETENESS

The EMP specifies the locations at which leachate samples are to be collected during each leachate monitoring event. These locations include sumps that collect leachate from above the primary liner systems of lined landfills and secondary liquids from the secondary liner systems, 19 leachate recovery wells that surround the west, north, and east sides of the Existing Landfill, and three manholes that access the A/B drain of the A/B Overfill Area of the Existing Landfill (see Figure 2-1).

A sub-set of the 19 leachate recovery wells and three manholes at the Existing Landfill were scheduled for sampling during each semi-annual event (see Table 2-1). The locations sampled were those specified in the EMP.

In addition to the leachate samples, a composite sample of gas condensate was collected at designated storage tanks during each semi-annual event.

During both semi-annual events, complete samples were collected from the locations specified in the EMP.

2.4 LABORATORY ANALYSIS

The leachate samples were collected as whole, unfiltered grab samples. The gas condensate samples were collected as one sample composited from individual grab samples collected at each of the storage tanks listed in Table 2-1.

The leachate and gas condensate samples were analyzed for the expanded list of chemical parameters (minus dioxins and furans) provided in the 6 NYCRR Part 360 water quality analysis tables following USEPA/SW-846 methods. The analytical results were provided in USEPA Tier 2 format (NYSDEC ASP Category A format).

3.0 SUMMARY OF RESULTS

3.1 LEACHATE QUALITY

Summary statistics of the analytical data obtained for the leachate and gas condensate samples from both semi-annual sampling events of 2021 are provided in Appendix A. The summary statistics for leachate were computed using data obtained for 31 samples collected from the Existing Landfill leachate recovery wells and from the primary liner systems of the lined landfills during both semi-annual events. These samples represent the higher strength leachate collected at the facility. The analytical results are discussed briefly in the following sections.

3.1.1 Field Parameters

The field measurements taken during both semi-annual sampling events show pHs ranging from slightly acidic (6.57) to slightly alkaline (8.12) with an average pH of 7.28. Oxidation-reduction (redox) potentials ranged from reducing (-329 mV) to mildly reducing (1 mV) with an average value of --124 mV. Specific conductivities ranged widely from 536 to 55,005 μmhos/cm, and on the average were high (24,806 μmhos/cm). Sample turbidities also ranged from 0.7 to 63.1 nephelometric turbidity units (NTU) and on the average were relatively low (11 μmhos/cm).

3.1.2 General Chemistry

Most of the general chemistry parameters listed in Appendix A are elevated relative to concentrations commonly found in naturally-occurring groundwater at the facility and are also elevated relative to the NYSDEC Class GA groundwater standards.

The general chemistry parameters that constitute the major portion of the leachate total dissolved solids (TDS) content, ranked from high to low concentration, follow the order:

alkalinity > chloride > ammonia > sulfate

Parameters that were rarely detected or detected at low concentrations include hexavalent chromium, total cyanide, nitrate, and sulfide.

3.1.3 Metals

Metals in the leachate samples exhibiting elevated concentrations relative to natural groundwater at the facility include arsenic, boron, chromium, iron, magnesium, potassium, and sodium.

The metals that typically constitute the greatest portion of the TDS content, ranked from high to low concentration, follow the order:

sodium > potassium > magnesium > calcium

Metals exhibiting slightly elevated concentrations in leachate relative to local, natural groundwater include aluminum, barium, cobalt, nickel, vanadium, and zinc.

Copper and lead were rarely detected. Antimony, beryllium, cadmium, mercury, selenium, silver, thallium, and tin were not detected.

3.1.4 Organic Compounds

Organic compounds detected in the leachate samples are also listed in Appendix A.

Volatile organic compounds (VOCs) detected in the leachate samples consist mainly of acetone and 2-butanone (a.k.a. methyl ethyl ketone or MEK). Additional VOCs including 4-methyl-2-pentanone, toluene, and m,p-xylenes were detected at much lower concentrations in one sample.

Several semi-volatile organic compounds (SVOCs) were also detected in the samples. Phenolic compounds (3+4 methylphenol and phenol) were detected in many of the

samples and at higher concentrations than the other detected SVOCs.

The pesticide endosulfan 1 was detected in several samples. Other pesticides including beta-BHC, 4,4'DDT, and heptachlor were detected in a few samples. Two herbicides (2,4-D and 2,4,5-TP) were detected at low concentrations in a few samples. Aroclor 1232, a PCB, was detected in one sample.

3.2 GAS CONDENSATE QUALITY

Summaries of the analytical results for the two semi-annual gas condensate samples are provided in Appendix A and are discussed in the following sections.

Equal volumes of gas condensate from the various condensate holding tanks at the SMI facility were composited into one sample during each semi-annual sampling event. Each sample therefore provides an "average" of the condensate chemistry for each event.

3.2.1 Field Parameters

As compared to the leachate samples, on average the gas condensate samples exhibited lower conductivities and similar pHs. The oxidation-reduction potentials (ORPs) and turbidities of the condensate were much higher.

3.2.2 General Chemistry

By comparison to the leachate samples, the gas condensate samples exhibited lower values for alkalinity, ammonia, bromide, chloride, hardness, and TDS and higher values for BOD, TOC, COD, total phenolics, and sulfate. Hexavalent chromium, nitrate, and sulfide were not detected in the condensate samples.

The concentrations of the major general chemistry parameters follow the order:

alkalinity > ammonia > chloride > sulfate

3.2.3 Metals

The concentrations of major metals in the condensate are substantially lower than those found in the leachate and follow the order:

sodium > calcium > potassium > magnesium

By comparison to the leachate samples, the gas condensate samples showed slightly higher detections of arsenic, iron, and manganese. Antimony and mercury, which were not detected in the leachate samples, were detected in the condensate.

The gas condensate samples showed fewer overall detections of metals than the leachate samples. Beryllium, cadmium, cobalt, copper, lead, nickel, selenium, silver, thallium, tin, and vanadium were not detected in either of the semi-annual condensate samples.

3.2.4 Organic Compounds

Fewer organic compounds were detected in the condensate samples as compared to the leachate samples. However, the concentrations of acetone and 2-butanone were substantially higher in the condensate. In addition, isobutyl alcohol, which was not detected in the leachate samples, was found at a high concentration in one of the condensate samples.

One pesticide (endosulfan 1) was detected at a low level in one of the condensate samples. No PCBs or herbicides were detected in either of the condensate samples.

3.3 SM-11 DRAIN SAMPLES

The semi-annual monitoring results for the samples collected from the SM-11 drain (SM-11 West) are provided in Appendix B. Although these samples are included with the semi-annual leachate and gas condensate monitoring, the historical analytical data for the SM-11 drain samples shows a chemistry that is more similar to groundwater at the facility

than leachate. Thus, the results are discussed separately in this report.

In general, the results for the SM-11 drain samples are substantially more dilute than the leachate samples. However, as shown in Appendix B, exceedances of the NYSDEC Class GA groundwater standards occurred for ammonia, TDS, and turbidity in both semi-annual samples and for sulfate in the second quarter sample.

The metals data show exceedances of the standards for arsenic and manganese in the second quarter samples and for iron, magnesium, and sodium in both samples. Potassium is also slightly elevated in both samples.

A trace of the herbicide 2,4-D was detected in the second quarter sample. No other organic compounds were detected in either of the semi-annual samples.

The analytical results indicate that the drain continues to remove slightly contaminated shallow groundwater from the SM-11 area. The overall chemical quality, however, is substantially more dilute than leachate and appears to be only slightly more concentrated than non-contaminated groundwater at the facility.

3.4 LEACHATE AND GAS CONDENSATE QUANTITIES

The quantities of leachate and gas condensate collected at the Seneca Meadows Solid Waste Management Facility were reported as monthly totals in each semi-annual Leachate and Gas Condensate Monitoring Report submitted in 2021. The total volumes collected from each fill area during 2021 are provided in Appendix C of this report.

3.5 EVALUATION OF LINER INTEGRITY

For fill areas having primary and secondary liner systems, which include all fill areas except an older portion of the Existing Landfill, the analytical results for leachate collected above the primary liner, fluids from the secondary

system, and porewater from drains beneath the liner systems were compared to detect possible leakage of the liners.

In each semi-annual Leachate and Gas Condensate Report, Stiff diagrams were used to compare the general inorganic chemistry of the primary leachate samples to the secondary liquid samples taken at each drainage collection sump. Possible leakage of the primary system is indicated by chemical patterns in the Stiff diagrams of secondary samples that mimic those of the primary samples. Possible leakage of a secondary system into the underlying porewater is determined the same way.

The chemical data and Stiff diagrams for each secondary sampling location show no signs of impacts from primary leachate except for ABSRS-2, which was temporarily impacted by primary leachate during construction in 2017 as previously reported. The Stiff diagrams of the secondary samples from ABSRS-2 during 2021 show a gradual decline in major element concentrations from the first quarter through the fourth quarter, which indicates that the impacts to the secondary system have been gradually mitigated.

The chemical data for porewaters beneath the secondary liner systems, which are sampled quarterly as part of groundwater monitoring program, show general chemistry compositions similar to non-contaminated groundwater at the facility. However, various VOCs were detected at trace levels below the method reporting limits (MRLs) in several of the porewater samples during the third quarter 2021 sampling event. Because many of the compounds detected in the porewaters were not detected in the secondary liquid samples, the detections were not attributed to secondary liner leakage. A source for the compounds is not obvious.

The third quarter monitoring results showed detections of vinyl chloride at 10 µg/L and cis-1,2-dichloroethene at 36 µg/L in porewater sample SE-0003-PW, which is porewater drainage from beneath the Southeast Landfill Bumpout. These compounds are associated with the Tantalo Site and most likely enter the porewater by volatilization from the underlying Tantalo contaminant plume.

4.0 CONCLUSIONS

The monitoring of landfill leachate, gas condensate, and liquid collected from secondary liner systems of the lined landfills at the Seneca Meadows Solid Waste Management Facility was conducted semi-annually during the second and fourth quarters of 2021. The samples were analyzed for the 6 NYCRR Part 360 list of expanded chemical parameters minus dioxins and furans. Liquids collected from secondary liner systems were also sampled during the first and third quarters of the year and analyzed for the Part 360 list of baseline chemical parameters.

The concentrations of most general chemistry parameters including color, biological oxygen demand (BOD), alkalinity, ammonia, bromide, chloride, chemical oxygen demand (COD), total dissolved solids (TDS), total Kjeldahl nitrogen (TKN), total organic carbon (TOC), and total phenols were found to be elevated in the leachate samples relative to naturally-occurring groundwater at the facility. Hexavalent chromium, total cyanide, nitrate, and sulfide were at low or non-detect levels.

Metals in the leachate samples exhibiting elevated concentrations relative to natural groundwater at the landfill include arsenic, boron, chromium, iron, magnesium, potassium, and sodium. Metals exhibiting slightly elevated concentrations relative to groundwater include aluminum, barium, cobalt, nickel, vanadium, and zinc. Copper and lead were rarely detected. Antimony, beryllium, mercury, selenium, silver, thallium, and tin were not detected.

A few volatile organic compounds, mainly acetone and 2-butanone, and several semi-volatile organic compounds, mainly phenolic compounds, were detected in the leachate samples from both semi-annual events. The pesticide endosulfan 1 was detected in several samples. Other pesticides including beta-BHC, 4,4’DDT, and heptachlor were detected in a few samples. Two herbicides (2,4-D and 2,4,5-TP) were detected at low concentrations in a few samples. Aroclor 1232, a PCB, was detected in one sample.

By comparison to the leachate samples, the gas condensate samples exhibited lower values for alkalinity, ammonia, bromide, chloride, hardness, and TDS, and higher values for BOD, COD, TOC, total phenolics, and sulfate

The gas condensate samples showed fewer overall detections of metals than the leachate samples. Beryllium, cadmium, cobalt, copper, lead, nickel, selenium, silver, thallium, tin, and vanadium were not detected in either of the two semi-annual condensate samples. However, by comparison to the leachate samples, the condensate samples exhibited slightly higher values for antimony, arsenic, iron, manganese, and mercury.

Fewer organic compounds were detected in the gas condensate samples as compared to the leachate samples. Acetone and 2-butanone were substantially higher in the gas condensate. One pesticide (endosulfan 1) was detected at a low level in one of the semi-annual condensate samples. No PCBs or herbicides were detected in either of the condensate samples.

The samples collected from the SM-11 drain (SM-11 West) were substantially more dilute than the leachate samples. However, the samples exhibited slight exceedances of the Class GA groundwater standards for ammonia, TDS, and turbidity in both semi-annual samples and for sulfate in the second quarter sample.

The SM-11 metals data showed exceedances of the standards for arsenic and manganese in the second quarter samples and for iron, magnesium, and sodium in both samples. Potassium was also slightly elevated in both samples.

A trace of the herbicide 2,4-D was detected in the second quarter sample. No other organic compounds were detected in either of the semi-annual samples.

The chemical data and Stiff diagrams for each secondary sampling location show no signs of impacts from primary leachate except for sideriser sump ABSRS-2, which was temporarily impacted by primary leachate during construction in 2017. Comparisons of the Stiff diagrams of ABSRS-2 from the four quarters of 2021 indicate that the impacts are gradually being mitigated.

Evaluations of analytical data for samples of porewater from beneath the secondary liner systems showed no indications that the integrity of the liners has been compromised.

The quantities of leachate and gas condensate collected during 2021 were recorded monthly and summarized in each semi-annual monitoring report, as required.

Appendix A

Leachate and Gas Condensate Chemical Data

Field and General Chemistry Parameters
Leachate and Gas Condensate

2021 Annual Summary

Parameter	Units	GW Std	Leachate				Gas Condensate			
			# Detects	Min	Max	Avg	# Detects	Min	Max	Avg
Alkalinity, Total as CaCO3	mg/L		31	148	14000	6806	2	3520	3680	3600
Ammonia as Nitrogen	mg/L	2	30	192	2920	1492	2	830	1110	970
Biochemical Oxygen Demand (BOD)	mg/L		29	11.7	2400	522	2	4820	10300	7560
Bromide	mg/L	2	29	2.1	135	43.0	2	1.00	1.10	1.05
Carbon, Total Organic	mg/L		31	3.1	2320	1119	2	1750	2200	1975
Chemical Oxygen Demand, Total	mg/L		31	10.9	7610	3760	2	7740	12600	10170
Chloride	mg/L	250	31	10.3	29300	6599	2	206	377	292
Chromium, Hexavalent	mg/L	0.05	0				0			
Color, True	Color Units	15	31	35.0	14000	3001	2	480	900	690
Conductivity, Field	uMHOS/cm		31	536	55005	24806	2	8883	10235	9559
Cyanide, Total	mg/L	0.2	22	0.065	1.360	0.440	1	0.097	0.097	0.097
Hardness, Total as CaCO3	mg/L		31	296	1810	911	2	411	563	487
Nitrate as Nitrogen	mg/L	10	6	1.6	9.7	5.1	0			
Nitrogen, Total Kjeldahl (TKN)	mg/L		31	0.3	3250	1550	2	1000	1180	1090
Oxidation-Reduction Potential (ORP), I	mV		31	-329	1	-124	2	-90	59	-16
pH, Field	pH Units	6.5-8.5	31	6.57	8.12	7.28	2	7.29	7.31	7.30
Phenolics, Total Recoverable	mg/L	0.001	29	0.0075	1.49	0.4	2	5.8	7.7	6.75
Solids, Total Dissolved (TDS)	mg/L	500	31	427	29300	11900	2	1560	2730	2145
Sulfate	mg/L	250	28	2.6	342	86	2	81.1	159	120.1
Sulfide, Acid-Soluble	mg/L		3	5.6	9.0	7.0	0			
Temperature, Field	DEG C		31	12.2	33.0	23.0	2	7.2	25.9	16.6
Turbidity, Field	NTU	5	31	0.7	63.1	11	2	35.7	614	325

Notes:

Leachate data includes 29 samples from leachate recovery wells and primary liner systems

Gas condensate data includes 2 semi-annual composite samples

Metals
Leachate and Gas Condensate

2021 Annual Summary

			Leachate				Gas Condensate			
Parameter	**Units**	**GW Std**	**# Detects**	**Min**	**Max**	**Avg**	**# Detects**	**Min**	**Max**	**Avg**
Aluminum	mg/L		25	0.000	7.880	1.07	2	0.460	0.510	0.485
Antimony	mg/L	0.003	0				2	0.112	0.139	0.126
Arsenic	mg/L	0.025	28	0.011	0.557	0.140	2	0.322	0.367	0.3445
Barium	mg/L	1	31	0.000625	4.15	1.30	2	0.078	0.095	0.087
Beryllium	mg/L	0.003 (G)	0				0			
Boron	mg/L	1	30	0.00494	38.8	16.1	2	1.68	3.18	2.43
Cadmium	mg/L	0.005	0				0			
Calcium	mg/L		31	0.3	365	114	2	108	135	122
Chromium	mg/L	0.05	29	0.014	1.17	0.326	2	0.050	0.090	0.070
Cobalt	mg/L		10	0.056	0.091	0.065	0			
Copper	mg/L	0.2	4	0.02	0.024	0.022	0			
Iron	mg/L	0.3	31	0.00676	35.7	8.6	2	25.3	25.8	25.6
Lead	mg/L	0.025	4	0.0062	0.0165	0.012	0			
Magnesium	mg/L	35	31	0.125	374	147	2	34.2	54.7	44.5
Manganese	mg/L	0.3	31	0.000507	1.5	0.29	2	0.477	0.687	0.582
Mercury	mg/L	0.0007	0				2	0.0012	0.0049	0.0031
Nickel	mg/L	0.1	26	0.046	0.494	0.227	0			
Potassium	mg/L		31	0.228	3280	927	2	75	136	106
Selenium	mg/L	0.01	0				0			
Silver	mg/L	0.05	0				0			
Sodium	mg/L	20	31	0.748	6230	2668	2	158	319	239
Thallium	mg/L	0.0005 (G)	0				0			
Tin	mg/L		0				0			
Vanadium	mg/L		17	0.05	0.165	0.094	0			
Zinc	mg/L		19	0.02	0.593	0.143	2	0.055	0.090	0.073

Notes:

Leachate data includes 29 samples from leachate recovery wells and primary liner systems

Gas condensate data includes 2 semi-annual composite samples

"G" indicates a guidance value

Organic Compounds
Leachate and Gas Condensate

2021 Annual Summary

			Leachate				Gas Condensate			
Parameter	**Units**	**GW Std**	**# Detects**	**Min**	**Max**	**Avg**	**# Detects**	**Min**	**Max**	**Avg**
Volatile Organic Compounds										
Acetone	ug/L	50 (G)	13	110	6500	2609	2	30000	40000	35000
2-Butanone (MEK)	ug/L	50 (G)	12	140	9100	2578	2	36000	57000	46500
Isobutyl alcohol	ug/L	NR	0				1	21000	21000	21000
4-Methyl-2-pentanone	ug/L	NR	1	610	610	610	0			
Toluene	ug/L	5	1	1200	1200	1200	0			
m,p-Xylenes	ug/L	5	1	55	55	55	0			
Semi-Volatile Organic Compounds										
Acetophenone	ug/L	NR	1	9.6	9.6	10	1	57	57	57
Benzyl alcohol	ug/L	NR	0				2	130	570	350
Bis(2-ethylhexyl) Phthalate	ug/L	5	1	150	150	150	0			
1,4-Dichlorobenzene	ug/L		1	9.9	9.9	10	0			
2,4-Dimethylphenol	ug/L	1	4	12	21	15	0			
2-Methylphenol	ug/L	5	1	33	33	33	0			
3+4-Methylphenol	ug/L	5	16	24	2800	680	2	670	3300	1985
Naphthalene	ug/L	10 (G)	3	9.8	19	16	0			
o-Toluidine	ug/L	5	2	12	14	13	0			
Phenol	ug/L	1	10	49	230	182	2	630	2300	1465
PCBs										
Aroclor 1232	ug/L	0.09	1	0.98	0.98	0.98	0			
Pesticides										
Endosulfan 1	ug/L	NR	18	0.06	2.3	0.79	1	0.08	0.08	0.08
beta-BHC	ug/L	0.04	5	0.05	0.12	0.08	0			
4,4'DDT	ug/L	0.2	2	0.05	1.4	0.72	0			
Heptachlor	ug/L	0.04	1	0.05	0.052	0.05	0			
Herbicides										
2,4-D	ug/L	50	4	4	16	11.1	0			
2,4,5-TP	ug/L	0.26	1	0.48	0.48	0.48	0			

Notes:

Leachate data includes 31 samples from leachate recovery wells and primary liner systems

Gas condensate data includes 2 semi-annual composite samples

"G" indicates a guidance value, "NR" means not regulated

Appendix B

SM-11 Drain Chemical Data

Field and General Chemistry Parameters
SM-11 Drain Samples

2021 Annual Summary

			SM-11 West		
Parameter	**Units**	**GW Std**	**2nd Qtr**	**4th Qtr**	**Average**
Alkalinity, Total as CaCO3	mg/L		586	377	482
Ammonia as Nitrogen	mg/L	2	10.0	4.56	7.3
Biochemical Oxygen Demand (BOD)	mg/L		3.0	2.4	5.7
Bromide	mg/L	2			
Carbon, Total Organic (TOC)	mg/L		18.0	10.6	14.3
Chemical Oxygen Demand, Total	mg/L		13.0	28.8	20.9
Chloride	mg/L	250	181	104	143
Chromium, Hexavalent	mg/L	0.05			
Color, True	Color Units	15	15	12	14
Conductivity, Field	uMHOS/cm		2241	1397	1819
Cyanide, Total	mg/L	0.2			
Hardness, Total as CaCO3	mg/L		1060	597	829
Nitrate as Nitrogen	mg/L	10			
Nitrogen, Total Kjeldahl (TKN)	mg/L		11.1	5.8	8.5
pH, Field	pH UNITS	6.5-8.5	6.89	7.07	6.98
Phenolics, Total Recoverable	mg/L	0.001			
Oxidation-Reduction Potential (ORP), Field	mV		-57	-30	-44
Solids, Total Dissolved (TDS)	mg/L	500	1530	833	1182
Sulfate	mg/L	250	451	210	331
Sulfide, Acid-Soluble	mg/L				
Temperature, Field	DEG C		11.6	17.6	14.6
Turbidity, Field	NTU	5	35.1	9.1	22.1

Note: blank space indicates a non-detect result

Metals
SM-11 Drain Samples

2021 Annual Summary

			SM-11 West		
Parameter	**Units**	**GW Std**	**2nd Qtr**	**4th Qtr**	**Average**
Aluminum	mg/L				
Antimony	mg/L	0.003			
Arsenic	mg/L	0.025	0.036		0.036
Barium	mg/L	1	0.123	0.114	0.119
Beryllium	mg/L	0.003 (G)			
Boron	mg/L	1	0.390		0.390
Cadmium	mg/L	0.005			
Calcium	mg/L		255	142	199
Chromium	mg/L	0.050			
Cobalt	mg/L				
Copper	mg/L	0.200			
Iron	mg/L	0.300	13.4	1.2	7.3
Lead	mg/L	0.025			
Magnesium	mg/L	35	104	58.7	81.4
Manganese	mg/L	0.300	0.511	0.189	0.350
Mercury	mg/L	0.0007			
Nickel	mg/L	0.100			
Potassium	mg/L		15.9	15.5	15.7
Selenium	mg/L	0.010			
Silver	mg/L	0.050			
Sodium	mg/L	20	95.8	67.1	81.5
Thallium	mg/L	0.0005 (G)			
Tin	mg/L				
Vanadium	mg/L				
Zinc	mg/L			0.022	0.022

Notes:

Blank space indicates a non-detect result

"G" indicates a guidance value

Organic Compounds
SM-11 Drain Samples

2021 Annual Summary

			SM-11 West		
Parameter	**Units**	**GW Std**	**2nd Qtr**	**4th Qtr**	**Average**
Volatile Organic Compounds					
Semi-Volatile Organic Compounds					
PCBs					
Pesticides					
Herbicides					
2,4-D	ug/L	50	2.3		

Notes:
Blank space indicates a non-detect result

Appendix C

Leachate and Gas Condensate Quantities

Notes:

All volumes listed are in gallons.

In the following tables of leachate volume data, a zero value for primary leachate volume indicates a month when porewater volumes, which are mixed with primary leachate prior to pumping, exceeded the volume of primary leachate. The remaining leachate was pumped in subsequent months. The overall total annual volume of leachate reported is not impacted.

Key:

Tantalo = Tantalo Site
SMI = Seneca Meadows Existing Landfill
AB = Existing Landfill AB Overflow Area
SELF = Southeast Landfill
SBO = Southeast Landfill Bumpout
WEX = Western Expansion Landfill
NEX = Northern Expansion Landfill
RRP = Resource Recovery Facility
Misc. = Gas Wells, Skid Flare, Maintenance, Tire Facility, Ponded Water, Shop Oil/Water, Containment Tanks

2021 Leachate Flow Data

	Tantalo	
Date	**TAN1**	**T0015**
January Total	241187	27737
February Total	209605	20736
March Total	227142	30474
April Total	285951	38898
May Total	239003	95531
June Total	130622	27867
July Total	370185	39
August Total	216718	9
September Total	161777	18703
October Total	344475	39121
November Total	298526	37859
December Total	275408	39121
Yearly Total	**3,000,598**	**376,095**

2021 Leachate Flow Data

	SMI Landfill									
Date	**LW4**	**LW5**	**LW6**	**LW7**	**LW8**	**LW9**	**LW10**	**LW11**	**LW12**	**LW13**
January Total	11893	9576	13374	14012	52593	7384	5878	13648	3145	6519
February Total	5658	18163	11806	16657	47260	12958	5926	11040	2847	3057
March Total	5086	8228	15424	16332	115191	8839	5920	15402	5531	614
April Total	10673	10390	14334	14996	80868	12875	5822	14978	7690	795
May Total	9714	7778	12485	10843	96632	7708	4918	13315	7179	10414
June Total	6856	6026	10166	6632	49964	6279	6316	12000	5215	6166
July Total	12230	11309	13161	12703	73026	461883	30777	14184	4674	7019
August Total	11464	9525	12916	10511	78088	78088	9784	14644	4718	8128
September Total	5662	6811	12300	9692	72477	72477	6618	14506	5741	6332
October Total	12285	10070	15251	21401	104971	104971	16781	17438	6162	7181
November Total	6057	8694	12646	12296	137870	137870	10784	17197	6343	7108
December Total	6404	16053	14242	13781	92763	92763	13181	17817	5840	6757
Yearly Total	**103,981**	**122,623**	**158,104**	**159,854**	**1,001,703**	**1,004,093**	**122,706**	**176,168**	**65,086**	**70,091**

2021 Leachate Flow Data

	SMI Landfill										
Date	**LW14**	**LW15**	**LW16**	**LW17**	**LW18**	**LW19**	**LW20**	**LW21**	**LW22**	**SM11W**	**CT8**
January Total	51867	15100	20146	5262	17575	22772	81946	9360	22373	10187	
February Total	51865	9770	19828	4819	17750	33664	73200	14816	19023	8399	
March Total	66124	24900	18228	7107	24400	25005	111584	15472	18204	55761	
April Total	61544	23843	35481	9747	24973	26835	82189	9038	16613	13325	
May Total	35198	19899	23350	7113	21623	18637	79914	10377	15675	15453	
June Total	7105	179332	22410	7417	9053	6786	47460	6923	6877	11781	
July Total	64592	130848	25744	8312	0	18577	58968	16361	0	19436	
August Total	37916	20668	23535	7434	0	19461	69496	24975	0	15465	
September Total	20539	24102	21520	7357	0	10397	58212	29759	755	13155	
October Total	93578	28040	27152	4500	8409	39193	97589	55116	113459	10917	
November Total	51264	35795	22851	2453	23500	23949	129677	59684	275297	8900	
December Total	62926	25952	25761	7849	24798	28709	95400	49129	210038	-	
Yearly Total	**604,516**	**538,248**	**286,006**	**79,368**	**172,080**	**273,986**	**985,634**	**301,013**	**698,312**	**182,779**	**-**

2021 Leachate Flow Data

	AB Landfill							
Date	**ABMH1**	**ABMH1/SM11**	**ABMH2**	**ABMH3**	**ABSS1 (Pri)**	**ABSS1 (SEC)**	**ABSS2 (Pri)**	**ABSS2 (SEC)**
January Total	0	-	17447	13619	114539	22538	103235	1781
February Total	216	-	87351	10444	101859	10373	18209	3429
March Total	0	-	97575	7563	116129	1150	64503	1710
April Total	5216	-	249629	42581	38408	1683	43861	3049
May Total	581	-	0	29876	98357	314	65611	3123
June Total	1215	-	197798	110385	325677	677	39942	20068
July Total	0	-	148289	10058	606948	959	37750	3434
August Total	0	-	99376	12555	494055	21830	99419	4719
September Total	0	-	107581	28309	466429	779	34395	1785
October Total	0	-	6554	29463	603138	4772	150146	3759
November Total	-	42894	38745	7198	460695	3108	107888	33
December Total	-	249411	1666	11152	231845	1808	278332	4941
Yearly Total	**7,228**	**292,305**	**1,052,011**	**313,203**	**3,658,078**	**69,991**	**1,043,292**	**51,831**

2021 Leachate Flow Data

	SELF/SBO Landfill									
Date	**SESS1 (Pri)**	**SESS1 (SEC)**	**SESS2 (PRI)**	**SESS2 (SEC)**	**SESS3 (Pri)**	**SESS3 (SEC)**	**SEBOCT2**	**SEBOCT3**	**SEBOCT4**	**SECT1**
January Total	378322	8293	544509	1271	344107	7695	18832	1077	1477	21082
February Total	420248	12110	507557	2643	405598	16817	12564	1005	1630	30195
March Total	431381	8036	563637	0	328526	8312	13220	0	0	15011
April Total	411022	12042	549456	252	377441	11827	12732	0	1177	1177
May Total	475880	4043	521367	0	312466	8327	5905	0	2075	2075
June Total	251872	7723	432214	1578	343356	4610	7079	1119	976	976
July Total	443025	9119	518394	1818	437438	8720	6608	0	2567	12378
August Total	400185	5873	357060	1776	281288	5413	5779	1430	1794	12156
September Total	35872	3928	854049	20229	132127	3541	6092	0	867	13102
October Total	730858	48006	690318	30520	149074	8662	7212	884	134	41753
November Total	586657	8253	725279	15930	119678	5540	4038	1205	2165	19742
December Total	313166	8374	975884	20080	207711	6836	9096	0	640	22837
Yearly Total	**4,878,489**	**135,800**	**7,239,723**	**96,097**	**3,438,809**	**96,300**	**109,158**	**6,720**	**15,503**	**192,483**

2021 Leachate Flow Data

	WEX Landfill						
Date	**WESS1 (Pri)**	**WESS1 (SEC)**	**WESS1 (PW)**	**WESS2 (Pri)**	**WESS2 (SEC)**	**WESS3 (Pri)**	**WESS3 (sec)**
January Total				2155347	22835	294898	2859
February Total				1249830	6677	250244	0
March Total	85058	3	7	1970601	4534	321803	2681
April Total	664299	3705	33547	1057121	4506	282769	200
May Total	317170	2802	38441	847986	6401	286795	0
June Total	196831	2927	34831	593093	1985	288489	4120
July Total	867484	2931	48446	1124511	6724	58403	4334
August Total	113675	2889	347228	1274254	4345	226601	4166
September Total	294388	2718	0	1202468	2152	209812	4182
October Total	0	13255	586698	663917	5073	152315	4382
November Total	1624	2690	172865	878429	2171	254316	4161
December Total	290164	17248	91736	828255	6245	456484	8378
Yearly Total	**2,830,691**	**51,168**	**1,353,798**	**13,845,813**	**73,647**	**3,082,929**	**39,463**

2021 Leachate Flow Data

	WEX Landfill					
Date	**WESS4 (Pri)**	**WESS4 (SEC)**	**WESS4 (PW)**	**WECT5**	**WECT4**	**WECT2**
January Total	223912	9530	17168	16689	19597	1200
February Total	192110	9877	17069	29299	15491	1000
March Total	201296	0	25276	31786	7746	300
April Total	238416	9540	33235	29218	4941	1400
May Total	212922	0	33243	23713	5268	1600
June Total	191080	9310	27458	19701	19292	2000
July Total	132882	154	25882	19448	25236	4000
August Total	0	6413	25251	17312	23781	2000
September Total	0	9349	25856	17016	24093	2800
October Total	215379	290	42693	18036	28615	2000
November Total	0	9467	50572	20817	29272	2000
December Total	274758	9365	33885	41494	28046	0
Yearly Total	**1,882,755**	**73,294**	**357,587**	**284,529**	**231,377**	**20,300**

2021 Leachate Flow Data

	NEX Landfill	
Date	**A7SS1 (Pri)**	**A7SS1 (SEC)**
January Total	705443	159
February Total	529982	297
March Total	1013867	2187
April Total	810442	210
May Total	812612	0
June Total	668215	2293
July Total	745555	210
August Total	677568	4950
September Total	961308	3048
October Total	776015	21919
November Total	1136655	4834
December Total	379392	28410
Yearly Total	**9,217,054**	**68,517**

2021 Leachate Flow Data

	RRP		
Date	**RRPCT1 (#1)**	**RRPCT1 (#2)**	**RRPCT2**
January Total	67291	38408	1179
February Total	70028	44738	533
March Total	73979	21084	0
April Total	70951	68407	1054
May Total	74836	89085	1500
June Total	47214	122237	2031
July Total	56576	207882	2461
August Total	77624	255577	10269
September Total	119095	163293	3512
October Total	127557	100480	10430
November Total	127022	15851	24517
December Total	178893	0	1603
Yearly Total	**1,091,066**	**1,127,042**	**59,089**

2021 Leachate Flow Data

	Miscellaneous						
Date	**Gas Wells**	**Skid Flare**	**Site cons /Maintenance**	**Tire Facility**	**Ponded water**	**Shop oil/water**	**containment tanks**
January Total		11000	400	4000	30300	1000	11000
February Total	4330	16500	60	5000	20200		2200
March Total	2300	21250	27400	6000	27000	1000	12080
April Total	9000	21000	28000	6000	40000	1000	8500
May Total	6600	5100	20900	5500	65700	1000	7700
June Total	6800	11000	2000	3000	31500	1000	9800
July Total	800	3400	6250	5200	3500	2000	25300
August Total	0	3800	4750	2000	32050	0	
September Total	0	450	450	2000	200	1000	10550
October Total	2000	1000	500	2700	17800	1000	19800
November Total	1500	1800	3150	3200	2400	1000	9000
December Total	1500	800	0	100	0	0	11000
Yearly Total	**34,830**	**97,100**	**93,860**	**44,700**	**270,650**	**10,000**	**126,930**

2021 Leachate Flow Data
Totals

	Totals								
Date	**Tantalo**	**SMI**	**AB**	**SELF/SBO**	**WEX**	**NEX**	**RRP**	**Misc.**	***Total***
January Total	268923	394610	273159	1326666	2764035	705602	106877	57700	***5897572***
February Total	230341	388506	231882	1410367	1771597	530279	115299	48290	***4726560***
March Total	257615	563353	288630	1368124	2651090	1016054	95063	97030	***6336959***
April Total	324848	477010	384427	1377126	2362897	810652	140412	113500	***5990873***
May Total	334534	428224	197862	1332139	1776339	812612	165421	112500	***5159631***
June Total	158489	420763	695761	1051503	1391118	670508	171482	65100	***4624724***
July Total	370224	983802	807438	1440067	2320436	745765	266919	46450	***6981102***
August Total	216727	456815	731955	1072753	2047914	682518	343470	42600	***5594752***
September Total	180480	398410	639278	1069807	1794833	964356	285899	14650	***5347713***
October Total	383596	794464	797832	1707420	1732652	797934	238467	44800	***6497165***
November Total	336385	990232	660561	1488487	1428383	1141489	167390	22050	***6234977***
December Total	314529	810162	779156	1564624	2086058	407802	180496	13400	***6156227***
Yearly Total	**3,376,693**	**7,106,352**	**6,487,940**	**16,209,082**	**24,127,351**	**9,285,571**	**2,277,197**	**678,070**	**69,548,256**

4.0 SOLID WASTE/BUDS/DIVERTED WASTE/ADC

NOTE:

THE SENECA MEADOWS PERMITTED HOURS OF OPERATION ARE 6 AM TO 6 PM MONDAY THROUGH SUNDAY. MAXIMUM ALLOWABLE TONS: 6000 DAILY/YEARLY AVERAGE

TOTAL MATERIAL/BUDS

From January 1, 2021 to December 31, 2021, SENECA MEADOWS, INC. received a total of 2,169,922 tons of material (1,905,735 tons of solid waste and 264,187 tons of Beneficial Use Determination {BUD} material used in landfilling operations). Tables 4-1 and 4-2 provides a monthly break down of the total tonnage of material for 2021 by type. Approved BUDs received at SMI are used for daily cover or in the construction of access roads, as a replacement for natural or virgin materials in accordance with the usage criteria outlined in the Facility's Part 360 permit.

DIVERTED WASTE

Approximately 573.8 tons of source separated yard debris was diverted from the Seneca Meadows Landfill and stockpiled prior to chipping within the area reserved at the Site for mulching and/or chipping. The chipped material is used for landfill operations for bulking and stabilization of haul roads and used to stabilize disturbed ground surface and erosion control.

WASTE TIRES

Approximately 16,550 tons of chipped tires were processed and utilized in the landfill construction. The tire facility operates under NYSDEC Registration #50K03 and tire volumes are reported separately to the DEC on a quarterly basis. The quarterly reports are included in this section for reference and this report serves as both the annual landfill report and the annual tire report for SMI.

TABLE 4-1. TOTAL TONNAGE OF MATERIAL RECEIVED BY TYPE

TABLE 4-2. BUDS UTILIZED BY CATEGORY

Seneca Meadows, Inc.
2021 Annual Report
Table 4-1
Total Tonnage of Material Received by Type

Waste Type	January	February	March	April	May	June	July	August	September	October	November	December	Grand Total
Asbestos	442.5	494.5	577.3	657.5	786.7	390.6	1,319.2	2,497.5	3,781.0	4,499.9	2,542.1	1,119.9	19,108.7
Industrial Ash	1,346.7	1,554.4	2,233.2	3,418.4	3,631.8	3,253.7	3,996.3	4,823.9	3,166.5	3,078.9	2,835.6	2,943.1	36,282.3
Construction Debris	10,427.5	13,876.4	22,865.8	23,960.4	22,553.5	21,333.5	20,744.3	20,742.4	24,385.9	21,863.1	21,557.2	23,393.3	247,703.1
Contaminated Soil	4,626.3	988.7	1,058.9	2,069.1	3,308.4	3,375.9	9,805.5	24,142.1	22,529.6	8,845.7	4,672.2	5,510.4	90,932.5
Medical Waste	-	-	-	-	-	-	-	-	-	-	-	-	-
Sludge	3,899.5	5,324.6	5,129.6	2,731.8	2,450.0	2,935.5	4,112.5	4,362.2	2,879.0	2,769.9	3,045.1	4,704.8	44,344.3
Other Industrial Waste	1,089.3	1,053.1	1,306.7	1,091.4	1,198.4	1,311.4	1,050.5	1,346.9	1,243.2	1,267.7	1,378.6	1,112.5	14,449.7
Solid Waste (MSW)	95,342.5	69,037.9	89,008.6	115,602.2	120,519.8	142,067.5	140,527.8	135,110.7	141,891.4	134,371.7	134,073.5	129,098.7	1,446,652.1
Grits & Screenings	1,256.4	763.5	2,758.6	253.4	39.4	257.8	305.4	59.1	108.8	-	39.5	420.3	6,262.1
Hardfill	-	-	-	-	-	-	-	-	-	-	-	-	-
Processed Construction Debris	-	-	-	-	-	-	-	-	-	-	-	-	-
Tires-NonProcessable& Shreds	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	**118,430.7**	**93,093.0**	**124,938.6**	**149,784.2**	**154,487.8**	**174,925.7**	**181,861.2**	**193,084.8**	**199,985.3**	**176,696.8**	**170,143.7**	**168,303.0**	**1,905,734.9**

Seneca Meadows, Inc.
2021 Annual Report
Table 4-2
BUDs Utilized by Category

BUDs/ADC	January	February	March	April	May	June	July	August	September	October	November	December	Grand Total
Coal Ash	-	-	-	-	-	-	-	-	-	-	-	-	-
Auto Fluff	63.8	-	54.5	75.7	92.0	189.8	410.1	622.9	309.6	321.0	94.0	325.6	2,558.9
C&D (BUD)	20,534.0	9,936.5	17,130.6	17,992.5	14,271.2	15,113.5	16,824.8	21,341.0	18,711.6	20,828.2	21,369.4	19,832.7	213,885.9
Contaminated Soil	246.9	369.3	2,244.3	136.0	-	16,551.5	4,905.5	7,107.6	1,681.1	1,354.2	244.8	-	34,841.2
Foundry Sand (BUD)	-	-	-	-	-	-	-	-	-	-	-	-	-
Hard Fill	-	-	-	-	-	-	-	-	-	-	-	-	-
Paper Sludge	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Industrial Waste (BUD)	24.7	13.2	24.6	37.3	12.4	25.9	23.4	31.8	25.0	23.6	18.7	7.6	268.1
Ash	179.3	-	-	-	-	-	-	-	-	-	-	-	179.3
B/R Tire Cover	2,113.7	1,046.9	1,817.8	1,710.1	1,205.7	516.0	215.3	742.7	271.9	1,023.1	522.1	694.5	11,879.6
Yard Debris	5.8	-	26.4	55.5	63.0	72.8	82.8	52.8	79.8	35.9	77.3	21.8	573.8
Z9500 (Tire Chips for Cover)	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	23,168.2	11,365.8	21,298.3	20,007.0	15,644.2	32,469.5	22,461.9	29,898.7	21,079.0	23,586.0	22,326.3	20,882.1	264,187.0

Grand Total **264,187.0**

SENECA MEADOWS, INC.

2021 QUARTERLY TIRE FACILITY REPORTS

Seneca Meadows, Inc.
1786 Salcman Road
Waterloo, NY 13165
(315) 539-5624
Fax: (315) 539-0653

April 28, 2021

Gregory P. MacLean, P.E.
Regional Solid & Hazardous Materials Engineer
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

RE: SMI Tire Processing Facility
Quarterly (1st 2021)

Dear Mr. MacLean:

Attached please find the 2021 First Quarter report for the SMI Tire Processing Facility (SMTPF). The quarter began with 390 tons of whole tires staged for processing, and ended with 941 tons of whole tires staged for processing. Approximately 693 tons of chipped tires remained in storage in the specially designed containment areas at the SMTPF for ongoing cell construction.

In accordance with 6 NYCRR Part 360-13.1(d)(2)(ii)(f), SMTPF is identifying all customers bringing more than 25 tires per day during this reporting quarter. This information presented in this report constitutes SMI's confidential customer list. Please be advised that this list is confidential, and therefore must not be made available to the public through the Freedom of Information Act.

Should you have any questions regarding this report, or the SMTPF, please call me at (315) 539-5624.

Respectfully yours,
SENECA MEADOWS, INC.

Kyle Black
District Manager

cc: M. Miles, W. Neuman, T. Sisson

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE

QUARTERLY/ANNUAL REPORT FORM FOR A
WASTE TIRE STORAGE FACILITY

Please read and follow all instructions on the back before completion of this report form

Please Type or Print clearly

1.a. This Quarterly Report is for the following quarter (please check only one and fill in appropriate year):

X	1st Quarter:	Jan. 1, 2021	to	March 31, 2021
	2nd Quarter:	April 1, 2021	to	June 30, 2021
	3rd Quarter:	July 1, 2021	to	Sept. 30, 2021
	4th Quarter:	Oct. 1, 2021	to	Dec. 31, 2021

b. ____ This Annual Report is for the period between January 1, 2021 and December 31, 2021

2. FACILITY NAME AND LOCATION
SMI Waste Tire Facility

Street
1786 Salcman Road

City/Village

Town
Seneca Falls

County
Seneca

Telephone Number
(315) 539-5624

DEC Region
8

3. FACILITY OWNER'S NAME
Seneca Meadows, Inc.

Mailing Address
1786 Salcman Road

City/Town/Village
Waterloo

State/Zip Code
New York 13165

Telephone Number
(315) 539-5624

4. FACILITY NAME AND LOCATION
Seneca Meadows, Inc.

Mailing Address
1786 Salcman Road

City/Town/Village
Waterloo

State/Zip Code
New York 13165

Telephone Number
(315) 539-5624

FACILITY INFORMATION

DEC Permit or Registration Number
8-4532-00023/0000-01 | 5 | 0 | S | 0 | 8

DEC Permit Expiration Date
12 / 31 / 2025

Operations Schedule
10 M - F hrs/day 5 days/week
5.5 Saturday

6. RECEIVED: Movement of Tires Through Facility

Month of Quarter	Names and Addresses of Business Providing Incoming Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

LEAVING:

Month of Quarter	Names and Addresses of Business Receiving Outgoing Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

NOTE: Attach and use additional 8 1/2" x 11" sheets, if more room is needed for name and address of major deliveries and/or recipients.

Total quantity of tires at facility:
Beginning at Quarter: see attached
End of Quarter:
Net Gain or Loss:
Beginning of Year:
End of Report Year:
Net Gain or Loss:

7. Environmental Factors

Identify any pesticides used: NONE

a. Have there been any fires during the report period?
☐ Yes ☒ No

b. Have there been any other environmental problems during this report period (check all appropriate boxes)

Name	Quantity Generated	Application Area (acres)	Date of Application

☐ Surface water contamination ☐ Contaminated water ☐ Excessive noise ☐ other (describe) NONE
☐ Groundwater contamination ☐ Increased mosquitoes ☐ Odors

8 CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as WTF Manager (title) of SMI (entity) to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name: Kyle Black
Signature:
Month | Day | Year: 0 4 | 3 0 | 2 1

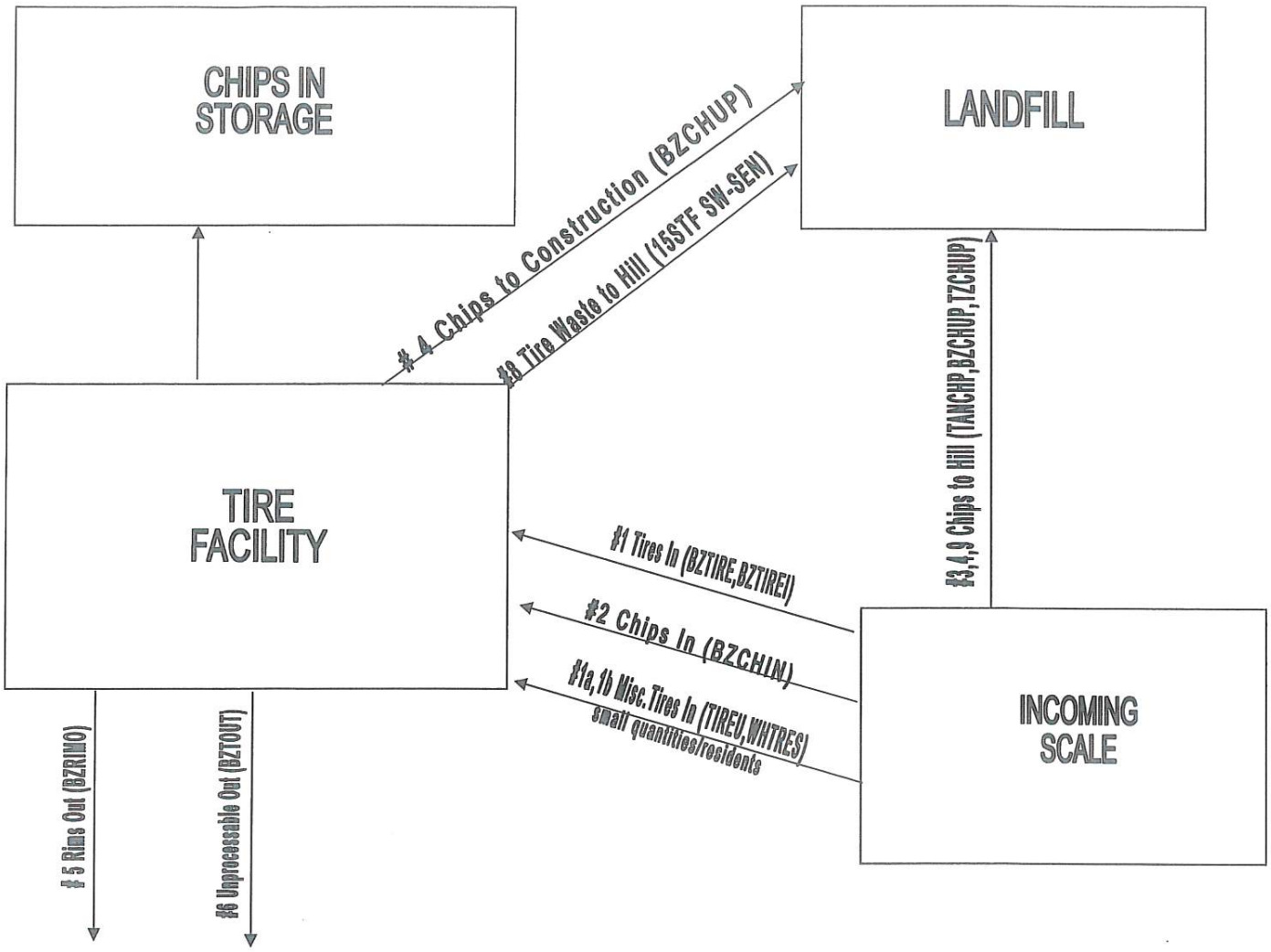
1st Quarter Report
Seneca Meadows, Inc.
Tire Processing Facility
Tire Movement Through Facility
01/01/2021-03/31/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
Whole Tires	390	528	2,988	0		941	1,156
Chipped Tires		946	324		306		*** 693
** Shredded Tires					0		** 2,142

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.

** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 04/19/21

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.



		offsite	offsite	
	From Category Waste Summary			
	01/01/2021-03/31/2021			**Total**
1	BZTIRE (Whole Tires)	2,987.53		
1	BZTIREI (Whole tire intercompany)	-		
				2,987.53 tires in
5	BZRIMO (Rims Out) <negative>			-
	BZCOUT (CHIPS OUT) <negative>			-
				2,987.53 total in
2	BZCHIN (Tire Chips to Tire Facility)	323.95		
	Quantity Sent Out			
	From Controlled Waste Report			
6	BZTOUT (Whole Tires Out)	-		-
				- total tires out
	Quantity Used in Construction			
	From Category Waste Report			
4	BZCHUP (Tire chips up)	306.00		306.00
3	TANCHP	-		-
	total chips to construction			306.00 total chips to const

Seneca Meadows, Inc.
Tire Processing Facility
1st Quarter Report
Tire Movement Through Facility
01/01/2021-03/31/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
	= Ending Qty of Tires Staged (Whole) from prior Quarterly report	= Ending Qty of Tires in Storage (Tons) from prior Quarterly report	= #1 - #5 BZTIRE -BZRIMO-BZCOUT	= #6 + #8 BZTOUT + (15STF SW-SEN Tire Waste to Hill)		# Supplied by Glenn	# Supplied by Glenn
Whole Tires	390.00	528.00	2,987.53	0.00		941.00	1,156.00
		= Ending Qty of Tires in Storage (Chipped) from prior Quarterly report	= #2 BZCHIN		= # 4 + # 9 + #3 BZCHUP + TZCHUP + TANCHP		Calculated
Chipped Tires		946.00	323.95		306.00		*** 693.48
		= Ending Qty of Shreds in Storage) from prior Quarterly report			= # 10 WHTMAD-15S&M		Calculated
Shredded Tires		0.00	0.00		0.00		*** 2,142.00

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.
** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 04/19/21

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.

Seneca Meadows, Inc.
1786 Salcman Road
Waterloo, NY 13165
(315) 539-5624
Fax: (315) 539-0653

July 16, 2021

Gregory P. MacLean, P.E.
Regional Solid & Hazardous Materials Engineer
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

RE: SMI Tire Processing Facility
Quarterly (2nd 2021)

Dear Mr. MacLean:

Attached please find the 2021 Second Quarter report for the SMI Tire Processing Facility (SMTPF). The quarter began with 641 tons of whole tires staged for processing, and ended with 750 tons of whole tires staged for processing. Approximately 2534 tons of chipped tires remained in storage in the specially designed containment areas at the SMTPF for ongoing cell construction.

In accordance with 6 NYCRR Part 360-13.1(d)(2)(ii)(f), SMTPF is identifying all customers bringing more than 25 tires per day during this reporting quarter. This information presented in this report constitutes SMI's confidential customer list. Please be advised that this list is confidential, and therefore must not be made available to the public through the Freedom of Information Act.

Should you have any questions regarding this report, or the SMTPF, please call me at (315) 539-5624.

Respectfully yours,
SENECA MEADOWS, INC.

Kyle Black
District Manager

cc: M. Miles, W. Neuman, T. Sisson

2nd Quarter Report
Seneca Meadows, Inc.
Tire Processing Facility
Tire Movement Through Facility
04/01/2021-06/30/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
Whole Tires	641	1,156	3,230	0		750	2,919
Chipped Tires		693	610		53		*** 2,534
** Shredded Tires		2,142			0		** 2,216

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.

** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 07/14/21

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE

QUARTERLY/ANNUAL REPORT FORM FOR A
WASTE TIRE STORAGE FACILITY

Please read and follow all instructions on the back before completion of this report form

Please Type or Print clearly

1.a. This Quarterly Report is for the following quarter (please check only one and fill in appropriate year):

____	1st Quarter:	Jan. 1, 2021	to	March 31, 2021
X	2nd Quarter:	April 1, 2021	to	June 30, 2021
____	3rd Quarter:	July 1, 2021	to	Sept. 30, 2021
____	4th Quarter:	Oct. 1, 2021	to	Dec. 31, 2021

b. ____ This Annual Report is for the period between January 1, 2021 and December 31, 2021

2. FACILITY NAME AND LOCATION	3. FACILITY OWNER'S NAME
SMI Waste Tire Facility	Seneca Meadows, Inc.
Street: 1786 Salcman Road	Mailing Address: 1786 Salcman Road
City/Village:	City/Town/Village: Waterloo
Town: Seneca Falls — County: Seneca	State/Zip Code: New York 13165
Telephone Number: (315) 539-5624 — DEC Region: 8	Telephone Number: (315) 539-5624

4. FACILITY NAME AND LOCATION	FACILITY INFORMATION
Seneca Meadows, Inc.	
Mailing Address: 1786 Salcman Road	DEC Permit or Registration Number: 8-4532-00023/0000-01 — 5 0 S 0 8
City/Town/Village: Waterloo	DEC Permit Expiration Date: 12 / 31 / 2025
State/Zip Code: New York 13165	Operations Schedule: 10 M - F hrs/day — 5 days/week; 5.5 Saturday
Telephone Number: (315) 539-5624	

6. RECEIVED: Movement of Tires Through Facility

Month of Quarter	Names and Addresses of Business Providing Incoming Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

LEAVING:

Month of Quarter	Names and Addresses of Business Receiving Outgoing Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

NOTE: Attach and use additional 8 1/2" x 11" sheets, if more room is needed for name and address of major deliveries and/or recipients.

Total quantity of tires at facility:
Beginning at Quarter: see attached — Beginning of Year: ____
End of Quarter: ____ — End of Report Year: ____
Net Gain or Loss: ____ — Net Gain or Loss: ____

7. Environmental Factors — Identify any pesticides used: NONE

a. Have there been any fires during the report period? ☐ Yes ☐ No

b. Have there been any other environmental problems during this report period (check all appropriate boxes)

Name	Quantity Generated	Application Area (acres)	Date of Application

☐ Surface water contamination ☐ Contaminated water ☐ Excessive noise ☐ other (describe) NONE
☐ Groundwater contamination ☐ Increased mosquitoes ☐ Odors

8 CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as WTF Manager (title) of SMI (entity) to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

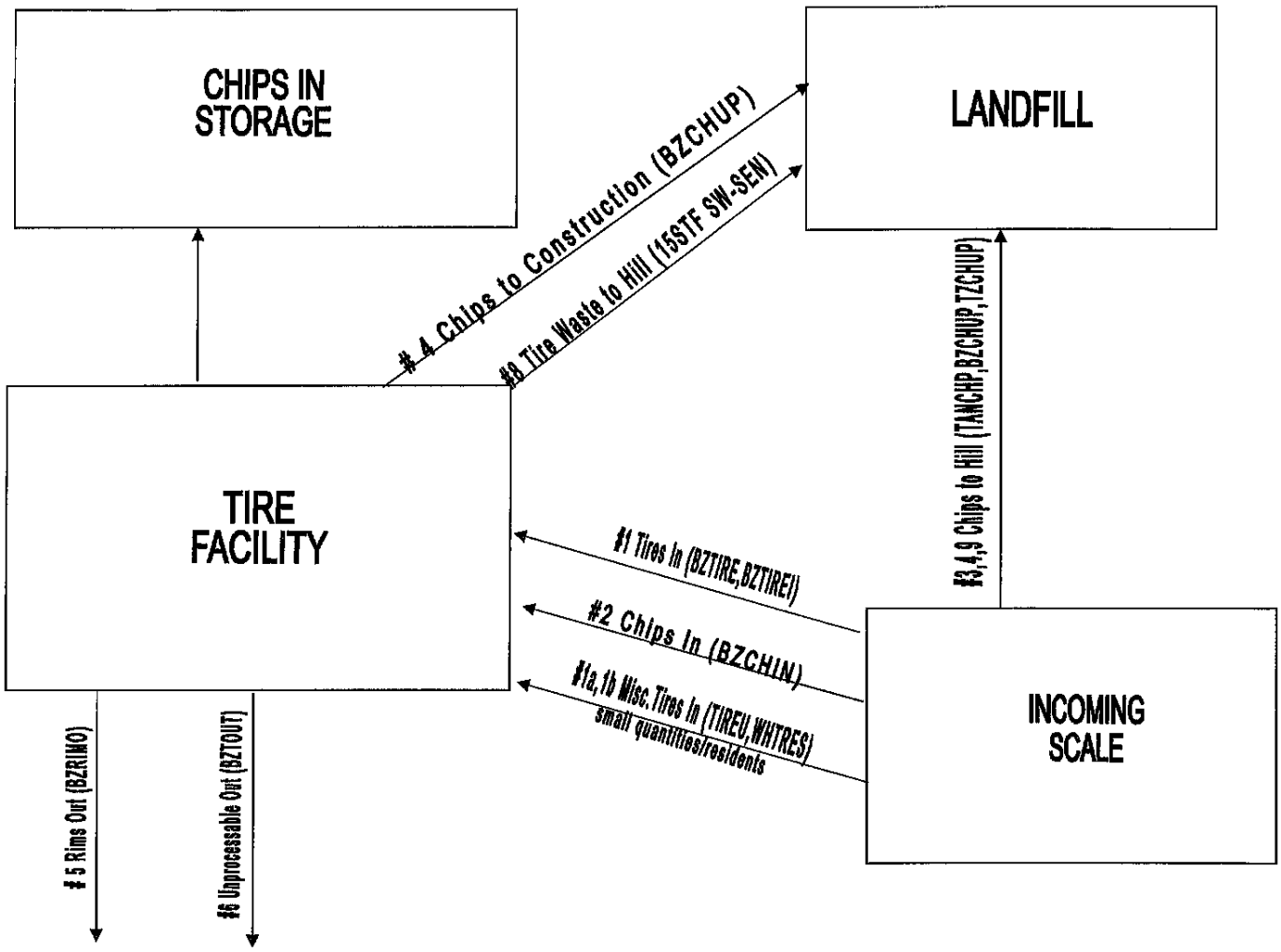
Printed/Typed Name	Signature	Month	Day	Year
Kyle Black		0 7	1 6	2 1

Seneca Meadows, Inc.
Tire Processing Facility
2nd Quarter Report
Tire Movement Through Facility
04/01/2021-06/30/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
	= Ending Qty of Tires Staged (Whole) from prior Quarterly report	= Ending Qty of Tires in Storage (Tons) from prior Quarterly report	= #1 - #5 BZTIRE -BZRIMO-BZCOUT	= #6 + #8 BZTOUT + (15STF SW-SEN Tire Waste to Hill)		# Supplied by Tate	# Supplied by Tate
Whole Tires	641.00	1,156.00	3,230.37	0.00		750.00	2,919.00
		= Ending Qty of Tires in Storage (Chipped) from prior Quarterly report	= #2 BZCHIN		= # 4 + # 9 + #3 BZCHUP + TZCHUP + TANCHP		Calculated
Chipped Tires		693.00	609.55		52.80		*** 2,534.12
		= Ending Qty of Shreds in Storage) from prior Quarterly report			= # 10 WHTMAD-15S&M		Calculated
Shredded Tires		2,142.00	0.00		0.00		*** 2,216.00

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.
** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 07/14/21

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.



		offsite	offsite		
	From Category Waste Summary				
	04/01/2021-06/30/2021			**Total**	
1	BZTIRE (Whole Tires)	3,230.37			
1	BZTIREI (Whole tire intercompany)	-			
				3,230.37	tires in
5	BZRIMO (Rims Out)	<negative>		-	
	BZCOUT (CHIPS OUT)	<negative>		-	
				3,230.37	total in
2	BZCHIN (Tire Chips to Tire Facility)	609.55			
	Quantity Sent Out				
	From Controlled Waste Report				
6	BZTOUT (Whole Tires Out)	-		-	
				-	total tires out
	Quantity Used in Construction				
	From Category Waste Report				
4	BZCHUP (Tire chips up)	52.80		52.80	
3	TANCHP	-		-	
	total chips to construction			52.80	total chips to const

Seneca Meadows, Inc.
1786 Salcman Road
Waterloo, NY 13165
(315) 539-5624
Fax: (315) 539-0653

November 15, 2021

Gregory P. MacLean, P.E.
Regional Solid & Hazardous Materials Engineer
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

RE: SMI Tire Processing Facility
Quarterly (3rd 2021)

Dear Mr. MacLean:

Attached please find the 2021 Third Quarter report for the SMI Tire Processing Facility (SMTPF). The quarter began with 750 tons of whole tires staged for processing, and ended with 600 tons of whole tires staged for processing. Approximately 2028 tons of chipped tires remain in storage in the specially designed containment areas at the SMTPF for ongoing cell construction.

In accordance with 6 NYCRR Part 360-13.1(d)(2)(ii)(f), SMTPF is identifying all customers bringing more than 25 tires per day during this reporting quarter. This information presented in this report constitutes SMI's confidential customer list. Please be advised that this list is confidential, and therefore must not be made available to the public through the Freedom of Information Act.

Should you have any questions regarding this report, or the SMTPF, please call me at (315) 539-5624.

Respectfully yours,
SENECA MEADOWS, INC.

Kyle Black
District Manager

cc: M. Miles, W. Neuman, T. Sisson

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE

QUARTERLY/ANNUAL REPORT FORM FOR A
WASTE TIRE STORAGE FACILITY

Please read and follow all instructions on the back before completion of this report form

Please Type or Print clearly

1.a. This Quarterly Report is for the following quarter (please check only one and fill in appropriate year):

____	1st Quarter:	Jan. 1, 2021	to	March 31, 2021
____	2nd Quarter:	April 1, 2021	to	June 30, 2021
X	3rd Quarter:	July 1, 2021	to	Sept. 30, 2021
____	4th Quarter:	Oct. 1, 2021	to	Dec. 31, 2021

b. ____ This Annual Report is for the period between January 1, 2021 and December 31, 2021

2. FACILITY NAME AND LOCATION
SMI Waste Tire Facility

Street
1786 Salcman Road

City/Village

Town
Seneca Falls

County
Seneca

Telephone Number
(315) 539-5624

DEC Region
8

3. FACILITY OWNER'S NAME
Seneca Meadows, Inc.

Mailing Address
1786 Salcman Road

City/Town/Village
Waterloo

State/Zip Code
New York 13165

Telephone Number
(315) 539-5624

4. FACILITY NAME AND LOCATION
Seneca Meadows, Inc.

Mailing Address
1786 Salcman Road

City/Town/Village
Waterloo

State/Zip Code
New York 13165

Telephone Number
(315) 539-5624

FACILITY INFORMATION

DEC Permit or Registration Number
8-4532-00023/0000-01 | 5 | 0 | S | 0 | 8

DEC Permit Expiration Date
12 / 31 / 2025

Operations Schedule
10 M - F hrs/day 5 days/week
5.5 Saturday

6. RECEIVED: Movement of Tires Through Facility

Month of Quarter	Names and Addresses of Business Providing Incoming Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

LEAVING:

Month of Quarter	Names and Addresses of Business Receiving Outgoing Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

NOTE: Attach and use additional 8 1/2" x 11" sheets, if more room is needed for name and address of major deliveries and/or recipients.

Total quantity of tires at facility:
Beginning at Quarter: see attached
End of Quarter:
Net Gain or Loss:
Beginning of Year:
End of Report Year:
Net Gain or Loss:

7. Environmental Factors

Identify any pesticides used: NONE

a. Have there been any fires during the report period?
☐ Yes ☒ No

Name	Quantity Generated	Application Area (acres)	Date of Application

b. Have there been any other environmental problems during this report period (check all appropriate boxes)

☐ Surface water contamination ☐ Contaminated water ☐ Excessive noise ☐ other (describe) NONE
☐ Groundwater contamination ☐ Increased mosquitoes ☐ Odors

8 CERTIFICATION:
I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as WTF Manager (title) of SMI (entity) to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name: Kyle Black

Signature:

Month | Day | Year: 11 / 15 / 21

3rd Quarter Report
Seneca Meadows, Inc.
Tire Processing Facility
Tire Movement Through Facility
07/01/2021-09/30/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
Whole Tires	750	2,919	3,385	0		600	2,944
Chipped Tires		2,534	232		92		*** 2,028
** Shredded Tires		2,216			0		** 4,970

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.

** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 10/12/21

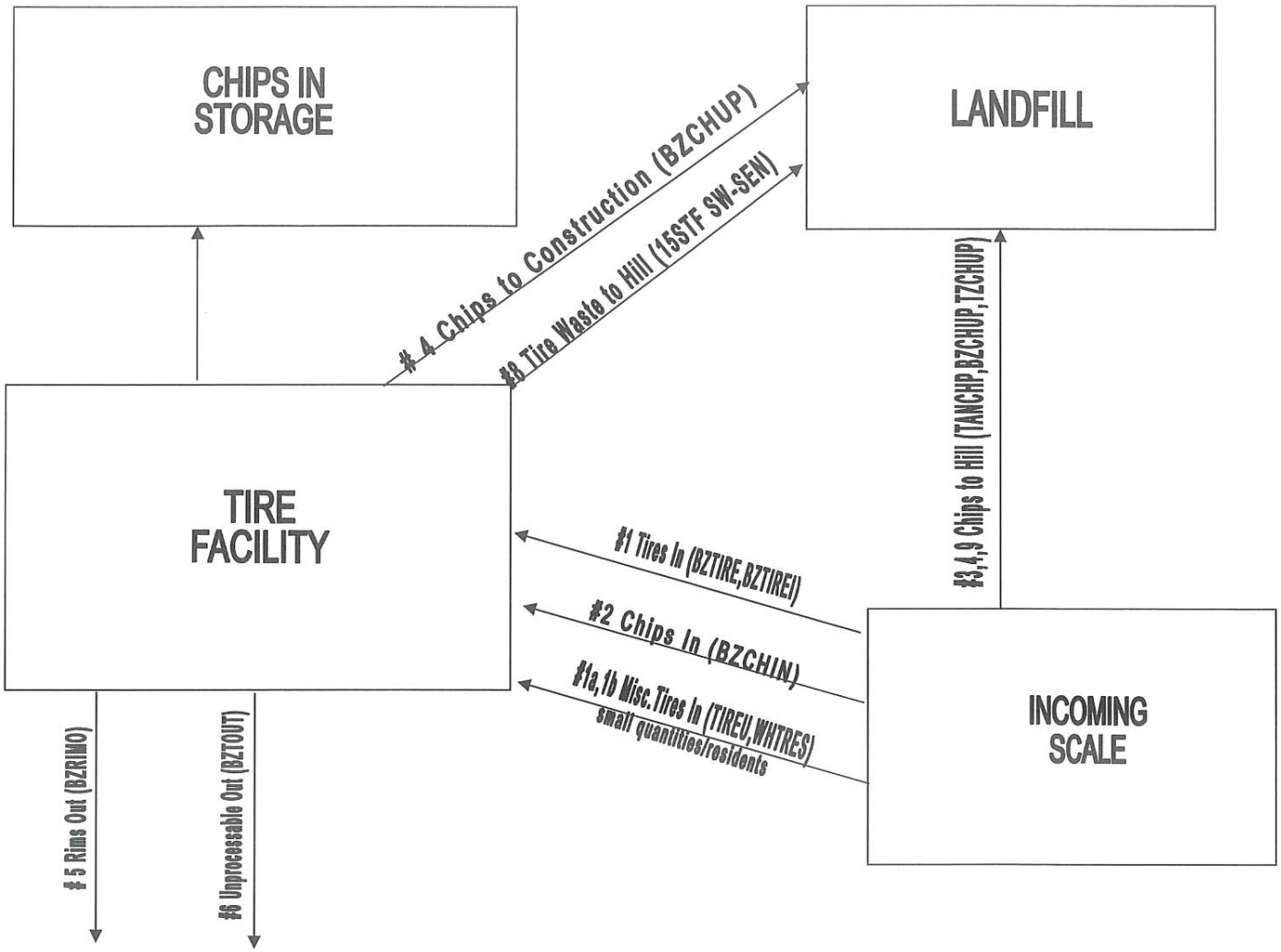
Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.

Seneca Meadows, Inc.
Tire Processing Facility
3rd Quarter Report
Tire Movement Through Facility
07/01/2021-09/30/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
	= Ending Qty of Tires Staged (Whole) from prior Quarterly report	= Ending Qty of Tires in Storage (Tons) from prior Quarterly report	= #1 - #5 BZTIRE -BZRIMO-BZCOUT	= #6 + #8 BZTOUT + (15STF SW-SEN Tire Waste to Hill)		# Supplied by Tate	# Supplied by Tate
Whole Tires	750.00	2,919.00	3,385.09	0.00		600.00	2,944.00
		= Ending Qty of Tires in Storage (Chipped) from prior Quarterly report	= #2 BZCHIN		= # 4 + # 9 + #3 BZCHUP + TZCHUP + TANCHP		Calculated
Chipped Tires		2,534.00	231.61		92.00		*** 2,027.70
		= Ending Qty of Shreds in Storage) from prior Quarterly report			= # 10 WHTMAD-15S&M		Calculated
Shredded Tires		2,216.00	0.00		0.00		*** 4,970.00

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.
** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 10/12/21

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.



			offsite	offsite		
	From Category Waste Summary					
	07/01/2021-09/30/2021				**Total**	
1	BZTIRE (Whole Tires)		3,385.09			
1	BZTIREI (Whole tire intercompany)		-			
					3,385.09	tires in
5	BZRIMO (Rims Out)	<negative>			-	
	BZCOUT (CHIPS OUT)	<negative>			-	
					3,385.09	total in
2	BZCHIN (Tire Chips to Tire Facility)		231.61			
	Quantity Sent Out					
	From Controlled Waste Report					
6	BZTOUT (Whole Tires Out)		-		-	
					-	total tires out
	Quantity Used in Construction					
	From Category Waste Report					
4	BZCHUP (Tire chips up)		92.00		92.00	
3	TANCHP		-		-	
	total chips to construction				92.00	total chips to const

Seneca Meadows, Inc.
1786 Salcman Road
Waterloo, NY 13165
(315) 539-5624
Fax: (315) 539-0653

January 15, 2022

Gregory P. MacLean, P.E.
Regional Solid & Hazardous Materials Engineer
New York State Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, New York 14414

RE: SMI Tire Processing Facility
Quarterly (4th 2021) - Annual

Dear Mr. MacLean:

Attached please find the 2021 Fourth Quarter / Annual report for the SMI Tire Processing Facility (SMTPF). The quarter started with 600 tons of whole tires staged for processing, and ended with 600 tons of whole tires staged for processing. Approximately 1,328 tons of chipped tires remain in storage in the specially designed containment areas at the SMTPF for ongoing cell construction.

In accordance with 6 NYCRR Part 360-13.1(d)(2)(ii)(f), SMTPF is identifying all customers bringing more than 25 tires per day during this reporting quarter. This information presented in this report constitutes SMI's confidential customer list. Please be advised that this list is confidential, and therefore must not be made available to the public through the Freedom of Information Act.

Should you have any questions regarding this report, or the SMTPF, please call me at (315) 539-5624.

Respectfully yours,
SENECA MEADOWS, INC.

Kyle Black
District Manager

cc: M. Miles, W. Neuman, T. Sisson

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID WASTE

QUARTERLY/ANNUAL REPORT FORM FOR A WASTE TIRE STORAGE FACILITY

Please read and follow all instructions on the back before completion of this report form

Please Type or Print clearly

1.a. This Quarterly Report is for the following quarter (please check only one and fill in appropriate year):

____	1st Quarter:	Jan. 1, 2021	to	March 31, 2021
____	2nd Quarter:	April 1, 2021	to	June 30, 2021
____	3rd Quarter:	July 1, 2021	to	Sept. 30, 2021
X	4th Quarter:	Oct. 1, 2021	to	Dec. 31, 2021

b. X This Annual Report is for the period between January 1, 2021 and December 31, 2021

2. FACILITY NAME AND LOCATION
SMI Waste Tire Facility

Street
1786 Salcman Road

City/Village

Town
Seneca Falls

County
Seneca

Telephone Number
(315) 539-5624

DEC Region
8

3. FACILITY OWNER'S NAME
Seneca Meadows, Inc.

Mailing Address
1786 Salcman Road

City/Town/Village
Waterloo

State/Zip Code
New York 13165

Telephone Number
(315) 539-5624

4. FACILITY NAME AND LOCATION
Seneca Meadows, Inc.

Mailing Address
1786 Salcman Road

City/Town/Village
Waterloo

State/Zip Code
New York 13165

Telephone Number
(315) 539-5624

FACILITY INFORMATION

DEC Permit or Registration Number
8-4532-00023/0000-01 | 5 | 0 | S | 0 | 8

DEC Permit Expiration Date
12 / 31 / 2025

Operations Schedule
10 M - F hrs/day 5 days/week
5.5 Saturday

6. RECEIVED: Movement of Tires Through Facility

Month of Quarter	Names and Addresses of Business Providing Incoming Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

LEAVING:

Month of Quarter	Names and Addresses of Business Receiving Outgoing Tires	Quantity	Hauler Name	Hauler Permit #
First	see Attached			
Second				
Third				

NOTE: Attach and use additional 8 1/2" x 11" sheets, if more room is needed for name and address of major deliveries and/or recipients.

Total quantity of tires at facility:
Beginning at Quarter: see attached
End of Quarter:
Net Gain or Loss:
Beginning of Year:
End of Report Year:
Net Gain or Loss:

7. Environmental Factors

Identify any pesticides used: NONE

a. Have there been any fires during the report period?
☐ Yes ☒ No

b. Have there been any other environmental problems during this report period (check all appropriate boxes)

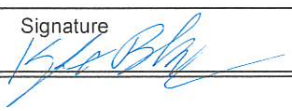
☐ Surface water contamination ☐ Contaminated water ☐ Excessive noise ☐ other (describe) NONE
☐ Groundwater contamination ☐ Increased mosquitoes ☐ Odors

Name	Quantity Generated	Application Area (acres)	Date of Application

8 CERTIFICATION:

I hereby affirm under penalty of perjury that information provided on this form and attached statements and exhibits was prepared by me or under my supervision and direction and is true to the best of my knowledge and belief, and that I have the authority as WTF Manager (title) of SMI (entity) to sign this report form pursuant to 6 NYCRR Part 360. I am aware that any false statement made herein is punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

Printed/Typed Name: Kyle Black

Signature: 

Month | Day | Year: 0 1 | 1 5 | 2 2

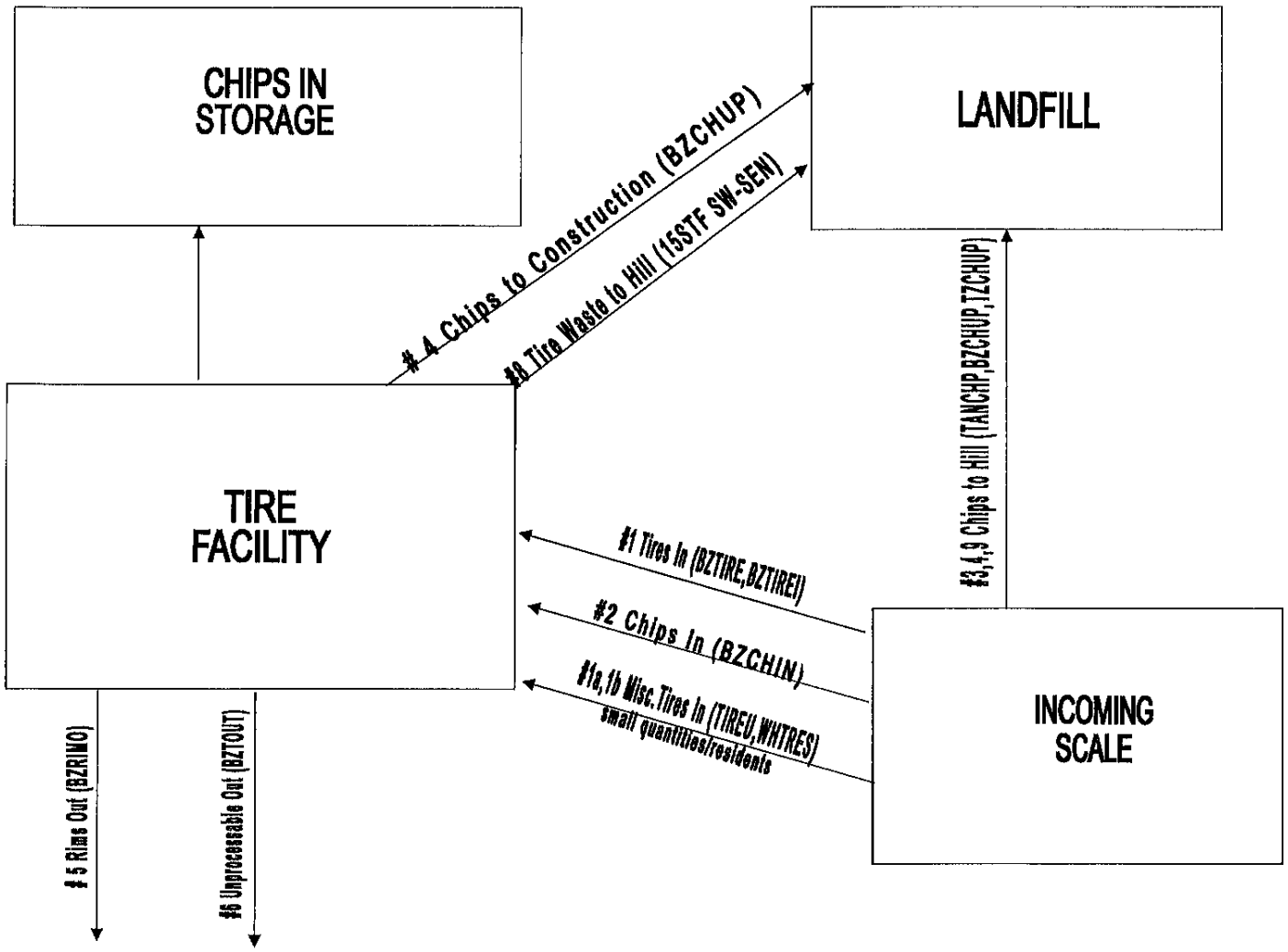
4th Quarter Report
Seneca Meadows, Inc.
Tire Processing Facility
Tire Movement Through Facility
10/01/2021-12/31/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
Whole Tires	600	2,944	3,939	0		600	1,707
Chipped Tires		2,028	1,843		96		*** 1,328
** Shredded Tires		4,970			0		** 9,575

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.

** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 01/31/22

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.



	offsite	**offsite**			
	From Category Waste Summary				
	10/01/2021-12/31/2021			**Total**	
1	BZTIRE (Whole Tires)		3,939.42		
1	BZTIREI (Whole tire intercompany)		-		
				3,939.42	tires in
5	BZRIMO (Rims Out)	<negative>		-	
	BZCOUT (CHIPS OUT)	<negative>		-	
				3,939.42	total in
2	BZCHIN (Tire Chips to Tire Facility)		1,843.19		
	Quantity Sent Out				
	From Controlled Waste Report				
6	BZTOUT (Whole Tires Out)		-	-	
				-	total tires out
	Quantity Used in Construction				
	From Category Waste Report				
4	BZCHUP (Tire chips up)		96.30	96.30	
3	TANCHP		-	-	
	total chips to construction			96.30	total chips to const

Annual Report
Seneca Meadows, Inc.
Tire Processing Facility
Tire Movement Through Facility
01/01/2021-12/31/2021

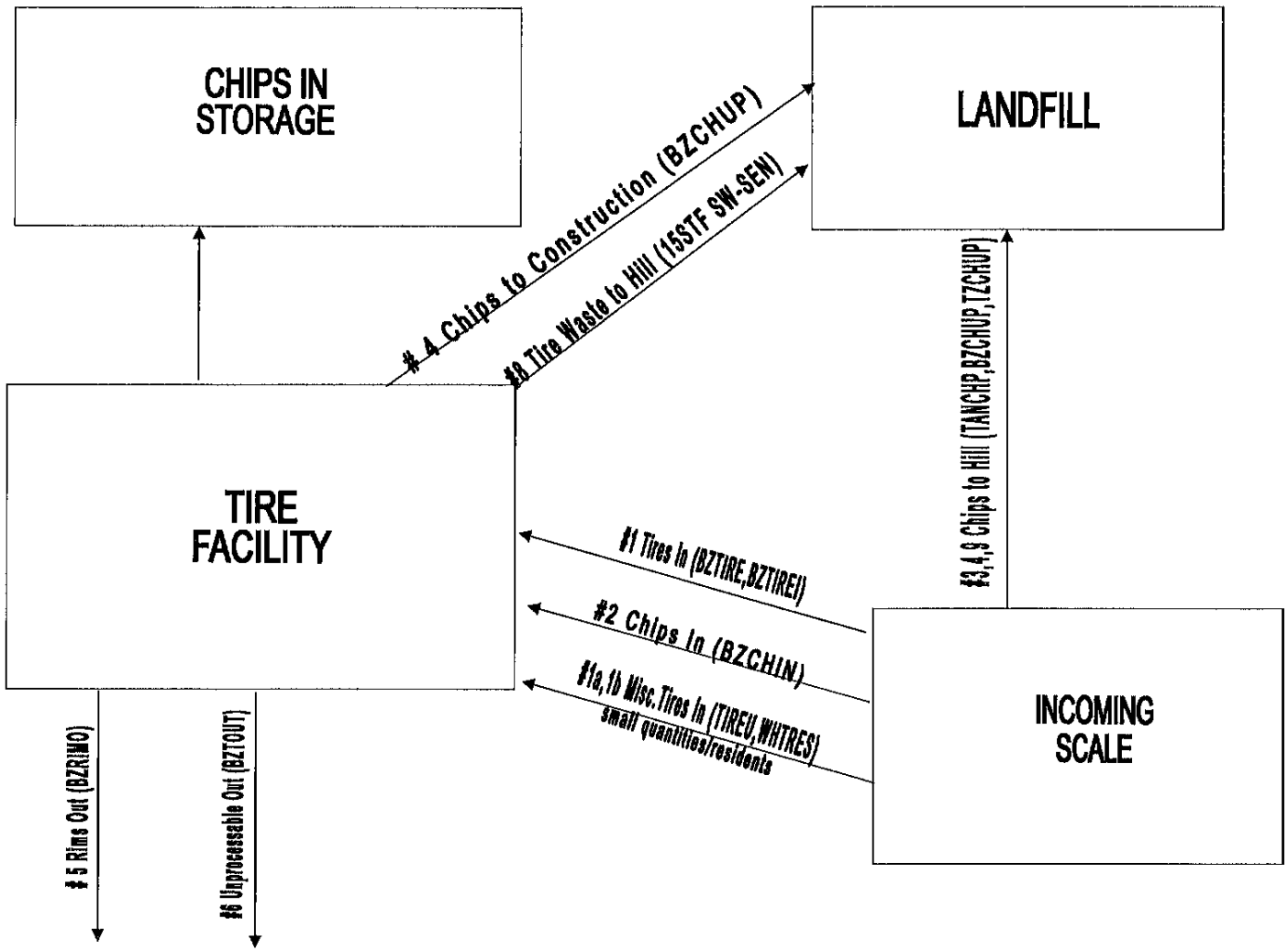
	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
Whole Tires	390	528	13,542	0		600	1,707
Chipped Tires		946	3,008		547		*** 1,328
** Shredded Tires					0		** 9,575

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.

** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis

*** Based on an actual field survey Dated 01/31/22

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.



			offsite	offsite	
	From Category Waste Summary				
	01/01/2021-12/31/2021			**Total**	
1	BZTIRE (Whole Tires)		13,542.41		
1	BZTIREI (Whole tire intercompany)		-		
				13,542.41	tires in
5	BZRIMO (Rims Out)	<negative>		-	
	BZCOUT (CHIPS OUT)	<negative>		-	
				13,542.41	total in
2	BZCHIN (Tire Chips to Tire Facility)		3,008.30		
	Quantity Sent Out				
	From Controlled Waste Report				
6	BZTOUT (Whole Tires Out)		-	-	
				-	total tires out
	Quantity Used in Construction				
	From Category Waste Report				
4	BZCHUP (Tire chips up)		547.10	547.10	
3	TANCHP		-	-	
	total chips to construction			547.10	total chips to const

Seneca Meadows, Inc.
Tire Processing Facility
4th Quarter Report
Tire Movement Through Facility
10/01/2021-12/31/2021

	Starting Quantity Staged for Processing (Tons)	Starting Quantity in Storage (Tons)	Quantity of Incoming (Tons)	Quantity Sent Out for Processing or Waste to Hill (Tons)	*Quantity of Chipped Tires Used in Landfill Construction (Tons)	Ending Quantity of Tires Staged for Processing (Tons)	Ending estimated Quantity of Tires in Storage (Tons)
	= Ending Qty of Tires Staged (Whole) from prior Quarterly report	= Ending Qty of Tires in Storage (Tons) from prior Quarterly report	= #1 - #5 BZTIRE -BZRIMO-BZCOUT	= #6 + #8 BZTOUT + (15STF SW-SEN Tire Waste to Hill)		# Supplied by Tate	# Supplied by Tate
Whole Tires	600.00	2,944.00	3,939.42	0.00		600.00	1,707.00
		= Ending Qty of Tires in Storage (Chipped) from prior Quarterly report	= #2 BZCHIN		= # 4 + # 9 + #3 BZCHUP + TZCHUP + TANCHP		Calculated
Chipped Tires		2,028.00	1,843.19		96.30		*** 1,328.31
		= Ending Qty of Shreds in Storage) from prior Quarterly report			= # 10 WHTMAD-15S&M		Calculated
Shredded Tires		4,970.00	0.00		0.00		*** 9,575.00

* Chipped tires are used in leachate / gas collection system construction or as a beneficial use daily cover.
** Shredded tires utilized for daily cover as Beneficial Use Material & reported in Part 360 Incoming Waste Report on a quarterly basis
*** Based on an actual field survey Dated 01/31/22

Note: Rims removed from incoming whole tires are subtracted from the "Quantity of Incoming Tires" in the quarter in which a full roll-off box of rims are weighed, and taken off-site.

5.0 UNAUTHORIZED SOLID WASTE/RADIATION MONITORING

In accordance with Condition 36 of SMI's 6 NYCRR Part 360 Operating Permit, the following materials are considered unauthorized waste and cannot be disposed of in the SENECA MEADOWS Landfill:

- Waste identified in 6 NYCRR Part 362-2.1(b);
- Any intact steel or plastic drums larger than 10-gallon capacity that has not been crushed and had at least one end removed or has not been shredded unless otherwise approved by the Department in writing;
- Any container which has held hazardous waste and is not empty according to 6 NYCRR Part 371.1(f);
- Any container of 5 to 10-gallon capacity shall not be disposed of at this facility unless the containers have been crushed, compacted, or rendered incapable of holding any liquids except that small quantities of dry wastes may be containerized for disposal in this manner;
- Any regulated medical waste, which has not been treated in accordance with the requirements of 6 NYCRR Subpart 365-2 or 10 NYCRR Subpart 10-3;
- Any industrial or commercial liquids, sludges, or slurries which contain any free liquids or are less than 20 percent solids;
- Any waste(s) regulated by 6 NYCRR Part 364 unless the waste hauler possesses a valid Part 364 permit; and,
- Tires which have not been cut into a minimum of two equal pieces.

Sludges and chemical, industrial, commercial, food, or process wastes are reviewed for compliance with this condition by SENECA MEADOWS prior to accepting these wastes for disposal at this facility. Records relating to the acceptance of these wastes are provided to our on-site DEC Monitor on a monthly basis and are available on-site for NYSDEC inspection.

SENECA MEADOWS has implemented a full-time Radiation Monitoring Program with the use of a gate system on both of the in-bound scales. Vehicles are screened with a Ludlum model 375P monitoring device if the gate system indicates a detection. Table 5-1 contains the radiation incidents that occurred during the radiation monitoring.

Unauthorized materials that have been co-mingled with incoming solid waste are routinely retrieved from the SENECA MEADOWS Landfill for proper disposal or returned to the generator. Incidents where unauthorized waste required special considerations are identified in the following paragraph.

UNAUTHORIZED WASTE INCIDENTS

SMI's waste screening procedures require retrieved unauthorized waste, which can be safely handled, to be sent back with the hauler who delivered it to the Site. According to SMI policy, if an unauthorized material is discovered after the hauler has left the premises, the hauling company (if known) is contacted to retrieve the container, or SMI prepares it for appropriate disposition. Containers holding liquid or unauthorized solid waste are segregated from the working face and temporarily stored, on-site, for NYSDEC inspection and/or sampling/characterization.

In 2021, there were 11 documented events (records on file at SMI's office) where improperly permitted waste, unacceptable co-mingled waste, or unacceptable industrial waste materials (drums/containers, medical waste, asbestos, fluorescent lamps/ballasts, compressed gas tanks, air conditioners/refrigeration equipment, materials with free liquids, etc.) were discovered, rejected from the site, and returned to the hauler. These materials were detected during SMI's random waste inspections; or as a result of SMI's trained spotters, equipment operators, scale house personnel, or our program for randomly monitoring the receipt of incoming waste loads for compliance. SMI maintains contracts with Stericycle and Clean Harbors to handle the removal of unauthorized materials received on site.

In addition to these recorded events, SMI also rejected numerous incoming waste loads where the hauler's vehicle was improperly covered; the hauler lacked the necessary approvals, or visible 6 NYCRR Part 364 markings; the hauler contained a hot load; the presence of free liquids was observed; or where acceptance pre-conditions were not followed by the hauler/generator (i.e., dusty materials delivered during windy conditions, improper packaging, labeling, and/or unapproved delivery timeframes).

TABLE 5-1. RADIATION MONITORING INCIDENT REPORT

Table 5-1

Radiation Monitoring Incident Report

Incident Number	Received		Hauler	Origin	Reading (µrem/hr.)	Nuclided ID	Source Disposal Status	Accepted	Removed from Site
	Date	Time						Date	Date
1	4/17/2021	7:50	Aguilar	West Nyack	<2000	I-131	Accepted	4/19/2021	
2	4/17/2021	12:10	LJ	Bronx, NY	4300	CO-56 , CO-58, and several other isotopes	Rejected		8/2/2021
3	4/22/2021	11:05	Cemen Trucking LLC	Bronx, NY	<2000	I-131	Accepted	4/22/2021	
4	4/26/2021	8:00	Rangel	Bronx, NY	24	I-131	Accepted	4/26/2021	
5	4/27/2021	11:30	GOWAY	Bronx, NY	1370	I-131	Accepted	5/3/2022	
6	4/28/2021	7:01	Fiacco	Troy, NY	450	I-131	Accepted	4/28/2021	
7	4/29/2021	6:23	SDF Trucking	Flushings, NY	1200	I-131	Accepted	4/29/2021	
8	5/5/2021	1:45	Fiacco	Schenectady, NY	341	I-131	Accepted	5/5/2022	
9	5/12/2021	1:00	GottaDo	Schenectady, NY	<2000	I-131	Accepted	5/12/2021	
10	5/24/2021	6:45	MBI	Kingston, Ny	1630	I-131	Accepted	5/28/2021	
11	7/10/2021	8:18	Slayer	Brooklyn, NY	<2000	Ga-67	Accepted	5/13/2021	
12	7/16/2021	10:08	GottaDo	Bronx. NY	10	unidentified/found	Accepted	7/17/2021	
13	8/17/2021	3:43	Button	Oyster Bay, NY	136	I-131	Accepted	8/18/2021	
14	9/7/2021	2:08	GottaDo	Hillsdale, NY	1220	I-131	Accepted	9/8/2021	
15	9/11/2021	1:32	JR Carriers	Flushings, NY	36	I-131	Accepted	9/13/2021	
16	9/21/2021	9:11	GottaDo	Sprakers, NY	1840	I-131	Accepted	10/21/2021	
17	9/24/2021	8:30	Azuay	Jamaica, NY	1020	I-131	Accepted	10/24/2021	
18	9/27/2021	3:29	IMP Trucking	Flushings, NY	120	I-131	accepted	9/28/2021	
19	9/29/2021	6:42	LMP	Jamaica, NY	1100	I-131	Accepted	9/29/2021	
20	9/29/2021	7:12	LMP	Flushings, NY	125	I-131	Accepted	9/29/2021	
21	9/30/2021	7:07	SDF Trucking	Flushings, NY	86	I-131	Accepted	9/30/2021	
22	10/7/2021	12:05	Azuay	Flushings, NY	23	I-131	Accepted	10/7/2021	
23	10/15/2021	10:18	MBI	Catskill, NY	928	Lu-177	Accepted	10/15/2021	
24	10/19/2021	3:38	She's The Boss	West Nyack, NY	1480	I-131	Accepted	11/11/2021	
25	11/11/2021	5:00	Azuay	Brooklyn, NY	1130	I-131	Accepted	11/11/2021	
26	11/13/2021	10:22	Classic	Brooklyn, NY	1540	I-131	Accepted	12/6/2022	
27	11/19/2021	7:45	MBI	Kingston, Ny	473	I-131	Accepted	11/19/2021	

* - This indicates occurances where there was a radioactive material present but the energy level of the source was so low that it could not be identified

6.0 LANDFILL GAS COLLECTION AND CONTROL

Multiple repairs, modifications and enhancements occurred to the gas collection system for the following landfill areas during the calendar year of 2021: the SMI landfill (SMILF), the Southeast Landfill (SELF), the Southeast Bumpout landfill (SBO), the Western Expansion landfill (WEX), and the Northeast Expansion landfill (NEX). These enhancements were conducted to further assist in landfill gas collection efficiency, to reduce odors and to limit surface emissions at the Site. Newly installed landfill gas (LFG) collectors were connected to the existing LFG collection header system delivering collected LFG to the Renewable Resource Park located on the East Side of Route 414.

The following is a summary of the 2021 major construction efforts for each landfill area:

- SMILF
  - No collectors were installed during 2021.
  - No collectors were removed during 2021.
- SELF
  - No collectors were installed during 2021.
  - Eleven (11) inactive GWs and one (1) inactive HC were approved to be made active once again.
  - Removed seven (7) GW and four (4) HC from the SELF LFG collection system.
    - The collectors were removed due to waste overfill or were no longer making a beneficial contribution to the LFG collection system.
- SBO
  - No collectors were installed during 2021.
  - No collectors were removed during 2021.

- WEX
  - No collectors were installed during 2021.

- Removed one (1) Tirechip Collector (TC) from the WEX LFG collection system.
  - The collectors were removed were no longer making a beneficial contribution to the LFG collection system.
- Installed eight (8) Vertical GWs, three (3) HCs, and two (2) HCDs.
  - The new collectors were connected to laterals which connect to the existing LFG collection header system.
- Removed three (3) HCs and one (1) HCDs from the NEX LFG collection system.
  - The collectors became watered out within the waste mass and were no longer making a beneficial contribution to the LFG collection system.

- NEX
  - Installed ten (10) Vertical GWs and eleven (11) HSCs.
    - The new collectors were connected to laterals which connect to the existing LFG collection header system.
  - Twenty-eight (28) inactive GWs, two (2) inactive HCs, one (1) inactive HSC, one (1) inactive PW, and eight (8) inactive TCs were approved to be made active once again.
  - Removed nine (9) Vertical GWs, thirty-three (33) HCs, three (3) Horizontal Collectors-Direct Burials (HDC), one (1) HSCs, one (1) PW, and one (1) TC from the NEX LFG collection system.
    - The collectors were removed due to waste overfill, final cover placement or became watered out within the waste mass and were no longer making a beneficial contribution to the LFG collection system.

PLANNED ACTIVITIES FOR 2022

SMI is currently scheduling the following proposed landfill gas collection and control system related construction activities for 2022:

- Stages 5 and 6 of the Western Expansion

- Install twenty-five (25) vertical landfill gas collection wells and seventy-five (75) horizontal gas collection wells.
- Install approximately two-thousand five-hundred feet (2,500') of vertical collector drill depth.
- Install approximately twenty-thousand feet (20,000) of six-inch diameter (6") HCs and HCDs.
- Install approximately thirteen-thousand feet (13,000') of vacuum line, which will connect to the existing LFG collection header system:
  - Eighteen-inch (18") line – approximately two-thousand feet (2,000')
  - Eight-inch (8") line – approximately one-thousand feet (1,000')
  - Six-inch (6") line – approximately ten-thousand feet (10,000')

- Continuous evaluation and the replacement of the existing LFG collection vertical wells, laterals and headers to control emissions, improved collection efficiency and control site-related odors.

7.0 COST ESTIMATES AND FINANCIAL ASSURANCE DOCUMENTS

Financial assurance for closure and post-closure care for the SENECA MEADOWS facility are provided by two surety bonds issued by Argonaut Insurance Company. Based on cost estimates contained in the 2021 Annual Report, the required financial assurance for closure would be $32,393,070 and $28,108,213 for post-closure. The post-closure estimates are elevated from those presented in the 2020 Annual Report, due to the addition of Stage 5 to the uncapped landfill footprint and the CPI index (3.9%) for 2021. Closure/post closure assurance amounts are established in accordance with the requirements of the NYSDEC; Section 5.0 of SMI's December 2006 Engineering Report, and previous updates to the closure/post-closure cost estimates. Closure/post-closure funding is currently provided in separate surety bonds for closure and post-closure. The surety bond for closure and post-closure will be adjusted to the updated value upon written NYSDEC approval.

The following narrative, and the closure and post-closure cost estimate tables provided in this Annual Report, provide the updated closure/post-closure cost estimate. Adjustments to the values of the closure/post-closure bonds will be made by Waste Connections, Inc. based on the updated closure/post-closure cost estimates, following written approval by the NYSDEC.

CLOSURE COST ESTIMATE

SMI updated its current evaluation of the maximum anticipated waste footprint requiring placement of final cover over the constructed landfills throughout their remaining life. The analysis is summarized in Table 7-1 and was performed for the permitted landfill configuration. Based on SMI's evaluation and the planned 2022 construction, the maximum anticipated area for unconstructed final cover is anticipated to occur during 2022. Consequently, this represents the greatest closure cost scenario. As indicated in Table 7-1, the closure cost includes constructing new final cover over approximately 29.1 acres which included 6.1 acres of final cover. The areas of future final cover installation are assumed to utilize a geosynthetic cover system, rather than a clay

barrier cover system. In plateau areas, a geosynthetic clay liner (GCL) is included beneath the geomembrane.

As shown in Table 7-2, the updated estimate indicates that the greatest cost of closure of the Landfill in current dollars amounts to $32,392,070. This represents an increase in the estimated cost for closure from last year's estimate due to the addition of Stage 5 to the uncapped landfill footprint and the CPI index for 2021

POST-CLOSURE CARE COST ESTIMATE

The post-closure cost is calculated as the present value of annual expenditures for Seneca Meadows Landfill over the respective 30-year post-closure period. This post-closure estimate is based on the previous estimates developed for the facility. The post-closure period is defined as the period starting immediately following installation of the last final cover phase (anticipated to be in 2028) and extending for 30 years beyond (i.e., 2058). In preparing the updated post-closure cost estimate, an upward adjustment of 3.9% was made to the prior year's unit costs. The 3.9% increase is from the U.S. Bureau of Labor and Statistics' 2020 Consumer Price Index data for the Northeast.

Post-closure costs are presented in 2022 dollars. A net present worth is calculated assuming funds are invested in an interest-bearing account at the current time and generate a post-inflation rate of return of 5% that compounds annually. Although costs will generally rise in the future due to inflation, this cost escalation is accounted for by using a post-inflation rate of return, which means that the actual rate of return in a given year would approximately equal the sum of the post-inflation rate of return and the rate of inflation for that year. Future annual cost escalations are assumed to equal 2%[1]. A summary of the post-closure care costs, including the associated schedule for commencement of post-closure activities, is provided in Table 7-3.

[1] Interest rate is based long-term projected composite index of 2.18% (USACE, Civil Works Construction Cost Index System, 9/13, Table A-2 – Long term index of 1.9%, adjusted by 1.15 for New York)

The current post-closure leachate management cost estimate incorporates updated unit treatment costs for on-site pre-treatment followed by discharge to the Town of Seneca Falls' publicly owned treatment works (POTW). Tables 7-3D and 7-3E present the predicted leachate management costs and volumes, respectively, during the post-closure period. The on-site treatment system utilizes reverse osmosis to generate a stream of treated leachate, suitable for discharge to the local POTW, and a stream of concentrated leachate. The system recovery is assumed to operate at an efficiency of 75%, meaning the stream of concentrated leachate would equal 25% of the pre-treatment inflow. The on-site treatment system has been sized to treat approximately 120,000 gallons of leachate per day. The current design flow rates have been developed for current conditions and are well above the anticipated post-closure flow rate for leachate. The estimated pre-treatment cost of $0.0318/gallon is based on SMI's in-house estimated costs for plant operation during 2021. It was assumed that 100% of leachate would be pre-treated, with 75% of the volume discharged to the Seneca Falls POTW (e.g., the treated leachate). The treatment and disposal of pre-treated leachate is estimated to be $0.0145/gallon based on costs incurred in 2021. The concentrate stream (i.e., 25% of the leachate volume to be pre-treated) was assumed to be further treated. The cost for treatment of the concentrate stream is estimated to be $0.0789 /gallon based on anticipated future costs for the landfill.

The post-closure cost estimate is summarized in Table 7-3, with further detail in Tables 7-3A through 7-3E. As shown in the updated post closure cost summary, the present value for post-closure care is calculated at $28,108,213. This represents an increase from the prior year's estimate. The increase is primarily attributable to the update to the assumed phasing of final cover and the CPI index. Since the last stage of final cover construction is anticipated to occur into 2028, the post-closure period is assumed to commence on January 1, 2029, and extend for 30 years thereafter.

TABLE 7-1. FINAL COVER INSTALLATION TIMELINE

TABLE 7-2. CLOSURE COST ESTIMATE (SMI, SOUTHEAST/EX-2, AND EX-1 [STAGE 3&4] LANDFILLS)

TABLE 7-3. POST-CLOSURE CARE COST ESTIMATE SUMMARY

TABLE 7-3A. POST-CLOSURE MONITORING COSTS BASIS

TABLE 7-3B. FINAL COVER REPAIR COST BASIS

TABLE 7-3C. MISCELLANEOUS POST-CLOSURE MAINTENANCE / REPAIR COSTS BASIS

TABLE 7-3D. ANNUAL LEACHATE DISPOSAL COST BASIS

TABLE 7-3E. ANNUAL LEACHATE VOLUMES

Seneca Meadows, Inc.

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Table 7-1

Final Cover Installation Timeline

Seneca Meadows Landfill

Year	Permitted Footprint	Existing Cap Area	New Cap Area	Constructed Cap Area	Constructed Liner Footprint	Uncapped and Lined Area	Notes
2022 Year End	350.5	177.7	0.0	177.7	350.5	172.8	29.1 acres of cap was installed in 2021, which included 6.1 acres of final cover. EGC on West face of Stage 7-8 not included as fully constructed area.
2023 Year End	350.5	177.7	37.5	215.2	350.5	135.3	
2024 Year End	350.5	215.2	0.0	215.2	350.5	135.3	
2025 Year End	350.5	215.2	37.5	252.7	350.5	97.8	
2026 Year End	350.5	252.7	37.5	290.2	350.5	60.3	
2027 Year End	350.5	290.2	22.8	313.0	350.5	37.5	
2028 Year End	350.5	313.0	37.5	350.5	350.5	0.0	

Seneca Meadows, Inc.

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Table 7-2

Closure Cost Estimate

Seneca Meadows Landfill

Direct Costs

Item No.	Item Description	Qty.	Unit	Unit Cost (12)	Item Cost
1	Barrier protection layer (2) (2a)	172.8	acre	$28,853	$4,985,804
2	Topsoil, from On-Site Areas (3)	172.8	acre	$13,882	$2,398,823
3	Drainage Layer (GCD) (4)	172.8	acre	$22,909	$3,958,660
4	Subdrain Collection Pipes (4a)	122,339	LF	$19.25	$2,355,362
5	40 mil LLDPE membrane (5) (13)	150.8	acre	$16,794	$2,532,595
6	Gas Venting Layer (GCD) (4)	150.8	acre	$26,840	$4,047,545
7	GCL (Plateau) (6)	39.3	acre	$20,211	$794,278
8	Diversion swales (7)	47,677	LF	$26.73	$1,274,569
9	Cover Tie-in and Perimeter Channel (7a)	10,120	LF	$94.10	$952,315
10	Downchutes (8)	4,550	LF	$133	$605,077
11	Stilling Basins / Road Crossings (8)	16	ea	$12,682	$202,913
12	Gas Collection System (9)	150.8	acre	$8,027	$1,210,519
13	Hydroseeding and mulch	172.8	acre	$14,685	$2,537,607
14	Leachate Disposal Costs	2,720,000	gallon	$0.20	$544,000
				Total Direct Cost:	**$28,400,066**

Indirect Costs (Composite of All Landfills)

14	Mobilization/Demobilization	2%	of Direct Costs		$568,001.32
15	Survey	2%	of Direct Costs		$568,001
16	SWPPP Compliance and Dust Control (10)	2%	of Direct Costs		$568,001
17	Engineering and Certification (11)	1	LS	$1,394,000	$1,394,000
18	Bonding	1%	of Direct Costs		$284,001
19	Tire Processing Facility Closure (14)	1	LS	$610,000	$610,000
				Total Indirect Cost:	**$3,992,005**
				Total Closure Cost:	**$32,392,070**

Notes/Assumptions:

1 This closure cost estimate is based on an estimated worst-case site closure scenario, which would occur prior to the construction of any additional final cover (i.e., prior to final cover construction slated for 2021). All remaining areas will be capped with a geosynthetic final cover system. On plateau areas, a geosynthetic clay liner (GCL) is added beneath the geomembrane. All areas of the landfill are assumed to be filled to an extent that no additional material will be necessary to create positive drainage off the footprint and over the perimeter berms.

2 Barrier protection layer (BPL) may be obtained from stockpiles from the Stages 5 and 6 footprint excavation, the Renewable Resource Park (RRP) South area, and the Meadow View mine area. The unit cost used in this estimate is based on 2016 Contractor bid price and sourcing the material from the Meadow View mine area. Costs include excavation, hauling, and placement of material and are based on 2016 Contractor bid price of $5.30/sy for a 2-ft-thick layer.

2a The 18-inch-thick barrier layer may be obtained from stockpiles from the Stages 5 and 6 footprint excavation, the RRP South area, and the Meadow View mine area. The unit cost used in this estimate ($23.48/CY) is based on sourcing the material from the Meadow View mine area. Costs include excavation, hauling, and placement of material and are based on per cubic yard pricing provided by an independent contractor retained by Seneca Meadows Inc. for the construction of the Stages 7 and 8 baseliner construction.

3 Topsoil from on-site sources is from stockpiles, RRP South footprint, and the Meadowview Mine footprint, as well as existing topsoil placed on intermediate cover areas (where present). Unit cost for topsoil from on-site sources is $2.55/sy based on 2016 Contractor bid price and includes topsoil stripping, stockpiling, and reinstallation. Approximately 67.8 acres of intermediate cover on the SMI Landfill and SELF/EX-2 include an estimated 3 inches of topsoil. Prior to final cover placement, the topsoil in these areas will be stripped and retained for reuse. This is expected to generate approximately 27,300 cy. Excluding this reusable volume, a prior soil balance analysis for the site predicted a topsoil deficit of approximately 71,600 cy. Including this reusable volume from intermediate cover areas, the estimated topsoil deficit is 44,300 cy, equivalent to approximately 55 acres of final cover. Prior to placing Stages 5 and 6 into operation, the landfill footprint is approximately 41 acres smaller than the permitted footprint. Consequently, the topsoil deficit will require the import of material to cover approximately 14 acres (i.e., 55 acres minus 41 acres). This volume of topsoil will be purchased and imported to the site. The unit cost for imported topsoil is based on $35/CY for material purchase, hauling, and placement.

4 GCD material costs based on 2016 orders, are $0.34/sq.ft. and $0.27/sq.ft. for drainage layer and gas venting layer material, respectively. Installation costs are included based on 2016 Contractor bid prices. Gas venting layer cost includes select subgrade preparation.

4a Quantities for subdrain collection piping are based on an average linear footage per acre from the 2016 final cover design. Unit cost for subdrain collection piping based on 2016 Contractor bid price.

5 Geomembrane cost is based on $0.185/sq.ft from a 2016 quote by a manufacturer, plus installation-related 2016 Contractor bid price of $1.42/sy.

6 GCL unit cost includes $0.33/sq.ft. for material and shipping based on 2016 quote from manufacturer plus a 1.8% CPI increase in 2017 Annual Report, a 2.2% CPI increase in 2018, and a 1.6% CPI increase in 2019. An additional 25% is added for installation-related costs.

7 Diversion swale unit cost is based on 2016 Contractor bid price. Swale quantities are estimates and are prorated based on total swale linear footage and fraction of landfill remaining to be capped.

7a Cover tie-in and perimeter channel provision and unit cost based on 2016 final cover bid structure and contractor bid price.

8 Downchute unit cost is based on 2016 Contractor bid price for Flexamat downchutes. Downchute quantitiies are estimates and are prorated based on total downchute linear footage and fraction of landfill remaining to be capped. Stilling basins and road crossings unit cost is based on 2016 Contractor bid price.

9 Gas collection system includes gas wells, vents, piping. Per acre cost based on 2016 Contractor bid price.

10 SWPPP compliance and dust control prices based on 2016 Contractor bid prices.

11 Engineering and certification cost is based on final cover installation occuring over two construction seasons. For each construction season, a set of contract documents will be created, including construction drawings (approximately 30 sheets at $5,000 per sheet for engineering and drawing creation), technical specifications ($15,000), and bid form ($5,000). Bid assistance is assumed to cost $15,000 per year for two years. Full-time construction observation is estimated to cost $420,000 per year (based on three on-site staff for 50 hours per week, 35 weeks per year, $80/hr) for two years. Miscellaneous office support is estimated to cost $42,000 per year (based on one senior engineer, 8 hours per week, 35 weeks per year, $150/hr) for two years. Two certification reports are assumed, with each report costing $50,000.

12 Each year since 2016 the unit prices have been increased based on the CPI. The CPI increased by 3.9% from 2021 to 2022 based on the US Bureau of Labor Statistics.

13 Installed 40 mil exposed geomembrane liner will be used as the based to the final cap for this area.

14 Based on historic maximums of tires stored on site documented in quarterly reports from 2015 to 2019, The Maximum quantity of processed Tire chips stored at the Tire Processing Facility under current operating conditions is approximately 24,000 tons. As operating conditions are not expected to change in 2020, this quantity remains a reasonable worst case condition for 2020. Using typical conversion factors of approximately 1200 pounds per cubic Yard and 40 tires per cubic yard, this storage equates to approximately 1,600,000 processed whole tire equivalents. Therefore, the maximum required surety to be maintained by Seneca Meadows Inc. for stored processed tire chips is $400,000. In accordance with the above, the total required surety for the TPF will be $610,000.

Seneca Meadows, Inc.
2021 Annual Report
Post-Closure Care Cost Estimate
Table 7-3 - Cost Summary

Current Year: 2022
Annual Rate of Return on Investment, Post-Inflation: 5.0%

Year	Monitoring							Maintenance/Repairs								Leachate Management			Total Annual Cost (2022 Dollars)	Investment Duration (Years) from Current Year	Net Present Value, 5% Post-Inflation Rate of Return
	Groundwater	Surface Water	Sediment	Leachate	Condensate	Landfill Gas	Subtotal	Final Cover	Drainage Structures	Gas System	Groundwater Monitoring System	Leachate Collection System	Mowing	Security	Subtotal	Treatment & Disposal	Miscellaneous	Subtotal			
2029	$ 89,083	$ 14,960	$ 14,173	$ 71,424	$ 2,587	$ 94,707	$ 286,933	$ 404,723	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 1,002,439	$ 1,568,403	$ 416,169	$ 1,984,573	$ 3,273,945	7	$ 2,326,731
2030	$ 89,083	$ 14,960	$ 14,173	$ 71,424	$ 2,587	$ 94,707	$ 286,933	$ 353,521	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 897,545	$ 1,150,886	$ 416,169	$ 1,567,055	$ 2,751,533	8	$ 1,862,346
2031	$ 89,083	$ 14,960	$ 14,173	$ 71,424	$ 2,587	$ 94,707	$ 286,933	$ 294,336	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 892,052	$ 1,042,937	$ 416,169	$ 1,459,107	$ 2,638,092	9	$ 1,700,538
2032	$ 89,083	$ 14,960	$ 14,173	$ 71,424	$ 2,587	$ 94,707	$ 286,933	$ 265,747	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 809,770	$ 976,200	$ 416,169	$ 1,392,370	$ 2,489,073	10	$ 1,528,075
2033	$ 89,083	$ 14,960	$ 14,173	$ 71,424	$ 2,587	$ 94,707	$ 286,933	$ 203,051	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 800,767	$ 976,200	$ 416,169	$ 1,392,370	$ 2,480,070	11	$ 1,450,046
2034	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 203,051	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 747,075	$ 976,200	$ 416,169	$ 1,392,370	$ 2,406,917	12	$ 1,340,262
2035	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 187,377	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 785,093	$ 976,200	$ 416,169	$ 1,392,370	$ 2,444,936	13	$ 1,296,602
2036	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 171,703	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 715,727	$ 976,200	$ 416,169	$ 1,392,370	$ 2,375,569	14	$ 1,199,824
2037	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 162,173	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 759,889	$ 976,200	$ 416,169	$ 1,392,370	$ 2,419,732	15	$ 1,163,932
2038	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 690,523	$ 976,200	$ 416,169	$ 1,392,370	$ 2,350,365	16	$ 1,076,730
2039	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 744,215	$ 976,200	$ 416,169	$ 1,392,370	$ 2,404,058	17	$ 1,048,882
2040	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 690,523	$ 976,200	$ 416,169	$ 1,392,370	$ 2,350,365	18	$ 976,625
2041	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 744,215	$ 976,200	$ 416,169	$ 1,392,370	$ 2,404,058	19	$ 951,367
2042	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 201,697	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 690,523	$ 976,200	$ 416,169	$ 1,392,370	$ 2,350,365	20	$ 885,828
2043	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 201,697	$ 481,574	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 1,020,982	$ 976,200	$ 416,169	$ 1,392,370	$ 2,680,825	21	$ 962,262
2044	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	22	$ 744,560
2045	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	23	$ 726,585
2046	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	24	$ 675,337
2047	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	25	$ 659,034
2048	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	26	$ 612,551
2049	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	27	$ 597,763
2050	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	28	$ 555,602
2051	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	29	$ 542,189
2052	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	30	$ 503,947
2053	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	31	$ 491,781
2054	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	32	$ 457,095
2055	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	33	$ 446,060
2056	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ -	$ 1,147	$ 518,188	$ 976,200	$ 416,169	$ 1,392,370	$ 2,178,031	34	$ 414,599
2057	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 204,808	$ 2,813	$ 133,560	$ 53,692	$ 1,147	$ 571,881	$ 976,200	$ 416,169	$ 1,392,370	$ 2,231,723	35	$ 404,590
2058	$ 89,083	$ 4,161	$ 5,511	$ 71,424	$ 2,587	$ 94,707	$ 267,473	$ 146,499	$ 29,362	$ 481,574	$ 2,813	$ 133,560		$ 1,147	$ 794,955	$ 976,200	$ 416,169	$ 1,392,370	$ 2,454,797	36	$ 423,839
																			Total Net Present Value:		**$ 28,025,582**

Notes/Assumptions:

1. Costs are presented in 2022 dollars. Present value is based on investing the indicated amount in the present year in an account providing a post-inflation annual rate of return equal to the indicated percentage and whose interest compounds annually.
2. Refer to subsequent tables for development of individual cost components.
3. All 2021 prices have been increased by 3.9% to account for the increase in CPI through 20210 to simulate likely 2022 prices. (Source: U.S. Bureau of Labor Statistics)

Seneca Meadows, Inc.

2021 Annual Report

Post-Closure Care Cost Estimate

Table 7-3A - Post-Closure Monitoring Costs Basis

Groundwater, Years 1-5 (2)

Item No.		Unit Cost	Events Per Year	Number Locations	Item Cost
1	Part 360 Routine Parameters	$ 261.58	3	60	$ 47,100
2	Part 360 Baseline Parameters	$ 518.58	1	60	$ 31,100
3	Expenses/QA/Mileage	$ 2,699.48	4	1	$ 10,800
				Total Annual Cost:	**$ 89,000**

Groundwater, Years 6-30 (2)

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Part 360 Routine Parameters	$ 261.58	3	17	$ 13,300
2	Part 360 Baseline Parameters	$ 518.58	1	17	$ 8,800
3	Part 360 Baseline Parameters	$ 518.58	2	43	$ 44,600
4	Expenses/QA/Mileage	$ 2,699.48	4	1	$ 10,800
				Total Annual Cost:	**$ 77,500**

Surface Water, Years 1-5 (2)

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Part 360 Expanded Parameters	$ 1,295.28	1	4	$ 5,200
2	Part 360 Baseline Parameters	$ 518.58	3	4	$ 6,200
3	Expenses/QA/Mileage	$ 894.87	4	1	$ 3,600
				Total Annual Cost:	**$ 15,000**

Surface Water, Years 6-30 (2)

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Modified Part 360 Baseline Parameters	$ 518.58	2	4	$ 4,100
				Total Annual Cost:	**$ 4,100**

Sediment, Years 1-5 (2)

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Part 360 Expanded Parameters	$ 1,467.37	1	4	$ 5,900
2	Part 360 Baseline Parameters	$ 690.65	3	4	$ 8,300
				Total Annual Cost:	**$ 14,200**

Sediment, Years 6-30 (2)

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Modified Part 360 Baseline Parameters	$ 690.65	2	4	$ 5,500
				Total Annual Cost:	**$ 5,500**

Leachate, Years 1-30

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	WWTP Discharge				
	Weekly	$ 156.04	52	1	$ 8,100
	Monthly	$ 201.91	12	1	$ 2,400
	Annually	$ 2,034.12	1	1	$ 2,000
2	Primary Leachate Collection System Characterization (Expanded Parameters)	$ 1,295.28	2	15	$ 38,900
3	Secondary Leachate Collection System Characterization (Baseline Parameters)	$ 518.58	4	9	$ 18,700
4	Expenses/QA/Mileage	$ 344.19	4	1	$ 1,400
				Total Annual Cost:	**$ 71,500**

Condensate, Years 1-30

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Expanded Parameters	$ 1,295.28	2	1	$ 2,600
				Total Annual Cost:	**$ 2,600**

Landfill Gas, Years 1-30

Item No.	Item Description	Unit Cost	Events Per Year	Number Locations	Item Cost
1	Perimeter Soil Probes	$ 573.64	4	1	$ 2,300
2	Monthly Cover Inspection	$ 1,720.93	12	1	$ 20,700
3	NSPS Landfill Surface Screening	$ 12,103.78	4	1	$ 48,400
4	Title V Monthly Compliance Monitoring	$ 1,500.65	12	1	$ 18,000
5	Flare	$ 5,392.20	1	1	$ 5,400
				Total Annual Cost:	**$ 94,800**

Notes/Assumptions:

1. Individual line item costs are from the post-closure cost estimates contained in the 2020 Annual Report, and increased by 3.9% to account for an increase in CPI through 2021 and simulate 2022 prices.

2. After five years of post-closure monitoring, the assumption is made that monitoring requirements can be reduced based on substantial prior operating and post-closure data. Reductions are as shown in the table for frequency and estimated number of sampling locations, and are estimates that would be confirmed with NYSDEC at that time.

Seneca Meadows, Inc.
2021 Annual Report
Post-Closure Care Cost Estimate
Table 7-3B - Post-Closure Final Cover Repair Cost Basis

Year	Total Cover Area (acres)	Clay Cap		Geosynthetic Cap	
		Area (acres)	Repair Cost	Area (acres)	Repair Cost
2029	350.5	86.9	$36,322	263.6	$368,401
2030	350.5	86.9	$36,322	263.6	$317,199
2031	350.5	86.9	$36,322	263.6	$258,014
2032	350.5	86.9	$36,322	263.6	$229,425
2033	350.5	86.9	$36,322	263.6	$166,729
2034	350.5	86.9	$36,322	263.6	$166,729
2035	350.5	86.9	$36,322	263.6	$151,055
2036	350.5	86.9	$36,322	263.6	$135,381
2037	350.5	86.9	$36,322	263.6	$125,851
2038	350.5	86.9	$36,322	263.6	$110,177
2039	350.5	86.9	$36,322	263.6	$110,177
2040	350.5	86.9	$36,322	263.6	$110,177
2041	350.5	86.9	$36,322	263.6	$110,177
2042	350.5	86.9	$36,322	263.6	$110,177
2043	350.5	86.9	$36,322	263.6	$110,177
2044	350.5	86.9	$36,322	263.6	$110,177
2045	350.5	86.9	$36,322	263.6	$110,177
2046	350.5	86.9	$36,322	263.6	$110,177
2047	350.5	86.9	$36,322	263.6	$110,177
2048	350.5	86.9	$36,322	263.6	$110,177
2049	350.5	86.9	$36,322	263.6	$110,177
2050	350.5	86.9	$36,322	263.6	$110,177
2051	350.5	86.9	$36,322	263.6	$110,177
2052	350.5	86.9	$36,322	263.6	$110,177
2053	350.5	86.9	$36,322	263.6	$110,177
2054	350.5	86.9	$36,322	263.6	$110,177
2055	350.5	86.9	$36,322	263.6	$110,177
2056	350.5	86.9	$36,322	263.6	$110,177
2057	350.5	86.9	$36,322	263.6	$110,177
2058	350.5	86.9	$36,322	263.6	$110,177

Notes/Assumptions:

1. Individual line item costs are from the post-closure cost estimates contained in the 2020 Annual Report, and increased by 3.9% to account for an increase in CPI through 2021 and simulate 2022 prices.
2. Repair costs based on a $41,139/acre cost and a percent of cap area needing repair based on the number of years the cap has been installed. 1-5 years after installation = 5% area needing repair, 6-10 years = 2%, 11-30 years = 1%

Seneca Meadows, Inc.

2021 Annual Report

Post-Closure Care Cost Estimate

Table 7-3C - Miscellaneous Post-Closure Maintenance/Repair Costs Basis

Drainage Structure Maintenance, Years 1-15

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Sediment Basin Cleaning, One Basin Per Year	1	LS	$ 55,354	$ 55,354
2	Swale, Downchute, Culvert, and Structure Cleaning				
	Backhoe/Loader	10	day	$ 791	$ 7,907
	Dump Truck	10	day	$ 565	$ 5,652
	Crew (2 Laborers, 2 Operators)	10	day	$ 12,997	$ 129,969
	Misc Equipment (e.g., chipper)	10	day	$ 282	$ 2,816
				Total Annual Cost:	**$ 201,697**

Drainage Structure Maintenance, Years 16-30

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Swale, Downchute, Culvert, and Structure Cleaning				
	Backhoe/Loader	10	day	$ 791	$ 7,907
	Dump Truck	10	day	$ 565	$ 5,652
	Crew (2 Laborers, 2 Operators)	10	day	$ 1,299	$ 12,988
	Misc Equipment (e.g., chipper)	10	day	$ 282	$ 2,816
				Total Annual Cost:	**$ 29,362**

Gas System Maintenance, Years 1-14, 16-29

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Misc. Maintenance	1	LS	$ 204,808	$ 204,808
				Total Annual Cost:	**$ 204,808**

Gas System Maintenance, Years 15, 30

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Misc. Maintenance	1	LS	$ 204,808	$ 204,808
2	Flare Replacement	1	LS	$ 276,767	$ 276,767
				Total Annual Cost:	**$ 481,574**

Groundwater Monitoring System Maintenance, Years 1-30

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Misc. Maintenance (well development, protective casing repairs, etc.)	1	LS	$ 2,768	$ 2,768
				Total Annual Cost:	**$ 2,768**

Leachate Collection System Maintenance, Years 1-30

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Primary Collection Pipe Cleaning (all areas)	44,213	LF	$ 2.25	$ 99,684
2	Misc. Pumps, Valves and Piping Repairs and Replacement	1	LS	$ 16,938	$ 16,938
3	Misc. Forcemains Repair and Cleaning	1	LS	$ 16,938	$ 16,938
				Total Annual Cost:	**$ 133,560**

Mowing, Years 1-30, Biennially

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Mowing	360	acre	$ 146.80	$ 52,848
				Total Biennial Cost:	**$ 52,848**

Site Security, Years 1-30

Item No.	Item Description	Qty.	Unit	Unit Cost	Item Cost
1	Perimeter fence and site security system maintenance/repairs	1	LS	$ 1,140	$ 1,140
				Total Annual Cost:	**$ 1,140**

Notes/Assumptions:

1. Individual line item costs are from the post-closure cost estimates contained in the 2020 Annual Report, and increased by 3.9% to account for an increase in CPI through 2021 and simulate 2022 prices.

Seneca Meadows, Inc.
2021 Annual Report
Post-Closure Care Cost Estimate
Table 7-3D - Annual Post-Closure Leachate Disposal Cost Basis

Year	Annual Leachate Volume (gal)	Groundwater Collection (gal)	Annual Leachate Volume (gal) (2)	On-Site Leachate Pre-Treatment Through Reverse Osmosis System (100% of Annual Leachate Volume)			Concentrate Treatment (25% of Annual Leachate Volume)			Off-Site Disposal at Seneca Falls POTW (75% of Annual Leachate Volume)			Annual Cost (2022 Dollars)
				Volume (gal)	Unit Cost	Treatment Cost	Volume (gal)	Unit Cost	Treatment Cost	Volume (gal)	Unit Cost	Treatment Cost	
2029	18,797,804	6,329,648	25,127,452	25,127,452	$ 0.0318	$ 798,887	6,281,863	$ 0.0789	$ 495,388	18,845,589	$ 0.0145	$ 274,128	$ 1,568,403
2030	12,108,743	6,329,648	18,438,391	18,438,391	$ 0.0318	$ 586,219	4,609,598	$ 0.0789	$ 363,513	13,828,793	$ 0.0145	$ 201,154	$ 1,150,886
2031	10,379,291	6,329,648	16,708,939	16,708,939	$ 0.0318	$ 531,234	4,177,235	$ 0.0789	$ 329,417	12,531,704	$ 0.0145	$ 182,286	$ 1,042,937
2032	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2033	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2034	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2035	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2036	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2037	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2038	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2039	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2040	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2041	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2042	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2043	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2044	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2045	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2046	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2047	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2048	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2049	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2050	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2051	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2052	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2053	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2054	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2055	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2056	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2057	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200
2058	9,310,094	6,329,648	15,639,742	15,639,742	$ 0.0318	$ 497,241	3,909,935	$ 0.0789	$ 308,338	11,729,806	$ 0.0145	$ 170,622	$ 976,200

Notes/Assumptions:

1. Costs are presented in 2022 dollars based on increasing costs from the 2020 Annual Report by 3.9% to account for CPI through 2021. Future costs for RO concentrate treatment and disposal are currrently being evaluated by Waste Connections and based on those evaluations the proposed cost for RO concentrate treatment and disposal would be less than or equal to the historical cost for RO concentrate treatment and disposa therefore the historical cost has been maintained for conservatism in the cost estimate.
2. Annual post-closure leachate volume includes estimated collected volumes (Table 7-3E) plus a groundwater influence component (unlined areas) estimated to be equivalent to 2.1 inches per year and is assumed to occur across the approximately 111-acre footprint of the SMI Landfill.

3. 100% of generated leachate is assumed to be treated on-site through reverse osmosis system. 75% of the treated leachate is assumed to be discharged to the sanitary sewer for further treatment and disposal at the Seneca Falls treatment plant. Concentrate from the reverse osmosis system is assumed to be 25% of the annual volume and is assumed to be then treated further and managed by recirculation into the landfill.

4. In addition to the leachate treatment costs, an annual amount of $400,548 is included in the post-closure care estimate for miscellaneous costs related to leachate management. This amount includes costs for inpsections, power, reporting, administration, taxes and insurance and contingency.

Seneca Meadows, Inc.
2021 Annual Report
Post-Closure Care Cost Estimate
Table 7-3E - Annual Post-Closure Leachate Volumes

Year	Total Lined Area (acres)	Total Leachate (gal)	Clay Cap		Geosynthetic Cap	
			Area (acres)	Volume (gal)	Area (acres)	Volume (Gallons)
2029	350.6	18,797,804	90.5	7,544,391	260.1	11,185,527
2030	350.6	14,913,584	90.5	7,544,391	260.1	7,301,307
2031	350.6	12,108,743	90.5	7,544,391	260.1	4,496,466
2032	350.6	10,379,291	90.5	7,544,391	260.1	2,767,015
2033	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2034	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2035	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2036	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2037	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2038	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2039	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2040	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2041	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2042	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2043	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2044	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2045	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2046	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2047	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2048	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2049	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2050	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2051	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2052	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2053	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2054	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2055	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2056	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2057	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2058	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817
2059	350.6	9,310,094	90.5	7,544,391	260.1	1,697,817

1. The total lined acrage presented in this table varies slightly from that presented in Table 7-1 due to rounding errors. The larger number presented here offers a more conservative estimation of leachate volumes.

8.0 PROBLEMS/CHANGES

SMI did not receive NOV's in 2021.

9.0 GROUNDWATER SAMPLING AND ANALYSIS

The annual review of groundwater analytical data has been prepared by KR Applin & Associates of Dansville, New York. Their report summarizes the groundwater monitoring activities for 2021, as required by SMI's 6 NYCRR Part 360 Operating Permit and is included in this section.

GROUNDWATER MONITORING REPORT

2021 ANNUAL REPORT

SENECA MEADOWS SOLID WASTE MANAGEMENT FACILITY

WASTE CONNECTIONS, INC.
Connect with the Future®

JANUARY 2022

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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EXECUTIVE SUMMARY

During 2021, groundwater monitoring at the Seneca Meadows Solid Waste Management Facility (SMI), Seneca Falls, NY, was conducted quarterly during January, April, July, and October. The monitoring was conducted in compliance with an approved Environmental Monitoring Plan (EMP) and Site Analytical Plan (SAP).

Groundwater monitoring was conducted on a facility-wide basis and included the sampling and analysis of 60 groundwater monitoring wells (overburden and bedrock) that surround the Existing Landfill, the Southeast Landfill (SELF), the SELF Bumpout, the Western Expansion Area, and the Northern Expansion Area. Porewater collected from beneath the lined landfills at the facility was also sampled and analyzed during each monitoring event.

Each of the wells and porewater sampling locations were sampled for 6 NYCRR Part 360 routine chemical parameters during the first, second, and fourth quarters and for Part 360 baseline chemical parameters during the third quarter. The sampling and laboratory analyses were performed by ALS, Rochester, New York.

The quarterly monitoring of groundwater levels at the facility showed a potential for downward vertical flow within the overburden sediments. Flow in the bedrock was determined to be in a south to southeast direction.

The quarterly analytical data were evaluated for potential impacts by plotting the results on Stiff and Piper diagrams, by comparing the results to 6 NYCRR Part 703 Class GA groundwater standards and trigger values established for each analyte, and by intrawell statistical analyses performed using DumpStat© software.

Results of the data evaluations revealed two types of impacts to groundwater quality at the facility. These are: 1) impacts to bedrock groundwater by organic contaminants associated with the Tantalo Site, which is centrally located within the facility, and 2) impacts to shallow groundwater

adjacent to the facility access road and Route 414 by inorganic components derived from road deicing agents.

Evaluations of the analytical data for monitoring wells impacted by the Tantalo Site showed decreasing trends in the concentrations of volatile organic compounds in many of the bedrock wells, which indicates an improvement in groundwater quality. The progress of remedial measures currently being applied to the impacted areas will continue to be monitored.

The wells impacted by road deicing agents have shown increasing trends in sodium, chloride, and other inorganic constituents attributed to the corrosion of well grouting material.

No modifications to the present monitoring program are recommended at this time.

1.0 INTRODUCTION

This report provides a summary of the sampling and analytical results for quarterly groundwater monitoring conducted at the Seneca Meadows, Inc. (SMI) Solid Waste Management Facility, Seneca Falls, New York, during 2021.

Groundwater monitoring is conducted on a facility-wide basis and is accomplished with the quarterly sampling of several overburden and bedrock wells, which are strategically located to monitor groundwater quality surrounding five areas of waste disposal. These are shown in Figure 1-1 and include:

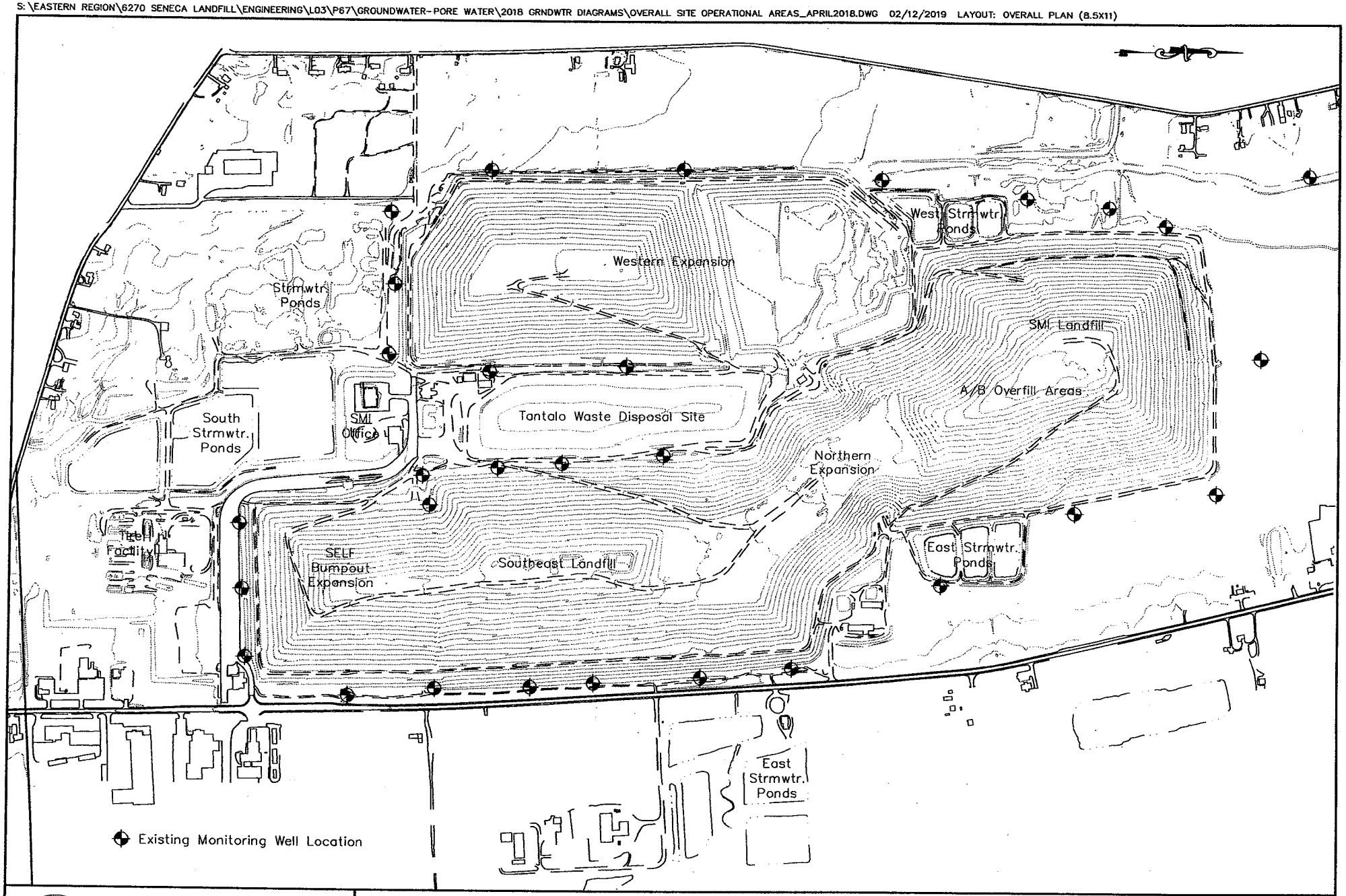
- the Existing Landfill
- the Southeast Landfill (SELF),
- the SELF Bumpout,
- the Western Expansion Area, and
- the Northern Expansion Area

In addition to the groundwater monitoring wells, porewater from beneath the liner systems of lined landfills at the facility is sampled quarterly. Porewater is sampled at one location at the A/B Overfill Area of the Existing Landfill, two locations at the SELF, one location at the SELF Bumpout, four locations at the Western Expansion Landfill, and one location at the Northern Expansion Landfill.

During 2021, monitoring was conducted during January, April, July, and October. The results for each quarterly event, including all raw field and laboratory data, were provided in quarterly monitoring reports, which are available for review at the offices of SMI and the New York State Department of Environmental Conservation (NYSDEC), Region 8, Avon, New York.

The purpose of this annual report is to briefly summarize the findings provided in the quarterly reports and to identify particular aspects of the monitoring program that may require modification or improvement.

S:\EASTERN REGION\6270 SENECA LANDFILL\ENGINEERING\L03\P67\GROUNDWATER-PORE WATER\2018 GRNDWTR DIAGRAMS\OVERALL SITE OPERATIONAL AREAS_APRIL2018.DWG 02/12/2019 LAYOUT: OVERALL PLAN (8.5X11)



SENECA MEADOWS LANDFILL
1786 SALCMAN ROAD
WATERLOO, NEW YORK 13165

OPERATIONAL AREAS AT THE SMI SOLID WASTE MANAGEMENT FACILITY

0 500 1000
Scale In Feet

FIGURE
1-1

2.0 MONITORING WELL ARRAY

Thirty seven overburden wells and 33 bedrock wells currently comprise the monitoring well array at the SMI Solid Waste Management Facility. The wells associated with each fill area are listed in Table 2-1. The locations of the wells are shown in expanded views of the Existing Landfill, the SELF, the SELF Bumpout, the Western Expansion Area, and the Northern Expansion Area in Figures 2-1, 2-2, and 2-3.

Monitoring wells surrounding the Existing Landfill (Fig. 2-1) include eight overburden wells and seven bedrock wells. In addition, porewater is collected from beneath the liner system of the A/B Overfill Area and is sampled quarterly at sump AB-0002-PW. In the past, overburden well SM-0004-UL exhibited signs of a leachate impact as indicated by rising chloride and sodium levels. The source of the impact was identified and remediated, and water quality at the well has recovered to that which existed prior to the impact.

The SELF monitoring well array (Fig. 2-2) currently consists of ten overburden wells and eight bedrock wells. Some of the SELF wells have shown indications of being impacted by volatile organic compounds (VOCs) such as trichloroethene and its degradation products as well as inorganic chemicals such as sodium and chloride. These contaminants are known to originate at the Tantalo Waste Site located west of and adjacent to the SELF. The affected wells include:

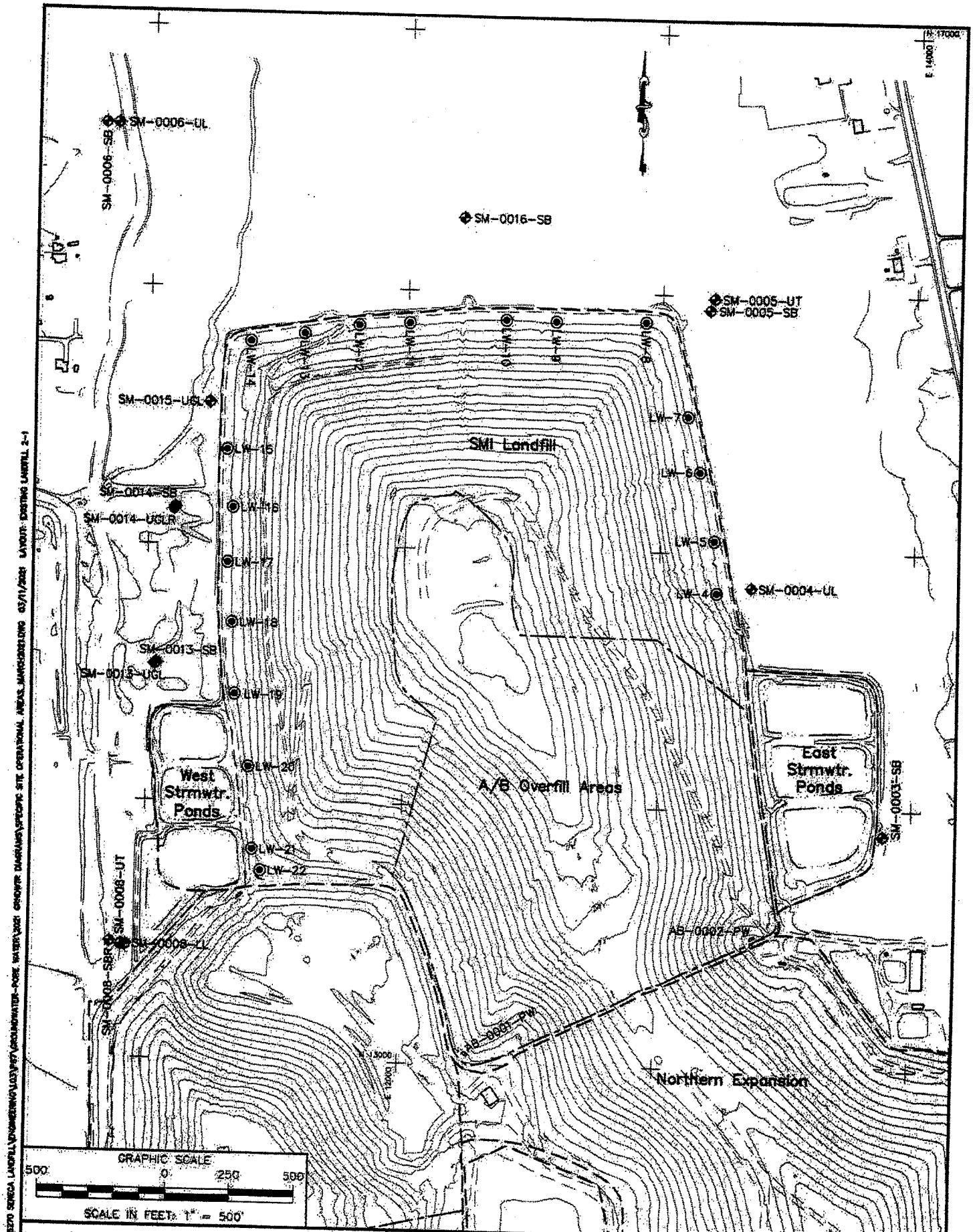
Overburden Wells	Bedrock Wells
SE-0101-UL	SE-0100-SBR
T-0001-UT	SE-0100-DBR
	SE-0106-SB
	T-0001-SB

The degree to which the wells are impacted depends on their locations relative to the Tantalo contaminant plume. Those within or near the plume exhibit higher concentrations of contaminants.

Table 2-1

Groundwater and Porewater Monitoring Points

	Existing Landfill	Southeast Landfill	Southeast LF Bumpout	Western Expansion
Overburden Wells	SM-0004-UL SM-0005-UT SM-0006-UL SM-0008-UT SM-0008-LL SM-0013-UGL SM-0014-UGLR SM-0015-UGL	SE-0101-UL SE-0106-LL SE-0107-LL SE-0108-UTA SE-0111-LLA SE-0115-UT T-0001-UT T-0005-UT WEX-0204-UG WEX-0204-LL	WEX-0205-UTR WEX-0206-UT WEX-0206-LL WEX-0207-UT WEX-0207-LL WEX-0215-LL	WEX-0208-UT WEX-0208-LL WEX-0209-UT WEX-0209-LL WEX-0210-UTR WEX-0210-LL WEX-0211-UT WEX-0214-UT WEX-0214-LL
Bedrock Wells	SM-0003-SB SM-0005-SB SM-0006-SB SM-0008-SBR SM-0013-SB SM-0014-SB SM-0016-SB	SE-0100-SBR SE-0100-DBR SE-0106-SB SE-0107-SB SE-0115-SB T-0001-SB T-0005-SB WEX-0204-SB	WEX-0205-SB WEX-0206-SB WEX-0207-SB WEX-0215-SB	WEX-0208-SB WEX-0209-SB WEX-0210-SB WEX-0210-DBR WEX-0211-SB WEX-0212-IB WEX-0213-SB WEX-0214-SB
Porewater Samples	AB-0002-PW	SE-0001-PW SE-0002-PW	SE-0003-PW	WEX-0001-PW WEX-0002-PW WEX-0003-PW
	NEX-0007-PW (Northern Expansion)			WEX-0004-PW



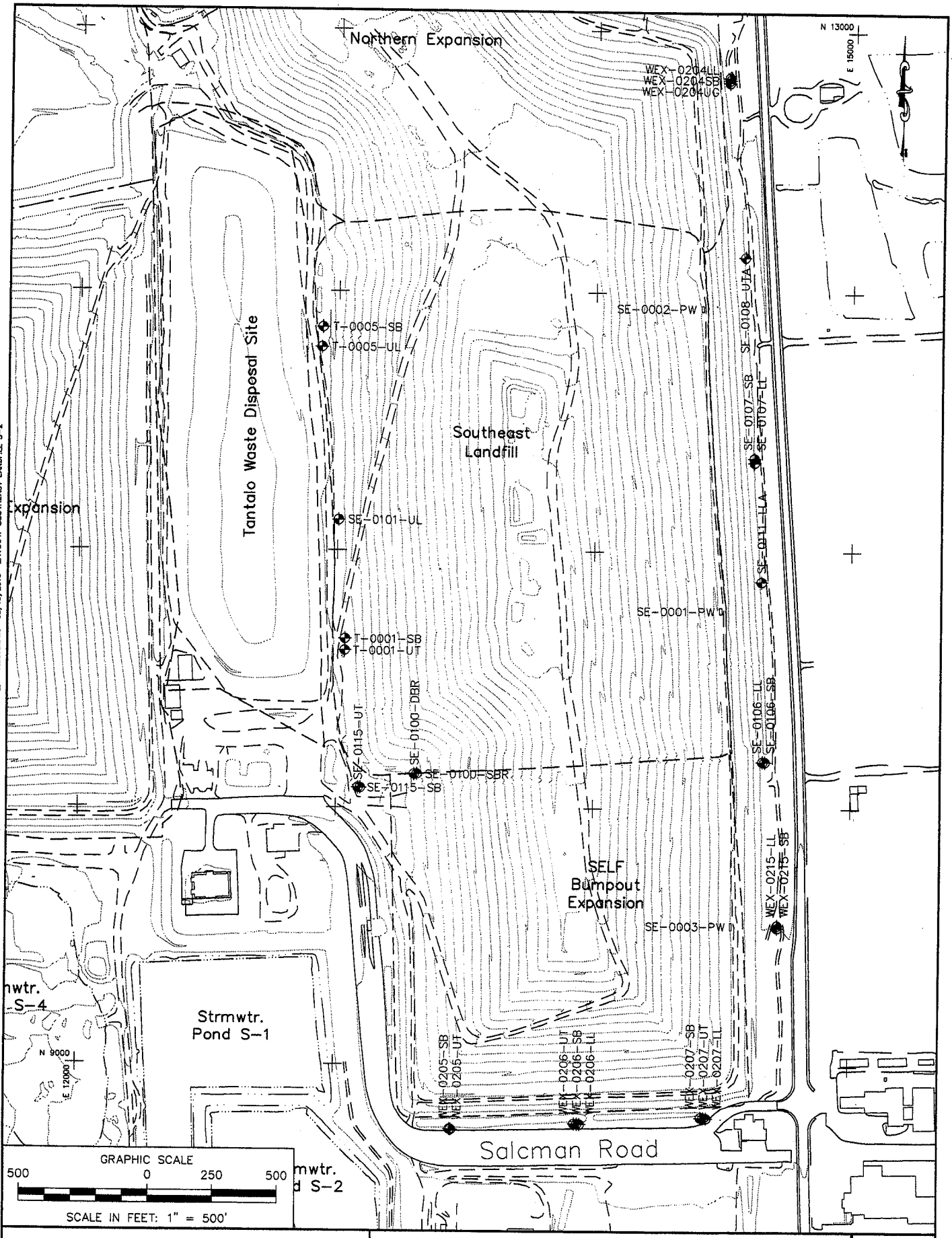
SENECA MEADOWS LANDFILL
1786 SALOMAN ROAD
WATERLOO, NEW YORK 13165

SENECA MEADOWS LANDFILL

GROUNDWATER MONITORING WELLS

FIGURE
2-1

S:\EASTERN REGION\SZFD SENECA LANDFILL\DRAWINGS\GW\SAP\GROUNDWATER-POKE WATER\2021 GROUNDWATER-POKE WATER.DWG 03/11/2021 LAYOUT: EXISTING LANDFILL 2-1



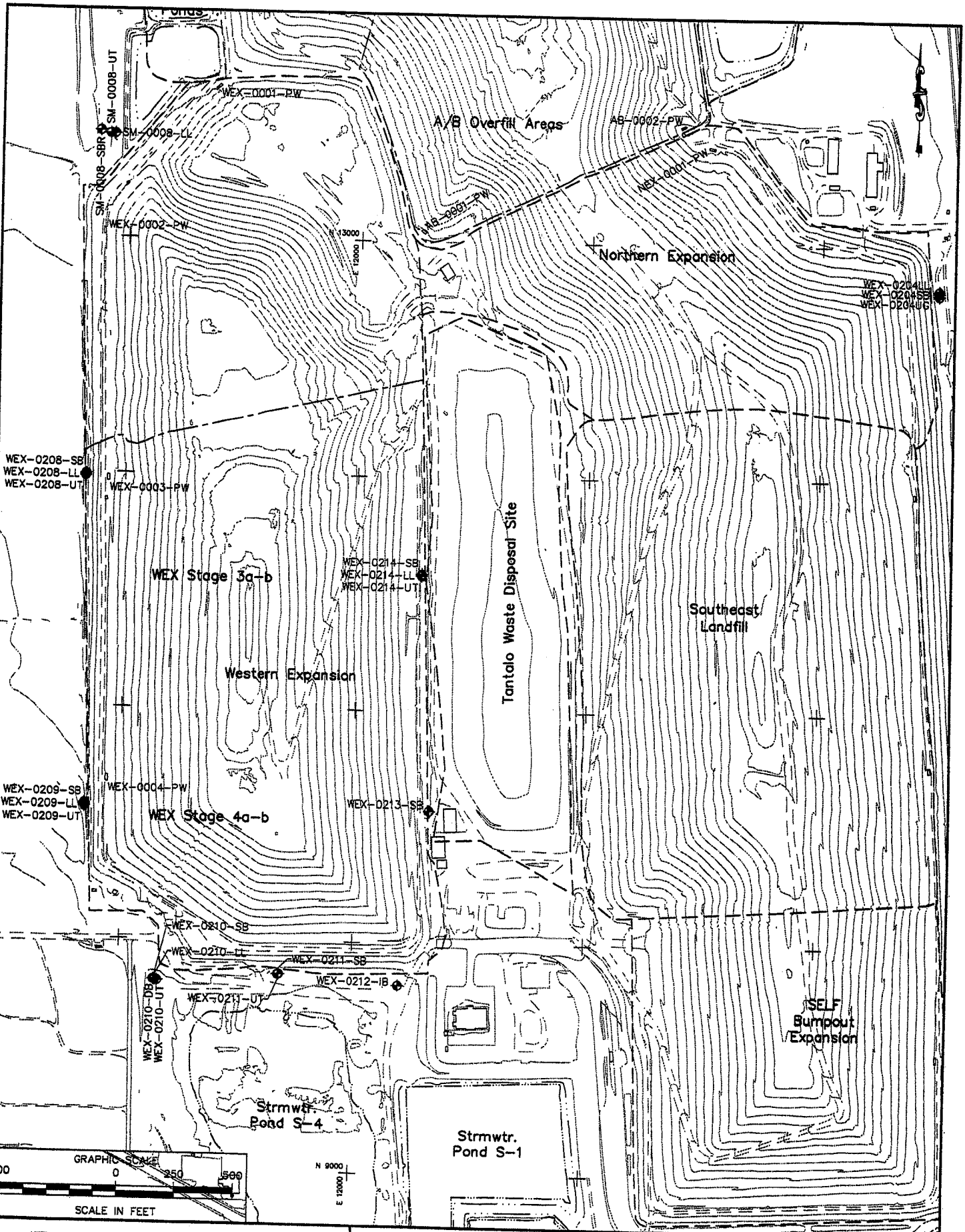
S:\EASTERN REGION\6270 SENECA LANDFILL\ENGINEERING\LO3\P67\GROUNDWATER-PORE WATER\2018 GRNDWTR DIAGRAMS\SPECIFIC SITE OPERATIONAL AREAS_APRIL2018.DWG 02/13/2019 LAYOUT: SOUTHEAST LANDFILL 3-2

SENECA MEADOWS LANDFILL
1786 SALCMAN ROAD
WATERLOO, NEW YORK 13165

SOUTHEAST LANDFILL

GROUNDWATER MONITORING WELLS

FIGURE
2-2



S:\EASTERN REGION\6270 SENECA LANDFILL\ENGINEERING\LO3\P07\GROUNDWATER-PORE WATER\2021 GRNDWTR DIAGRAMS\SPECIFIC SITE OPERATIONAL AREAS_MARCH2021.DWG 03/11/2021 LAYOUT: WEX LANDFILL 3-3

SENECA MEADOWS LANDFILL
1786 SALCMAN ROAD
WATERLOO, NEW YORK 13165

WESTERN EXPANSION LANDFILL

GROUNDWATER MONITORING WELLS

FIGURE
2-3

Porewater at the SELF is sampled at two locations, SE-0001-PW and SE-0002-PW, located along the east side of the landfill (see Fig. 2-2).

The SELF Bumpout monitoring well array consists of six overburden wells and four bedrock wells. As discussed later in this report, a few shallow overburden wells bordering the south side of the SELF Bumpout, namely wells WEX-0205-UT, WEX-0206-UT, and WEX-0207-UT, appear to be impacted by road salt. Porewater at the SELF Bumpout is sampled at one location labeled SE-0003-PW in Figure 2-2.

The Western Expansion monitoring well array consists of nine overburden wells and eight bedrock wells. A few of the bedrock wells surrounding the Western Expansion have shown indications of being impacted by VOCs associated with the Tantalo Site. These include wells WEX-0211-SB, WEX-0212-IB, WEX-0213-SB, and WEX-0214-SB. Porewater collected at the Western Expansion is sampled at four locations labeled WEX-0001-PW, WEX-0002-PW, WEX-0003-PW, and WEX-0004-PW in Figure 2-3.

The Northern Expansion Area (Fig. 2-3) is the most recent fill area to be developed at the facility. Monitoring of the area is currently accomplished using wells bordering the Existing Landfill and the SELF. Porewater is sampled at location NEX-0007-PW.

3.0 SUMMARY OF MONITORING ACTIVITIES

3.1 SAMPLING AND ANALYSIS

3.1.1 Compliance

During 2021, groundwater monitoring at the SMI facility was conducted in compliance with their approved Environmental Monitoring Plan (EMP) [November 2016] and Site Analytical Plan (SAP) [November 2006]. All the monitoring wells and porewater sampling locations listed in Table 2-1 were scheduled for sampling each quarter.

All sampling and analyses were performed by ALS, Rochester, New York. Laboratory analyses of the samples from each quarterly event were conducted in accordance with USEPA SW-846 analytical methods. Analytical results for samples analyzed for 6 NYCRR Part 360 routine chemical parameters (first, second, and fourth quarters) were validated internally by the laboratory. The results for Part 360 baseline chemical parameters (third quarter) were validated by an independent data validator.

Monitoring reports summarizing the results of each quarterly event were submitted to the Region 8 Office of the NYSDEC following each event.

3.1.2 Completeness

The SAP for the SMI Solid Waste Facility sets a completion goal for the collection of samples at 85% and a completion goal for the analysis of samples also at 85%.

During each quarterly monitoring event of 2021, some wells could not be sampled due to dry conditions or inadequate recharge. However, more than 85% of the wells were sampled during each quarterly event. Therefore, the 85% completion goal for sampling was met.

Usable analytical data were obtained for 100% of the results obtained from each monitoring event. No analytical data were rejected as a result of the data usability reviews or data validation. Therefore, the 85% completion goal for sample analysis was met for each quarterly event.

3.2 DATA EVALUATION METHODS

3.2.1 Groundwater Elevation Data

Groundwater elevation data were obtained quarterly prior to sample collection. The data were used to determine groundwater flow directions at the facility. Previous hydrogeologic studies of the site determined that groundwater flow within the overburden sediments surrounding the site is toward the landfilled areas. Within the bedrock zones,

groundwater flow was determined by comparing the elevations of groundwater within the bedrock monitoring wells.

3.2.2 Stiff and Piper Diagrams

Stiff and Piper diagrams (e.g., Fetter, 1988; Hounslow, 1995) are graphical plots of the major water quality components (calcium, magnesium, sodium, potassium, chloride, sulfate, and alkalinity) analyzed in each sample. The diagrams were prepared using the analytical results obtained from each quarterly sampling event and were used to characterize the general water quality of the samples, for making visual comparisons of the water quality at different sampling locations, and for differentiating natural versus contaminated groundwater.

3.2.3 Exceedance Reports

The analytical results from each quarterly event were compared to the 6 NYCRR Part 703 Class GA groundwater standards and to trigger values established for each analyte as defined in the EMP. Results exceeding the standards or trigger values were used to identify potential impacts to groundwater at the facility.

3.2.4 Statistical Analyses

The quarterly groundwater results for the facility were evaluated statistically in accordance with a statistical analysis plan prepared by Dr. Robert Gibbons at the University of Chicago (Gibbons, 2004).

In accordance with the plan, intrawell statistical analyses were performed on the data obtained for each well in the monitoring well array using Shewart-CUSUM control charts. The data were also evaluated for trends using Sen's test. The analyses were performed on 14 target inorganic analytes including several leachate indicator parameters. Trends involving volatile organic compounds were also identified.

The results of the statistical analyses were included in each quarterly groundwater monitoring report.

3.3 IDENTIFICATION OF FACILITY-RELATED IMPACTS TO GROUNDWATER

Potential or confirmed impacts to groundwater by facility-derived chemical components were identified using one or more of the following criteria:

- Elevated concentrations of key leachate indicator parameters, especially sodium and chloride, and other parameters not commonly detected in background samples such as ammonia, bromide, nitrate, BOD, COD, phenols, and trace metals (e.g., arsenic, chromium, lead, and others).
- Exceedances of NYSDEC Class GA groundwater standards.
- Exceedances of established background trigger values.
- Statistically significant upward trends in historical data.
- Detections of volatile organic compounds (VOCs).

For 2021, all monitoring wells identified as being impacted by facility-derived chemical components were linked to known sources of contamination, which are currently being remediated. These sources include:

- The Tantalo Waste Site located adjacent to the west boundary of the SELF, and
- Road deicing agents applied to the facility access road (Salcman Road) and to Route 414, which lies adjacent to the east side of the facility.

Experience with monitoring groundwater quality at the SMI Waste Management Facility has shown that potential impacts to groundwater by landfill leachate is most readily identified by increasing trends in chloride and to a lesser extent sodium. Semi-annual monitoring of leachate generated at the various waste disposal sites of the facility have shown sodium and chloride to be the dominant inorganic chemical components. Chloride does not readily participate in mineral precipitation, ion exchange, or other common geochemical reactions that might otherwise serve to attenuate its mobility. Chloride is therefore likely to migrate faster and further than other components associated with a contaminant release. Rising trends in chloride (and sodium) are therefore useful for predicting the possible approach of a contaminant plume or stringer to a monitoring well downgradient of a fill area.

The detections of certain organic compounds in the groundwater samples are also indicators of possible waste-derived impacts. Groundwater impacts attributable to the Tantalo Site have been and continue to be most readily identified by the detection of VOCs, namely trichloroethene and its degradation products (cis- and trans-dichloroethene, chloroethane, 1-1, dichloroethene, and vinyl chloride). Monitoring wells impacted by the Tantalo Site are currently limited to wells along the southwest and south sides of the SELF (e.g., wells SE-0101-UL, SE-0100-SBR, SE-0100-DBR, SE-0106-SB, T-0001-UT, and T-0001-SB) and to wells along the east and south sides of the Western Expansion Area (e.g., wells WEX-0211-SB, WEX-0212-IB, WEX-0213-SB, and WEX-0214-SB).

4.0 SUMMARY OF MONITORING RESULTS

4.1 GROUNDWATER ELEVATIONS AND FLOW DIRECTIONS

Groundwater elevations measured in the overburden and bedrock monitoring wells during the four quarters of 2021 are summarized in Tables 4-1 and 4-2. As shown in the tables, groundwater elevations in the overburden and bedrock wells were generally highest during the latter part of the year.

Table 4-1

Groundwater Elevation Data - Overburden Wells

Well Number	TOC * Elevation	Groundwater Elevations				Range		Average
		Jan-21	Apr-21	Jul-21	Oct-21	min	max	
Existing Landfill								
SM-0004-UL	482.75	479.93	480.16	480.56	480.15	479.93	480.56	480.20
SM-0005-UT	483.98	480.59	480.01	480.48	480.90	480.01	480.90	480.50
SM-0006-UL	481.42	dry	dry	dry	dry			
SM-0008-UT	481.16	473.57	474.97	474.72	474.05	473.57	474.97	474.33
SM-0008-LL	481.98	450.40	451.27	450.90	451.44	450.40	451.44	451.00
SM-0013-UGL	481.81	473.66	477.94	477.66	477.71	473.66	477.94	476.74
SM-0014-UGLR	482.59	468.38	478.18	472.04	478.53	468.38	478.53	474.28
SM-0015-UGL	481.57	477.95	478.13	478.03	477.71	477.71	478.13	477.96
Southeast Landfill								
SE-0101-UL	507.12	476.96	476.91	477.06	477.18	476.91	477.18	477.03
SE-0106-LL	487.86	461.17	461.04	460.96	460.93	460.93	461.17	461.03
SE-0107-LL	484.36	dry	dry	dry	dry			
SE-0108-UTA	483.58	461.61	462.35	461.69	463.50	461.61	463.50	462.29
SE-0111-LLA	484.77	459.96	455.21	459.90	459.96	455.21	459.96	458.76
SE-0115-UT	505.50	470.59	470.58	471.10	471.44	470.58	471.44	470.93
T-0001-UT	506.32	473.37	473.26	472.24	473.59	472.24	473.59	473.12
T-0005-UT	501.44	473.53	473.34	473.46	473.98	473.34	473.98	473.58
WEX-0204-UG	487.08	479.01	478.90	478.68	479.72	478.68	479.72	479.08
WEX-0204-LL	486.47	456.88	458.09	457.37	458.89	456.88	458.89	457.81
Southeast Landfill Bumpout								
WEX-0205-UTR	495.50	486.54	487.24	487.60	487.73	486.54	487.73	487.28
WEX-0206-UT	498.62	488.33	489.08	489.41	489.75	488.33	489.75	489.14
WEX-0206-LL	497.08	448.51	449.41	447.90	450.80	447.90	450.80	449.16
WEX-0207-UT	499.94	493.10	493.39	493.63	493.86	493.10	493.86	493.50
WEX-0207-LL	500.28	462.05	461.76	461.73	461.86	461.73	462.05	461.85
WEX-0215-LL	493.24	458.81	458.63	458.41	458.26	458.26	458.81	458.53
Western Fill Cell								
WEX-0208-UT	483.74	480.98	481.04	480.71	480.29	480.29	481.04	480.76
WEX-0208-LL	483.71	465.79	476.65	468.67	474.05	465.79	476.65	471.29
WEX-0209-UT	497.18	487.30	491.34	487.28	486.09	486.09	491.34	488.00
WEX-0209-LL	496.18	445.55	450.10	448.04	449.92	445.55	450.10	448.40
WEX-0210-UTR	487.14	482.64	482.92	482.91	483.11	482.64	483.11	482.90
WEX-0210-LL	483.04	450.72	451.89	451.86	455.27	450.72	455.27	452.44
WEX-0211-UT	486.37	470.59	470.92	470.70	470.32	470.32	470.92	470.63
WEX-0214-UT	482.17	471.61	469.09	472.11	469.69	469.09	472.11	470.63
WEX-0214-LL	482.25	dry	dry	dry	dry			

* TOC = top of well casing

Table 4-2

Groundwater Elevation Data - Bedrock Wells

Well Number	TOC * Elevation	Groundwater Elevations				Range		Average
		Jan-21	Apr-21	Jul-21	Oct-21	min	max	
Existing Landfill								
SM-0003-SB	483.30	462.15	462.47	463.25	463.68	462.15	463.68	462.89
SM-0005-SB	482.95	468.55	470.46	470.94	471.18	468.55	471.18	470.28
SM-0006-SB	481.34	472.06	474.35	473.94	474.80	472.06	474.80	473.79
SM-0008-SBR	481.04	449.21	451.69	450.52	452.39	449.21	452.39	450.95
SM-0013-SB	481.67	463.02	464.66	464.46	465.84	463.02	465.84	464.50
SM-0014-SB	482.03	465.51	466.80	466.42	467.58	465.51	467.58	466.58
SM-0016-SB	484.53	468.82	471.01	470.52	472.58	468.82	472.58	470.73
Southeast Landfill								
SE-0100-SBR	525.50	450.00	450.21	448.94	450.79	448.94	450.79	449.99
SE-0100-DBR	526.45	447.52	448.82	446.39	450.45	446.39	450.45	448.30
SE-0106-SB	487.66	448.87	448.99	447.56	449.89	447.56	449.89	448.83
SE-0107-SB	484.45	450.58	451.35	450.34	452.05	450.34	452.05	451.08
SE-0115-SB	505.14	456.93	457.08	455.51	458.47	455.51	458.47	457.00
T-0001-SB	503.56	454.25	**	**	**	454.25	454.25	454.25
T-0005-SB	501.53	453.74	454.68	454.75	454.87	453.74	454.87	454.51
WEX-0204-SB	486.69	455.01	456.47	455.65	457.16	455.01	457.16	456.07
Southeast Landfill Bumpout								
WEX-0205-SB	495.27	449.35	449.31	447.76	450.72	447.76	450.72	449.29
WEX-0206-SB	498.75	449.05	449.28	447.75	450.73	447.75	450.73	449.20
WEX-0207-SB	500.58	453.61	453.46	451.91	455.06	451.91	455.06	453.51
WEX-0215-SB	493.28	447.45	447.87	445.85	449.13	445.85	449.13	447.58
Western Fill Cell								
WEX-0208-SB	483.48	447.17	449.53	447.53	450.51	447.17	450.51	448.69
WEX-0209-SB	496.09	445.09	449.77	447.62	449.83	445.09	449.83	448.08
WEX-0210-SB	483.12	443.56	445.62	443.60	447.14	443.56	447.14	444.98
WEX-0210-DB	483.52	440.96	446.44	443.89	447.40	440.96	447.40	444.67
WEX-0211-SB	485.84	449.16	451.87	462.04	454.57	449.16	462.04	454.41
WEX-0212-IB	484.44	447.29	448.35	446.24	449.18	446.24	449.18	447.77
WEX-0213-SB	493.98	475.46	476.17	476.10	475.85	475.46	476.17	475.90
WEX-0214-SB	482.93	439.38	441.70	440.52	442.55	439.38	442.55	441.04

* TOC = top of well casing

** No measurement; kink in well casing

Based on previous hydrogeologic studies of the site, shallow groundwater flow surrounding lined landfills at the facility (i.e., all except the Existing Landfill) occurs in the direction of the landfill due to the diversion of recharge away from the landfill, which suppresses the water table beneath the landfill relative to the surrounding area. At the Existing Landfill, shallow groundwater flow is also diverted toward the landfill by the pumping of leachate recovery wells located along the west, north, and east margins of the landfill, and by the AB drain that traverses the southern boundary of the landfill.

Quarterly evaluations of the water level data for the bedrock wells indicated a southerly and southeasterly flow direction, which was consistent throughout 2021.

Comparisons of the water level data for shallow and deep monitoring well pairs (e.g., SM-0008-UT and SM-0008-SBR, SE-0115-UT and SE-0115-SB, WEX-0205-UTR and WEX-0205-SB, WEX-0208-UT and WEX-0208-SB) showed that the water levels in the bedrock wells are several feet deeper indicating a substantial vertical component to groundwater flow beneath most, if not all, of the site. Because of this, contaminants released from the landfills would be expected to migrate downward through the overburden and eventually spread laterally when bedrock is encountered. Impacts identified to some of the SELF and Western Expansion wells (see Sect. 4.2.1) are consistent with this groundwater flow pattern.

4.2 SUMMARY OF GROUNDWATER IMPACTS

Impacts to groundwater quality at the SMI facility are limited to specific wells or areas already known to be impacted. These include:

- Areas impacted by a contaminant plume that originates from the Tantalo Waste Site, which is also undergoing remediation, and

- Overburden wells impacted by road deicing agents.

Impacts to wells downgradient and cross-gradient of the Tantalo Site involve mainly organic compounds as well as some inorganic analytes. Wells impacted by deicing agents exhibit increasing trends of sodium, chloride, and other major inorganic water quality parameters and show trace or non-detect VOC detections.

Discussions of the water quality at wells associated with the areas identified above are provided in the following sections.

4.2.1 Wells Impacted By The Tantalo Site

Several wells and a few porewater samples were identified in the 2021 quarterly monitoring reports as being impacted by the contaminant plume that extends from the Tantalo Site. The impacts vary in degree depending on the locations of the wells in relation to the contaminant plume and were identified by detections of VOCs known to originate at the Tantalo Waste Site. These include trichloroethene and its degradation products chloroethane, 1,1-dichloroethene, cis- and trans-1,2-dichloroethene, and vinyl chloride. (Acetone and 2-butanone were detected at trace concentrations in several wells, but these detections were attributed to laboratory contamination). Elevated levels of inorganic parameters, mainly chloride, bromide, and sodium, were also detected in some of the wells.

The monitoring wells and porewater samples exhibiting detections of the Tantalo VOCs during the third quarter Part 360 baseline sampling event are listed in Table 4-3.

As indicated by the "J" laboratory qualifiers in Table 4-3, most of the VOC detections were at trace levels [i.e., below the method reporting limits (MRLs)]. Detections of trichloroethene and/or its degradation products above the MRLs were found for overburden well T-0001-UT and for bedrock wells SE-0100-SBR, SE-0100-DBR, WEX-0211-SB, and WEX-0213-SB. Acetone was detected above the MRL in well SM-0008-SBR but may be the result of laboratory contamination.

Table 4-3

Summary of VOCs in Groundwater Samples
3rd Quarter 2021
(Values are in ug/L)

Sample ID	Analyte	MRL *	Result *
Overburden Wells			
SE-0101-UL	Benzene	25	1.9 J
	Chlorobenzene	25	2.0 J
T-0001-UT	Trichloroethene	5	1.7 J
	Vinyl chloride	5	0.59 J
	cis-1,2-Dichloroethene	5	**61**
	trans-1,2-Dichloroethene	5	1.2 J
WEX-0214-UT	4-Methyl-2-pentanone	10	0.72 J
Bedrock Wells			
SE-0100-SBR	1,1-Dichloroethene	5	0.21 J
	Trichloroethene	5	0.45 J
	Vinyl chloride	5	3.2 J
	cis-1,2-Dichloroethene	5	**36**
	trans-1,2-Dichloroethene	5	0.42 J
SE-0100-DBR	1,1-Dichloroethene	5	1.5 J
	Trichloroethene	5	4.8 J
	Vinyl chloride	5	**21**
	cis-1,2-Dichloroethene	5	**98**
	trans-1,2-Dichloroethene	5	0.87 J
SE-0106-SB	cis-1,2-Dichloroethene	5	0.49 J
SM-0008-SBR	Acetone	10	**21**
	2-Butanone	10	1.7 J
T-0001-SB	Carbon disulfide	10	8.3 J
	cis-1,2-Dichloroethene	5	0.70 J
WEX-0205-SB	2-Butanone	10	0.83 J
WEX-0211-SB	Trichloroethene	5	**39**
	cis-1,2-Dichloroethene	5	**20**
WEX-0213-SB	1,1-Dichloroethene	5	0.29 J
	Trichloroethene	5	**9.3**
	Vinyl chloride	5	**10**
	cis-1,2-Dichloroethene	5	**55**
	trans-1,2-Dichloroethene	5	0.35 J
WEX-0214-SB	Vinyl chloride	5	3.3 J
	cis-1,2-Dichloroethene	5	1.5 J

Table 4-3 (Continued)

Summary of VOCs in Groundwater Samples
3rd Quarter 2021
(Values are in ug/L)

Sample ID	Analyte	MRL *	Result *
Porewater			
AB-0002-PW	Benzene	5	0.35 J
	Carbon disulfide	10	8.0 J
	m,p-Xylenes	5	0.21 J
SE-0001-PW	cis-1,2-Dichloroethene	5	0.33 J
SE-0002-PW	Carbon disulfide	10	0.86 J
SE-0003-PW	1,1-Dichloroethene	5	0.39 J
	Vinyl chloride	5	**10**
	cis-1,2-Dichloroethene	5	**36**
	trans-1,2-Dichloroethene	5	0.23 J
NEX-0007-PW	Acetone	10	3.9 J
	2-Butanone	10	9.2 J
	Carbon disulfide	10	0.43 J
WEX-0001-PW	Acetone	10	8.7 J
	2-Butanone	10	0.89 J
	Methylene chloride	5	4.3 J
	Toluene	5	0.31 J
	Trichlorofluoromethane	5	1.6 J

* Notes:
MRL = method reporting limit
J qualifier indicates a result below the MRL

As shown in Table 4-3, traces of benzene and chlorobenzene were detected in overburden well SE-0101-UL. Aromatic hydrocarbons are not commonly found in groundwater at the facility. Possible sources for the low level hydrocarbon concentrations are not obvious.

VOCs were also detected in several of the porewater samples (see Table 4-3). Most concentrations were at trace levels. Possible sources for the trace detections are not obvious. Some may be due to laboratory or field contamination (e.g., acetone, 2-butanone, and carbon disulfide).

VOCs associated with the Tantalo Site were detected above the MRLs in porewater sample SE-0003-PW may be due to limited volatilization of contaminants from the underlying contaminant plume.

Statistical analyses of the VOC data (see 3rd Quarter 2021 Groundwater Monitoring Report dated October 2021) found an increasing trend for cis-1,2-dichloroethene in overburden well T-0001-UT. Decreasing trends were found for the following VOCs in the wells listed below.

SE-0106-SB	cis-1,2-Dichloroethene
SE-0100-SBR	Trichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene, 1,1-Dichloroethene, Vinyl chloride
SE-0100-DBR	Trichloroethene, cis-1,2-Dichloroethene, Vinyl chloride
WEX-0211-SB	Trichloroethene, cis-1,2-Dichloroethene

These trends are consistent with those determined for the past few years.

4.2.2 Wells Impacted By Road Deicing Agents

Increasing trends in the concentrations of sodium, chloride, and other major water quality components such as calcium, magnesium, and sulfate have been observed in a few

monitoring wells surrounding the SELF Bumpout. Most of the wells are shallow overburden wells and include the following (see Fig. 2-2):

WEX-0205-UT/SB
WEX-0206-UT
WEX-0207-UT/LL
WEX-0215-LL
SE-0115-UT/SB

For well clusters WEX-0205-UT/SB, WEX-0207-UT/LL, and SE-0115-UT/SB, the trends identified in the deeper wells presumably result from the downward migration of chloride, sodium, and other dissolved constituents in a groundwater flow pattern consistent with the overburden hydrogeology.

Time series plots of TDS, sodium, and chloride concentrations in the affected wells are provided in Appendix A. The plots show trends of increasing concentration over the past several years. Similar trends have been found for calcium, magnesium, and sulfate but are not shown.

A few possible causes for the rising trends have been investigated, including leakage from the SELF Bumpout liner system, but the following observations point to road salt as the most likely source of the contamination.

- All the wells affected are adjacent to the facility entrance (Salcman Road) and Route 414, which borders the east side of the facility. These roadways have been routinely treated during winter months with road deicing agents, namely rock salt (sodium chloride). A commercially available deicing agent consisting of a mixture of molasses and magnesium chloride salts has been used at the facility in the past few years to minimize impacts to shallow groundwater.

- Almost all the wells affected are shallow overburden wells, which are more susceptible to surface sources of contamination than deeper wells at the facility. For example, wells WEX-0205-UT, WEX-0206-UT, and WEX-0207-UT, which exhibit the highest concentrations

of sodium, chloride, and other chemical constituents, are only 20 feet deep and are screened over the lowermost 10 feet.

- The parameters exhibiting rising trends are limited to sodium, chloride, and other major inorganic chemical components. Other parameters commonly elevated in landfill leachate such as ammonia, bromide, phenolics, and organic compounds have not been detected or have been detected at trace levels. A trace of cis-1,2-dichloroethene, was detected in bedrock well WEX-0205-SB during the third quarter 2020 monitoring event but was not detected during the Part 360 baseline sampling event of 2021.

Similar increasing trends in the concentrations of the parameters mentioned above have also occurred in bedrock wells WEX-0205-SB and SE-0115-SB (see App. A). These trends most likely result from the vertically downward flow of contaminated shallow overburden groundwater. The parameter concentrations in the overburden wells are substantially higher than the concentrations found in the bedrock wells.

As mentioned above, other major dissolved constituents such as calcium, magnesium, and sulfate also exhibit trends of increasing concentration similar to those found for sodium and chloride. These trends are believed to result from the corrosive effects of chloride on the well grouting material (Portland cement), which contains substantial amounts of gypsum ($CaSO_4 \cdot 2H_2O$) and perhaps additional magnesium-bearing minerals. Corrosion of the grout would likely release substantial amounts of dissolved calcium, magnesium, and sulfate to the surrounding groundwater.

Other shallow monitoring wells along Route 414 (SE-0106-LL, SE-0111-LLA, WEX-0204-UG, and WEX-0215-LL) and further west along Salcman Road (SE-0115-UT and SE-0115-SB) exhibit similar trends, but not as pronounced as those for the wells near Salcman Road. The wells along Route 414 have shown a leveling off or reversal in trends in recent years (see time series plots in Appendix A)

The plots will be updated annually to determine the course of the trends.

5.0 CONCLUSIONS

During 2021, quarterly groundwater monitoring at the Seneca Meadows, Inc. Solid Waste Management Facility was conducted in compliance with the methods and procedures described in the Environmental Monitoring Plan (EMP) and Site Analytical Plan (SAP). Sampling was conducted during January, April, July, and October.

Groundwater elevations in the monitoring wells were generally highest during the latter half of the year. Comparisons of the water level data for shallow and deep monitoring well pairs showed that the water levels in the bedrock wells were several feet deeper indicating a vertical component to groundwater flow through the overburden. Water level data for the bedrock wells indicated a southerly and southeasterly flow direction, which was consistent throughout 2021.

Impacts to groundwater quality were limited mainly to specific wells or areas at the facility already known to be impacted. These include wells known to be impacted by a VOC plume that originates from the Tantalo Waste Site and shallow wells adjacent to the landfill access road along the south side of the SELF Bumpout and adjacent to Route 414, which show indications of contamination from road deicing agents.

VOCs known to originate at the Tantalo Waste Site, including trichloroethene, 1,1-dichloroethene, cis- and trans-1,2-dichloroethene, and vinyl chloride were detected in a few wells located downgradient or cross-gradient of the Tantalo Site. Wells having VOC detections well above the method reporting limits include overburden well T-0001-UT and bedrock wells SE-0100-SBR, SE-0100-DBR, WEX-0211-SB, and WEX-0213-SB. Statistical analyses of the VOC data show downward trends in VOC concentrations in many of these wells. It is expected that the downward trends will continue as remediation of the Tantalo Site continues.

Impacts to shallow overburden wells near Salcman Road (wells WEX-0205-UT, WEX-0206-UT, WEX-0207-UT,

WEX-0215-LL, and SE-0115-UT) and along Route 414 (well WEX-0204-UG) by major inorganic chemical components including sodium, chloride, and others appear to be due to contamination by road deicing agents.

The wells identified as being impacted will continue to be monitored closely. Intrawell analyses of the analytical results will be used to track the trends in analyte concentrations over time.

No modifications to the present monitoring program are recommended at this time.

6.0 REFERENCES

Fetter, C.W., 1988, Applied Hydrogeology: Merrill Publishing Co., 592 pp.

Gibbons, R.D., 2003, Statistical Methods for Ground-Water Monitoring at the Southeast Landfill: 35 pp. plus appendices.

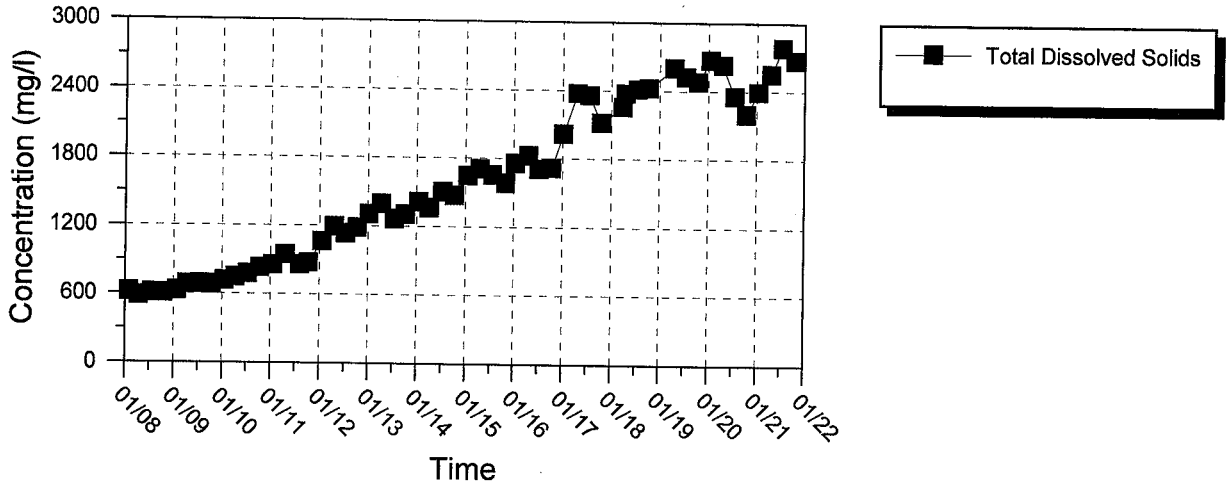
Hounslow, A.W., 1995, Water Quality Data: Analysis and Interpretation: Lewis Publishers, 397 pp.

New York State Dept. of Environmental Conservation, 2001, 6 NYCRR Part 360: Solid Waste Management Facilities.

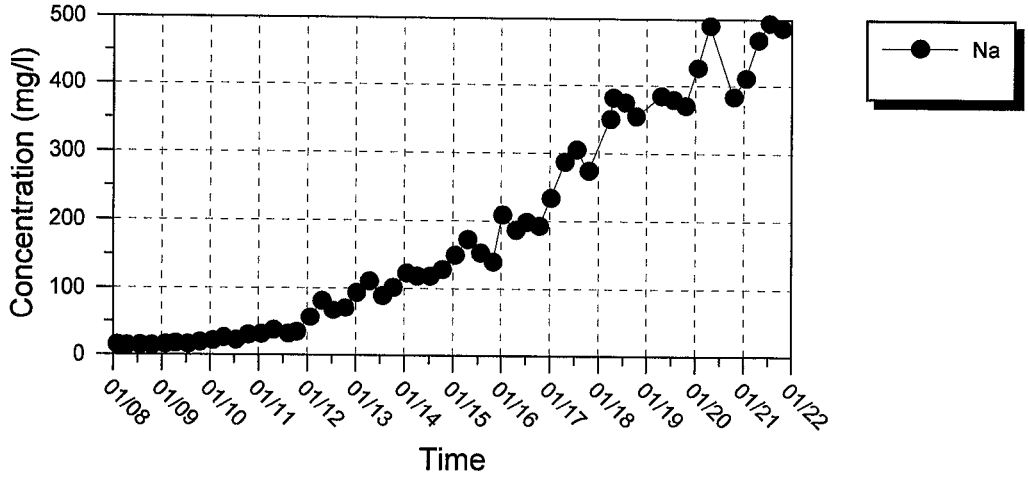
Appendix A

Time Series Plots

WEX-0205-UT



WEX-0205-UT



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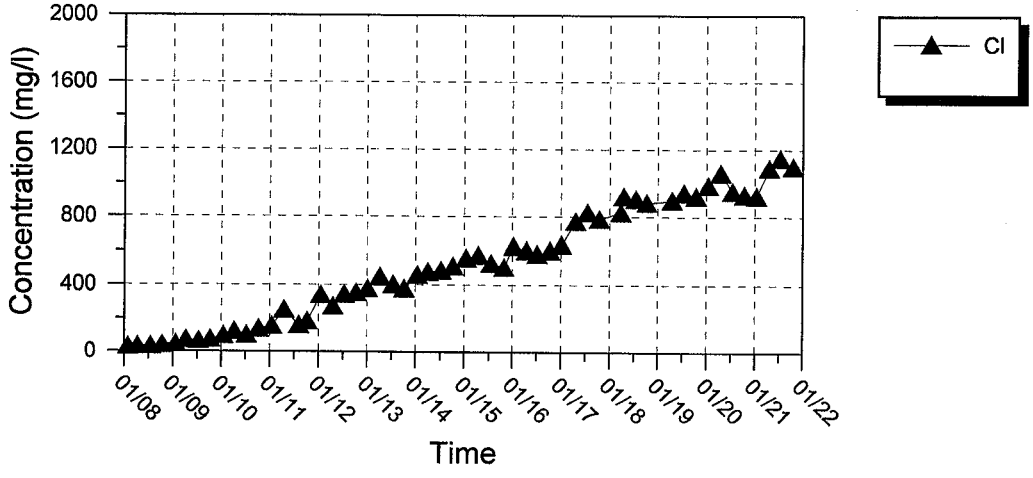

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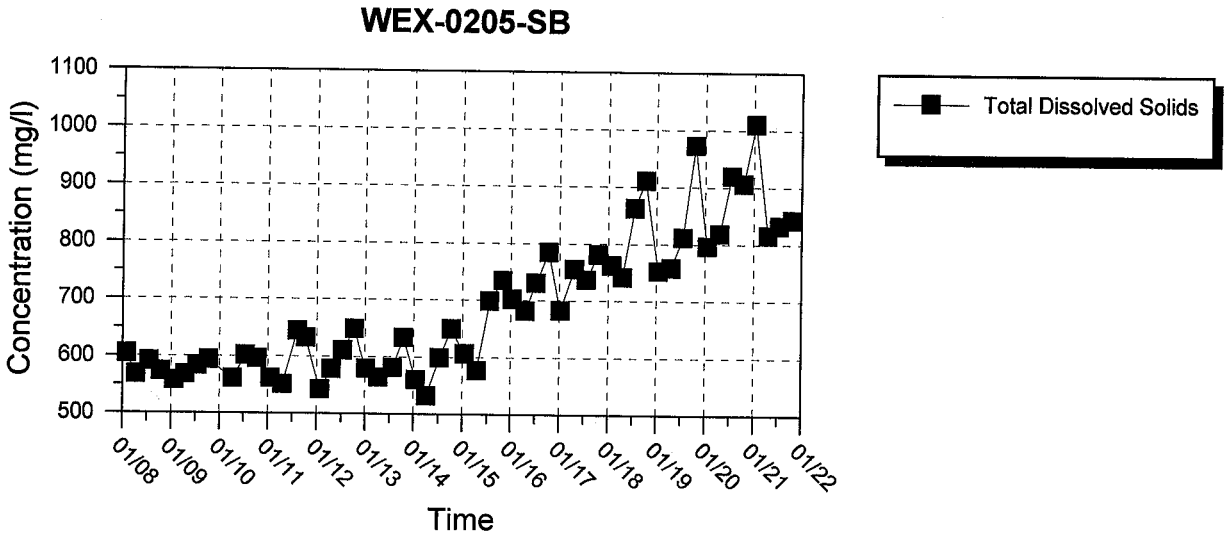

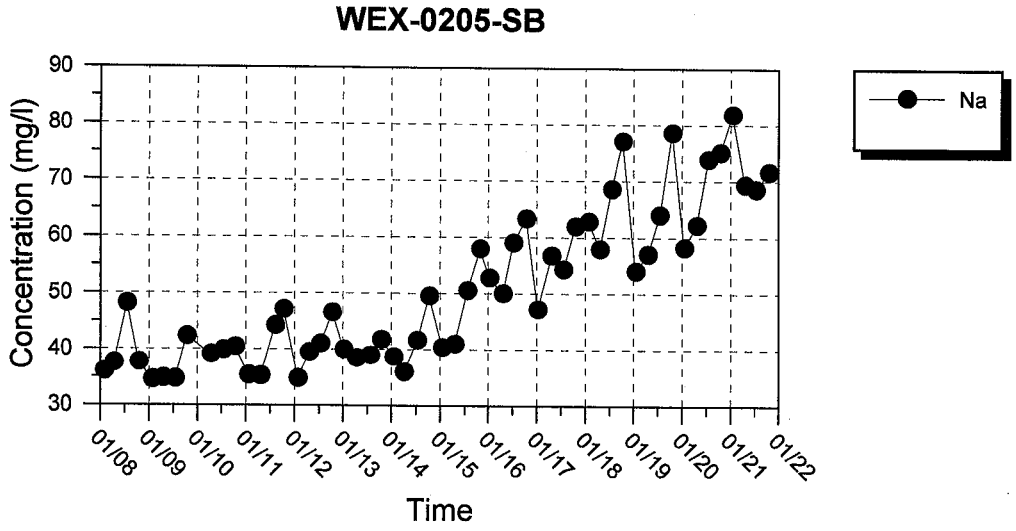

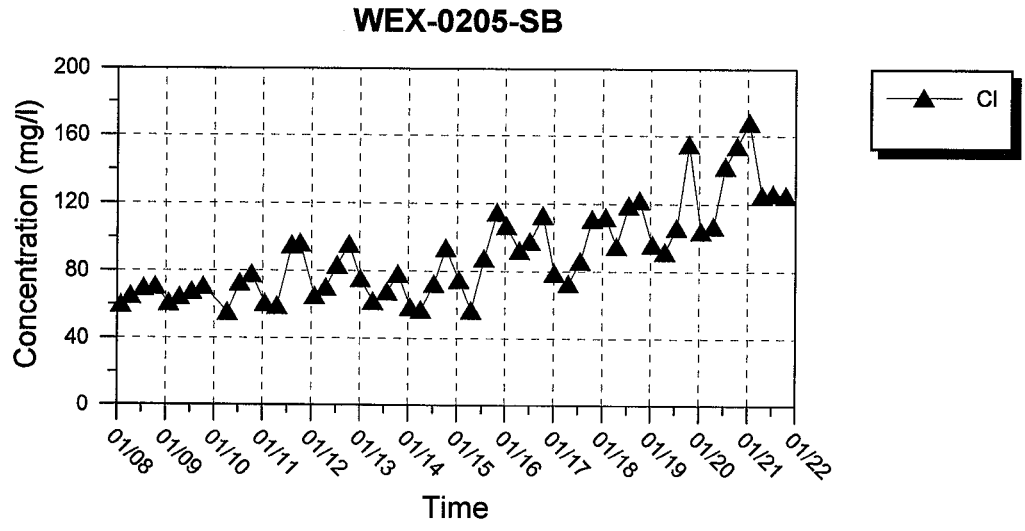

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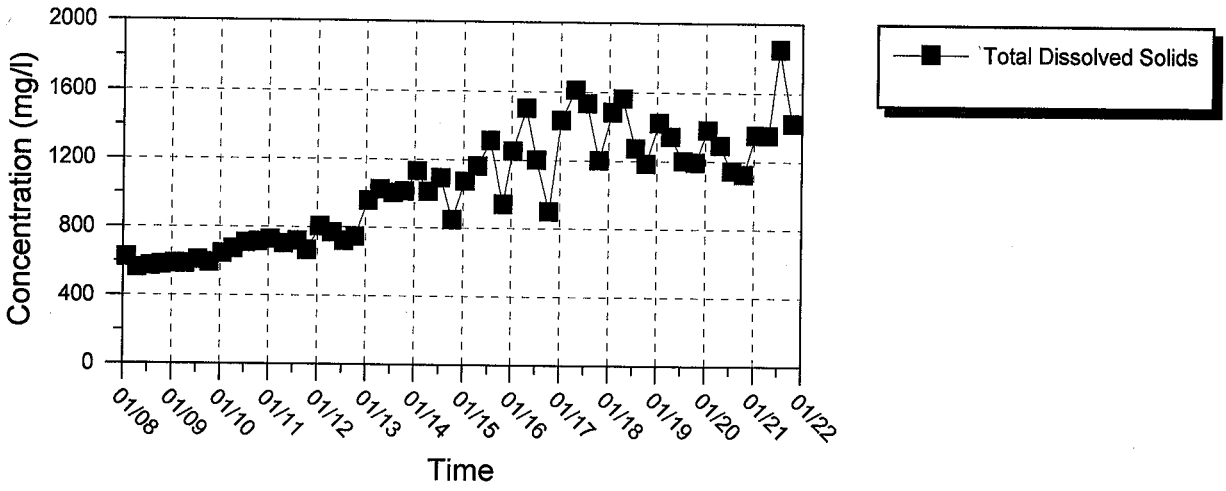
WEX-0206-UT



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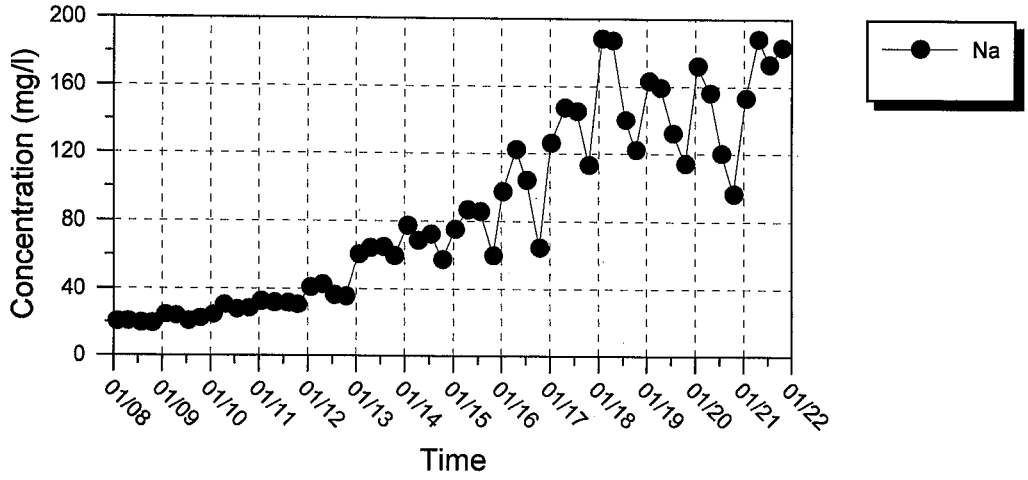

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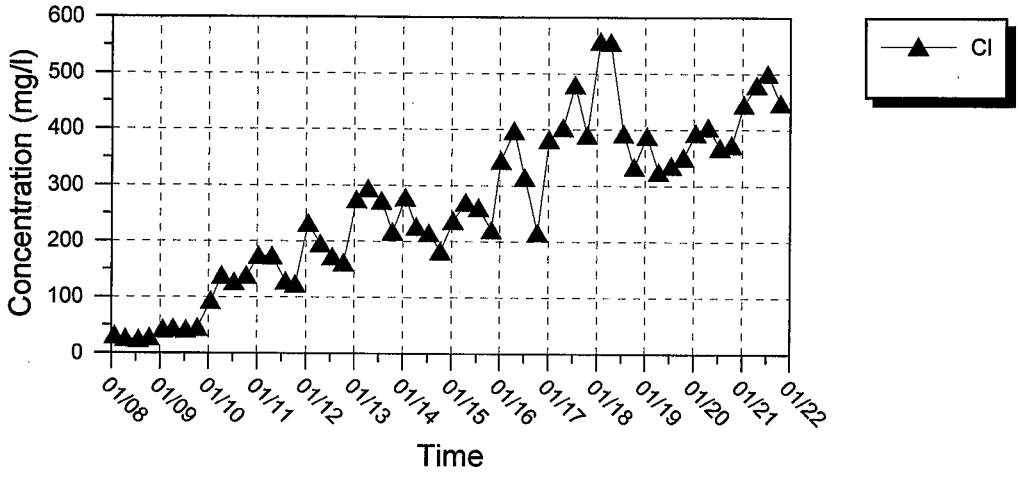

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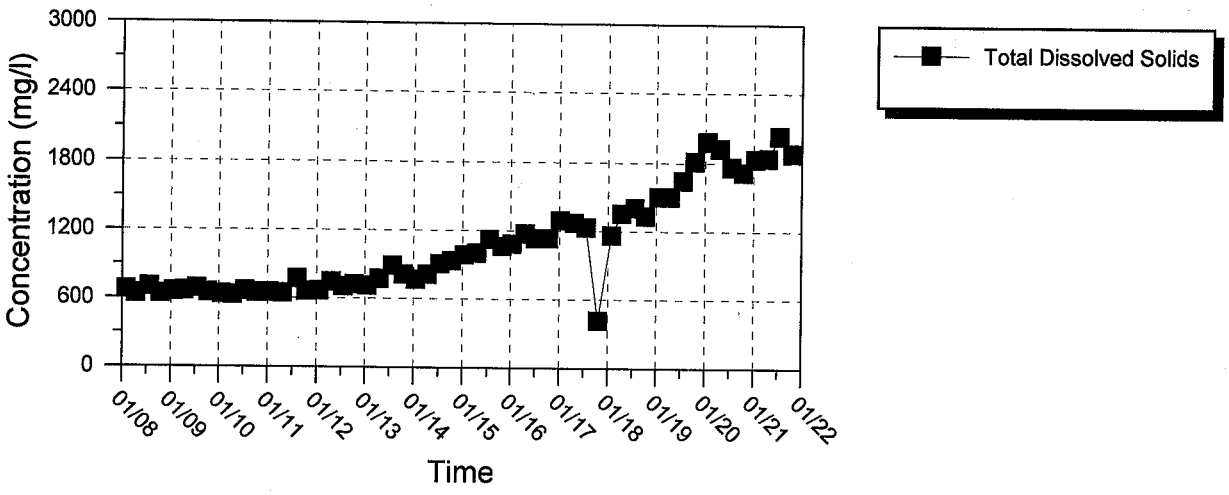

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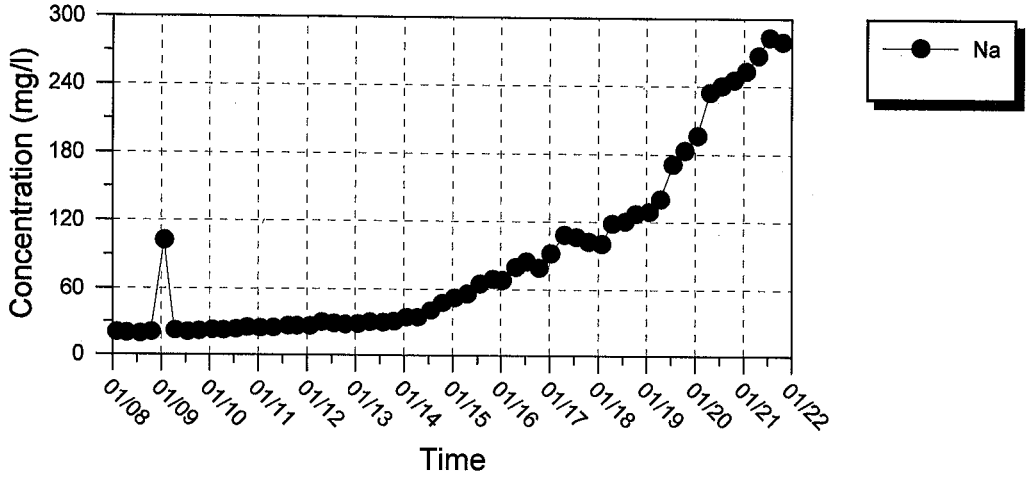

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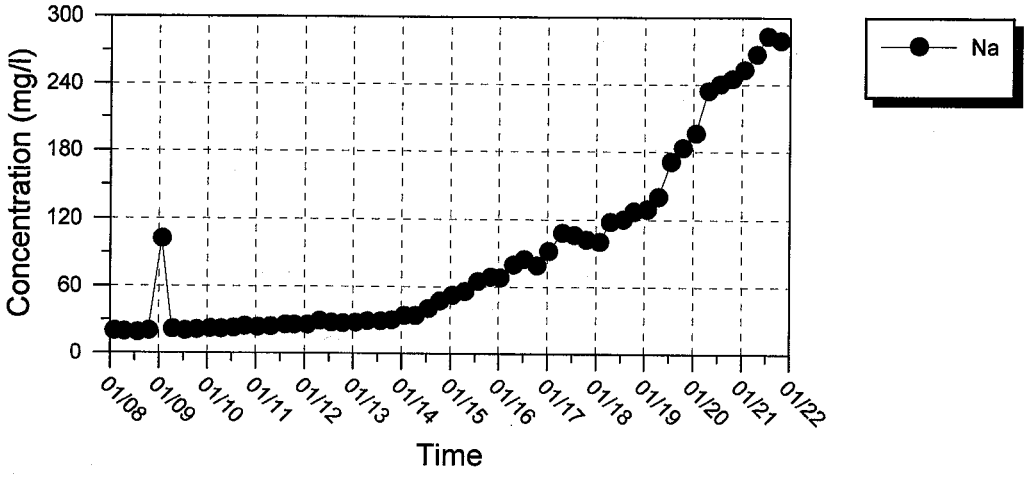

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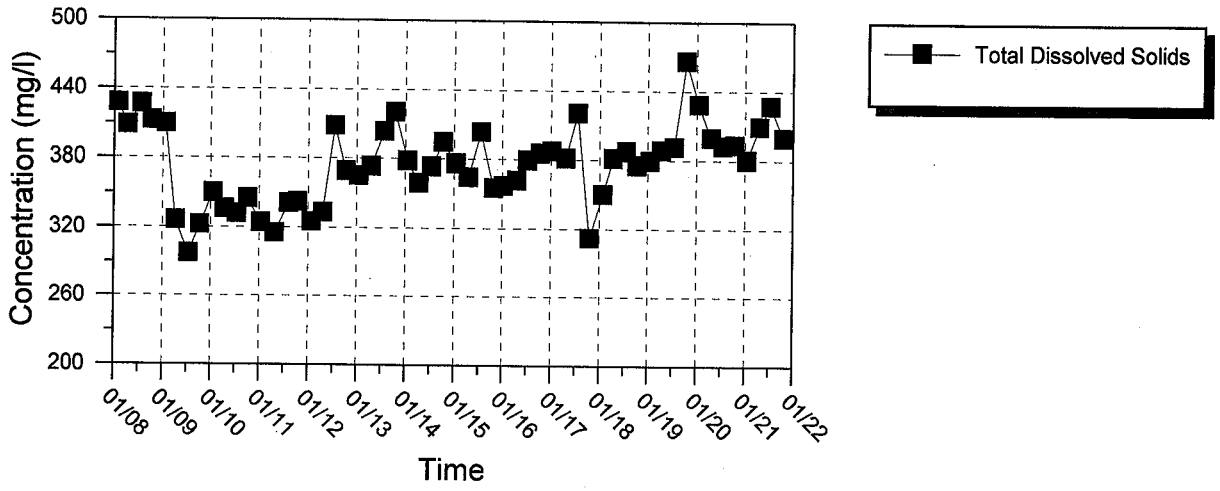

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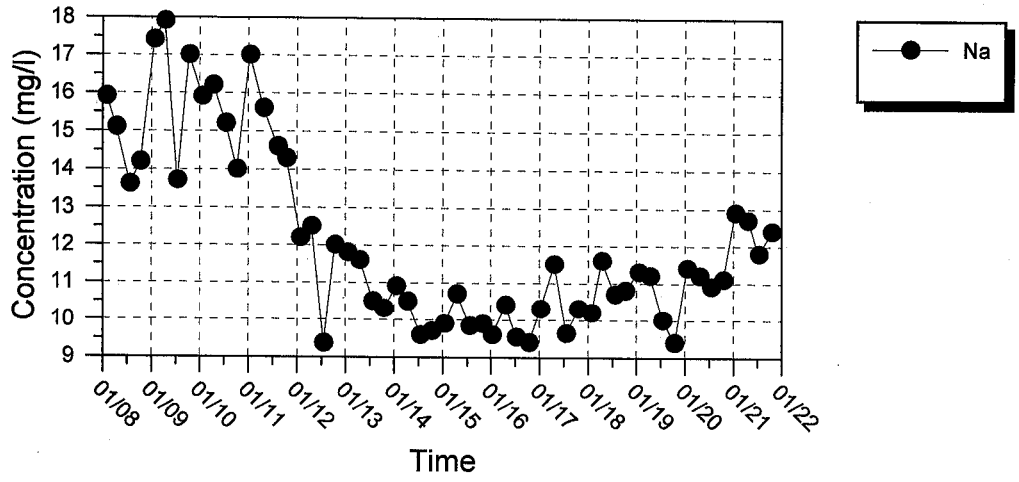

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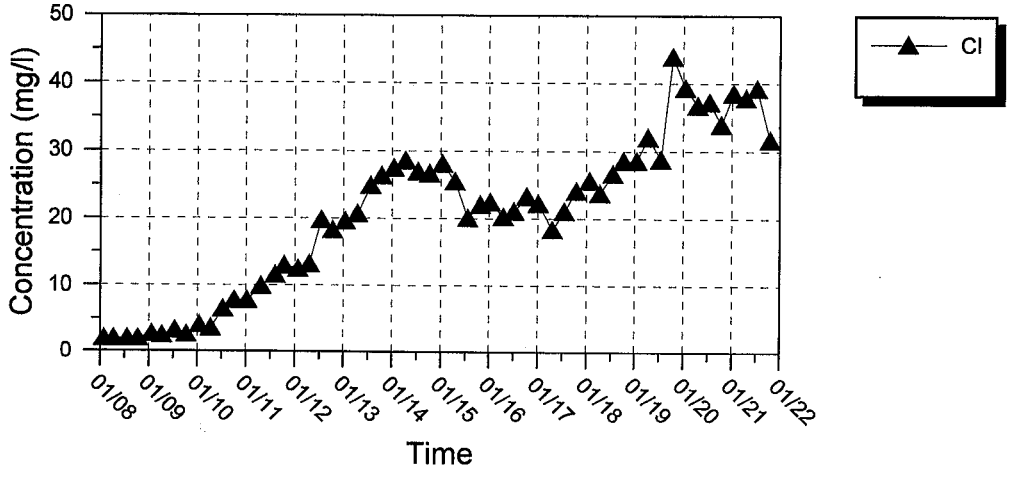

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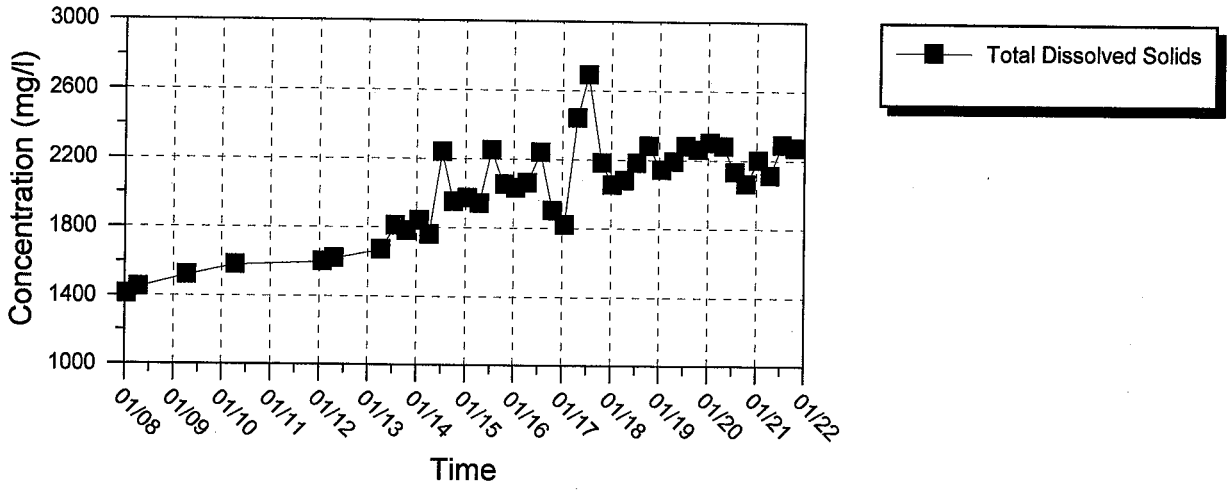

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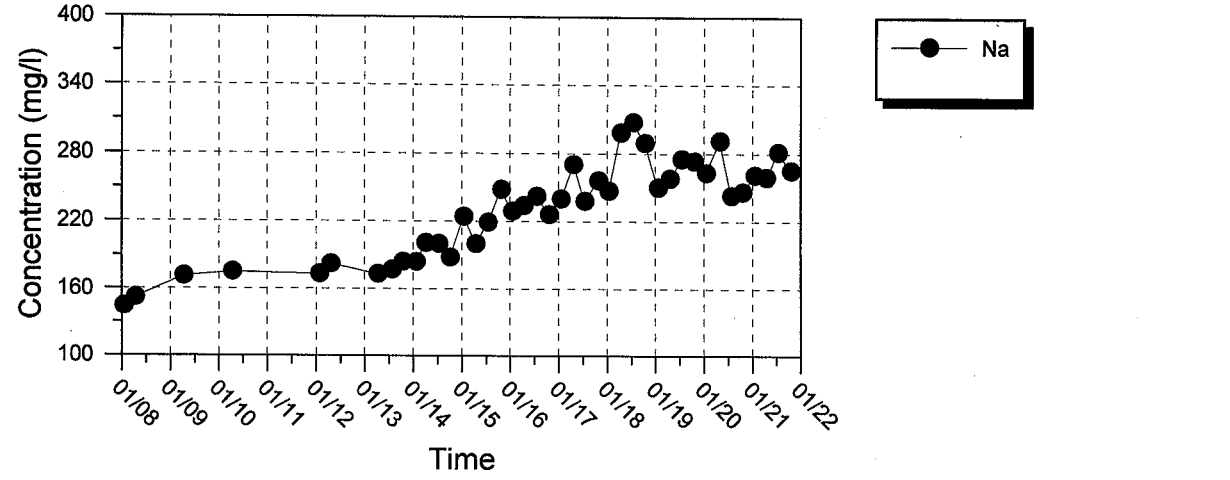

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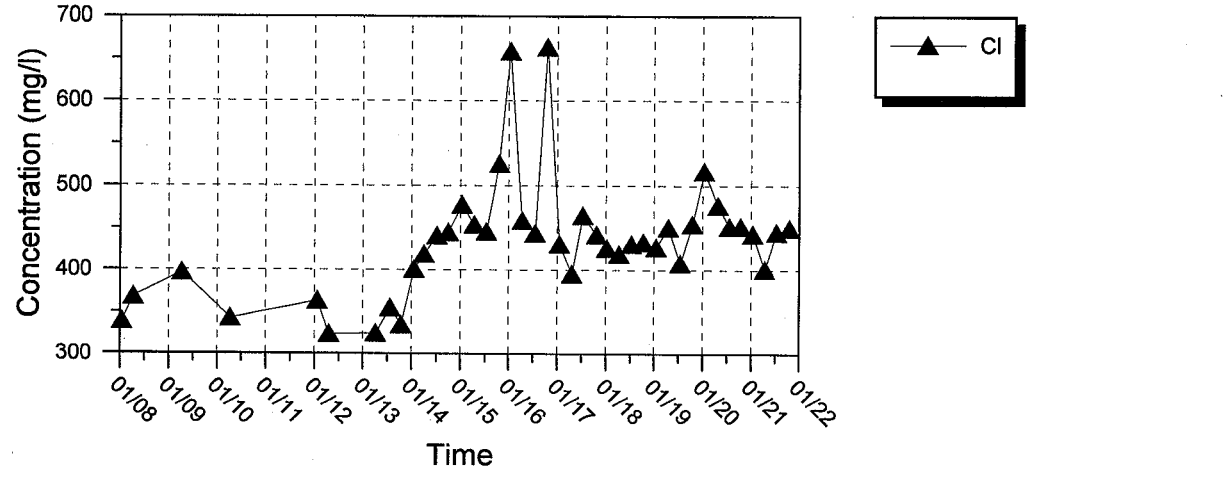

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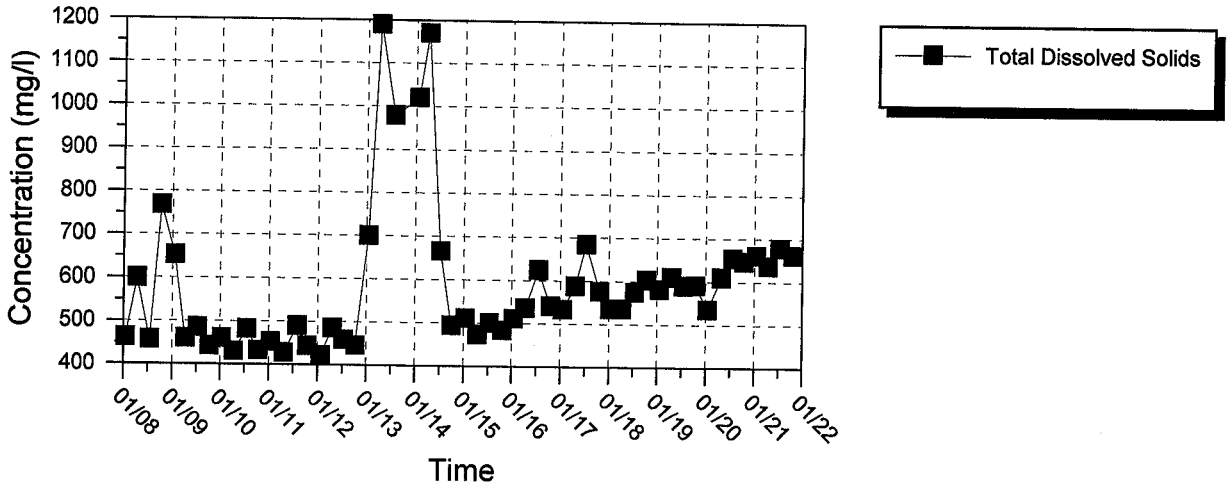

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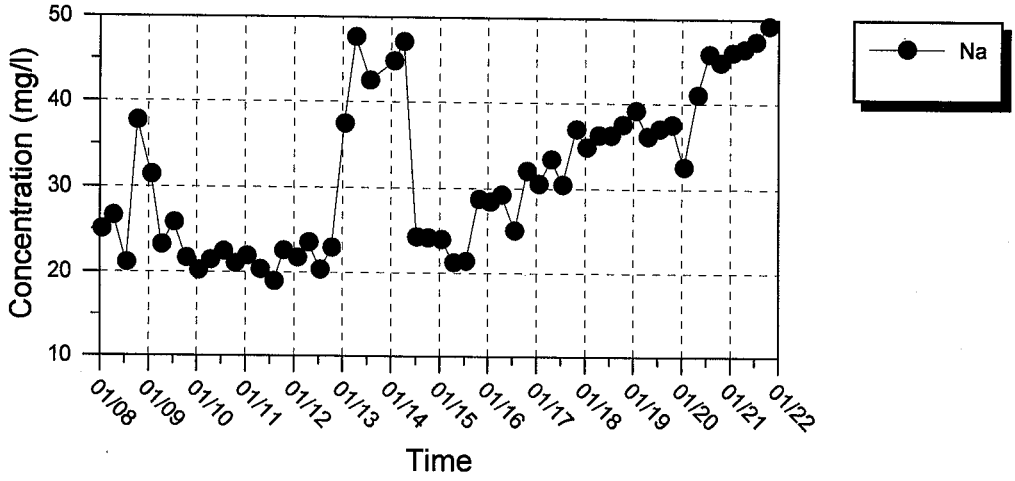

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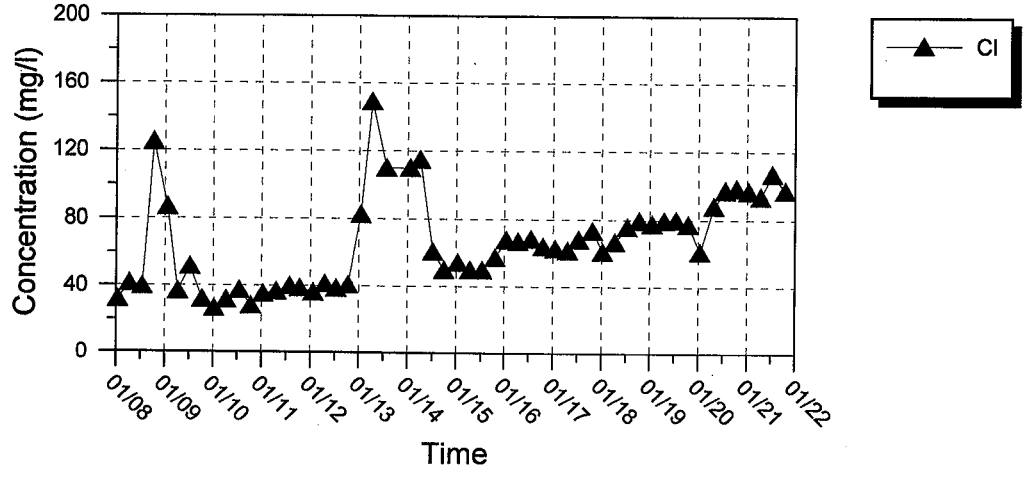

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	CLIENT: Waste Connections, Inc.	DATE: 2021

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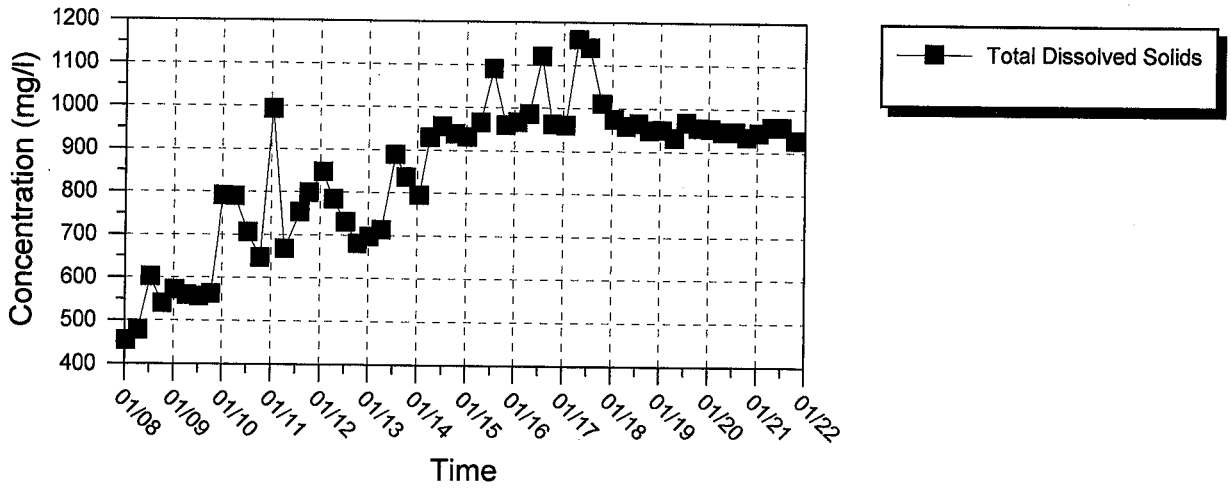

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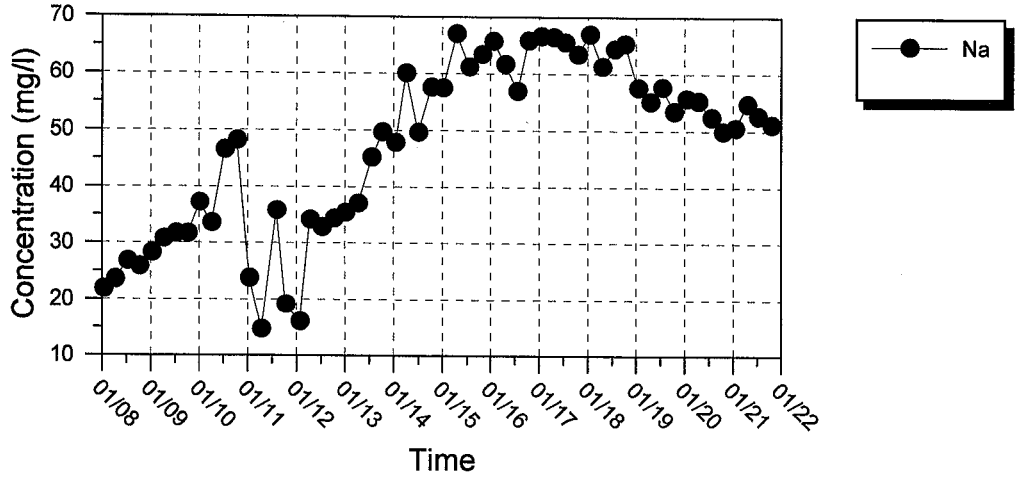

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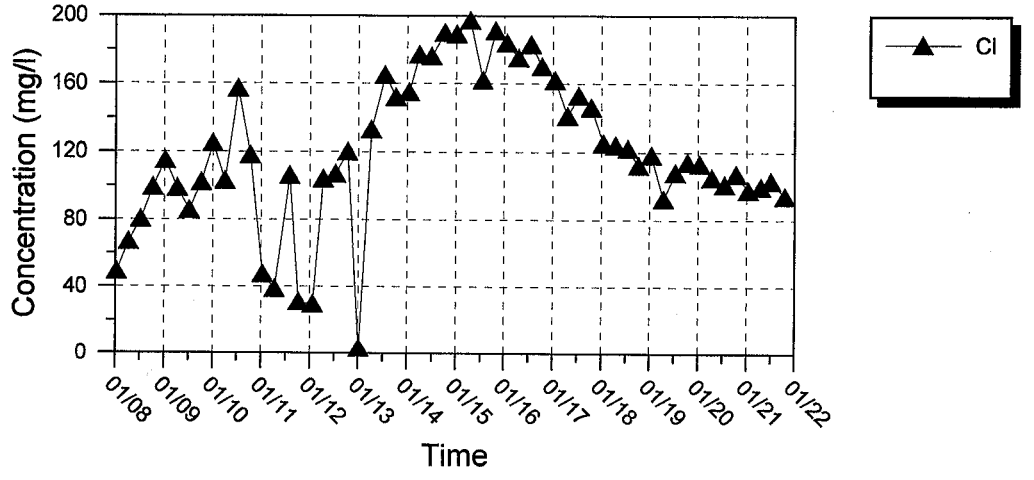

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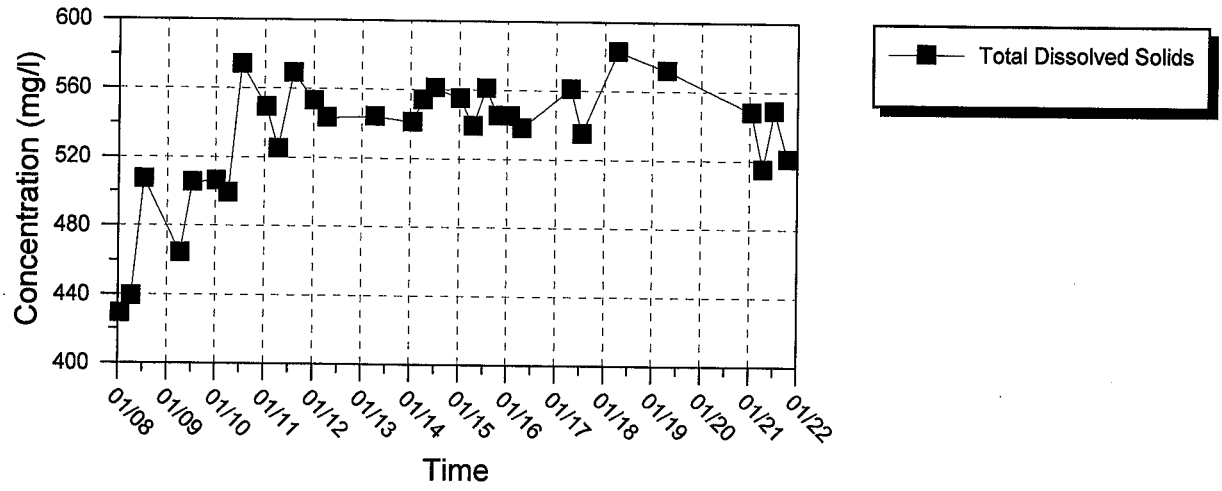

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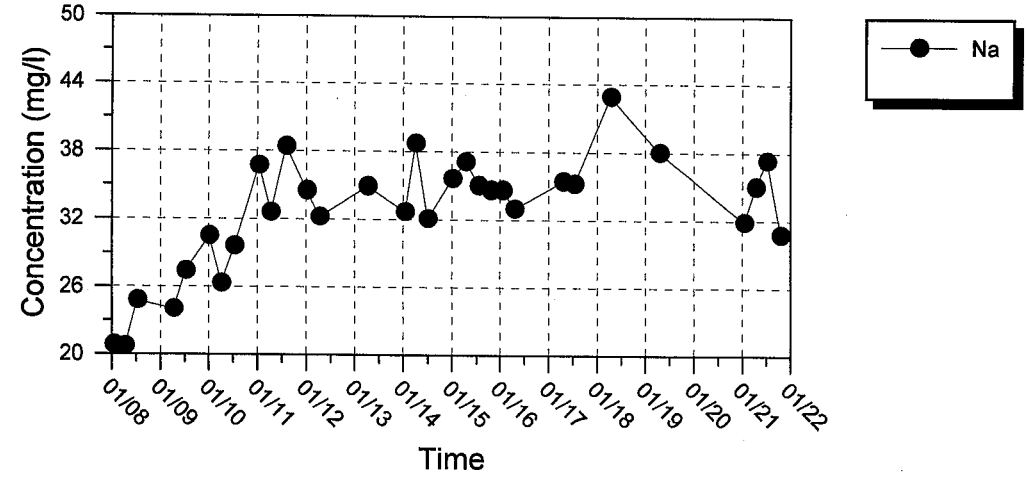

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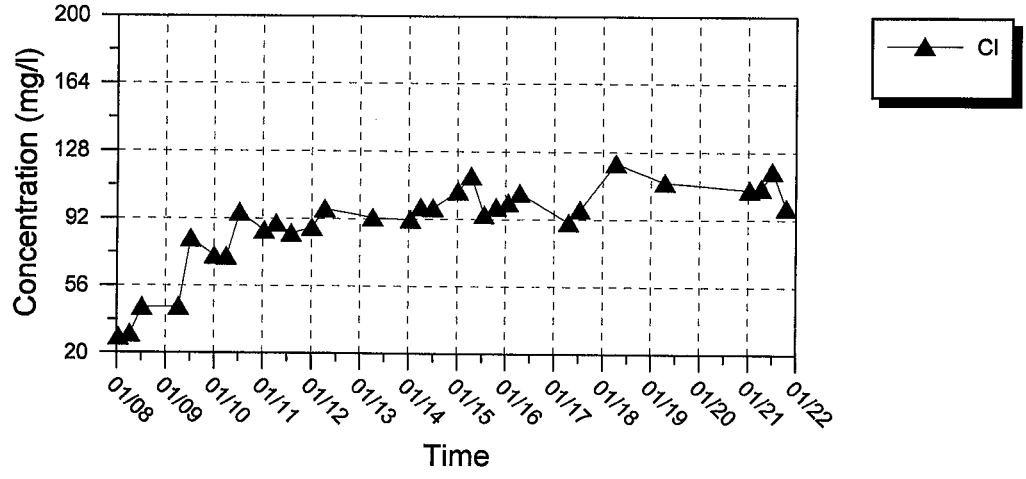

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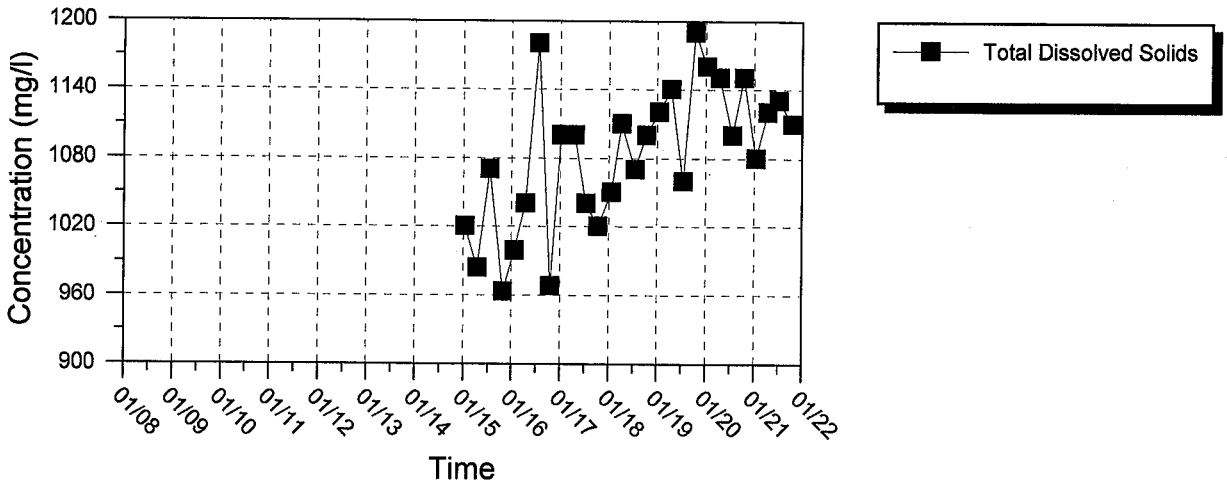

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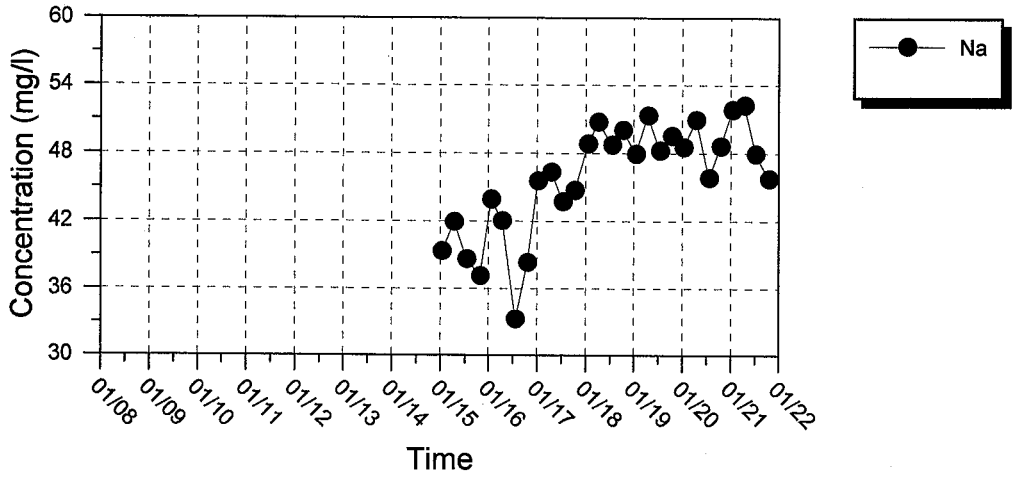

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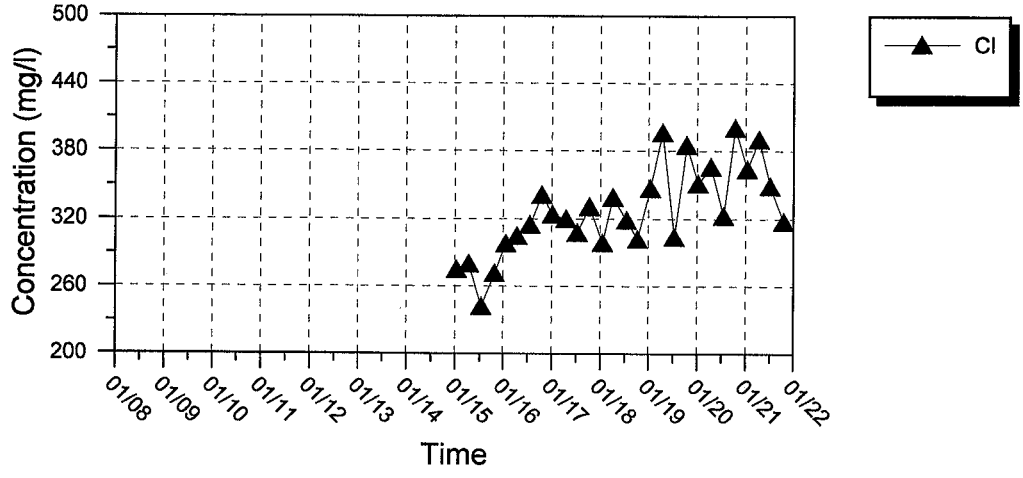

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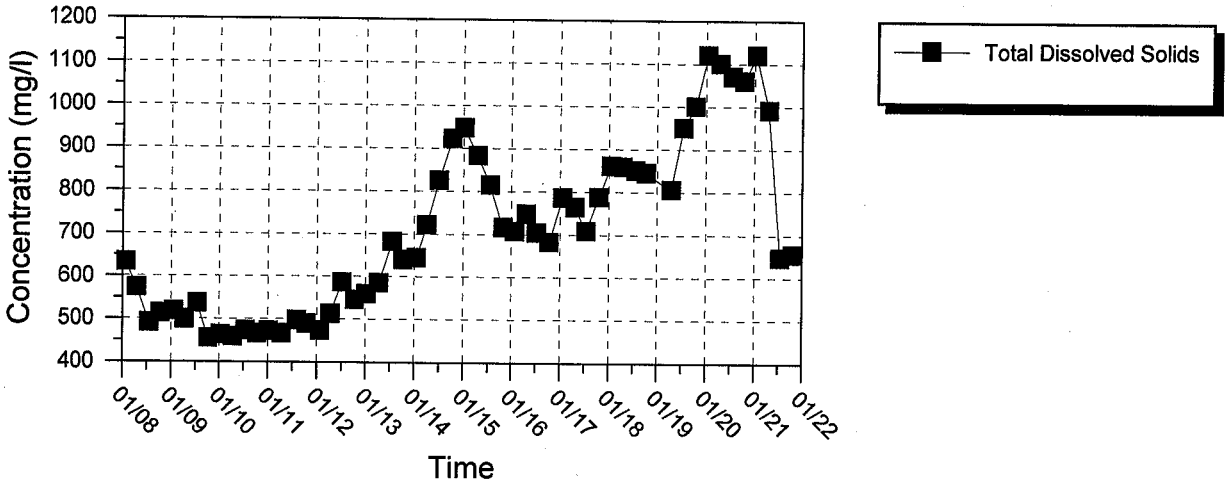

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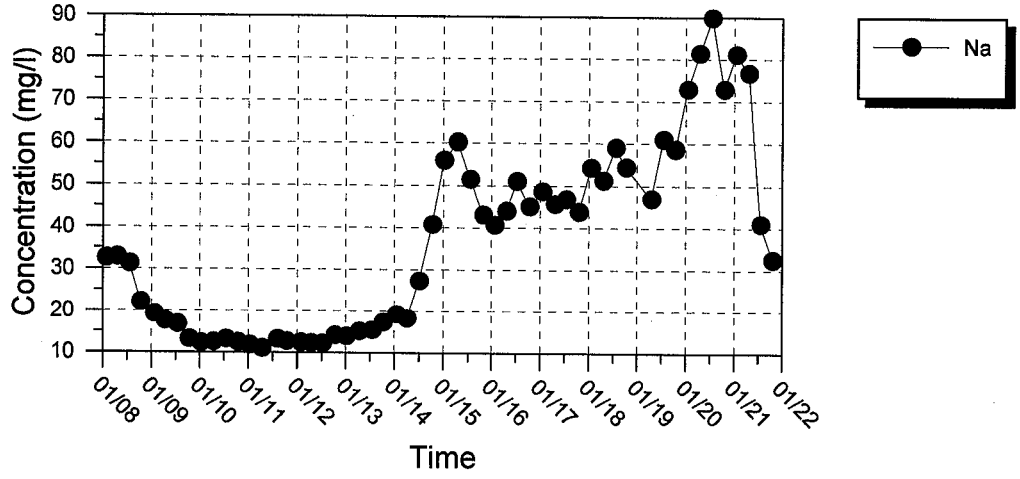

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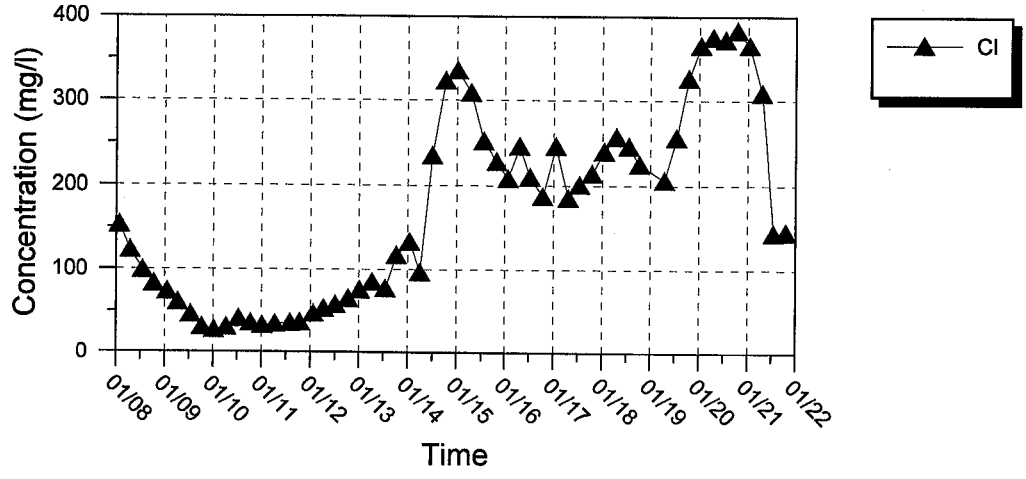

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10.0 RETENTION PONDS DISCHARGE EVENTS

Stormwater runoff from within the SMI Landfill, Southeast Landfill, Southeast Bumpout, and Western Expansion are diverted to 13 separate ponds associated with the landfill areas. Figure 10-1 details the location of the retention ponds and general stormwater flow direction for the site.

SMI LANDFILL

Surface water runoff from within the SMI Landfill footprint area is diverted to three east-side retention ponds and three west-side retention ponds. When the pond reaches capacity (approximately 474 ft MSL), the gate valve in the pond inlet structure is closed and stormwater is diverted to another empty retention pond. Once the pond is closed, the stormwater is sampled and analyzed by a certified laboratory. If the analytical parameters are in compliance with the permitted discharge limits, SENECA MEADOWS prepares a request for NYSDEC approval to discharge the pond. Once authorization has been received, pond discharge activities are completed in accordance with the SENECA MEADOWS operating permit.

SOUTHEAST LANDFILL, SOUTHEAST BUMPOUT (SBO), AND WESTERN EXPANSION

The stormwater runoff from the Southeast Landfill (SELF), the SELF Bumpout (SBO), and the majority of the Western Expansion areas are managed through the use of collection ponds, pumping points, and a series of conveyance structures where it passes under Salcman Road, and into the South Pond System. The stormwater is received into South Pond 3 and is transferred to an empty pond as maximum capacity is reached (approximately 471 ft. msl). The collected stormwater is pumped into one of the other ponds that make up the South Pond system (i.e. South Ponds 1, 2 or 4). Once full, the ponds are allowed to settle for approximately two weeks. Following this settlement period, a sample is collected and analyzed by a certified laboratory. After analytical testing and confirmation that constituent concentrations are in compliance with the approved limits, Seneca Meadows submits a request for discharge approval to the NYSDEC.

When authorization to discharge has been received from NYSDEC, the ponds are discharged in accordance with SMI's Part 360 Operating Permit.

The stormwater run-off from northern portions of the western expansion (Stage 3/3A) is managed through a series of conveyance features into a temporary pond at the northeast corner of Stage 3. This water is then pumped into the Tantalo channel which eventually ends up in the South Pond system

POND DISCHARGE EVENT

During pond discharge events, SENECA MEADOWS' contracted laboratory conducts sampling and analysis of discharged stormwater and surface water. The discharge sampling point designations for the east, west, south, and temporary ponds are as follows for this reporting period:

- East Ponds (E-1, E-2, and E-3): Pump outlet, SW-022 (transitioned to Ponds E-5 and E-6 in November 2016)
- West Ponds (W-1, W-2, and W-3): Pump outlet and SW-005
- South Ponds: Pump outlet and SW-023
- Western Expansion: Pump outlet, SW-023 and/or SW-024

These samples are analyzed for pH, specific conductivity, and total suspended solids (TSS).

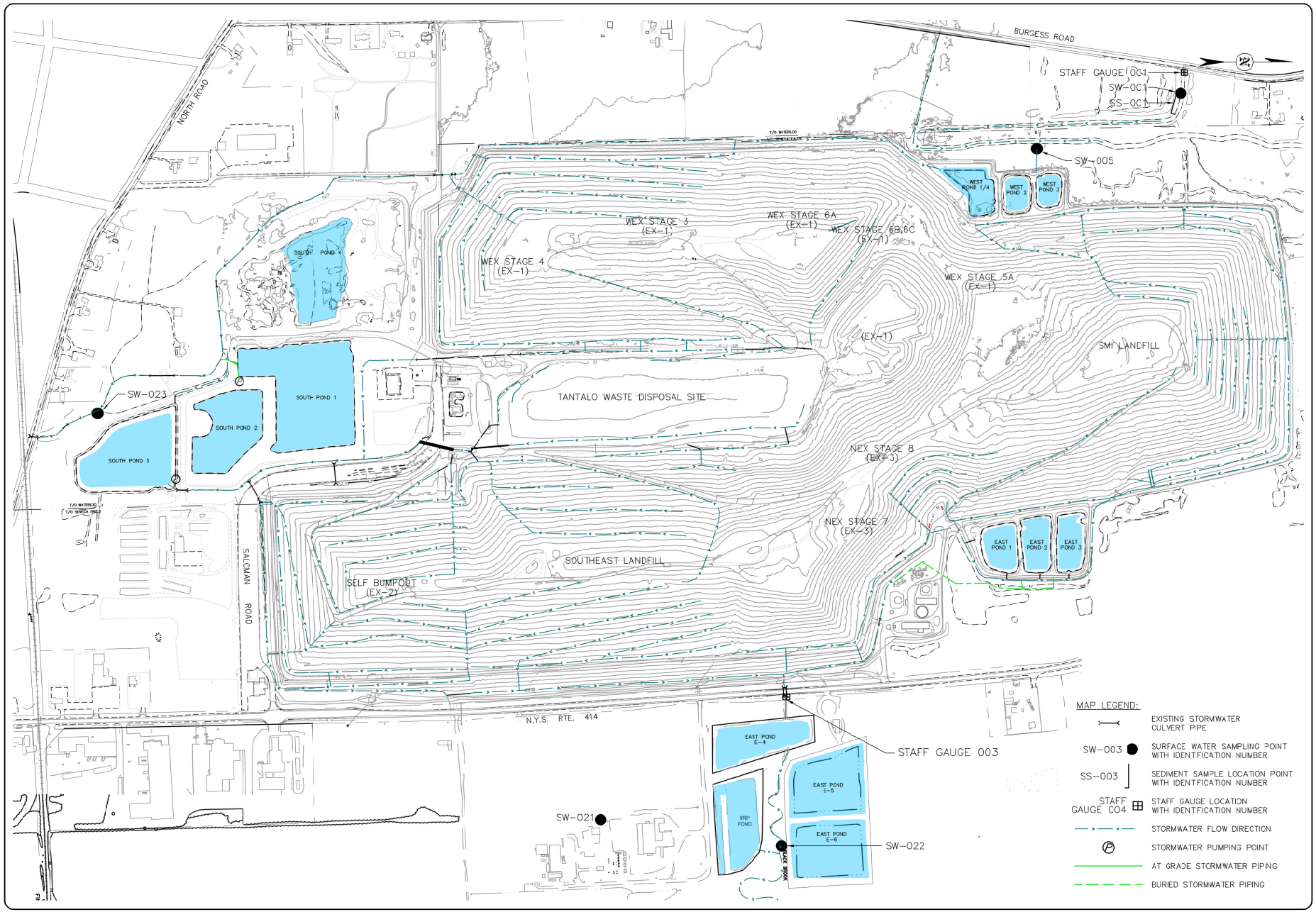
There was a total of 26 pond discharge events completed in 2021. Table 10-1 summarizes the discharge events and the estimated gallons discharged per event.

TABLE 10-1. STORMWATER RETENTION POND DISCHARGE SUMMARY

FIGURE 10-1. STORMWATER MANAGEMENT SYSTEM COMPONENTS

Table 10-1
Seneca Meadows, Inc.
Storm Water Retention Pond Discharge Summary

	Location	Start	End	Elapse Time (hrs.)	Starting Elevation	Ending Elevation	Estimated Gallons Discharged	Estimated Pumping Rate (gpm)
		Date/Time (hrs.)	Date/Time (hrs.)					
1	South Pond- 2	1/22/2021 8:15	1/31/2021 9:00	216.75	471	460	0	0.00
2	East Pond-5	1/27/2021 10:30	2/9/2021 7:30	309.00	476	454	13,996,580	754.94
3	West Pond- 3	2/11/2021 9:00	2/13/2021 7:30	46.50	474	460	3,267,736	1171.23
4	East Pond-5	1/27/2021 10:30	2/9/2021 7:30	309.00	476	454	13,996,580	754.94
5	South Pond- 1	2/16/2021 7:30	2/23/2021 8:45	169.25	471	466	10,967,339	1079.99
6	West Pond- 2	3/17/2021 8:30	3/20/2021 7:45	71.25	474	465	2,679,733	626.84
7	West Pond- 3	4/11/2021 8:15	4/13/2021 8:15	48.00	474	460	3,267,736	1134.63
8	East Pond-5	4/28/2021 14:00	5/9/2021 10:30	260.50	476	454	13,996,580	895.49
9	South Pond- 2	5/20/2021 3:30	5/29/2021 15:30	228.00	471	460	19,456,530	1422.26
10	West Pond- 2	6/10/2021 9:00	6/13/2021 14:00	77.00	474	465	2,679,733	580.03
11	East Pond-6	6/14/2021 9:00	6/23/2021 14:00	221.00	476	465	14,010,640	1056.61
12	South Pond- 1	7/28/2021 15:15	8/5/2021 6:00	182.75	471	466	10,967,339	1000.21
13	West Pond- 3	7/29/2021 9:45	7/31/2021 11:00	49.25	474	460	3,267,736	1105.83
14	South Pond- 2	8/11/2021 9:00	8/24/2021 12:00	315.00	471	460	19,456,530	1029.45
15	East Pond-5	9/4/2021 9:45	9/16/2021 9:45	288.00	476	454	13,996,580	809.99
16	West Pond- 2	9/9/2021 8:15	9/12/2021 18:00	81.75	Stopped Pump Overnight			490.79
		9/13/2021 9:30	9/13/2021 18:45	9.25	474	465	2,679,733	
17	West Pond- 3	9/28/2021 17:00	9/30/2021 15:00	46.00	474	460	3,267,736	1183.96
18	East Pond-6	10/11/2021 10:30	10/22/2021 10:30	264.00	476	465	14,010,640	884.51
19	South Pond- 1	10/20/2021 16:30	10/27/2021 7:00	158.50	471	466	10,967,339	1153.24
20	West Pond- 2	10/26/2021 8:45	10/26/2021 11:45	3.00	474	474	112,831	626.84
21	South Pond- 2	10/27/2021 9:30	11/6/2021 8:00	238.50	471	460	19,456,530	1359.65
22	West Pond- 3	11/5/2021 8:00	11/7/2021 13:30	53.50	474	465	2,156,706	671.87
23	East Pond-5	11/5/2021 12:45	11/23/2021 10:00	429.25	476	454	13,996,580	543.45
24	West Pond- 2	11/18/2021 15:30	11/21/2021 18:00	74.50	474	465	2,679,733	599.49
25	South Pond- 1	11/24/2021 11:45	12/3/2021 8:00	212.25	471	466	10,967,339	861.20
26	East Pond-6	12/8/2021 9:45	12/18/2021 8:45	239.00	476	454	13,996,580	976.05



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NO.	REVISION	BY	DATE

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661 Main St.
Niagara Falls, NY 14301
716.285.3920

CLIENT:
SENECA MEADOWS, INC.

SITE:
SENECA MEADOWS LANDFILL
CITY OF SENECA FALLS
COUNTY OF SENECA
STATE OF NEW YORK

PROJECT:
2021 ANNUAL REPORT

TITLE:
STORMWATER MANAGEMENT SYSTEMS COMPONENTS

ISSUE:
DRAFT

DES:	DRN:	CHK:
BPB	BPB	

PROJECT NO:
DATE:
FEBRUARY 2022

GRAPHIC SCALE:
0' 300' 600'

FILE:
Stormwater Management Systems Components.dwg

REV NO:	SHEET NO:
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11.0 BLACK BROOK SAMPLING AND ANALYSIS

The annual review of Black Brook surface water and sediment analytical data has been prepared by KR Applin & Associates. KRA&A's report summarizes surface water and sediment monitoring activities for 2021, as required by SMI's 6 NYCRR Part 360 Operating Permit and is included in this section of the Report.

BLACK BROOK MONITORING REPORT

2021 ANNUAL REPORT

SENECA MEADOWS SOLID WASTE MANAGEMENT FACILITY

WASTE CONNECTIONS, INC.
Connect with the Future®

JANUARY 2022

KR Applin & Associates 8806 Route 256 Dansville, NY 14437 585.335.5998

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EXECUTIVE SUMMARY

The monitoring of Black Brook surface water and sediment quality was conducted quarterly at the Seneca Meadows Solid Waste Management Facility, Seneca Falls, New York, during 2021 in accordance with an approved Environmental Monitoring Plan (EMP; November 2016) and Site Analytical Plan (SAP; November 2006).

Monitoring was conducted in accordance with Section 3 of the EMP. Surface water and sediment samples were collected at one location upstream of the facility, at one location adjacent to the facility, and at two locations downstream of the facility.

Quarterly sampling was conducted during January, April, September, and November of 2021. The samples collected during the first, second, and fourth quarters were analyzed for a modified list of 6 NYCRR Part 360 routine chemical parameters. The third quarter samples were analyzed for a modified list of Part 360 baseline parameters. A grain size analysis was also performed on sediment samples collected each quarter.

Comparisons of the quarterly surface water results to trigger values computed from historical chemical data from upstream sample SW-017 showed an exceedance of the trigger for ammonia in upstream sample SW-017 during the third quarter. The exceedance was attributed to natural sources. No other trigger exceedances were identified for the quarterly monitoring results of the upstream and downstream samples.

Exceedances of the NYSDEC Class C surface water standard for iron occurred each quarter in both the upstream and downstream samples. Exceedances of the TDS standard occurred in upstream sample SW-017 and downstream sample SW-018 during the first and second quarters. Manganese exceeded the standard in upstream sample SW-017 and TDS exceeded the standard in downstream sample SW-018 during the third quarter. The exceedances were attributed to naturally occurring concentrations.

For the sediment samples, exceedances of the trigger values occurred in both the upstream and downstream samples each quarter except the fourth quarter when a few exceedances occurred in the downstream samples only. COD, TKN, and lead were among the parameters most frequently exceeding the triggers. The third quarter analytical results for Part 360 baseline parameters, which included a more extensive list of analyzed parameters, exhibited trigger exceedances for several more parameters, including various metals, as compared to the other quarters. Because most of the exceedances occurred in both the upstream sample as well as the downstream samples, they were attributed to natural sediment concentrations. The organic carbon contents of the sediment may have also contributed to the elevated metals contents.

The sediment analytical results for each quarterly event were compared to the NYSDEC guidance values for screening contaminated sediment. None of the quarterly results exceeded the Class A guidance limits indicating little or no risk to aquatic life.

The results of the grain size analyses indicated that all the sediment samples consisted mostly of silt-size and finer sediment.

Evaluations of the 2021 quarterly monitoring results for the Black Brook surface water and sediment samples showed no unusually elevated exceedances of trigger values, standards, or guidance values in the downstream samples that might otherwise indicate a potential facility derived impact.

No major modifications to the current monitoring program are recommended at this time.

1.0 INTRODUCTION

The environmental monitoring program for the Seneca Meadows Solid Waste Management Facility, Seneca Falls, New York, includes the monitoring of Black Brook, a small stream that flows past the western border of the facility. During early 2013, the stream was relocated to flow around the facility rather than traverse the facility. The relocation of the stream was completed as part of the planned expansion of the SMI facility.

As specified in the Environmental Monitoring Plan (EMP; November 2016) for the facility, the monitoring of Black Brook requires the quarterly sampling and analysis of surface water and sediment collected at locations upstream and downstream of the facility. The samples are analyzed for specific chemical parameters listed in the EMP.

During 2021, the surface water and bottom sediment quality of Black Brook was monitored quarterly in accordance with the procedures specified in the EMP, which require the sampling of surface water and sediment at one location upstream of the facility, one location adjacent to the facility, and two locations downstream of the facility.

The sampling and analytical results obtained for each quarterly monitoring event of 2021 are provided in quarterly monitoring reports, which are available for review at Seneca Meadows, Inc., Seneca Falls, New York, and the Region 8 office of the New York State Department of Environmental Conservation (NYSDEC), Avon, New York. The quarterly reports provide all analytical data generated for each monitoring event and an evaluation of the results, including the identification of potential impacts to Black Brook by facility-derived chemical components. This annual report summarizes the major findings presented in the 2021 quarterly reports.

2.0 SAMPLING AND ANALYSIS

2.1 COMPLIANCE

The quarterly monitoring of Black Brook surface water and sediment was conducted during 2021 in accordance with the procedures described in the EMP and Site Analytical Plan (SAP; November 2006) for the Seneca Meadows Solid Waste Management Facility.

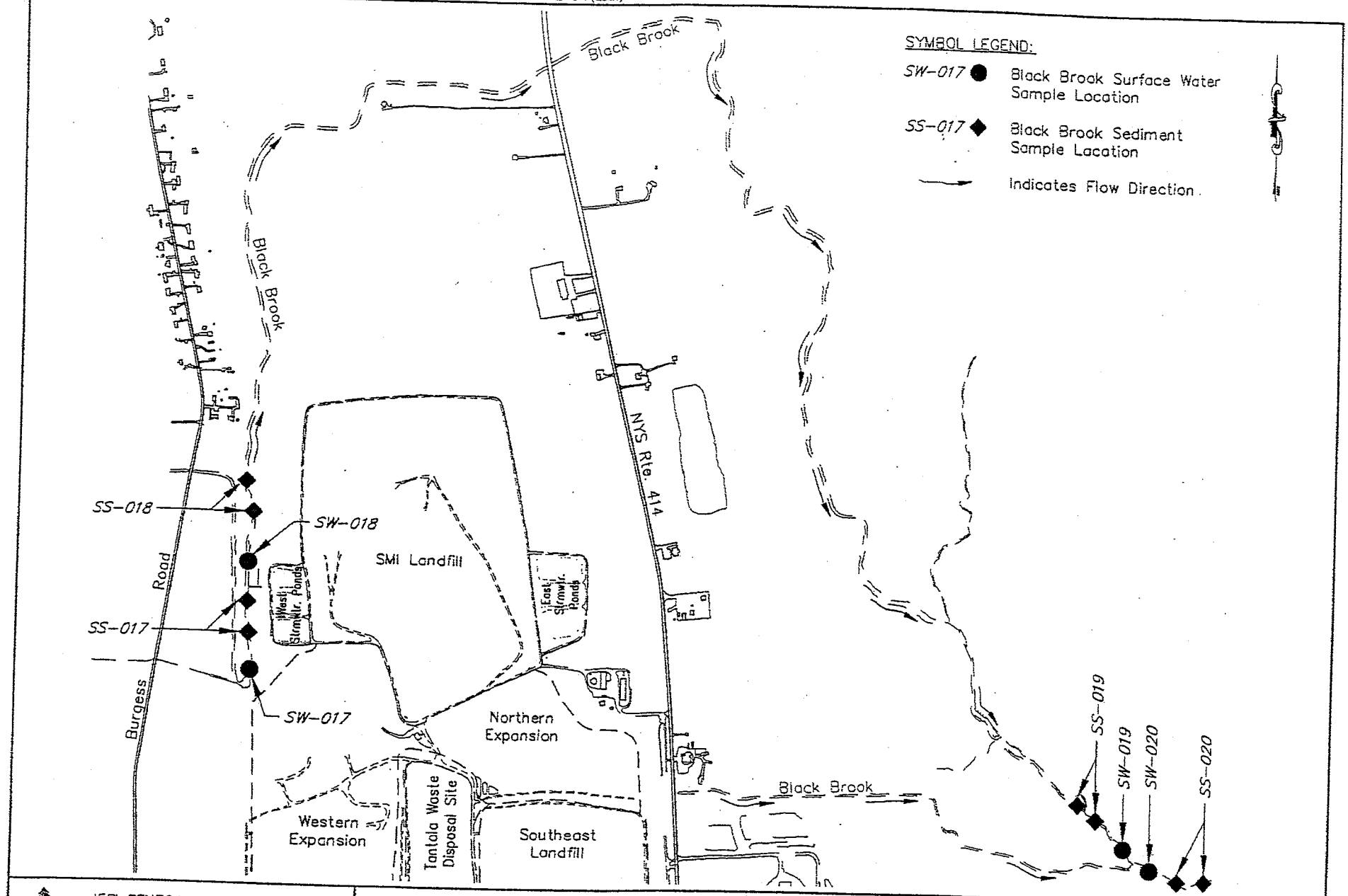
Monitoring was conducted in accordance with the procedures provided in Section 3 of the EMP. Sampling of the surface water and sediments was conducted at the four locations shown in Figure 2-1. Sampling site SW/SS-017 is upstream of the facility. Sampling site SW/SS-018 is adjacent to the facility and sites SW/SS-019 and SW/SS-020 are downstream of the facility.

In accordance with Sections 3.1 and 3.2 of the EMP, the first and second quarter sampling events are to be conducted when no discharge of the on-site stormwater retention basins was occurring. The third and fourth quarter sampling events are to be conducted during discharge of the west stormwater retention basin (see Fig. 2-1).

The first and second quarter events were completed during January and April as scheduled. However, the third and fourth quarter events were delayed while waiting for sufficient volumes of stormwater to accumulate in the west retention basin for discharge during sampling. The third quarter event (July) was delayed until early September and was completed during a basin discharge. The fourth quarter event (October) was delayed until mid-November and was completed without a basin discharge. This was done to keep the quarterly sampling as evenly spaced as possible and to avoid back-to-back sampling with the January 2022 sampling event.

The field sampling and laboratory analyses were performed by ALS Environmental, Rochester, NY, in accordance with the procedures provided in the EMP and SAP.

S:\L03\P67\GROUNDWATER-PORE WATER\2013 GRNDWTR DIAGRAMS\OVERALL SITE SPCC-SWPP.DWG 05/10/2013 LAYOUT: OVERALL PLAN (8.5X11)



IESI SENECA MEADOWS LANDFILL
SENECA MEADOWS, INC.
1786 SALCMAN ROAD
WATERLOO, NEW YORK 13165

BLACK BROOK SAMPLING LOCATIONS AT THE SMI SOLID WASTE MANAGEMENT FACILITY

0 400 800 1200
Scale In Feet

FIGURE
2-1

The laboratory was approved to perform the analyses under the New York State Department of Health's (NYSDOH's) Environmental Laboratory Approval Program (ELAP).

The samples collected during the first, second, and fourth quarters were analyzed for a modified list of 6 NYCRR Part 360 routine chemical parameters provided in the EMP. The analytical results were validated internally by the laboratory. The third quarter samples were analyzed for a modified list of Part 360 baseline parameters. The third quarter results were validated by an independent data validator and are provided in the report entitled "Data Validation Report, 3rd Quarter 2021, Seneca Meadows Solid Waste Management Facility" dated October 2021.

2.2 COMPLETENESS

Completeness of the quarterly monitoring is indicated by 1) the success in obtaining all samples scheduled for collection and 2) the total amount of usable data obtained during each quarterly event.

Complete samples were collected from each designated sampling point during each quarterly sampling event.

As specified in the EMP, the samples collected during the first, second, and fourth quarters were analyzed for a modified list of Part 360 routine chemical parameters and the third quarter samples were analyzed for a modified list of Part 360 baseline parameters.

Based on the results of validation performed by the laboratory and an independent validator, all analytical results were considered usable for the purpose of evaluating Black Brook water and sediment quality. Although the fourth quarter samples were not collected during a stormwater basin discharge event, the results were still considered usable for evaluating potential facility impacts to Black Brook.

2.3 DATA EVALUATION METHODS

2.3.1 Surface Water

Potential impacts to Black Brook surface water by facility-derived chemical components were determined in part by comparing the analytical results of samples taken adjacent to and downstream of the facility (SW-018, SW-019, and SW-020) to trigger values for each chemical parameter calculated using historical data for upstream sample SW-017. The methods used to calculate the trigger values are discussed in Section 3.3.1 of the EMP.

The analytical results for each quarterly monitoring event were also compared to NYSDEC Class C surface water standards (NYSDEC, 1993) listed in Tables 3-1 and 3-2 of the EMP and in Table 2-1 of this report.

2.3.2 Stream Sediment

Potential impacts to stream sediment quality were evaluated by comparing the results for samples taken adjacent to and downstream of the landfill (SS-018, SS-019, and SS-020) to trigger values for each chemical parameter calculated using historical data for upstream sample SS-017 (see EMP, Sect. 3.4.1).

The sediment results were also compared to the guidance values for screening and assessing contaminated sediment (NYSDEC, 2014) shown in Tables 3-3 and 3-4 of the EMP and in Table 2-1 of this report.

Table 2-1

Standards and Guidance Values for Surface Waters and Sediments

	Surface Water		Sediment (1)			
Parameter	Units	NYSDEC Class C Std	Units	Class A	Class B	Class C
pH	pH units	6.5-8.5				
DO	mg/L	>5.0				
Turbidity	NTU	(2)				
TKN	mg/L	(3)				
TDS	mg/L	500				
Phenols	mg/L	0.005				
Aluminum	mg/L	0.100				
Arsenic	mg/L	0.34	mg/Kg	<10	10 - 33	> 33
Beryllium	mg/L	1.1				
Boron	mg/L	10				
Cadmium	mg/L	0.0093	mg/Kg	<1	1 - 5	>5
Chromium	mg/L	1.0868	mg/Kg	<43	43 - 110	>110
Chromium (hex)	mg/L	0.016	mg/Kg	<32	32 - 150	>150
Cobalt	mg/L	0.005				
Copper	mg/L	0.0282				
Cyanide	mg/L	0.022				
Iron	mg/L	0.3				
Lead	mg/L	0.2265	mg/Kg	<36	36 - 130	>130
Mercury	mg/L	2.6xE-6	mg/Kg	<0.2	0.2 - 1	>1
Nickel	mg/L	0.9123	mg/Kg	<23	23 - 49	>49
Selenium	mg/L	0.0046				
Silver	mg/L	0.0001	mg/Kg	<1	1 - 2.2	>2.2
Thallium	mg/L	0.008				
Vanadium	mg/L	0.014				
Zinc	mg/L	0.2286	mg/Kg	<120	120 - 460	>460

(1) From "Screening and Assessment of Contaminated Sediment", NYSDEC, June 2014

Class A	Low risk
Class B	Moderately contaminated
Class C	Highly contaminated

(2) Turbidity - no increase that will cause a substantial visible contrast to natural conditions

(3) Nitrogen - none in amounts that will result in growths of algae, weeds, and slime that will impair the waters for their best usages

3.0 SUMMARY OF RESULTS

3.1 SURFACE WATER

3.1.1 Exceedances of Trigger Values

The trigger value exceedances found for various water quality parameters during each of the four quarterly monitoring events are summarized in Table 3-1. Important observations to be made from the table include the following:

- The trigger exceedances were limited to a slight exceedance of the ammonia trigger in upstream sample SW-017 during the third quarter 2021. No exceedances were found for the downstream samples during any of the quarterly sampling events.

- By comparison to the numerous trigger exceedances found for the previous 2020 monitoring results, the single trigger exceedance found for the 2021 monitoring events implies that surface water quality improved during the past year.

3.1.2 Exceedances of NYSDEC Class C Standards

The analytical results from each quarterly sampling event that exceeded the NYSDEC Class C surface water standards are summarized in Table 3-2.

As shown in the table, the standard exceedances were limited to total dissolved solids (TDS), iron, and manganese. The exceedances occurred in samples collected upstream and downstream of the facility and are therefore attributed to natural water quality.

Table 3-1

Summary of Trigger Value Exceedances
Surface Water Samples

	Upstream	Downstream		
	SW-017	SW-018	SW-019	SW-020
1st Qtr 2021				
2nd Qtr 2021				
3rd Qtr 2021	Ammonia			
4th Qtr 2021				

Table 3-2

Exceedances of NYSDEC Class C Surface Water Standards

	Upstream	Downstream		
	SW-017	**SW-018**	**SW-019**	**SW-020**
1st Qtr 2021	TDS	TDS		
	Iron	Iron	Iron	Iron
2nd Qtr 2021	TDS	TDS	TDS	
	Iron	Iron	Iron	Iron
3rd Qtr 2021	Manganese	TDS		
	Iron	Iron	Iron	Iron
4th Qtr 2021	Iron	Iron	Iron	Iron

NYSDEC Class C Standards:
TDS = 500 mg/L; Iron and manganese = 0.300 mg/L

3.2 SEDIMENT

3.2.1 Exceedances of Trigger Values

The parameters for which trigger value exceedances were identified during the four quarters of 2021 monitoring are summarized in Table 3-3. Important observations to be made from the table include the following:

- Chemical oxygen demand (COD) exceeded the trigger value more frequently than other parameters with exceedances occurring in both the upstream and downstream samples.

- Trigger exceedances identified during the first, second, and fourth quarters occurred mainly for COD and TKN. Slight exceedances of the trigger value for lead were also found for downstream samples SS-019 and SS-020. The slightly elevated lead levels may be partly attributed to the higher total organic carbon (TOC) contents found in the downstream samples during each quarterly sampling event.

- Trigger value exceedances were identified for several additional parameters during the third quarter as compared to the other quarters partly because more parameters, namely metals, were included in the Part 360 baseline analysis. Drier weather prior to the third quarter (September) sampling and low stream flow may have also contributed to higher analyte concentrations (i.e., when the dilution effects from runoff were minimal).

- The trigger exceedances identified during the third quarter for many of the parameters, especially for general chemistry parameters such as chloride and sulfate, and for trace metals such as aluminum, barium, chromium, zinc, and vanadium occurred in the upstream samples as well as the downstream samples suggesting that the exceedances are due to natural sources.

- Overall, there were few exceedances that consistently occurred in the downstream samples over all four quarters, which might otherwise indicate a facility-derived impact.

Table 3-3

Summary of Trigger Value Exceedances
Sediment Samples

	Upstream	Downstream		
	SS-017	**SS-018**	**SS-019**	**SS-020**
1st Qtr 2021	COD	COD	COD	COD
	Alkalinity	TKN	Lead	Lead
2nd Qtr 2021	COD	COD	COD	COD
		TKN	Lead	Lead
			Manganese	
3rd Qtr 2021	COD	COD	COD	COD
	Sulfate	Sulfate	Sulfate	Sulfate
	Chloride	Chloride		Chloride
	Alkalinity	Ammonia		Ammonia
		TKN		TKN
		TOC		
	Aluminum	Aluminum	Aluminum	Aluminum
	Barium	Barium	Barium	Barium
	Chromium	Chromium	Chromium	Chromium
	Zinc	Zinc	Zinc	Zinc
	Vanadium		Vanadium	Vanadium
		Manganese	Cobalt	Manganese
			Lead	
			Nickel	
4th Qtr 2021		TKN	TKN	TKN
		COD		COD
				Sulfate

3.2.2 Exceedances of NYSDEC Sediment Guidance Limits

The sediment analytical results for each quarterly event were compared to the NYSDEC guidance values for screening contaminated sediment (NYSDEC, 2014), which are shown in Table 2-1. All the quarterly results were less than the Class A guidance limits indicating little or no risk to aquatic life.

3.3 GRAIN SIZE ANALYSES

The sediment samples were collected from depositional environments within the streambed that correspond to the low velocity zones of stream flow. The samples were collected from the upper portion of the sediment column in an attempt to obtain the fine-grain (silt-size or finer) fraction of sediment, which is most likely to contain the highest concentrations of organic matter and metals.

Grain size analyses were performed on a portion of the sediment sample collected at each sampling station to determine the particle size distribution of each sample. The percentage of the silt-size or finer fraction of the sediment samples, as determined by the fraction of sample passing the #200 sieve, was used as a measure of the success in collecting fine-grained samples.

The percentages of the silt-size and finer fraction of sediment in each sample collected during the 2021 monitoring events are summarized in table below. As shown in the table, all the samples consisted mainly of silt-size and finer sediment.

Percent Silt-Size and Finer Sediment

Sample ID	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
SS-017	86.4	92.3	80.6	87.9
SS-018	80.1	86.3	71.2	79.1
SS-019	53.3	95.9	74.7	80.5
SS-020	87.8	93.9	82.0	63.5

4.0 CONCLUSIONS

The monitoring of Black Brook surface water and sediment was conducted during 2021 in compliance with the Environmental Monitoring Plan (EMP) and the Sampling and Analysis Plan (SAP) for the Seneca Meadows Solid Waste Management Facility. Quarterly sampling was conducted during January, June, August, and November. Complete surface water and sediment samples were collected during each quarterly monitoring event.

The first, second, and fourth quarter samples were analyzed for a modified list of 6 NYCRR Part 360 routine chemical parameters. The third quarter samples were analyzed for a modified list of Part 360 baseline parameters. A grain size analysis was also performed on the sediment samples collected each quarter.

Potential impacts to Black Brook by facility-derived chemical components were evaluated by comparing the analytical results for samples taken adjacent to and downstream of the facility to trigger values calculated using historical data for samples taken upstream of the facility. The results for the surface water samples were also compared to the NYSDEC Class C surface water standards and the sediment results were compared to NYSDEC guidance values for screening contaminated sediment.

For the surface water samples, an exceedance of the water quality trigger value for ammonia was identified for upstream sample SW-017 during the third quarter. No other trigger value exceedances were found for the other quarterly sampling events.

Exceedances of the NYSDEC Class C surface water standards occurred for iron in the upstream and downstream samples each quarter. Exceedances of the TDS standard occurred during the first, second, and third quarters in upstream sample SW-017 and downstream sample SW-018. Manganese exceeded the standard in upstream sample SW-017 during the third quarter. The exceedances were attributed to natural sources.

For the sediment samples, chemical oxygen demand (COD) exceeded the trigger value more frequently than other parameters with exceedances occurring in both the upstream and downstream samples. Trigger exceedances identified during the first, second, and fourth quarters occurred mainly for COD and TKN. Slight exceedances of the trigger value for lead were also found for downstream samples SS-019 and SS-020 and were attributed in part to the higher organic carbon contents of the downstream samples.

Sediment trigger value exceedances were identified for several additional parameters during the third quarter as compared to the other quarters because more parameters, namely metals, were included in the Part 360 baseline analysis and perhaps because the stream flow was at a seasonal low and dilution effects were minimal.

The sediment trigger exceedances identified during the third quarter for general chemistry parameters such as chloride and sulfate, and for metals such as aluminum, barium, chromium, zinc, and vanadium occurred in both the upstream and downstream samples suggesting that the exceedances are due to natural sources.

None of the quarterly results exceeded the NYSDEC Class A guidance limits for screening contaminated sediment indicating little or no risk to aquatic life.

The results of the grain size analyses indicated that all sediment samples consisted mostly of silt-size and finer sediment.

Evaluations of the 2021 quarterly monitoring results for the Black Brook surface water and sediment samples showed no indication of potential impacts by the landfill facility. No major modifications to the current monitoring program are recommended at this time.

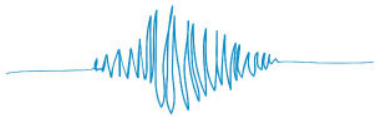
5.0 REFERENCES

New York State Department of Environmental Conservation, 1993, Ambient Water Quality and Guidance Values: Division of Water Technical and Operational Guidance Series (1.1.1), 89 pp.

New York State Department of Environmental Conservation, 2014, Screening and Assessment of Contaminated Sediment: Division of Fish, Wildlife and Marine Resources, Bureau of Habitat.

12.0 NOISE SURVEY

In accordance with the requirements of SMI's current operating permit and the Environmental Monitoring Plan, noise monitoring was conducted along the boundaries of the facility property lines (in the direction of residential use properties) during August 2021. This noise monitoring/reporting was conducted by Aurora Acoustical Consultants, Inc. of East Aurora, New York. The report, entitled "2021 Annual Noise Survey" dated February 25, 2022, is included in this section.



AURORA ACOUSTICAL CONSULTANTS Inc.

745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

2021
ANNUAL NOISE SURVEY

FOR

SENECA MEADOWS, INC.
SANITARY LANDFILL
WATERLOO, NEW YORK

VOLUME I

Prepared for
SENECA MEADOWS, Inc.
1786 Salcman Road
Waterloo, New York 13165

Prepared by: Daniel P. Prusinowski

February 25, 2022

AURORA ACOUSTICAL CONSULTANTS Inc.

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AURORA ACOUSTICAL CONSULTANTS Inc.

2021ANNUAL NOISE SURVEY
FOR SENECA MEADOWS, INC. LANDFILL
WATERLOO, NEW YORK

1.0 Introduction

Sound level surveys were performed to identify sources of sound and characterize levels of environmental noise representative of operations for the year 2021 of the Seneca Meadows, Inc. (SMI) landfill facility received along boundaries with properties authorized for residential use, in fulfillment of requirements of 6 NYCRR Part 360 Section 19 of New York State. Noise level identification requirements are described in the Seneca Meadows, Inc. Operations, Maintenance, and Monitoring Plan, and the Environmental Monitoring Plan (Appendix D & E of the Engineering Report dated December 2006, revised February 2007) and the New York State Department of Environmental Conservation 6 NYCRR Part 360 landfill facility permit (NYSDEC Permit 8-453200023/000001). The Seneca Meadows, Inc. Engineering Report further contains information on site layout and operational factors required to control noise from landfill operations, maintenance activities, and construction operations at the Southeast Landfill (SELF), the Northern Expansion landfill (NEX, Stages 7-8), and the Western Expansion landfill (WEX, Stages 3-6). The documents additionally describe noise mitigations that are currently in effect. The accepted mitigations include limiting specified operations to daytime hours, use of regular maintenance practices and proper silencers, adherence to minimum specified property line setback distances, and provision of shielding and enclosures around identified noise sources.

Sound levels received along the Seneca Meadows landfill boundaries were identified by surveys at representative boundary locations during the week of August 2 to August 6, 2021. The monitored sound levels are compared in this report to the sound level criteria contained in the New York State Title 6 NYCRR Part 360 Regulations effective November 4, 2017. The Part 360 Regulations specify maximum sound levels from landfill equipment or operations received at landfill boundaries adjoining properties that are zoned or otherwise authorized for residential purposes. The Regulations specify sound level limits for daytime and nighttime periods for rural, suburban, and urban community characters. The sound level limits are defined in terms of the "equivalent steady-state sound level" metric, designated L_{eq}, which is the integrated average value of the time-varying sound levels. The L_{eq} sound level metric that describes the sound level over a one-hour time period is designated $L_{eq\text{-}1\ hr}$. The one-hour sound level average metric is referenced by the Part 360 Regulations and is used in this assessment.

The sound monitoring characterized landfill operations during the period from the morning of Monday August 2 to the evening of Friday August 6, 2021, which coincided with the annual peak period of landfill waste placement operations, site maintenance activities, and landfill cell construction. The sound monitoring was performed at ten representative receptor locations on the boundaries of the landfill adjoining properties that are currently zoned or authorized for residential use in the Town of Waterloo and Town of Seneca Falls. The survey locations were chosen to represent existing and former residential-use properties, agricultural parcels, and undeveloped properties. The survey locations for the year 2021 coincide with locations used in previous annual sound surveys to allow comparisons of the measured sound levels.

Sound level monitoring was performed using automatic noise level loggers that were programmed to continuously record the average sound levels during the survey period and record the data by consecutive fifteen-minute time periods, designated $L_{eq\text{-}15\ min}$. The fifteen-minute average levels were processed by logarithmic summation into one-hour averages ($L_{eq\text{-}1\ hr}$) for comparison to the one-hour average sound level limits contained in the 6 NYCRR Part 360 Regulations. Also recorded during the noise survey period were the minimum and maximum sound levels for each sampling period ($L_{min,}$ L_{max}) to characterize the range of noise levels.

The levels of facility noise and the sources of sound were further identified and characterized at each logging location by means of short-term sampling measurements obtained with a portable sound level analyzer. The sampling was performed at each logging location during three time periods on August 2 on the starting day of the monitoring period, and three times at each location on August 6 on the last day of the monitoring period. The L_{eq} average sound levels from each sampling measurement are presented in the report as additional means to evaluate facility noise acceptability in comparison to the 6 NYCRR Part 360 $L_{eq\text{-}1\ hr}$ sound level limits. The sound levels were measured over periods of ten to twenty minutes as appropriate to characterize steady average levels representative of one-hour periods, in accord with the Part 360 Regulations. The short-term noise samples were measured using one-second averaging periods ($L_{eq\text{-}1\ sec}$), which allowed detailed characterizations of contributing environmental noise peaks. The prominent sources of sound observed that contributed to each sampling measurement were aurally and visually identified and recorded. The sampling surveys were performed in two or three daytime periods on each day during normal hours of waste acceptance operations to identify landfill equipment sources and ambient sources, and during one afternoon or evening period on each day after normal waste acceptance operations as means to evaluate the contributing background sources.

The hourly-average sound levels ($L_{eq\text{-}1\ hr}$) obtained by continuous logging and by sampling surveys were compared to the sound level limits specified in the Part 360 Regulations for a *suburban* community character to evaluate the acceptability of the received facility noise levels. The suburban community

designation appropriately represents the community around the facility based on the density and character of the residential community and the extent of commercial and industrial development adjoining the facility, and the class and volume of traffic on adjoining roadways. Commercial properties that adjoin the facility include the Wal-Mart Super Center at the intersection of Route 414 and North Road, the Holiday Inn hotel on Route 414 south of the landfill, and the Hampton Inn commercial hotel on Balsey Road at the intersection with Route 414. Other small- to medium-sized businesses located on Route 414 east and south of the landfill include a contracting company, bottle and packaging manufacturing facilities, a welding shop, banks, and an automobile parts store. The Tarjac finishing facility and a self-storage facility are located at the intersection of Salcman Road. Additional businesses located on Route 414 north of the landfill facility include automobile sales and service facilities and commercial graphic design offices. Industrial facilities located east and north of the SMI landfill include the Aria Energy Corporation gas-to-energy plant (AEC), which is located in the Seneca Meadows Renewable Resource Park (RRP), and the Mobil Oil Pipeline facility on the east side of State Route 414, both opposite the original SMI landfill. The Waterloo Central School District bus garage and maintenance facility is located on North Road adjacent to the south boundary of the landfill. North Seneca Ambulance, Inc. is located at the intersection of North and Burgess Roads.

The noise assessments characterized sound levels produced by normal daily landfill operations in Stage 5 at the overlay of the SMI landfill and on the top of Stages 7 and 8. Waste placement operations at the western portion of Stage 5 consisted of waste acceptance from tractor trailers and municipal trucks, with waste unloading using two trailer tippers, and placement of waste using one or two compactors and two or three bulldozers. Truck traffic leading to and from the Stage 5 landfill area traveled along the site access road on the western side of the SELF berm. Waste placement operations at Stages 7 and 8 consisted of topping of waste on the plateau extracted from tractor trailers using a trailer tipper and placement of the waste by a compactor and one or two bulldozers. Truck traffic leading to the Stage 7 and 8 area drove up the south end of the SELF berm, traveled along the top of the SELF berm, and exited the fill site at the north end using the access road along the west side of the SELF berm.

Operations at the tire recycling facility included tire processing and loading onto articulated trucks with two excavators with claw attachments.

Construction activities were observed on the western portion of Stage 5 and the overfill slope at the SMI landfill, which consisted of excavation of soils from a lower area with one or two excavators and transport by articulated trucks. Construction activities were not in progress at the bottom of the adjacent eastern portion of the Stage 5 construction area during the sound surveys. Construction activities to place final cover on the eastern side of Stages 7 and 8 were observed during the sound survey period. Soil cover material was being excavated and transported by articulated trucks from the Meadow View Mine.

Observed daily maintenance operations included transport of daily cover soils on internal site roads using articulated trucks, and placement at the Stage 5 and the Stages 7 and 8 landfill areas with one or two bulldozers at each site. Other maintenance activities included watering of site access roads, road sweeping along the site entrance roads and along the shoulders of State Route 414, and operation of odor neutralizing systems. Water for the road watering operations was being drawn from the retention pond on the south side of Salcman Road and from the retention pond to the west of the original SMI landfill berm. One odor neutralizing system is installed in an enclosure at the southwest corner of the WEX berm, and another system is located in an enclosure near the north end of the south retention pond, with perimeter dispersion systems. A truck-mounted dust and odor neutralizing system was located at each waste site, but each was not observed to be in operation during the survey period. A utility gas flare system was in operation at the base of the east side of the WEX berm.

The zoning designations of the current property holdings of Seneca Meadows Inc. and the adjoining properties for the Towns of Seneca Falls and Waterloo are described in Figure 1. The zoning districts surrounding the boundaries of the refuse disposal properties include residential, agricultural, commercial, and industrial properties. The sound survey locations were placed along the facility boundaries adjacent to properties zoned or authorized for residential use. The sound survey locations are identified on the property holdings plan of Figure 2.

Sound survey locations include four locations on the eastern boundary of the landfill along State Route 414. The receptor locations adjoin properties in the Highway Commercial zoning classification in the Town of Seneca Falls. Survey Locations 1 and 2 represent former residential-use properties on the east side of the Route 414 highway adjacent to the SELF and NEX berms. Survey Locations 3 and 4 represent existing and former residential-use properties on the west side of Route 414, and existing residential-use properties and undeveloped residentially-authorized properties on the east side of Route 414 adjacent to the original SMI landfill.

Survey Location 1 is located on the eastern boundary of the landfill adjacent to the SELF landfill near the intersection of the former Salcman Road entrance. The location represents residentially-authorized properties along the east side of the highway contained in Industrial and Highway Commercial zoning districts in the Town of Seneca Falls. The properties formerly contained residences that have been removed. One property includes a former residence that is currently used as the office for landfill construction, and previously as a field office for highway construction, and as a mill shop. The properties along the highway opposite Location 1 have previously been used for agricultural purposes, although were not in agricultural use during the sound surveys. The Aria Energy Corporation gas-to-energy plant and High BTU facility are located east of the highway corridor in the Resource Recovery Park. The operations of the AEC facilities were partly audible at Location 1 in the daytime between

passes of traffic. Sounds of the facilities were perceptible at Location 1 in the evening after the normal hours of facility operation, when traffic volumes on Route 414 were reduced resulting in lower ambient noise levels. The background noise environment at Survey Location 1 was largely characterized by sounds of traffic on Route 414, including accelerating and decelerating highway vehicles in the vicinity of the signalized entrance to the landfill facility. Sounds of landfill waste placement activities at Stage 5 and at Stages 7 and 8 and construction activities at the SMI overlay were not perceptible at the location due to the screening of the SELF and NEX berms and the significant distance from each landfill area. Waste placement and cover activities on top of the NEX berm and associated truck traffic were not visible and were not perceptible at Location 1.

Survey Location 2 is located on the eastern boundary of the landfill adjacent to the NEX landfill berm, south of the intersection of the entrance road to the landfill leachate management facility. The location represents residentially-authorized properties in zoning districts designated Highway Commercial on both sides of Route 414 in the Town of Seneca Falls. Former residences on the east side of the highway have been removed except for a small storage building. The area east of the highway commercial corridor includes landfill retention ponds. There were no activities observed at the ponds during the sound surveys. The background noise environment at Survey Location 2 is largely characterized by sounds of traffic on Route 414, including accelerating and decelerating vehicles in the vicinity of the signalized landfill entrance driveway and occasional turning vehicles at the leachate facility driveway. Waste placement and cover material placement activities at the plateau and upper east slope of the NEX berm were occasionally visible from the location, but were not distinguishable above the background traffic noise and did not contribute to the noise environment. Sounds of landfill waste placement operations at Stage 5 and Stages 7 and 8 and construction activities at the SMI overlay were not perceptible at Location 2 due to the screening of the NEX berm. The survey location is in the vicinity of the Aria Energy Corporation gas-to-energy facility. The operations of the AEC gas-to-energy plant and High BTU facility were partly audible in the daytime between passes of traffic at Location 2. The gas plant facilities were perceptible in evening periods after the normal hours of facility operation when traffic volumes on Route 414 and background noise levels were reduced.

Survey Location 3 is located on the eastern boundary along Route 414, east of the original SMI landfill. The location represents an existing residential property on the east side of the highway, and a former residential-use property on the west side of the highway, which are property holdings of SMI. The properties are located in a Highway Commercial zoning district in the Town of Seneca Falls. The existing residence on the east side of the highway is located approximately 300 feet northeast of the survey location. The former residential property on the west side of the highway is located approximately 700 feet north of the survey location. Other residentially-authorized properties adjacent to the survey location in the highway commercial corridor are wooded and undeveloped, and are property holdings of SMI. Additional properties south of the survey location on the east side of the highway

include the commercial Mobil Oil Pipeline facility and the Seneca Meadows Environmental Education Center. Additional properties on the west side of the highway to the north of survey Location 3 include an automobile repair facility, a commercial automobile auction facility, a commercial vehicle repair facility, and a commercial graphics facility. The ambient noise environment at Location 3 is characterized by sounds of free-flowing vehicle traffic on Route 414 and environmental sounds that include birds and insects. Sounds of landfill waste placement operations at Stage 5 and Stages 7 and 8 and construction activities at the SMI overlay were not perceptible at Location 3 due to the screening of the SELF berm.

Survey Location 4 is located on the west side of Route 414 to the northeast of the original SMI landfill, adjacent to the northern boundary of the landfill holdings. The location represents residential-use properties along the eastern boundary of the landfill on the east and west sides of the highway within Highway Commercial and Agricultural zoning districts in the Town of Seneca Falls. The properties include an existing residential property on the west side of Route 414 located approximately 250 feet north of the survey location, and two residential properties located on the east side of Route 414 located approximately 600 feet southeast and 800 feet southeast of the survey location. Other properties that surround the represented residential properties are holdings of SMI. The surrounding properties are extensively wooded and undeveloped, with the exception of an open parcel to the west of the survey location that is leased for agricultural use, which is owned by SMI. There were no farming activities observed on the farm parcel during the survey period. An adjoining parcel located west of the survey location contains the Sherman Compressor Station. The background noise environment at Survey Location 4 is characterized by sounds of free-flowing vehicle traffic on Route 414 and environmental sounds of birds and insects in the wooded and agricultural areas and amphibians in wetland areas adjoining the survey location. Sounds of landfill waste placement operations at Stage 5 and the SMI overlay and Stages 7 and 8, and construction activities at the SMI overlay, were not perceptible at Location 4 during the sound surveys.

Other properties on the east side of Route 414 opposite the landfill, between the Highway Commercial corridor and Black Brook Road, include agricultural parcels, undeveloped property, and the Seneca Meadows Wetland Preserve and trail system, which are largely property holdings of SMI and their affiliates. The properties are contained in Agricultural zoning and Flood Plain Protection zoning classifications in the Town of Seneca Falls. The nearest occupied residences east of the facility boundaries are located along the west side of Black Brook Road at distances of 5600 feet and 6700 feet from Route 414. The depth of the woods between Route 414 and the residential properties ranges from 1400 feet to 3600 feet. The wooded areas are estimated to provide at least ten decibels of sound attenuation of landfill and highway traffic sounds, in addition to the attenuation from distance. Resulting from the significant amount of sound attenuation from both distance and the wooded buffer zone, sounds of landfill operations are not perceptible at residential properties along Black Brook Road in comparison

to the local background traffic noise and environmental noise. The acceptability of received sound levels along Black Brook Road were determined by comparing predicted and sampled sound levels to the suburban sound level limits of the Part 360 regulations.

Properties to the north of the original SMI landfill and west of the highway commercial corridor are densely wooded and are contained in the zoning classification Refuse Disposal and Agricultural in the Town of Seneca Falls. The northern properties are holdings of SMI and affiliates. Properties between the north boundaries of the landfill holdings and Strong Road are zoned Agricultural and are heavily wooded and undeveloped. The landfill is separated from the nearest residence on Strong Road by a wooded buffer area extending over 4000 feet in width. The wooded area is estimated to provide at least ten decibels of sound attenuation of landfill sounds, in addition to the attenuation from distance. As the result of the significant amount of sound attenuation from both distance and the wooded buffer zone, sounds of landfill operations are not perceptible at residential properties along Strong Road in comparison to the local background traffic noise and environmental noise. The acceptability of the predicted received sound levels are determined in comparison to the sound level limits of the Part 360 regulations. The dominant sources of background noise to the north include traffic on Route 414, traffic on Burgess Road, sounds of calling birds, insects, and amphibians, and noise produced by the natural gas compressor facility located nearby in a parcel in the center of the northern wooded area.

Survey Location 5 represents a grouping of residential properties located on the east and west sides of Burgess Road, to the northwest of the original SMI landfill. The residences are contained in the Low-Density Residential zoning classification of the Town of Waterloo. The residences extend from the northwest corner of the SMI landfill north to Strong Road in a closely-spaced suburban-style arrangement. A number of the properties on both sides of the road are holdings of SMI. Survey Location 5 was located on the western boundary of the landfill on the east side of Black Brook, opposite the rear property lines of the closest residential properties on the east side of Burgess Road. The dominant sources of noise are birds, insects, and amphibians, wind, traffic on Burgess Road, and occasional faint sounds of Stage 5 landfill equipment operations and backup alarms.

Survey Location 6 represents residential-use properties on the east side of Burgess Road that border the western boundary of the landfill opposite the WEX Stage 3 and 4 landfill area, and other residentially-authorized but undeveloped property on the west side of Burgess Road. The properties are included in a Low-Density Residential zoning district in the Town of Waterloo. The properties include two residences on the east side of Burgess Road. One residence is located on a land parcel that borders the western boundary of the landfill holdings. The second residence is located on a parcel that is contained within the boundaries of the first property, and does not directly border the landfill boundaries. The properties that immediately adjoin the western boundary of the landfill are partly in use for agricultural hay growing

purposes. Hay activities were not observed during the sound survey period. Properties on the west side of Burgess Road opposite survey Location 6 include agricultural-use land that was not being farmed at the time of surveys, and the site of a former residence, which are holdings of SMI. Further west is the Meadow View Mine soil mine, which was in partial use during the sound surveys. Sounds of landfill waste placement operations at Stage 5, and occasional pass-bys of maintenance trucks on the access road on the western side of the WEX berm, were partly perceptible at the location. Sounds at Location 6 were dominated by background sounds of birds, wind, and traffic on Burgess Road.

Survey Location 7 is located at the southwest corner boundaries of the landfill, and represents several existing residential-use properties on the east side of Burgess Road between Salcman Road and North Road, and two former residential-use properties on the east side of Burgess Road north of the intersection. The properties are contained in an area zoned Moderate-Density Residential in the Town of Waterloo. Four of the five existing residential properties south of Salcman Road are holdings of SMI. The vacant residential-use properties to the north of Salcman Road are also SMI property holdings. Non-residential-use properties around the survey location include the Meadow View Mine, the North Seneca Ambulance, Inc. facility at the intersection of North Road and Burgess Road, and the Waterloo School District bus garage and maintenance facility to the south of Salcman Road. Other properties include undeveloped agricultural properties west of the survey location owned by the Village of Waterloo, a property owned by Seneca County Agricultural Society used for parking, and undeveloped property north of the Waterloo school bus garage that are holdings of SMI. Perceptible landfill sound sources at Location 7 include occasional truck traffic on west Salcman Road to and from the soil mine, site traffic on east Salcman Road, and truck traffic to and from the soil storage area. Background sound sources are dominant and are produced by traffic on Burgess Road and North Road, birds, amphibians, and wind.

Survey Locations 8 and 9 represent properties along the southern boundaries of the landfill facility. The properties include a small number of residential-use properties and mixed-use properties on the north side of North Road between Burgess Road and the Finger Lakes Railway grade crossing, which are located in the Town of Waterloo in a district zoned Moderate-Density Residential. Several of the residential-use properties along the southern boundary are holdings of SMI. Residential-use properties on the south side of North Road are contained in the boundaries of the Village of Waterloo. Location 8 was located on the north side of North Road to the west of the railroad grade crossing. Location 9 was located on the north side of North Road on the north boundaries of the residential properties, to the east of the access road to the bus garage. Non-residential facilities in the vicinity of the survey location include the Seneca County Fairgrounds, offices for the Seneca County government, and commercial dental laboratory facilities in the Village of Waterloo. Sounds of truck traffic on Salcman Road and at the soil storage site were occasionally perceptible at Locations 8 and 9. The dominant sources of background noise at Location 8 are traffic on North Road, insects, birds, and wind. Railroad traffic was

perceptible at Location 8. The dominant sources of background noise at Location 9 are insects, birds, wind, and traffic on North Road.

Survey Location 10 represents the western boundary of the landfill opposite the Stage 5 landfill area. The location is opposite Low-Density Residential properties along both sides of Burgess Road in the Town of Waterloo. The adjoining property between the east side of Burgess Road and the western boundary of the landfill was previously used for agricultural purposes and grazing and does not contain residences. The property was not in agricultural use during the sound surveys. Properties on the west side of Burgess Road opposite the survey location, including a former residential property on the west side of Burgess Road that is currently vacant except for a storage building, are property holdings of SMI. Properties on the east side of Burgess Road northeast of the survey location are also holdings of SMI. Sounds of waste placement and construction operations were only partly perceptible at Location 10 due to screening of the Stage 6 berm. Dominant sources of background noise included birds, insects, wind, and traffic on Burgess Road.

The southeast corner of the landfill adjoins a number of commercial properties on the north side of North Road and west side of Route 414, which are contained in a Highway Commercial district of the Town of Seneca Falls, including an auto parts store, a bank, an office building, industrial facilities, and a church property. Properties on the east side of Route 414 are zoned Industrial, and contain a self-storage facility, beverage container and packaging facilities, and a product finishing facility on property that is a holding of SMI. Properties on the south side of North Road include a Wal-Mart Super Center and a restaurant at the intersection of Route 414. Properties on the north and south sides of Balsey Road extending east of Route 414 include a bank, a hotel, a restaurant, office buildings, and a church property. The properties are located in a district zoned Highway Commercial in the Town of Seneca Falls. The properties that adjoin the southeast boundaries of the landfill facility contain no residences.

Sound levels were monitored at each of the ten represented residential-use boundary locations identified in Figure 2 to assess compliance with the sound level limits contained in the 6NYCRR Part 360 landfill regulations. The sound level monitoring characterized the background noise levels and the noise generated by operations of the landfill consisting of normal daily waste acceptance activities, waste placement activities, soil transport and cover operation, and maintenance operations, combined with landfill construction operations.

The acceptability of the noise levels received on the western and southern boundaries of the landfill was evaluated using sound level limits contained in 6 NYCRR Part 360 that apply to the *suburban* community, which were determined to be appropriate for the character of the residential and commercial community. The referenced Part 360 sound level limits are 62 dBA L_{eq} for daytime hours from 7:00 a.m.

to 10:00 p.m., and 52 dBA L_{eq} for nighttime hours from 10:00 p.m. to 7:00 a.m.

The acceptability of the noise levels received at locations along the eastern landfill boundaries in daytime hours was evaluated in comparison to the Part 360 limits and to the background noise levels from highway traffic on Route 414. The background noise levels are referenced as alternate noise criteria for periods in which the levels of background noise exceeded the Part 360 standard daytime sound level limits. The Part 360 standard describes background noise as that component of the noise environment which excludes any contributions from the solid waste management facility. The acceptability of noise received at Locations 1 to 4 was evaluated based on the measured levels of background traffic noise levels, which were not influenced by sounds of landfill operations during the sound surveys. The acceptability of sounds received in nighttime hours at Locations 1 to 4 was evaluated based on the measurements of background traffic noise levels, and referencing the suburban nighttime sound level limits with the exception of the early morning peak traffic period.

The average traffic background noise levels varied among the survey locations along the eastern facility boundary. The variances are attributed to differences in speed and flow of traffic on the Route 414 highway. At locations opposite the original SMI landfill extending north, the traffic is free-flowing and produces fairly consistent noise levels in the daytime hours. At locations opposite the SELF and NEX landfill berms, the background noise is characterized by sounds of accelerating and decelerating trucks and automobiles near the signalized entrance to the landfill, at the drive to the AEC facility, and at the drive to the landfill leachate management facility, which increased the average noise levels. Additional noise was generated by vehicles using jake braking to decelerate.

Along the western boundaries of the landfill, environmental sounds and traffic on Burgess Road contribute to the background noise environment at the residential receiving locations. Ambient sounds of Route 414 highway traffic are also perceptible at locations on the western boundary to the north of the landfill, where segments of the highway are not screened by landfill berms. Along the southern boundaries of the landfill, the background noise levels are largely due to traffic on North Road, environmental sources, and bus traffic and employee traffic on the roadway to the Waterloo school bus garage. Location 8 on the south boundary additionally receives background noise generated from train passes and train horns at the North Road grade crossing of the Finger Lakes Railway.

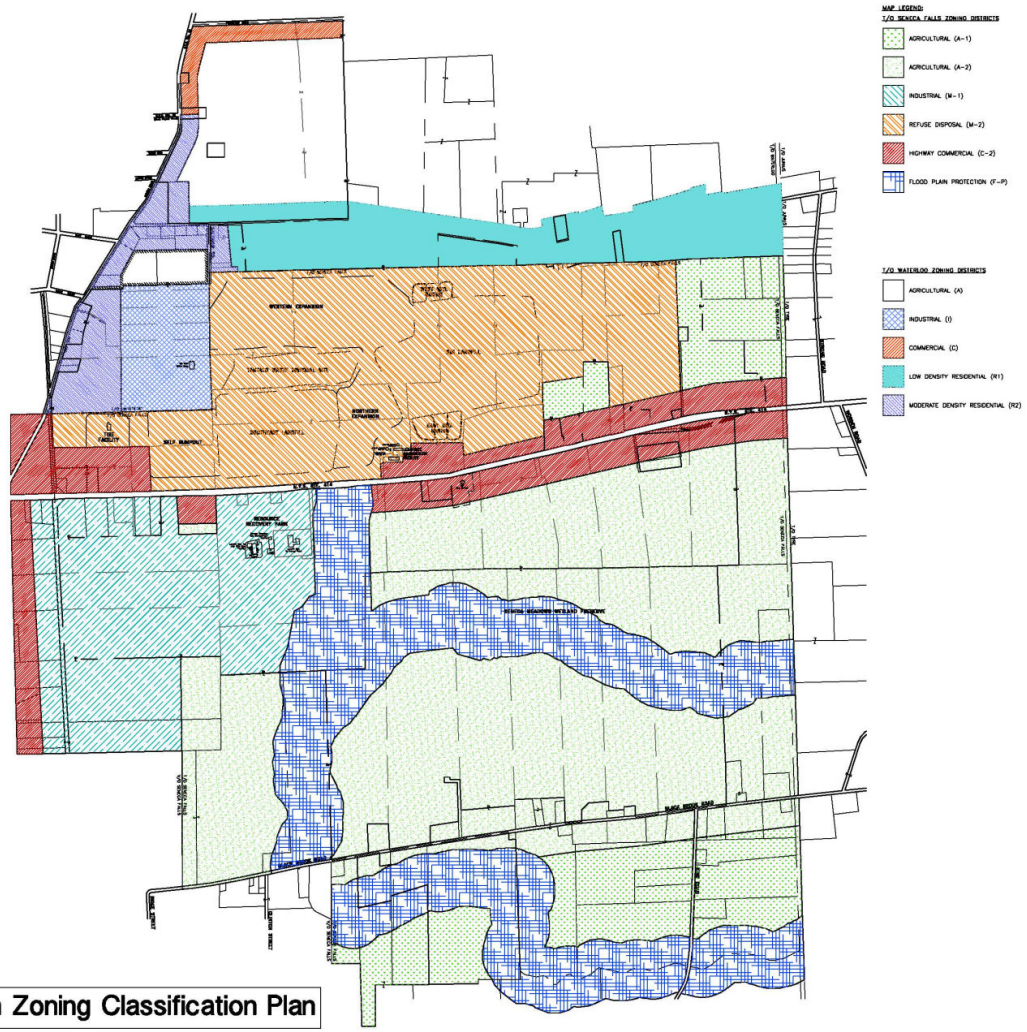


Figure 1 Town Zoning Classification Plan

At each boundary location and at each remote sampling location the prominent observed sources of environmental noise other than traffic consisted of calling birds, insects, amphibians in wetland areas, and wind blowing across vegetation. The environmental sources largely contributed to the noise measurements along the southern and western boundaries of the landfill holdings and along Black Brook Road. Along the facility's eastern boundary with Route 414, background traffic sounds dominated the environmental noise in the daytime hours and combined with sounds of environmental sources in nighttime hours. Environmental sources were more perceptible in the evening and nighttime periods due to lower sound levels from reduced highway traffic.

Additional sources of background noise that contributed to measurements along the eastern landfill boundaries included energy generation equipment at the Aria Energy Corporation gas-to-energy plant on Route 414, consisting of indoor gas engine generators and outdoor gas flares. The plant is partly perceptible at Locations 1 and 2 between traffic passes in daytime hours during landfill operating hours. The AEC plant is perceptible in daytime-evening and nighttime hours after the normal hours of landfill operation when highway traffic volumes are reduced. In evening and nighttime hours, the sounds of the AEC plant contribute to the environmental sound levels along the eastern landfill boundaries.

Farming activities were not observed on agricultural-use properties surrounding the boundaries of the landfill during the sound survey period.

During the survey period, waste was extracted from trailers using two Phelps trailer tippers in use at Stage 5 and one trailer tipper at Stages 7 and 8. Waste placement was performed with Caterpillar 836K and AlJon 600 waste handlers, and Caterpillar D6, D8 or D9 bulldozers. One or two compactors and two or three bulldozers were observed to be in use at Stage 5, and one compactor and one or two bulldozers were in use at Stages 7 and 8. Final soil covering on the east slope of the NEX berm with a bulldozer and articulated trucks was observed during the survey period.

Daily cover at each site was being placed with Caterpillar D6 bulldozers and Volvo A40D, Volvo A40E, Terex TA400, and Bell B45E articulated trucks.

Maintenance operations were observed to be performed at the northeast corner of the NEX area with a CZM EK125 soil drill and a Kobelco excavator. Drainage was being developed at the base of the western side of the NEX berm with an excavator and articulated truck. Materials were being deposited in the materials storage area by ten-wheel dump trucks and sorted by one or two Caterpillar 950H front end loaders.

Tire stockpiles at the tire recycling facility on Salcman Road were being processed and loaded onto

articulated trucks using a Komatsu excavator and a Caterpillar excavator with claw attachments. Construction at the Stage 5 and SMI landfill overlay area consisted of depositing of soil or beneficial use material on the synthetic liner on the upper area of the SMI overlay with articulated trucks and covering with one or two John Deere 750K$_{LGP}$ or 850K$_{LGP}$ bulldozers, and excavation of a lower area of the overlay adjacent to the fill area using a Komatsu PC490$_{LC}$ excavator and articulated trucks.

Dust and odor neutralizing was performed with perimeter spray systems served by pump systems located in an enclosure at the southwest corner of the WEX berm and a system on the north end of the south retention pond. Truck-mounted HAWC 300-80D dust suppression and odor neutralizing systems were stationed at the west edge of Stage 6 and on the plateau of Stages 7 and 8 but were not observed to be in use during the survey period.

A utility gas flare system was in use at the base of the east side of the WEX berm. The system include a National Turbine NT88304 blower with Baldor MP40G3929 100 HP motor..

Watering of site access roads and landfill staging areas was performed with a Volvo articulated water truck with Klein K-600 tank. The tanker was being filled from the southern retention pond using a portable pump. Dewatering pumps were staged at various locations to handle accumulated water from the Sunday rain period. Street cleaning of the Salcman Road entrance and the shoulders of Route 414 was being performed with a Tymco Model 600 street sweeper.

At survey Location 1 on the eastern boundary, the measured sound levels were generated by traffic on Route 414, and by accelerating and decelerating vehicles in the vicinity of the signalized landfill intersections. Waste placement operations at Stage 5 and at the Stages 7 and 8 and construction activities at the SMI overlay area were not perceptible at Location 1 due to the intervening distance and shielding of the SELF and NEX berms.

At survey Location 2 on the eastern boundary, the measured sound levels were dominantly generated by traffic on Route 414 including accelerating and decelerating vehicles, and by turning traffic at the leachate facility driveway intersection. Waste placement activities at Stage 5 and Stages 7 and 8, waste hauler truck traffic, and construction activities at the SMI overlay were not perceptible at the measurement location due to shielding of the SELF and NEX berms. Occasional pass-bys of soil trucks on the top of the NEX berm were faintly perceptible. Leachate trucks that occasionally entered the adjacent leachate facility driveway were partly perceptible.

The AEC Gas-to-Energy plant and High-BTU facility were perceptible in the daytime at Location 1 and Location 2 between passes of traffic on Route 414. The sources of sound consist of enclosed engine-generators and outdoor flare stacks. In daytime hours after the peak afternoon traffic period and in

nighttime hours, the plants were audible when background noise levels were lower from reduced traffic volume on Route 414. The plant sounds partly contributed to the nighttime background noise levels at each location.

At survey Locations 3 and 4 on the eastern boundary, the daytime noise levels were dominated by background traffic on Route 414 with minor contributions of background environmental sources. The background noise levels in evening and nighttime periods were influenced by the combination of traffic and environmental sources. The gas compressor station was also partly perceptible at Location 4 between traffic passes. Waste placement and cover operations at Stage 5 and at Stages 7 and 8 and construction activities at the SMI overlay area were not perceptible at survey Locations 3 or 4.

At survey Location 5 on the western boundary, the measured background levels were dominated by environmental sounds that included birds, insects, wind, and amphibians, traffic on Burgess Road, and ambient traffic noise from Route 414. Outdoor activities of neighbors were occasionally perceptible. Sounds of landfill waste placement operations at Stage 5 and construction activities at the SMI overlay area were occasionally faintly perceptible at Location 5, typically in the form of backup alarms, but did not significantly contribute to the measured ambient noise levels. The nighttime noise environment was generated by environmental sources and traffic.

At survey Location 6 on the western boundary, received sounds consisted of the combination of sounds of landfill waste placement operations at Stage 5 and Stages 7 and 8, construction activities at the SMI overlay areas, and background sources. The background sources consisted of birds, insects, wind, and traffic on Burgess Road. Maintenance vehicle pass-bys on the access road on the west side of the WEX berm were partly perceptible at the boundary. Farming operations around the location were not observed during the surveys. The nighttime noise environment was generated by environmental sources and traffic.

At survey Location 7 on the west boundary of the facility near the Salcman and Burgess Road intersection, the sources of received sound included waste hauler traffic on eastern Salcman Road, mine vehicle traffic on western Salcman Road, materials depositing at the Salcman Road materials storage area, and background sources. The background sources consisted of traffic on North Road and Burgess Road, birds, insects, and amphibians. Sounds of waste placement operations at Stage 5 or Stages 7 and 8 and construction activities at the overlay area were not distinguishable due to screening of the WEX berm. The nighttime noise environment was generated by environmental sources and traffic.

At survey Locations 8 on the southern boundary of the facility, the dominant sound sources consisted of highway traffic on North Road and periodic pass-bys of trains at the nearby grade crossing. Environmental sounds sources partly contributed to the background noise between the traffic and train

pass-bys, including birds, insects, and wind. Sounds of truck traffic on Salcman Road, at the materials storage area, and at the tire processing facility were partly perceptible. Sounds of waste placement operations at Stage 5 and at Stage 7 and 8 and construction activities at the overlay area were not distinguishable. The nighttime noise environment was generated by environmental sources, traffic, and train pass-bys.

At Location 9 on the southern boundary of the facility, the dominant sound sources consisted of environmental sounds sources, including birds, insects, and wind, and highway traffic on North Road and occasional traffic at the bus garage. Sounds of truck traffic on Salcman Road and at the materials storage area were partly perceptible. Sounds of waste placement operations at Stage 5 and at Stages 7 and 8 and construction at the overlay area were not distinguishable. The nighttime noise environment was generated by environmental sources and traffic.

At survey Location 10 on the western boundary, received sounds consisted of the combination of sounds of landfill waste placement operations at Stage 5, construction at the overlay area, and background sources. The sounds of landfill operations at the boundary were largely screened by the Stage 6 berm. The background sources consisted of birds, insects, wind, and traffic on Burgess Road. Farming activities were not observed in the adjoining agricultural field during the survey period. The nighttime noise environment was generated by environmental sources and traffic.

The noise requirements of the Part 360 waste management regulations have been interpreted in NYSDEC rulings to apply to landfill operations and to not include construction activities. This was concluded in an interim decision from the Deputy Commissioner of NYSDEC issued in October 1995 in the matter of the Saratoga County Landfill. The noise levels monitored during the survey period at certain boundary locations may have included the contributions of noise from certain construction operations including liner material placement and other activities. However, it is not possible to separate the contributions of construction operations from waste placement operations in the measurements. Therefore, certain measurements are considered to be conservative due to the ongoing construction operations.

Figure 2 Property Holdings Plan with Sound Survey Locations

The sound surveys were scheduled to characterize the hourly-average sound levels produced during the typical peak seasonal period of landfill waste acceptance and placement operations, site maintenance activities, and construction operations. The weekday daily volume of waste materials received from onsite and offsite sources and fill materials received from offsite sources was relatively uniform from Monday through Friday with minimum receipts on Thursday and peak receipts on Wednesday. Normal operating hours for the facility are from 6:00 a.m. to 4:00 p.m. on weekdays and from 6:00 a.m. to 11:30 a.m. on Saturday. The total daily quantities of internal and external loads are summarized below, which are identified from SMI Hourly Tonnage Reports. The total volumes of weekday receipts were typically highest on each day in the hours from 7:00 a.m. to 2:00 p.m.

	Daily Total Internal and External	
	Tonnage	Loads
Monday August 2	10,057	612
Tuesday August 3	10,222	636
Wednesday August 4	12,930	663
Thursday August 5	9,417	611
Friday August 6	9,417	641
Saturday August 7	4,347	302

During the surveys the weather was typically clear or partly cloudy, with low to moderate wind speeds of 12 mph or below, except for a period of elevated wind on Monday, according to local weather data. The wind did not appear to cause peaks in the logging records in the majority of the logging records except for moderate level increases in the logging records at Location 5. There were periods of rain on the Sunday prior to the survey period, but no rain during the surveys.

There were no scheduled community events or activities at the county fairgrounds during the survey period that would have affected local traffic counts or increased the environmental noise.

The following figures describe the observed activities during the period of the facility sound surveys, including waste placement and cover operations at the active Stage 5 and Stages 7 and 8 landfill areas with compactors and bulldozers, trailer tippers, commercial tractor trailers, and soil trucks. The figures also describe maintenance systems and operations, including site watering, road sweeping, drainage maintenance, and odor and dust neutralizing. The figures further describe observed construction activities including soil excavation and placement of liner cover at Stage 5 and the SMI overlay, which sounds combined with the operational noise levels.

Stage 5 landfill and construction areas, viewed from west

Stage 7-8 Landfill area, viewed from south

Excavation at the Stage 5 and SMI overlay area was in progress, as shown in the figure below.

Excavation at west Stage 5 and SMI overlay viewed from west.

Excavation at west Stage 5 and base of SMI overlay viewed from west.

Liner covering at west Stage 5, viewed from west.

Inactive construction at east Stage 5 area, viewed from west.

Drainage systems were being installed at the base of the west side of the NEX berm with an excavator and articulated trucks. Collection systems were being installed at the northeast corner of the plateau of the NEX berm with a soil drill.

Drainage system excavation at base of Stages 7 and 8, viewed from west.

Collection system drilling on the Stages 7 and 8 plateau, viewed from east.

Final cover operations on upper east side of NEX berm.

Cover operations on north side of NEX berm.

Tire processing operations were being performed at the tire recycling facility with two excavators with claw attachments with loading onto articulated trucks, as shown below. The operations did not produce significant noise.

Tire materials storage area processing and loading by excavators

Soil was periodically being transported by articulated trucks from the Meadow View Mine by way of west Salcman Road.

Soil truck on Salcman Road

Soil truck on access road on east side of NEX berm.

A road sweeper was in use to maintain Salcman Road and the public highway along the eastern boundary of the facility.

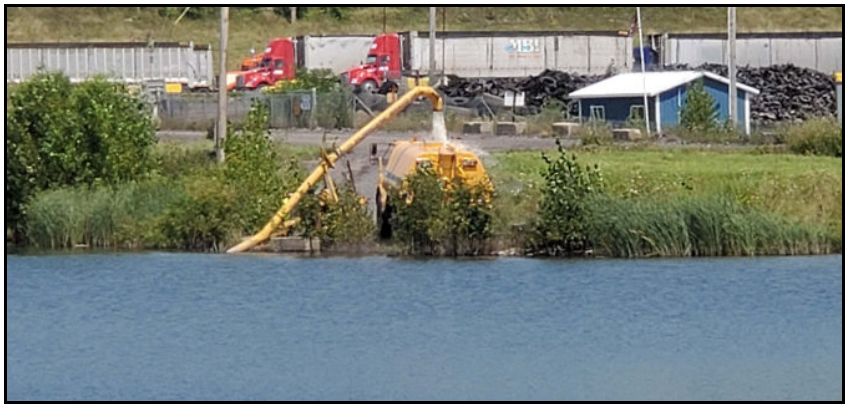
Road sweeping along highway

Two portable odor and dust neutralizing systems were stationed at the west side of Stage 6 and on top of the NEX plateau but were not observed to be in operation.

Portable dust and odor and neutralizing systems

A water truck was in use on landfill access roads, at landfill staging areas, and on Salcman Road. The trucks refilled from the retention ponds located south of Salcman Road and west of the SMI landfill.

Water truck maintaining Salcman Road



Water truck refilling at pond

Dewatering occurred as needed using a pump located at the west retention ponds adjacent to the Stage 6 landfill cell and at the east retention ponds adjacent to the SMI landfill.

Dewatering pump adjacent to SMI landfill.

Dewatering pump adjacent to Stage 6

Fixed and portable odor neutralizing sprayer systems were in rotating use around the landfill at various locations. Systems include a building enclosure located at the southwest corner of the WEX landfill, a shed style building north of the south retention pond near the materials storage area, and a portable trailer at the access road on the west side of Stage 6.

Odor neutralizing systems in noise enclosures

Soil loading and depositing was occurring at the materials storage area south of Salcman Road using excavators, loaders, and articulated trucks associated with construction sites and daily cover operations at the landfill cells.

Material depositing and handling operations at Salcman Road materials storage area

A utility flare stack and blower was in operation at the base of the east side of the WEX berm.

Utility fare system beside WEX berm

Leachate transfer and transport was being performed at the leachate collection facility.

Tankers at leachate facility

The Aria Energy Corporation, Inc. landfill gas-to-energy plant in the Renewable Resource Park is shown below, with the High BTU plant on the right. The facility includes gas turbine generators in the enclosed buildings and flare stacks between the buildings, at the center of the photograph. The facility noise is partly perceptible at Locations 1 and 2 on the eastern boundary of the landfill facility between traffic passes and when traffic volume is reduced.

The Mobil gas pipeline facility on Route 414 adjoining the SMI landfill is shown below. The facility is not a prominent source of noise.

The SMI Education Facility, shown below, was not in use during surveys and did not generate traffic.

The Sherman Compressor Station, operated by Minard Run Oil Company, is located north of the SMI landfill near an agricultural parcel at the northeast boundary of the landfill facility. The natural gas compressor facility contains three compressors, which are audible at Survey Location 4.

The sound levels measured at the boundaries of the landfill facility landfill during the annual sound surveys for the year 2021 were predominantly produced by traffic and environmental sources. At some boundary locations, sounds of waste placement operations, cover operations, site maintenance activities, and vehicle traffic on site access roads. The facility sound sources did not significantly contributes to the measured hourly-average sound levels. The dominant sources of background noise consisted of traffic on Route 414 highway, North Road, and Burgess Road. Perceptible background environmental sources included calling birds, insects, and amphibians in wetlands areas, and wind across trees and vegetation. The environmental background sources were in particular influential along the wooded boundaries to the northwest, northeast, and south, and along agricultural parcels to the west. Additional sources of background noise along the southern boundaries included periodic train passes and horns at the grade crossing of the Finger Lakes Railroad with North Road. Operations of dust and odor neutralizing systems did not generate significant noise at any survey location. Landfill construction activities including final cover operations were not observed to generate significant noise that was separately discernible from landfill waste placement operations.

The sound levels measured at survey Locations 1 to 4 were dominated by sounds of traffic on Route 414. The traffic sound levels were highest in the peak daytime traffic hours from 6:00 a.m. to 6:00 p.m. At Locations 1 and 2 the daytime noise levels were characterized by sounds of free flowing traffic as well as accelerating and decelerating traffic at intersections in the vicinity of the survey locations. The measured daytime hourly-average noise levels exceeded the 62 dBA daytime sound level limit of the Part 360 regulations in the majority of daytime samples at Location 1, and in a portion of the daytime samples at Location 2. Sounds of landfill operations were not perceptible or not significantly perceptible and did

not significantly contribute to the measured sound levels.

At Locations 3 and 4 the daytime noise levels were characterized by sounds of free flowing traffic on Route 414. The hourly-average sound levels at Location 3 exceeded the daytime limit in a portion of daytime hours. The hourly-average sound levels at Location 4 did not exceed the daytime limit. Sounds of landfill operations were not perceptible at the locations between traffic passes and did not contribute to the measured sound levels.

The hourly-average noise levels in nighttime hours consistently exceeded the 52 dBA nighttime sound level limit of the Part 360 regulations at Locations 1 to 4. The exceptions are attributed to nighttime traffic on Route 414. At Locations 1 and 2, operations of the AEC gas-to-energy facility contributed to the measured sound levels.

The hourly-average noise levels measured at Locations 5 to 9 were predominantly influenced by sounds of traffic on nearby roadways and by environmental sources. Daytime sounds of landfill waste placement and cover operations, maintenance activities, materials storage operations, and site traffic were partly perceptible at each location but did not significantly contribute to the measured sound levels. There were no exceedances to the permissible limits in daytime hours due to facility operations.

At Location 5, sounds of waste placement operations at Stage 5 and the SMI overlap were occasionally faintly perceptible, typically in the form of backup alarms, but did not significantly contribute to the measured sound levels. At Location 6, sounds of waste placement operations were screened by the WEX berm and Stage 6 berm and were faintly to partly perceptible but did not significantly contribute to the measured sound levels. Occasionally perceptible were maintenance vehicle pass-bys on the access road on the west side of the berms. There were no recorded nighttime exceptions at Locations 5 and 6.

At Locations 7, 8, and 9, landfill operations were faintly perceptible and included sounds of vehicle traffic on the site access roads, at the materials storage area, and at the tire facility. The landfill sources did not significantly contribute to the measured sound levels. At Location 8, periodic daily train passes with horns at the North Road grade crossing caused several exceptions to the daytime sound level limit. There were limited recorded exceptions to the nighttime limit at Locations 7, 8, and 9 that are attributed to highway traffic sources.

At Location 10, waste placement operations at Stage 5 and the SMI overlay were partly perceptible and were largely screened by the Stage 6 berm. The landfill sources partly contributed to the measured sound levels. There were not recorded exceptions to the daytime limit or nighttime limit at Location 10.

1.1 Measured Noise Levels Summary

Sound surveys were performed around the SMI facility in the period from the morning of August 2 to the evening of August 6, 2021 at ten boundary line locations, as identified in Figure 2. The sound levels were continuously monitored in daytime and nighttime hours throughout the survey period with installed noise loggers. The sound levels were recorded in consecutive fifteen-minute time history intervals in several metrics, including the average sound level, $L_{eq\text{-}15min}$. The fifteen-minute averages were logarithmically combined to produce one-hour sound level averages ($L_{eq\text{-}1\ hr}$) for comparison to the hourly-average sound level limits contained in the Part 360 regulations, as means to evaluate the acceptability of landfill sound received at the boundaries.

Short-term sound level sampling was additionally performed at each boundary location obtained with portable sound level analyzers during three or four sampling periods on two days. Surveys were performed on Monday on the starting day of continuous monitoring and on Friday on the final day of monitoring. The sampling surveys were obtained during representative portions of an hour in two or three daytime periods at each location during landfill operating hours, and in one evening period at each location after the normal hours of waste acceptance to characterize the background sound levels. Additional sampling surveys were performed at community locations along Black Brook Road.

Sound level sampling was performed in measurement periods of ten to twenty minutes using sample averaging times of one second. The sampling measurements identified the noise environment at each location over periods sufficient to represent one-hour average levels in accord with the Part 360 regulations. The sampled sound level data were obtained for comparison to the hourly-average sound levels obtained from the continuous monitoring in corresponding time periods and for comparison to the Part 360 sound level limits. Prominent sound sources that occurred during the sampling surveys were identified in the sampling records.

The continuous logging surveys and the sampling surveys identified the sound levels produced by normal daily operations of waste acceptance, placement, and cover activities at the Stage 5 and Stages 7 and 8 landfill areas, construction at Stage 5 and the SMI overlap, final cover operations at the Stages 7 and 8 berm, and maintenance operations at various locations around the facility. The waste placement operations were relatively consistent on each day of the survey period, referencing the SMI daily logs.

The volumes of accepted waste were relatively uniform on each survey day based on the landfill daily tonnage and vehicle reports. The daily average of waste receipts of all classes was 10,408 tons over the 2021 survey period, which compares to 13,132 tons over the 2020 survey period and 12,470 tons over the 2019 survey period. The total weekday material receipts was 52,042 tons during the 2021 sound survey period, which compares to 65,601 tons over the 2020 survey period and 68,572 tons over the 2019 survey

period.

The survey day with the highest volume of waste receipt was Wednesday, which volumes represented 24.9% of the weekday total and were 24% greater than the daily average of waste receipts. Receipts on Monday represented 19.3% of the weekday total and were 3.4% lower than the daily average. Receipts on Tuesday represented 19.6% of the weekday total and were 1.8% lower than the daily average. Receipts on Thursday represented 18.1% of the weekday total and were 10% lower than the daily average. Receipts on Friday represented 18.1% of the weekday total and were 10% lower than the daily average. Waste volumes received on Saturday morning represent just 7.7% of the total tonnage received in the six-day period from Monday to Saturday.

The total landfill delivery vehicle count on each weekday was relatively uniform. The five-day average total vehicle count was 633, compared to 747 in the survey period in 2020 and 824 in the survey period in 2019. Traffic volume on Monday was 3.3% lower than the average number of weekday vehicles. Traffic volume on Tuesday equaled the daily average, on Wednesday was 4.8% higher, on Thursday was 3.5% lower, and on Friday was 1.3% higher. The volume of traffic on Saturday was 302, which was 8.7% of the six-day vehicle count total.

Sound survey Location 1 represents former residential-use properties adjoining the eastern boundary of the landfill on the east side of Route 414 near the former Salcman Road intersection. The properties are contained in the Highway Commercial zoning district in the Town of Seneca Falls. The former residential-use properties are adjacent to the Renewable Resource Park (RRP), which contains the Aria Energy Corporation (AEC) Gas-to-Energy plant and High-BTU plant. Each of the former residential-use properties are holdings of SMI. The properties are vacant, except for one former residence that is used as the office for landfill construction, and which was previously used as a construction office, mill shop, and vehicle storage site for projects at the Renewable Resource Park and for reconstruction of the Salcman Road intersection.

During the survey period from the morning of Monday August 2 to the evening of Friday August 6, the hourly-hour average sound levels measured at Location 1 with continuous logging ranged from a minimum of 56.2 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 65.9 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. The total number of daytime hourly-average samples was 67, of which 48 exceeded the 62 dBA daytime criterion due to free flowing traffic and vehicle acceleration and deceleration events. The numerical average of the daytime hourly-averages over the five-day survey period was 63.5 dBA. The sound levels in the daytime period of landfill operations and peak highway traffic from 7:00 a.m. to 6:00 p.m. averaged 64.2 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which 36 exceeded the 52 dBA nighttime criterion, which are

attributed to traffic and operations of the neighboring AEC plant. The numerical average of the nighttime hourly-averages over the survey period was 59.0 dBA.

Survey Location 2 represents a former residential-use and agricultural-use property on the east side of Route 414 adjoining the east boundary of the NEX landfill berm. The property is the site of landfill retention ponds, and currently contains one storage building. The property is a holding of SMI. The property is in the vicinity of the Aria Energy Corporation gas-to-energy plant. The hourly-hour average sound levels measured at Location 2 with continuous logging ranged from a minimum of 53.5 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 66.1 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m.. During daytime hours, 68 hourly-average samples were recorded, of which 12 exceeded the 62 dBA daytime criterion due to free flowing traffic and vehicle acceleration and deceleration events. The numerical average of the daytime hourly-averages over the five-day survey period was 61.2 dBA. The sound levels in the daytime period of landfill operations and peak traffic from 7:00 a.m. to 6:00 p.m. averaged 61.9 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which 36 exceeded the 52 dBA nighttime criterion, which are attributed to traffic and operations of the neighboring AEC plant. The numerical average of the nighttime hourly-averages over the survey period was 57.0 dBA.

Survey Location 3 was located on the east boundary of the landfill along Route 414 opposite the original SMI landfill. The location represents a current residential-use property on the east side of the highway and a former residential-use property on the west side of the highway just north of the location. Surrounding properties are wooded and undeveloped and are holdings of SMI. Other nearby properties on both sides of the highway contain commercial operations including an automobile repair shop and an automobile auction site north of the survey location and a gas transmission facility south of the location. Sounds of landfill operations and construction activities were imperceptible due to the screening of the adjoining woods and the attenuation due to distance. The background noise levels at the location are dominated by free-flowing traffic on Route 414. The commercial automobile operations to the north and industrial gas line facility operations to the south did not generate perceptible noise. The hourly-hour average sound levels measured at Location 3 with continuous logging ranged from a minimum of 55.6 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 63.4 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 69 hourly-average sound levels were recorded, of which 19 exceeded the 62 dBA daytime criterion. The numerical average of the daytime hourly-averages over the five-day survey period was 61.62 dBA. The sound levels in the daytime period of landfill operations and peak traffic from 7:00 a.m. to 6:00 p.m. averaged 62.2 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which 36 samples exceeded the 52 dBA nighttime criterion, which are attributed to traffic. The numerical average of the nighttime hourly-averages over the survey period was 58.2 dBA.

Survey Location 4 was located on the east boundary of the landfill along Route 414, approximately 2000 feet north of the SMI landfill. The location represents current residential-use properties on the east and west sides of the highway adjacent to the survey location. The survey location adjoins an agriculturally-zoned parcel on the SMI property that is leased for agricultural use. The background noise levels at the location were largely due to free-flowing traffic on Route 414, and in part to environmental sounds and sounds of a gas transmission facility located west of the location. Sounds of landfill operations and construction activities were imperceptible as result of the screening of the adjoining woods and the attenuation due to distance. The hourly-hour average sound levels measured at Location 4 with continuous logging ranged from a minimum of 52.2 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 59.0 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 69 hourly-average sound levels were recorded, of which none exceeded the 62 dBA daytime criterion. The numerical average of the daytime hourly-averages over the five-day survey period was 56.7 dBA. The sound levels in the daytime period of landfill operations and peak traffic from 7:00 a.m. to 6:00 p.m. averaged 57.4 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which 35 samples exceeded the 52 dBA nighttime criterion, which are attributed to traffic, the compressor sounds, and environmental sources. The numerical average of the nighttime hourly-averages over the survey period was 54.3 dBA.

Survey Location 5 represents a suburban grouping of residences on Burgess Road along the western boundary of the landfill facility opposite the northwest corner of the SMI landfill. The residences on each side of Burgess Road are located in a district zoned Low-Density Residential in the Town of Waterloo. The measured noise levels were predominantly the result of environmental sounds of insects, birds, and amphibians, local traffic on Burgess Road, and distant traffic on Route 414. The hourly-hour average sound levels measured at Location 5 with continuous logging ranged from a minimum of 44.7 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 56.1 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 71 hourly-average sound levels were recorded, of which none exceeded the 62 dBA daytime criterion, excluding rain events. The numerical average of the daytime hourly-averages over the five-day survey period was 48.4 dBA. The sound levels in the daytime peak traffic period from 7:00 a.m. to 6:00 p.m. averaged 48.5 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which none exceeded the 52 dBA nighttime criterion. The numerical average of the nighttime hourly-averages over the survey period was 47.3 dBA.

Survey Location 6 represents the western property line of the landfill facility opposite the WEX landfill area. The adjoining properties are zoned Low-Density Residential and are currently used for agricultural purposes. The location represents two residences located on the east side of Burgess Road approximately 700 feet to the west. One of the residences is located on the adjoining property parcel, whereas the other is located on a subdivision of the adjoining property. The location is characterized by environmental and

traffic noise, and faintly by sounds of landfill operations at Stage 5 and the SMI overlay. The hourly-hour average sound levels measured at Location 6 with continuous logging ranged from a minimum of 41.0 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 56.5 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 72 hourly-average sound levels were recorded, of which none exceeded the 62 dBA daytime criterion. The numerical average of the daytime hourly-averages over the five-day survey period was 42.3 dBA. The sound levels in the daytime peak traffic period from 7:00 a.m. to 6:00 p.m. averaged 42.0 dBA. During nighttime hours, 37 hourly-average sound levels were recorded, of which none exceeded the 52 dBA nighttime criterion. The numerical average of the nighttime hourly-averages over the survey period was 41.0 dBA.

Location 7 represents the western boundary of the landfill near a group of residential properties at the intersection of Salcman Road and Burgess Road. The properties are contained in a Moderate-Density Residential district. Five residential properties containing residences are located south of the intersection on the east side of Burgess Road, of which four are current property holdings of SMI. Former residential properties located north of the intersection on the east side of Burgess are property holdings of SMI. Properties on the west side of Burgess Road are holdings of SMI and include the Meadow View Mine. The survey location is characterized by sounds of traffic on Burgess Road and North Road, environmental sources, waste hauler traffic on east Salcman Road, mine traffic on west Salcman Road, and materials loading and unloading operations in the materials storage area south of Salcman Road. The hourly-hour average sound levels measured at Location 7 with continuous logging ranged from a minimum of 43.1 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 53.9 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 73 hourly-average sound levels were recorded, of which none exceeded the 62 dBA daytime criterion, excluding rain events. The numerical average of the daytime hourly-averages over the five-day survey period was 50.9 dBA. The sound levels in the daytime peak traffic period from 7:00 a.m. to 6:00 p.m. averaged 50.9 dBA. During nighttime hours, 38 hourly-average sound levels were recorded, of which two exceeded the 52 dBA nighttime criterion that are attributed to traffic events. The numerical average of the nighttime hourly-averages over the survey period was 48.3 dBA.

Location 8 represents the south boundary of the landfill adjoining residential properties on the north side of North Road in the Town of Waterloo, and properties on the south side of North Road in the Village of Waterloo, which are located west of the Finger Lakes Railroad grade crossing with North Road. The noise at the survey location is largely due to traffic on North Road, environmental sources, train pass-bys with horns at the grade crossing, and site traffic on Salcman Road. The hourly-hour average sound levels measured at Location 8 with continuous logging ranged from a minimum of 44.7 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 65.1 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 72 hourly-average sound levels were recorded, of which 7 samples

exceeded the 62 dBA daytime criterion, which are attributed to the pass-bys of trains at the nearby grade crossing. The numerical average of the daytime hourly-averages over the five-day survey period was 51.5 dBA. The sound levels in the daytime peak traffic period from 7:00 a.m. to 6:00 p.m. averaged 50.9 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which one sample exceeded the 52 dBA nighttime criterion, which is attributed to a traffic event. The numerical average of the nighttime hourly-averages over the survey period was 48.7 dBA.

Location 9 represents the south boundary of the landfill adjoining residential properties on the north and south sides of North Road located east and west of Inslee Street. The noise levels were the combination of sounds of environmental sources, traffic on North Road, vehicles on Salcman Road, materials unloading activities at the materials storage area, and occasional traffic on the road to the bus garage and activities in the bus garage. The hourly-hour average sound levels measured at Location 9 with continuous logging ranged from a minimum of 45.3 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 51.5 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 71 hourly-average sound levels were recorded, of which none exceeded the 62 dBA daytime criterion, excluding rain events. The numerical average of the daytime hourly-averages over the five-day survey period was 48.2 dBA. The sound levels in the daytime peak traffic period from 7:00 a.m. to 6:00 p.m. averaged 48.3 dBA. During nighttime hours, 36 hourly-average sound levels were recorded, of which one exceeded the 52 dBA nighttime criterion, which is attributed to an environmental event. The numerical average of the nighttime hourly-averages over the survey period was 45.0 dBA.

Location 10 represents the facility boundary west of the Stage 5 and SMI overlay landfill area. The location is opposite adjoining agricultural-use properties on the east side of Burgess Road, and a former residential-use property on the west side of Burgess Road that is a property holding of SMI. The properties adjoining the boundary location are zoned Low-Density Residential. The noise levels received at the survey location in daytime hours were the combination of sounds of landfill waste placement operations, environmental sources, and local traffic. In nighttime hours the noise was generated by environmental sounds and local traffic. The hourly-hour average sound levels measured at Location 10 with logging ranged from a minimum of 42.5 dBA in the nighttime hours from 10:00 p.m. to 7:00 a.m. to a maximum of 50.9 dBA in the daytime hours from 7:00 a.m. to 10:00 p.m. During daytime hours, 72 hourly-average sound levels were recorded, of which none exceeded the 62 dBA daytime criterion. The numerical average of the daytime hourly-averages over the five-day survey period was 47.8 dBA. The sound levels in the daytime peak traffic period from 7:00 a.m. to 6:00 p.m. averaged 60.9 dBA. During nighttime hours, 37 hourly-average sound levels were recorded, of which none exceeded the 52 dBA nighttime criterion. The numerical average of the nighttime hourly-averages over the survey period was 45.0 dBA.

1.2 Summary Conclusions

Noise levels were evaluated on the boundaries of the Seneca Meadows, Inc. landfill to characterize the sound levels received during operations in the year 2021. The surveys were obtained at locations adjoining properties zoned or authorized for residential use. The data were summarized and evaluated as means to assess the acceptability of facility noise emissions in accordance with noise requirements of New York State Department of Environmental Conservation 6 NYCRR Part 360 Regulations for Solid Waste Management Facilities and Department rulings.

The sound surveys identified the noise levels generated during the annual peak period of facility operations from daily waste acceptance and placement operations, daily cover operations, site maintenance activities, and landfill construction activities. The surveys were scheduled in a peak annual operating period to characterize the highest hourly-average sound levels produced by the combined facility operations.

Sound levels were continuously monitored at ten boundary survey locations with installed noise loggers during the period from the morning of Monday, August 2 to the evening of Friday, August 6, 2021. The logged sound levels at each survey location included the L_{eq} sound level averaged for each fifteen-minute period. The component fifteen-minute average sound level data were extrapolated into hourly-average noise levels ($L_{eq\text{-}1\ hr}$) for direct comparison to the Part 360 daytime and nighttime sound level criteria.

Sound levels were additionally sampled at each location and at remote community locations using a portable sound level analyzer. The sampling surveys were obtained over a portion of an hour each using one-second averaging periods. The sampled sound level data were determined to be appropriate representations of one-hour average sound levels. Aural observations were obtained to identify the prominent facility and background sound sources during normal landfill facility operations, and to identify the background sources during periods outside of waste acceptance hours. The sampling surveys were performed on Monday and Friday of the survey period in two or three daytime periods during normal operations of the landfill and in one daytime afternoon or evening period after the hours of normal landfill waste acceptance and placement to evaluate the background sound levels. The identified sources of sound received at each measurement location are annotated on the logging and sampling records. The sampled sound level data were compared to the hourly-average sound level data obtained from the continuous logging to verify the consistency of the continuously logged data. The sampled data were further compared to the Part 360 sound level limits as additional means to assess the acceptability of the received noise levels.

The sound level data logged and sampled at the boundary locations adjoining residential-use properties were compared to the noise level criteria contained in 6 NYCRR Part 360 to assess the acceptability of the received noise levels. The findings are further used to identify needs to mitigate any contributing sound source. The acceptability of the measured sound levels was assessed in comparison to the hourly-average sound level limits that are associated with a suburban style community, which are 62 dBA for daytime periods (7:00 a.m. to 10:00 p.m.) and 52 dBA for nighttime periods (10:00 p.m. to 7:00 a.m.).

The noise criteria listed in subparagraph 360-1.19(j) of the Part 360 landfill regulations apply to noise levels resulting from equipment or operations at a landfill facility which are received beyond the property line owned or controlled by the owner or operator of the facility at locations authorized for residential purposes. The acceptability of the sound levels at locations adjoining the landfill in the Town of Waterloo and in the Town of Seneca Falls was evaluated using the sound level limits associated with the suburban designation. The suburban designation has been used in past annual sound surveys and was chosen based on the character and density of the surrounding residential properties and current residences, the type and extent of surrounding commercial and industrial development, the extent of future local development plans, and the volume and character of traffic on the surrounding highway and railroad transportation facilities.

The hourly-average daytime and nighttime sound levels measured at survey Locations 5 to 10 on the western and southern boundaries were determined to be acceptable in accord with the standard Part 360 sound level limits of 62 dBA L_{eq} in the daytime and 52 dBA L_{eq} in the nighttime for the suburban community character, with consideration of exceptions due to non-facility sources. The recorded daytime exceptions at Location 8 are attributed to periodic train pass-bys with horns. The recorded nighttime exceptions are attributed to traffic sources or environmental events without the presence of nearby facility sources.

Sound levels were sampled at two locations along Black Brook Road opposite residential properties. The sound levels were characterized by local traffic and by environmental sources. Sounds of landfill operations could not be discerned. The hourly-average sound levels were determined to be acceptable in accord with the standard Part 360 daytime sound level limit of 62 dBA L_{eq} .

The daytime hourly-average noise levels measured at eastern boundary survey Locations 1, 2, and 3 adjoining State Route 414 were found to exceed the Part 360 daytime sound level limit of 62 dBA L_{eq} during the peak traffic period from 7:00 a.m. to 6:00 p.m. due to prominent effects of daytime traffic on State Route 414. The number of exceptions at Location 1 were greater as result of added sounds of vehicle acceleration and deceleration with uses of jake brakes in the vicinity of the signalized intersection of Salcman Road. Locations 2 and 3 included the effects of continued vehicle acceleration and deceleration from the intersection and in the vicinity of other industrial facility driveways. Sampling surveys and aural observations confirmed that sounds of facility operations were not perceptible, or were only occasionally faintly perceptible at Location 2, due to the screening of the landfill SELF and NEX berms and the masking effects of background traffic noise, and as result did not contribute or significantly contribute to the measured sound levels at either location. The hourly-average sound levels measured in the daytime-evening period from 6:00 p.m. to 10:00 p.m. complied with the Part 360 standard daytime sound level limit. The nearby AEC gas-to energy plant is perceptible between traffic and during periods of reduced volumes of traffic, and may partly contribute to the daytime sound levels at Locations 1 and 2.

The daytime hourly-average sound levels measured at eastern boundary survey Location 4 were found to comply with the Part 360 daytime sound level limit for the suburban community character. Highway traffic opposite Location 4 was smooth flowing and did not generate added noise from acceleration and deceleration events.

The nighttime hourly-average sound levels at survey Locations 1 to 4 consistently exceeded the 52 dBA nighttime limit. The exceptions at each location are attributed to the volume of nighttime traffic on State Route 414 and environmental sources. The nighttime exceptions at Locations 1 and 2 are also in part attributed to sounds received from operations of the AEC facility. The nighttime exceptions at Location 4 are also in part attributed to sounds received from operations of the Sherman Compressor Station.

The acceptability of the hourly-average noise levels measured at Locations 1 to 4 that exceeded the Part 360 criteria was evaluated based on the level of background noise and the inaudibility of the landfill sources. The modified criteria specified in Part 360 Subparagraph 360-1.19(j)(1) can be applied to receptor locations where the existing background noise levels without contributions of facility equipment and operations exceed the standard permissible sound level limits. The regulations section states the combined sound levels must not exceed the sound levels of the background by more than three decibels.

The overall daytime sound level at Location 2 that may have included minor contributions of soil cover operations was 61.2 dBA. The overall daytime average at Location 3, which experienced similar traffic noise except landfill sounds were imperceptible, was 61.6 dBA. The background noise level at Location

2 is expected to be closely identical to the overall average sound level at Location 3. It is concluded therefore the sounds of landfill operations did not increase the background noise levels at Location 2.

It is concluded that the daytime and nighttime noise levels measured at Locations 1 to 4 are acceptable referencing the alternate noise criteria of subparagraph 360-1.19(j)(1) of the Part 360 landfill regulations, based on the consistent contributions of traffic noise and the imperceptibility or insignificance of sounds of landfill operations.

Seneca Meadows maintains a Complaint Management Program to address community concerns regarding noise, odor, traffic, litter, and other issues as a requirement of its Host Community Benefit Agreement. The program includes an "800" telephone service that can be used by the community to voice concerns related to the facility's operations. The service is used to alert SMI staff to investigate complaints, resolve issues by appropriately modifying operations, and to prepare responses. There were no complaints received in the year 2021 related to noise.

The NYSDEC 6 NYCRR Part 360 landfill noise regulations that are referenced to determine acceptability of noise of landfill operation are summarized in the following report sections, with discussions regarding the application of the regulations to the survey methodology.

2.0 Noise Criteria

Operational requirements for solid waste management facilities in New York State are mandated by the Department of Environmental Conservation Division of Solid Waste 6 NYCRR Part 360 regulations, in Section 360-1.19 effective November 4, 2017. The relevant restrictions on noise are specified in Section 360-1.19 paragraph (j) and its subsections. The requirements are reproduced in the following section.

2.1 6 NYCRR Part 360 Regulations

6 NYCRR Part 360 Section 360-1.19 paragraph (j) states:

> *(j) The owner or operator of a facility must ensure that noise (other than that occurring during construction of the facility) resulting from equipment or operations at the facility does not exceed the following energy equivalent sound levels beyond the property line owned or controlled by the owner or operator of the facility at locations authorized for residential purposes:*

Character of Community within a one-mile radius of facility	*L_{eq} Energy Equivalent Sound Levels*	
	7:00 a.m.-10:00 p.m.	*10:00 p.m.-7:00 a.m.*
Rural	*57 dBA*	*47 dBA*
Suburban	*62 dBA*	*52 dBA*
Urban	*67 dBA*	*57 dBA*

> *The L_{eq} is the equivalent steady-state sound level which contains the same acoustic energy as the time varying sound level during a one-hour period. It is not necessary that the measurements be taken over a full one-hour time interval, but sufficient measurements must be available to allow a valid extrapolation to a one-hour time interval.*
>
> *(1) If the background sound level exceeds the referenced Leq sound level limit, the Leq sound levels from facility sources and background sources when combined must not exceed the Leq sound level of the background sources alone by more than three decibels (A).*
> *(2) The background sound level, measured as Leq, is the existing ambient sound level during a period of peak acoustical energy measured in the absence of sound produced by equipment or operations at the facility. A background sound level monitoring protocol must be submitted to the department for approval prior to conducting background measurements.*
> *(3) Sound levels must be measured using the slow time constant and A-weighting. During the measurement period, no precipitation must occur and wind speeds must not exceed 12 miles per hour.*
> *(4) Measuring instruments must be type 1 or class 1 precision sound level meters, type 2 or class 2 general purpose sound level meters, or corresponding special sound level meters type S1A or S2A.*
> *(5) Noise assessments must include details of the attenuation factors and calculations utilized. Noise assessment calculations are allowed to utilize average annual conditions when calculating atmospheric attenuation.*
> *(6) Mufflers are required on all internal combustion-powered equipment used at the facility.*

2.2 Regulations Discussion

The 6 NYCRR Part 360 landfill regulations in Section 360-1.19(j) define limits to sound levels received beyond the property line owned or controlled by the owner or operator of the landfill facility at locations authorized for residential purposes. The sound surveys identified the levels of sound received at residentially-authorized properties adjoining the Seneca Meadows, Inc. landfill in accord with the regulations.

The properties surrounding the landfill are located in zoning districts in the Town of Waterloo and the Town of Seneca Falls that are zoned or authorized for residential, including Low Density Residential, Agricultural, and Flood Plain Protection in the Town of Seneca Falls, and Medium Density Residential, Highway Commercial, and Industrial in the Town of Waterloo. The evaluated surrounding residential-use properties contain existing residences and are the sites of former residences. A number of the properties are currently or were previously used for agricultural purposes. Non-residential properties surrounding the facility include wetland preserve areas and commercial and industrial facilities located in commercial and industrial zoning districts. A significant number of adjoining properties and non-contiguous properties surrounding the landfill facility are property holdings of Seneca Meadows, Inc., and provide broad buffers from current residentially occupied property.

Sound levels received at residentially-authorized properties bordering the eastern boundary of the landfill extending from the south end of the SELF to the northern boundary of the landfill property were identified by measurements at sound survey Locations 1 through 4. The properties along the eastern boundary are void of current residences in the vicinity of Locations 1 and 2 and include a very small number of current residences in the vicinity of Locations 3 and 4. The remaining properties along the eastern boundary are forested and undeveloped or used agriculturally, including SMI property holdings.

Properties located directly east of the SELF berm on the east side of Route 414 represented by Location 1 include approximately three former residential-use properties, which are contained in Industrial M-1 zoning in the Town of Seneca Falls. One property at 2215 Route 414, which is owned by SMI, includes a former house that is currently used as the office for landfill construction. Properties that adjoin the former residential properties have previously been used for agricultural purposes and were fallow during the current sound survey period. Survey Location 1 represents the former residential-use properties along the east side of Route 414 including the remaining former residential building.

Properties located directly east of the NEX landfill on the east side of Route 414 represented by Location 2 include one former residential-use property, former agricultural-use properties, and undeveloped wooded properties in the Highway Commercial and Flood Plain Protection zoning districts in the Town of Seneca Falls. The former residential property is vacant with the exception of a storage building. The surrounding former agricultural properties are currently occupied by several landfill retention ponds. Both properties are holdings of SMI. Adjoining the parcel to the north is an undeveloped wooded property that is a holding of SMI. Survey Location 2 represents the former residential-use property and

the adjacent undeveloped property that are residentially authorized.

Properties located between survey Location 2 and Location 3 directly east of the original SMI landfill include a small number of former residential-use properties and undeveloped wooded properties on both sides of Route 414, which are holdings of SMI affiliates, and commercial properties on the east side of the highway, which are contained in the Highway Commercial zoning district in the Town of Seneca Falls. The commercial properties include the Exxon Mobil Oil Pipeline facility and the Seneca Meadows Environmental Education Center.

Survey Location 3 represents properties adjoining the northeast corner of the SMI landfill, including a current residential property on the east side of Route 414. Additional properties that are holdings of SMI include former residential-use properties without residences on both sides of the highway and undeveloped wooded properties on both sides of the highway. An adjoining commercial property includes an automobile repair facility on the west side of the highway. The properties are contained in the Highway Commercial zone in the Town of Seneca Falls. .

Properties between survey Location 3 and Location 4 along Route 414 include former residential-use properties on the west side of the highway and undeveloped wooded properties on both sides of the highway, which are holdings of SMI affiliates. Commercial operations in the vicinity of the survey locations include a private vehicle repair facility, the Rochester-Syracuse Auto Auction barn, a commercial truck repair facility, and a graphics production office building. The properties on both sides of the highway are contained in Highway Commercial zoning districts.

Survey Location 4 represents residentially-authorized properties to the north of the landfill, including a current residential-use property on the west side of the highway, two residential-use properties on the east side of the highway, and undeveloped properties on both sides of the highway. The properties are contained in the Highway Commercial zoning district in the Town of Seneca Falls. Adjoining property includes undeveloped areas and an agricultural-use parcel contained in an Agricultural zoning district on the west side of the highway, which are property holdings of SMI affiliates.

Properties located north of Location 4 on both sides of the highway are undeveloped densely wooded properties contained in Highway Commercial zoning districts, which are holdings of SMI affiliates.

Properties located south of Location 1, which extend from Salcman Road to the intersection of North Road and Balsey Road, are zoned Highway Commercial and Industrial in the Town of Seneca Falls and contain a number of commercial and industrial facilities. Industrial properties on both sides of Route 414 at the Salcman Road landfill entrance are holdings of SMI, as shown in Figure 2.

Properties east of the Route 414 Highway Corridor zoning district, which extend to Black Brook Road, include industrial properties, flood plain zones, agricultural properties, ponds, and wooded undeveloped properties. The properties include the Renewable Resource Park, the Seneca Meadows Wetlands Preserve, and undeveloped wooded property and agricultural-use property fronting Black Brook Road, which are holdings of Seneca Meadows. The RRP is the site of the Aria Energy Corporation Gas-to-Energy facility and High BTU facility. The industrial properties and other properties provide a noise buffer between the landfill and the residential properties, which are located along Black Brook Road approximately 6000 feet east of the landfill boundary. The depth of woods ranges from approximately 500 feet to 1000 feet. The sound attenuation due to distance from the Stage 5 and SMI overlay landfill area and Stages 7 and 8 landfill area is estimated at 30 dBA or more. The additional sound attenuation from the vegetative screening is estimated at 10 dBA. Noise screening by the NEX landfill berm is estimated at 20 dBA. The sound levels received along Black Brook Road from landfill activities were inaudible, and are projected to be below the local ambient levels due to the combined distance and screening attenuation factors.

Location 5 represents residential-use properties along the western boundary of the landfill, which are located on both sides of Burgess Road in a suburban grouping of residences to the northwest of the original SMI landfill. The properties are contained in a Low-Density Residential zoning district in the Town of Waterloo. A number of properties on each side of the road in the residential grouping are current holdings of SMI.

Survey Location 6 represents residentially-authorized properties along the western boundary of the landfill along the WEX landfill berm, including two current residential-use properties on the east side of Burgess Road. The properties between the western boundary of the landfill and the residences are extensively used for agricultural purposes. Property on the west side of Burgess Road opposite Location 6 is a holding of SMI and was previously used for agricultural purposes but was not in farming use during the surveys. The properties along Burgess Road are contained in a Low-Density Residential zoning district in the Town of Waterloo. Further west of Burgess Road opposite Location 6 is the Meadow View soil mine and various retention ponds, which are Village of Waterloo properties controlled by SMI.

Survey Location 7 represents residentially-authorized properties at the southwest corner of the landfill holdings, including several current and former residential-use properties located on the east side of Burgess Road, which largely are holdings of SMI, and undeveloped wooded land on the west side of Burgess Road and on the south side of Salcman Road, which are holdings of SMI. Other nearby properties include the entrance to the Meadow View Mine, and the North Seneca Ambulance company, which is located on property southwest of the survey location at the intersection of North Road and Burgess Road. The properties are contained in a Moderate-Density Residential zoning in the Town of Waterloo. The nearest residence to the west of the survey location is located approximately 1200 feet

west of Burgess Road in the Town of Waterloo. The sound levels at the residence are estimated to be 10 dBA lower with respect to levels measured at survey Location 7 due to the added distance from the Stage 6 landfill area and the Salcman Road materials storage area.

Survey Locations 8 and 9 represent residential-use properties along the south boundary of the landfill property holdings on the north and south sides of North Road. Properties on the north side of North Road are located in the Moderate-Density Residential zoning district of the Town of Waterloo. Several of the surrounding properties that include residences and wooded areas are holdings of SMI. Properties on the south side of North Road are located in the Village of Waterloo. Other properties along the south boundaries of the landfill property include bus transportation facilities for the Town of Waterloo school district and the Seneca County Fairgrounds and an adjoining parking lot. The fair grounds were not in use during the surveys. There was occasional traffic on the road leading to the Waterloo bus garage and occasional traffic of landfill employees leading to the landfill. Survey Location 9 is on the boundary of an undeveloped SMI property. Survey Location 8 is at the boundary opposite residential properties west of the North Road grade crossing of the Finger Lakes Railway. Approximately two to three trains crossed the grade daily during the survey period, as identified on the logging records.

Survey Location 10 represents agricultural-use properties that are residentially-zoned, located along the western boundary of the landfill adjacent to the Stage 5 and SMI overlay landfill area. Properties on the east side of Burgess Road are contained in Low-Density Residential zoning in the Town of Waterloo. The adjoining properties between the landfill's western boundary and Burgess Road do not contain residences, and have previously been used for agricultural purposes although were not being farmed or used for grazing during the surveys. Properties on the west side of Burgess Road are contained in Low-Density Residential zoning in the Town of Waterloo, and include a former residential-use property that is vacant except for a storage building, and buffer properties to the north of the Meadow View Mine, which are current holdings of SMI, and a number of undeveloped wooded properties. North of the survey location on the east side of Burgess Road are a number of properties owned by SMI.

Properties to the southeast of the facility in the vicinity of the intersection of North Road and Route 414 include the Seneca County Offices, Wal-Mart Super Center, Advanced Auto, Generations Bank, Hampton Inn, and other commercial operations. The properties are included in a Highway Commercial zoning district in the Town of Seneca Falls and in the Village of Waterloo. The Finger Lakes Railway borders a portion of the landfill's south boundary. The properties are contained in a Highway Commercial zoning district in the Town of Seneca Falls and in the Village of Waterloo. The properties do not contain any residences and were not represented in the property line sound surveys.

The north boundary of the landfill holdings adjoin undeveloped wooded properties that are zoned Agricultural. The properties do not contain any permanent residences and were not represented in the property line sound surveys. The wooded properties provide a noise buffer between the landfill and the

residential properties located along Strong Road approximately 8500 feet north of the active Stage 6 landfill area. The depth of woods is approximately 4800 feet deep. The sound attenuation due to distance from the active Stage 6 landfill area is estimated at over 30 dBA. The additional sound attenuation from the vegetative screening is estimated at 10 dBA. The additional sound attenuation from the SMI berm is estimated at 10 to 20 dBA. The sound levels received beyond the north boundary from waste placement activities at Stage 5 and at Stages 7 and 8 are projected to be below the local ambient levels with the combined distance and screening attenuation factors. The Sherman Compressor Facility is located on a remote private parcel near the northern property boundary of the landfill property holdings.

The sound surveys and assessments for the Seneca Meadows Landfill operations reference the suburban community character to evaluate the acceptability of noise levels received at the boundaries of the landfill adjoining residential-use properties. The noise level limits described in Section 360-1.19(j) of the 6 NYCRR Part 360 regulations for the suburban community are 62 dBA L_{eq} in daytime hours (7:00 a.m. to 10:00 p.m.) and 52 dBA L_{eq} in nighttime hours (10:00 p.m. to 7:00 a.m.). The suburban character has been used in previous annual sound surveys and has determined to be the most appropriate community designation based on the character and density of the residential-use properties, the character of the commercial and industrial facilities to the north and south and their ongoing and planned growth, and the volume and growth of highway and rail traffic on adjoining facilities, between Route 90 to the north and Routes 5 and 20 to the south of the landfill. The suburban designation characterizes residential properties in the Low-Density and Moderate Density Residential zones and Highway Commercial zones, the commercial and industrial development at the intersection of Route 414, North Road, and Balsey Road that includes include the Wal-Mart Super Center, Hampton Inn, Advance Auto Parts, and Generations Bank, and the commercial and industrial development at the intersection of Routes 318 and 414 that includes multiple filling stations, truck centers, convenience stores, restaurants, a fire station, a car dealership, and planned developments.

The volume of traffic on State Route 414 opposite the landfill is listed in the most recently published NYSDOT AADT traffic data at 6711 for the year 2019. This value is consistent with AADT traffic counts of 6769 for the year 2018, and 6759 for the year 2017. These counts represent growth from previous years based on counts of 5905 for the year 2016, 5605 for the year 2015, 5632 for the year 2014, 5783 for the year 2013, 6020 for the year 2012, 5710 for the year 2011, 5690 for the year 2010, 5570 for the year 2009, and 5570 for the year 2008.

The volume of traffic on the on the segment of North Road bordering the south boundary of the landfill from Route 414 to Burgess Road is listed in current NYSDOT traffic data with an AADT of 4962 for the year 2020. This may be a temporary reduction compared to past volumes of 6532 for the year 2019, 6576 for the year 2016, and 6602 for the year 2015. These volumes show growth compared to volumes of 6154 for the year 2014, 5929 for the year 2011, and 5347 for the year 2009.

The volumes of traffic on the segment of North Road from Burgess Road to Route 96 are listed with relatively consistent AADT volumes of 5354 for the year 2019, 5368 for the year 2018, 5511 for the year 2016, 5735 for the year 2015, 5709 for the year 2014, and 5770 for the year 2009.

The standard sound level limits and alternate background noise level limits specified in 6 NYCRR Part 360 Section 360-1.19(j) for the suburban community were referenced to evaluate the acceptability of sound levels at each of the noise monitoring locations. The standard daytime and nighttime limits were applied to residential-use properties adjoining the south and west boundaries of the facility, and remotely east. The background noise levels are referenced at locations directly along the east boundary.

The logging and sampling sound surveys determined the daytime 62 dBA L_{eq} criterion was exceeded in a majority of the daytime records obtained at Location 1 and in portions of the records at Locations 2 and 3 prominently along the east boundary due to accelerating and decelerating traffic and flowing traffic. Compliance was determined by evaluating the sound levels in comparison to background noise levels at Location 3 that exclude contributions of facility sources and referencing the perceptibility and potential contributions of facility noise at the three highway corridor locations.

The surveys determined the standard daytime sound level limit was not exceeded in the records obtained at Location 4 along the east boundary.

The surveys determined the daytime sound level limit was not exceeded in the records obtained at Locations 5 to 10 along the south and west boundaries due to facility operations. Limited measurement exceptions at Location 8 are attributed to periodic train pass-bys.

The sound surveys determined the average nighttime sound levels measured at Locations 1 to 4 exceeded the nighttime 52 dBA L_{eq} criterion due to highway traffic noise and other environmental noise contributions.

The nighttime sound levels measured at Locations 5 to 10 conformed to the nighttime criterion with a limited number of exceptions that are attributed to highway traffic or environmental sources.

The background noise is defined in Section 360-1.19(j)(2) of the 6 NYCRR Part 360 regulations to comprise the ambient noise levels that exclude facility noise contributions. The ambient sound sources either dominated the measurements or contributed to the measurements, and in a number of cases are attributed to causing noise exceedances in daytime and nighttime hours. The daytime noise levels obtained during hours of facility operation are typically dominated by traffic volumes on Route 414, North Road, and Burgess Road. The daytime environmental background sound sources that in part contribute to the noise levels and generate exceptions include noisy vehicle pass-bys, train pass-bys along the south boundary, industrial facilities, and birds, insects, amphibians, and wind in wooded areas on

each side of the facility.

Part 360 subparagraph 360-1.19(j)(1) states that sound levels that do not exceed the background noise levels by more than three decibels are acceptable. The measurements determined that sounds of landfill equipment and operations are imperceptible at Locations 1, 3, and 4 and are imperceptible or largely imperceptible at Location 2, and do not significantly contribute to or increase the measured background sound levels.

The acceptability of the measured received daytime sound levels at survey Locations 5 to 10 and at remote locations that comprise background traffic and environmental noise with occasional sounds of facility operations, are determined in comparison to the standard daytime sound level limit of the Part 360 regulations. The nighttime background noise levels at each survey location were determined to be generated by combined traffic and environmental sources, with sounds of industrial sources and train pass-bys contributing at certain locations. The acceptability of the measured received nighttime sound levels are determined in comparison to the standard nighttime sound level limit of the Part 360 regulations.

The 6 NYCRR Part 360 regulations define requirements for sound level instrumentation in Subparagraphs 360-1.19(j)(3) and 360-1.19(j)(4). The sections specify measurements to be made with Type 1 or Class 1 precision sound level meters, Type 2 or Class 2 general purpose sound level meters, or Type S1A or S2A special purpose sound level meters, in terms of L_{eq} with settings of A-weighting and slow time response. Sampling sound level measurements were obtained with a Type 1 sound level meter which conforms to specifications of ANSI/ASA S1.4-2014/Part 1 / IEC 61672:1-2013. Logging sound level measurements were obtained with Type 2 sound level meters which conform to specifications of ANSI S1.4-1983. The meters were periodically calibrated with acoustical calibrators which conform to specifications of ANSI/ASA S1.40-2006 (R2016).

3.0 Noise Measurement Surveys

Sound levels were monitored along the boundaries of the Seneca Meadows, Inc. landfill facility to assess compliance of received facility noise levels during the year 2021 in accord with the landfill's approved Environmental Monitoring Plan. Noise measurements and assessments were performed in accord with the operational requirements section of the 6 NYCRR Part 360 *Regulations for Solid Waste Management Facilities* of November 2017 by the New York State Department of Environmental Conservation. The operational requirements stipulate that noise levels received beyond the landfill property lines at properties used or authorized for residential purposes that are produced by equipment or operations at the landfill not exceed designated sound level limits. The sound level limits are described in terms of the *energy equivalent sound level* referenced to a one-hour averaging period, designated ($L_{eq\text{-}1\,hr}$), and are defined by the character of the community (rural, suburban, and urban), and by the period of the day (daytime, nighttime).

3.1 Noise Assessment Methodology

The measured sound levels of landfill operations received at survey locations adjoining residentially-authorized properties were assessed for acceptability in comparison to the daytime and nighttime sound level limits specified for the suburban community character that are contained in 6 NYCRR Part 360 Section 360.1.19(j). The assessments of noise acceptability at the receiver boundaries reference the permissible sound level limits specified for the suburban community designation, which was determined appropriate based on the character and density of the residential communities along the borders, the zoning classifications, the extent of commercial and industrial development around the site, the extent of planned development around the site, and the volume and growth of traffic on the adjoining highways and roadways. At three survey locations on the east boundary where the existing background noise levels were found to exceed the standard sound level limits, assessments of noise acceptability are based on comparisons of the measured sound levels to the background sound levels in accord with Section 360.1.19(j)(1), and by assessments of the perceived audibility and potential contributions of sounds of landfill operations.

Sound level logging and sampling surveys were performed at ten representative locations on the boundaries of the facility adjoining properties zoned or authorized for residential use. Sampling surveys were additionally performed at two community locations. The survey locations represent current residential-use properties which contain residences, former residential-use properties without residences, a former residential-use property with residence converted to offices, and properties within residentially-authorized districts that are currently undeveloped or used for agricultural purposes. The noise environment was characterized at each survey location over a five-day period of weekday operations. The boundary sound survey location used as points of compliance are described in Figure 2 as Locations 1 through 10.

The sound surveys determined the noise environment around the SMI facility is dominated by ambient noise generated by traffic on adjoining highways, by nearby industrial sources, by train traffic, and by environmental sources. The environmental sources included calling birds, insects, and amphibians, and wind across vegetation. The traffic, industrial, and environmental sound sources contributed to, or highly influenced, the measured noise levels at each survey location in daytime hours. The background sources dominated the noise levels along the wooded boundaries of the landfill facility in both daytime and nighttime hours. Industrial sources that contributed to the ambient noise environment along the eastern boundary included the Aria Energy Corporation gas-to-energy facility and a gas compressor station located north of the landfill near Location 4. The Meadow View soil mine to the west of the landfill was in partial operation during the survey period.

The eastern boundary of the landfill facility along State Route 414 in the Town of Seneca Falls adjoins a number of business-use properties contained in properties zoned Industrial (M-1), and a number of former residential-use properties, a small number of current residential-use properties, and undeveloped wooded areas, which are contained in properties zoned Highway Commercial (C-2) and Agricultural (A-2).

Survey Locations 1 and 2 characterize former residential-use properties opposite the SELF and NEX (Stages 7 and 8) landfill berms. The former residential-use properties are current holdings of SMI and do not contain occupied residences. One previous property includes a former residence that is used as the office for landfill construction operations, which was previously used as a highway construction office and a mill shop. The dominant source of noise at the locations is highway traffic on Route 414, with decelerating and accelerating vehicles. The survey locations are also in the vicinity of the Aria Energy Corporation gas-to-energy plant and High BTU plant, located on the east side of Route 414 in an industrial park that is a property holding of SMI. The gas to energy facilities were in full production during the sound surveys. Sounds of the AEC facilities were partly perceptible at Locations 1 and 2 in daytime hours between traffic passes, and were perceptible in the daytime-evening and nighttime period after the normal hours of landfill operation when highway traffic volumes were reduced. Sounds of landfill operations at Stage 5 and the SMI overlay and at Stages 7 and 8 were not perceptible at Locations 1 and 2 due to the screening of the SELF and NEX berms, and did not contribute to the measured noise levels. Sounds of final cover operations on the plateau and along the upper eastern edge of the NEX berm and associated soil truck traffic on the upper access road were faintly perceptible at Location 2 between traffic pass-bys, but did not significantly contribute to the measured noise levels at Location 2.

Sounds of street sweeping along the highway shoulders and on the site entrance were minimally perceptible during pass-bys at Locations 1 and 2 but did not significantly contribute to measured sound levels and were not distinguishable at other survey locations.

Survey Location 3 represents residentially-authorized properties to the east of the original SMI landfill, including one current residence on the east side of Route 414, one former residential-use property on the west side of the highway, and surrounding wooded undeveloped properties that are holdings of SMI. Other properties near Location 3 contain commercial facilities, including a private automobile repair facility, the Seneca Meadows Environmental Education Center, and the Exxon Mobil Oil Pipeline facility. The commercial-industrial facilities did not produce perceptible noise or add significant traffic in the vicinity of Location 3 during the survey period. The dominant source of noise at Location 3 is traffic on Route 414. Environmental sources of sound that contribute to the measured sound levels include calling birds and insects, and wind across vegetation. Sounds of landfill waste placement and cover operations were not perceptible at Location 3 due to distance and the screening of the NEX and SMI berms, and did not contribute to the measured noise levels.

Survey Location 4 represents residentially-authorized properties to the northeast of the original SMI landfill, including one current residential-use property on the west side of Route 414, two current residential-use properties on the east side of the highway that contain two residences, and undeveloped wooded properties and agricultural-use properties on both sides of the highway that are property holdings of SMI. Other properties near Location 4 contain commercial facilities, including a commercial graphics facility, an automobile auction facility, and a truck repair facility on the west side of Route 414 . The commercial facilities did produce perceptible noise or add significant traffic in the vicinity of Location 4 during the survey period. The Sherman Compressor Station is located north of the location, and produced steady noise that was perceptible in the daytime between traffic passes, and in daytime-evening hours and in nighttime hours when highway traffic volumes on Route 414 were reduced. Free-flowing traffic on Route 414 is the dominant source of noise at Location 4. Other sources of sound were environmental, including calling birds, insects, and amphibians, and wind across vegetation. Farming activities were not observed at the adjoining agricultural property during the sound survey period. Sounds of landfill waste placement and cover operations were not perceptible at Location 4 due to distance and the screening of the NEX and SMI berms, and did not contribute to the measured noise levels.

The sound surveys and observations at survey Locations 1, 2, and 3 characterized the noise levels from highway traffic on Route 414, which caused the measured background noise levels to exceed the Part 360 standard 62 dBA L_{eq} daytime criterion during the daytime operational periods of the landfill. The sound surveys further identified the sound levels at Locations 1, which included added traffic noise from vehicle acceleration and deceleration in the vicinity of the signalized intersection at the landfill driveway, including uses of jake brakes.

The average sound levels measured at Location 3 represent the background sound levels from traffic on Route 414. In comparison, the average sound levels measured at Location 2 which at times included soil cover activities on the plateau and sides of the NEX berm were determined to equal the background sound levels, and accordingly, the facility operations did not significantly contribute to, or increase, the measured sound levels at Location 2. Up to a 3 dBA increase would be acceptable, as described in the alternate criterion section of regulations Section 360.1.19(j)(1). The assessments of sound levels at Location 2 are based both on the hourly-average sound levels and the relative perceptibility of sounds of cover operations.

The nighttime sound surveys at Locations 1 to 4 characterized the contributions of traffic, environmental, and industrial sound sources to the nighttime background sound levels, which consistently exceed the standard 52 dBA L_{eq} criterion. Landfill sources were not in operation or were not perceptible in nighttime hours.

Properties located east of Route 414 to the east of the highway commercial corridor include a number of densely wooded undeveloped or agricultural properties owned by SMI. These include the Seneca Meadows Wetland Preserve, which is contained on property zoned Agricultural (A-2) and Flood Plain Protection (FP). The properties function as buffer lands to separate the landfill from residential properties further to the east that are located along Black Brook Road approximately 6000 feet east of Route 414. The sounds of the landfill facility were not perceptible along Black Brook Road during the surveys due to the attenuation of the intervening wooded lands, the large attenuation due to distance, and the masking effects of local environmental noise and traffic on Black Brook Road and State Route 414. Modeling calculations were performed and determined the facility sound levels do not exceed the Part 360 daytime sound level limit at residences along Black Brook Road. Sampling sound surveys were obtained at two locations along Black Brook Road to represent residential properties, and characterized the sound levels from local traffic and environmental sources. the surveys determined sounds of landfill operations were not perceptible at the locations, and the sampled sound levels did not exceed the Part 360 daytime sound level limit.

Properties located on the east side of Route 414 to the south of survey Location 1 are contained in Highway Commercial and Industrial zoning districts. The properties include a number of commercial businesses and industrial facilities, including bottling and packaging facilities, a coatings facility, self-storage facilities, and an auto parts retail store. Properties located on the west side of Route 414 and along North Road in the vicinity of the intersection of North Road and Balsey Road at the southeast corner of the landfill facility contain a number of commercial businesses including a welding facility, an automotive service facility, an automotive parts store, and a bank.

The western boundary of the facility adjoins residential-use properties on both sides of Burgess Road in districts zoned Low-Density Residential (R1) in the Town of Waterloo. Survey Location 5 represents a grouping of residential-use properties located northwest of the original SMI landfill, which contain suburban-style residences and mobile homes. The properties are separated from the landfill by densely wooded property on the west and north sides of the SMI landfill. Other properties represented by Location 5 to the south of the survey location along the east and west sides of Burgess Road are zoned Low-Density Residential and include densely wooded and undeveloped properties, including undeveloped holdings of SMI. The prominent sources of sound at Location 5 are environmental sources, including calling birds, insects, and amphibians along Black Brook, and local traffic on Burgess Road and distant traffic on Route 414. Sounds of landfill operations at Stage 5 and the SMI overlay were only occasionally faintly perceptible at Survey Location 5. The landfill operations did not significantly contribute to the measured sound levels. Conclusions regarding sound level acceptability at Location 5 are based referencing the standard permissible sound level limits of 6 NYCRR Part 360 Section 360.1.19(j).

Survey Location 6 represents property on the east side of Burgess Road adjoining the Western Expansion Landfill (WEX) that are zoned Low-Density Residential , which includes current agricultural-use parcels that contain two residences. Other properties on the west side of Burgess Road are zoned agricultural and are holdings of SMI. Further west are properties of the Village of Waterloo that are zoned agricultural and which include the Meadow View Mine. Sounds of landfill operations at Stage 5 and the SMI overlay and at Stages 7 and 8 were faintly to partly perceptible and were not significant. The background sources of sound at Location 6 dominated the sound levels due to traffic on Burgess Road, calling birds and insects, and wind across vegetation. Conclusions regarding sound level acceptability at Location 6 are based referencing the permissible sound level limits of 6 NYCRR Part 360 Section 360.1.19(j).

Survey Location 7 represents residentially-use properties at the southwest corner of the landfill facility on the east side of Burgess Road at the intersection of Salcman Road, which are zoned Moderate Density Residential (R2) in the Town of Waterloo. The represented properties include five residences on the east side of the Burgess Road south of the intersection, of which four are owned by SMI. The represented properties include two former residential-use properties located on the east side of Burgess Road north of the intersection, which are owned by SMI and are without residences. Properties on the west side of Burgess Road opposite Location 7 are zoned agricultural. The properties include a parcel previously used for agricultural purposes that was fallow during the sound surveys and undeveloped property, which are holdings of SMI. The location also represents the entrance to the Meadow View Mine. Sources of landfill sound that were partly perceptible included mine truck traffic on west Salcman Road, waste vehicle traffic on east Salcman Road, and sounds of material unloading and handling in the materials storage areas to the south of

Salcman Road. Environmental sources of sound at Location 7 consisted of traffic on North and Burgess Roads, calling birds, insects, and amphibians in a retention pond, and wind across trees and vegetation. Conclusions regarding sound level acceptability at Location 7 are based referencing the permissible sound level limits of 6 NYCRR Part 360 Section 360.1.19(j).

Survey Locations 8 and 9 represent residential-use properties bordering the southern boundaries of the landfill along the north side of North Road, which are located in the Town of Waterloo and are zoned Moderate Density Residential (R2). The properties include a number of residences, small business operations, and undeveloped property owned by SMI, contained in a suburban grouping between the grade crossing of the Finger Lakes Railway and the intersection of Inslee Street. The locations also represent a residentially-zone property with residence owned by SMI, and a parking area owned by Seneca County Agricultural Society. Other nearby non-residential properties include unzoned property annexed by the Village of Waterloo between Salcman Road and North Road that contains the transportation facilities for the Waterloo Central School District, and property in Industrial (I) zoning owned by SMI, which do not contain residences. Properties along the south side of North Road opposite the landfill property holdings include a small number of residential located in the Village of Waterloo, and the Seneca County Fairgrounds between Inslee Road and Swift Street located in the Village of Seneca Falls. Sources of landfill sound that were partly perceptible at Locations 8 and 9 included mine truck traffic on west Salcman Road, waste vehicle traffic on east Salcman Road, truck traffic from the tire facility, sounds of material unloading and handling in the materials storage areas South of Salcman Road, and occasional water truck filling at the south retention pond. Tire sorting and processing at the tire processing facility on Salcman Road were not distinguishable. Environmental sources of sound at Locations 8 and 9 consisted of traffic on North and Burgess Roads, calling birds and insects, and wind across trees and vegetation. Periodic daily train passes with horns at the North Road grade crossing influenced readings at Location 8. Conclusions regarding sound level acceptability at Locations 8 and 9 are based referencing the permissible sound level limits of 6 NYCRR Part 360 Section 360.1.19(j).

The southern boundary of the landfill to the east of the railroad grade crossing on North Road adjoins the Finger Lakes Railway and commercial properties zoned Highway Commercial (C-2) in the Town of Seneca Falls, which contain a bank, auto parts store, and a church, and other properties that are wooded and undeveloped. Sound levels were not measured or characterized at the commercial properties at the southeast corner of the facility.

Survey Location 10 represents agricultural property, and undeveloped wooded property owned by SMI, on the east side of Burgess Road opposite the Stage 5 and the SMI overlay landfill area. The properties are

contained in Low-Density Residential (R1) zoning in the Town of Waterloo. The location further represents undeveloped wooded properties and agricultural zoned properties on the west side of Burgess Road, including a former residential-use property and other undeveloped property owned by SMI. The adjoining agricultural parcel was not used agriculturally during the sound surveys. Sounds of landfill waste placement operations at Stage 5 and the SMI overlay were largely screened by the Stage 6 berm and were only partly perceptible. Conclusions regarding sound level acceptability at Location 10 are based referencing the permissible sound level limits of 6 NYCRR Part 360 Section 360.1.19(j).

Sampling surveys were performed along Black Brook Road opposite the parking entrance to the Seneca Meadows Wetlands Area and at Clinton Street. The locations represent groupings of residences east of the landfill on Black Brook Road contained in Agricultural (A-2) zoning in the town of Seneca Falls.

The sound surveys representing operations for the year 2021 at Seneca Meadows were scheduled during the seasonal peak period of landfill waste placement operations, site maintenance operations, and construction activities. The volumes of material receipts are considered to be consistent with peak periods of past operating seasons based on SMI operational records. The survey period further coincided with the seasonal peak period for traffic on surrounding highways. The surveys therefore represent the maximum hourly-average noise levels received along the facility boundaries in the 2021 season. The monitoring period also corresponds to the period when the surrounding community residents might be outdoors and most sensitive to received noise. Evaluations of the acceptability of the received noise were based on criteria contained in the 6 NYCRR Part 360 Solid Waste Management Facilities Regulations, in effect November 4, 2017.

The sound levels measured at one or more at locations on the borders of the landfill included contributions of ongoing construction activities in the Stage 5 and SMI overlay area, and contributions of final soil cover operations at the Stages 7 and 8 area. The observed activities consisted of excavation and transport of soils at the lower Stage 5 area, transport and placement of cover materials on the upper SMI over liner, and transport and placement of soils on the plateau and upper east side of the NEX berm. NYSDEC rulings have affirmed that the Part 360 noise regulations pertain to landfill facility operations and exclude construction activities. Due to the combined operations of waste placement and construction activities, it was not practical to separately identify and exclude the contributions of construction noise from measurements of landfill operations.

Noise measurements and assessments reported herein were performed exclusively and independently by Aurora Acoustical Consultants Inc. of East Aurora, New York. The noise assessment procedures and survey locations used in the year 2021 correspond to those employed in previous annual sound surveys that were

performed by the consultant.

Sound level monitoring was performed continuously at representative locations on the landfill property lines through a consecutive five-day period beginning on the morning of Monday, August 2, 2021 and continued through the evening of Friday, August 6, 2021. The sound level monitors continuously logged and identified the sound levels throughout daytime and nighttime by fifteen minute averaging periods, which were extrapolated to one-hour average sound levels. Sampling sound surveys were performed at each of the survey locations and at two community locations along Burgess Road on Monday and Friday of the survey week, to additionally characterize the facility sound and ambient sound levels and to identify contributing sound sources. The sampling surveys were performed in two time periods during waste operations and in one background period after normal hours of waste acceptance.

The landfill waste acceptance and placement operations, site maintenance operations, and construction activities were relatively consistent on each day of the survey period, with a moderate peak of receipts on Wednesday, referencing the logs of hourly and daily volumes of materials and numbers of vehicle loads, and operating equipment logs. The hourly number of received loads of external DEC waste materials was fairly uniform throughout the day with peak periods near the start of each day and decreases in receipts after 2:00 p.m. The weekday daily total of DEC waste trucks ranged from 437 to 487. Internal transfers of DEC materials were fairly low and uniform in number by hour.

The hourly number of received loads of external cover fill materials was fairly uniform throughout the day. The daily total of weekday fill trucks ranged from 29 to 46.

The hourly number of received loads of external BUD materials was fairly uniform with peak periods typically before 9:00 a.m. The daily total of weekday BUD trucks ranged from 27 to 59. Internal transfers of BUD materials were fairly low and uniform in number by hour.

The hourly number of loads of external tire acceptance were occasional and variable on each day. The total daily number of tire loads ranged from 5 to 13 on each weekday.

The total number of internal and external trucks was fairly uniform on each day, ranging from 611 to 663.

The sound level loggers and analyzers used to monitor and sample the noise levels are identified in Appendix A to this survey report, along with the acoustic calibrators used to field calibrate the instruments. The noise loggers used to continuously monitor the noise consisted of Metrosonics, Inc. model db3080 sound level analyzers. The loggers conform to requirements for Type 2 sound level meters established in American

National Standard ANSI S1.4-1983(R2006) with Amendment S1.4A-1985 (R2006). The sound level loggers were calibrated using a Metrosonics model cl304 acoustic calibrator having performance characteristics conforming to ANSI Standard S1.40-2006 (R2016) with an acoustical output signal that is traceable to the National Institute of Standards and Technology. The logging instruments were sealed in steel boxes for purposes of security, which were weatherproof . The enclosures were externally sealed and waterproofed to further prevent effects of humidity and moisture on the loggers. The microphones were extended from the enclosures on extension poles to provide free-field measurements with minimal screening and reflection effects of the enclosures and poles. The microphones were covered with weatherproofed windscreens to minimize noise artifacts from wind and to minimize effects of moisture on the microphone cartridges. The loggers were secured to utility poles and trees on the boundaries of the SMI property holdings in locations that prevented intentional tampering and generation of noise artifacts by the public.

The noise loggers were programmed to continuously sample the instantaneous sound levels and record the average L_{eq} noise levels in consecutive fifteen minute periods ($L_{eq\text{-}15\,min}$). The fifteen-minute durations were used to obtain detailed data for identifying the presence of sporadic noise artifacts or unusual noise events, such as passes of noisy vehicles or trains. The data were processed into one-hour averages ($L_{eq\text{-}1\,hr}$) to allow direct comparison to the hourly-average sound level criteria of the Part 360 regulations. The complete logging data and graphical time histories of the average sound levels for each survey location are included on Appendix B to this report. The logging data describes both the $L_{eq\text{-}15\,min}$ and $L_{eq\text{-}1\,hr}$ average daytime and nighttime sound levels, and identifies peaks generated by rain events on Wednesday of the survey week and sporadic peaks that are attributed to train passes or noisy traffic. The $L_{eq\text{-}1\,hr}$ average noise level data obtained from the logging at each survey location are summarized in Table 1.

The noise loggers recorded additional sound level metrics, which are reported in the tabular record data, including the maximum A-weighted levels with slow time response, and statistical sound levels L_{10} and L_{99}, the latter which corresponds to the minimum sound level. The added metrics are not specifically used in determining compliance in accordance with noise requirements of the NYSDEC regulations. The added metrics were useful for characterizing the range of environmental sound levels at each location, including identifying the presence of artifacts in a sample period, in particular those generated at the start and ending of logging during the initiation and retrieval of the instruments. Artifacts generated by the surveyor during the installation and retrieval of the loggers in the starting and ending $L_{eq\text{-}15\,min}$ averages were excluded from the calculated $L_{eq\text{-}1\,hr}$ average sound levels.

Landfill sound sources were identified and characterized during the survey period with sampling surveys performed with the portable sound level analyzer. The surveys provide additional noise data and verify the

data obtained by the continuous noise loggers. The surveys were performed in representative time periods on the initial day of logging and on the last day of logging. On each day the sampling surveys were performed during two daytime periods coinciding with normal landfill operating hours, and in periods after the hours of normal waste acceptance. Sampling at each location occurred over a portion of an hour sufficiently long to characterize a one-hour sound level average as defined in the Part 360 regulations. The portable survey instrumentation included a Larson Davis model 831 sound level analyzer, which conforms to ANSI requirements for Class 1 (precision) sound level meters defined in ANSI/ASA S1.4-2014/Part 1 / IEC 61672:1-2013. The sound level analyzer was programmed to record the L_{eq} sound level data in consecutive one-second periods to allow detail characterization of prominent sound sources. The sound level analyzer was calibrated before and after each series of measurements using a CEL model 284/2 acoustic calibration source, which has characteristics conforming to ANSI/ASA S1.40-2006 (R2016) and acoustical output signal that is traceable to the National Institute of Standards and Technology. The portable analyzer model numbers are listed in Appendix A. The sampling data from the portable analyzer for surveys on Monday are reported in Appendix C and for Friday are reported in Appendix D. The sampling sound level data are summarized in Table 2.

3.2 Selection of Survey Locations

The survey locations used to perform noise logging and sampling are described on the Seneca Meadows, Inc. zoning and property holdings plan shown in Figure 2. The following section describes the community around each location. The survey locations and adjoining properties are further described in aerial photographs and photographs obtained during the sound surveys.

Survey Location 1 was chosen to represent several former residential-use properties on the east side of Route 414, which adjoin the east boundary of the Southeast Landfill. The properties are contained in the Industrial and Highway Commercial zoning districts of the Town of Seneca Falls. The Renewable Resource Park borders the former residential-use properties to the east, which contains the Aria Energy Corporation gas-to-energy facility and High BTU facility, which were in continuous operation during the sound surveys. One former residential building remains on the property at number 2215 Route 414, which is currently used as the landfill construction office. The properties are holdings of SMI. The noise monitor was mounted to a power utility pole located on the eastern landfill boundary, 500 feet northeast of the construction office.

Noise levels received at survey Location 1 are predominantly generated by traffic on State Route 414, including sounds of vehicles accelerating and decelerating with jake brakes in the vicinity of Salcman Road. Sounds of landfill waste placement operations at Stage 5 and the SMI overlay and at Stages 7 and 8,

associated truck traffic operating at grade on the west side of the SELF, and cover operations and soil truck traffic operating on the upper east access road, were not audible at Location 1. The Aria Energy Corporation gas-to-energy plant includes a number of engine-generators that are enclosed in buildings, and outdoor enclosed flares. The Aria Energy High BTU plant contains processing equipment and compressors that convert the landfill gas to pipeline grade renewable natural gas. Operations of the gas-to-energy facilities were perceptible between daytime traffic and in daytime evening periods after the afternoon peak traffic period. Construction at the base of Stage 5 and on the SMI overlay were not perceptible at Location 1.

View to north of Location 1 with AEC facility and construction office on east of highway to right

View to south at Location 1 with construction office (former residence) on east side of highway to left

Aerial view of Location 1 at east boundary of SELF landfill,
opposite former residential-use properties on east side of Rt 414

Survey Location 2 represents former residential-use property and undeveloped property on the west side of State Route 414 adjacent to the eastern boundary opposite the NEX landfill area. The adjoining properties are holdings of SMI. The former residential property is the current site of the east retention ponds. A storage building exists but there are no residential buildings on the property. The noise logger was mounted to a utility pole on the eastern boundary adjacent to the eastern berm of the NEX landfill approximately 400 feet south of the entrance to the leachate storage facility.

Noise levels at survey Location 2 are dominated by traffic noise from State Route 414, including sounds of accelerating and decelerating vehicles and jake brakes. Waste placement activities at Stage 5 and the SMI overlay and at Stages 7 and 8 and associated waste truck traffic were not perceptible. Final cover operations on the plateau and upper east side of the NEX berm were occasionally faintly perceptible. Operations of the Aria Energy Corporation gas-to-energy facility were perceptible between traffic passes. Tanker trucks and employee vehicles were occasionally observed to enter and exit the nearby leachate facility entrance.

View to north of Location 2 with former residential-use and undeveloped property on east side of Rt 414, rt.

View to south of Location 2 with former residential-use properties and AEC facility on east side of Rt 414, left

Aerial view of Location 2 adjacent to NEX landfill, opposite former residential property

Survey Location 3 represents a current residential-use property located on the east side of Route 414, former residential use properties on the west side of Route 414, and undeveloped wooded property on both sides of the highway along to the eastern boundary of the landfill, opposite the northeast corner of the original SMI landfill. The properties are contained in the Highway Commercial zoning district in the Town of Seneca Falls. The noise monitor was located on the eastern boundary of the landfill at the site of a former residence at the edge of the wooded area. The survey location is approximately 300 feet south of the current residence on the east side of the highway, 350 feet south of an automobile repair facility on the west side of the highway, and 800 feet south of the former residential property on the west side of the highway. Noise levels at survey Location 3 were dominated by sounds of traffic on State Route 414. Sounds of landfill operations at Stage 5 and the SMI overlay and Stages 7 and 8 were not perceptible. Sounds of construction activities at Stage 5 and final cover operations at the NEX berm were not perceptible.

View to north at Location 3 toward residence on east side of highway to right.

View to south at Location 3 of undeveloped property on east side of highway to left and former residential-use property on west side of highway to right.

Aerial view of Location 3 opposite SMI landfill with residence to northeast, with commercial and former residential properties to north, and surrounding undeveloped properties

Survey Location 4 represents one residential-use property on the east side of Route 414, two residential-use properties on the east side of the highway, and undeveloped wooded and agricultural parcels located northeast of the original SMI landfill. The survey location is 300 feet south of a residence on the west side of the highway, and 500 feet north of two residences on a private road on the west side of the highway. A commercial graphics facility is located on adjacent property to the south. An automobile auction facility and commercial vehicle repair facility are located 800 feet south of the location. The properties on both sides of the highway are contained in the Highway Commercial zoning district in the Town of Seneca Falls, and are extensively owned by SMI. The survey location was adjacent to an open agricultural field on the west side of the highway, which is zoned Agricultural and owned by SMI. There were no farming activities on the field at the time of the surveys. The Sherman Compressor Station gas compressor facility is located approximately 1600 feet west-northwest of the survey location, which produced audible noise in the daytime between traffic and in hours after the afternoon peak traffic period. The noise levels measured at this location are due to traffic on Route 414 and environmental noise sources including calling birds, insects, and amphibians in wetland areas, and wind across vegetation and trees. Landfill operations and construction activities were not perceptible at Location 4.

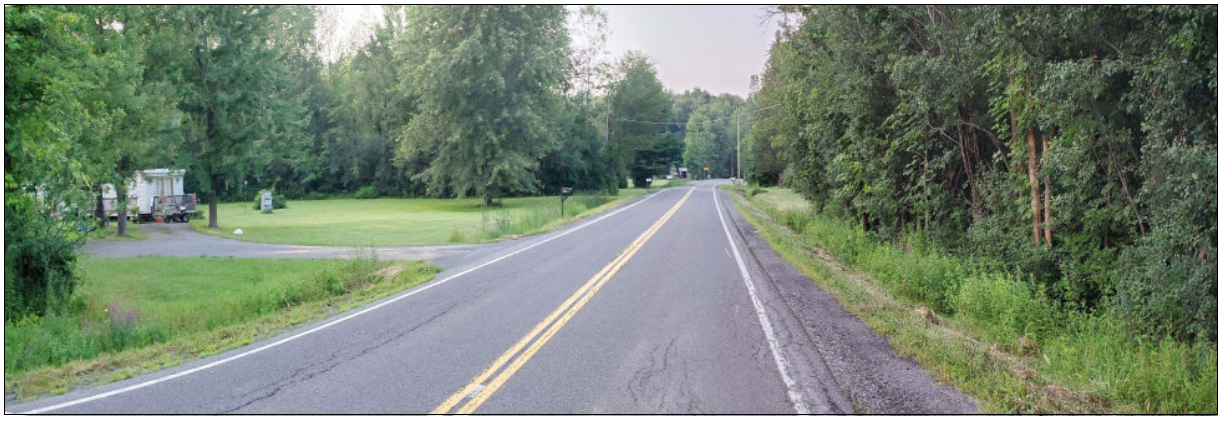
View to north from Location 4 (residence at left).

View to south from Location 4 with undeveloped property on east side of highway to left, and undeveloped property and commercial property on west side of highway to right.

Aerial view of Location 4 adjacent to residential-use properties to north and southeast

Noise survey Location 5 represents a number of residential properties on the western boundary of the landfill, northwest of the SMI landfill. The location describes a suburban grouping of homes located on both sides of Burgess Road contained in a Low-Density Residential district in the Town of Waterloo. The survey location was on the landfill property line at Black Brook, approximately 500 feet east of Burgess Road and 430 feet west of the access road at the northwest corner of the original SMI landfill. The environment noise at the location is characterized by environmental sounds consisting of birds, insects, amphibians, and wind in trees, and ambient sounds of traffic on Burgess Road and Route 414. Sounds of landfill operations at Stage 6 and and construction activities at Stage 5 and the SMI overlap were occasionally faintly perceptible at times. Sounds of landfill operations at Stages 7 and8 at NEX were not specifically discernible due to the attenuation provided by the intervening distance and vegetation and shielding provided by the SMI berm.

View of Burgess Road to north near Location 5.



View of Burgess Road to south near Location 5.

Aerial view of Location 5 on landfill boundary, adjoining suburban residential grouping

Survey Location 6 represents the western boundary of the landfill adjacent to the WEX landfill. The location adjoins an agricultural property between Burgess Road and WEX containing two residences, which are located in a Low-Density Residential zoning district in the Town of Waterloo. The residences front the east side of Burgess Road, and are located approximately 800 feet west of the WEX boundary. The noise logger was located on the property line of the landfill approximately 900 feet east of Burgess Road and 1200 feet north of Salcman Road. The location was exposed to noise of environmental sources and construction on the west side and base of Stage 6. Waste placement operations at Stage 5 and the SMI overlay were faintly perceptible. Waste placement operations at Stages 7 and 8 and construction and cover activities were not perceptible at the survey location, due to shielding of the WEX berm and the attenuation of the intervening distance. Truck traffic from the Meadow View soil mine to the west of Burgess Road was occasionally faintly perceptible at Location 6 during the sound surveys.

View from Location 6 to west across agricultural-use property with residential-use properties in background

View from Burgess Road opposite Location 6 to north, with residences and agricultural properties to east side.

Aerial view of Location 6 on west boundary adjoining residential and agricultural properties on east side of Burgess Road

Survey Location 7 represents residential-use properties on the western boundary of the landfill on the west side of Burgess Road, and was located approximately 190 feet east of Burgess Road and 90 feet north of Salcman Road. The properties are located in a Moderate-Density Residential district in the Town of Waterloo. Properties north of Salcman Road are vacant and owned by SMI. Five residential-use properties are located south of Salcman Road, of which four are owned by SMI. Landfill facility sources were faintly or partly perceptible and included truck traffic on Salcman Road, soil unloading and handling operations at the Salcman Road materials storage area. Waste placement and soil cover operations were not discernible due to distance and screening of the WEX berm. The Meadow View soil mine to the west of Burgess Road was in partial use during the sound surveys. Prominent background sound sources included traffic on Burgess Road and North Road and environmental sounds.

View from Burgess Road to north at Location 7 with former residential-use properties on east side of Burgess Road to right (owned by SMI), with undeveloped areas and Meadow View Mine Drive to left

View from Burgess Road to south at Location 7 with residential-use properties on east side of Burgess Road to left (owned by SMI), with undeveloped areas and Meadow View Mine Drive to right

Aerial view of Location 7 representing residential-use properties along east side of Burgess Road to south of Salcman Road, and former residential-use properties to north of Salcman Road

Survey Location 8 represents residential-use properties along the southern boundary of the landfill property between of the grade crossing of the Finger Lakes Railway on North Road and Inslee Street. The location was approximately 170 feet north of North Road representing the south boundary. Properties include a small number of residential-use and business-use properties on the north side of North Road in the Town of Waterloo in an area zoned Moderate-Density Residential, and a small number of residences located on the south side of North Road in the Village of Waterloo. Landfill sources that were faintly to partly perceptible included truck traffic on Salcman Road and from the tire facility, materials unloading and handling activities at the materials storage area, with occasional water truck loading. Landfill waste placement operations and cover operations were not discernible at the location due to distance and screening of the WEX berm. Prominent background sources included vehicle traffic on North Road, environmental sources, and periodic daily train pass-nys with horns at the grade crossing.

View from Location 8 to west along North Road with residential-use properties on both sides of road

View from Location 8 to east along North Road with undeveloped properties on north side of North Road (left) and commercial properties on south (right)

Aerial view of Location 8 showing residences along south boundary on both sides of North Road

Survey Location 9 represents residential-use properties along the south boundary of the landfill property on North Road in the vicinity of Inslee Street. The location was approximately 700 feet north of North Road and 300 feet east of the bus garage entrance along the south boundary. The nearest residence is located 460 feet to the southwest on the north side of North Road, on the west side of the entrance road to the bus garage and maintenance facility. The nearest residence to the south is 650 feet from the south boundary. Residential properties on the north side of North Road are located in a Moderate Density Residential zoning district in the Town of Waterloo. Residences on the south side of North Road are located in the Village of Waterloo. Non-residential properties include the Seneca County Fairgrounds and the Waterloo school bus facilities. Perceptible sources of sound include traffic on North Road, environmental sources, material unloading at the Salcman Road materials storage area, and truck traffic on Salcman Road. There was occasional vehicle traffic to the bus garage. There were no activities at the fair grounds during the surveys.

View from North Road to west opposite Location 9 with residences along North Road and fairgrounds to left.

View from North Road to east opposite Location 9 with residences along North Road and fairgrounds to right.

Aerial view of Location 9 adjacent to residential properties on North Road, with nearest residence to southwest on west side of bus garage entrance (owned by SMI)

Survey Location 10 represents the western boundary of the landfill opposite the Stage 5 and SMI overlay landfill. The boundary location was located 800 west of Burgess Road, adjoining agricultural fields on the east side of Burgess Road. The location represents a former residential-use property on the west side of Burgess Road approximately 950 feet west of the location, and other wooded undeveloped properties and agricultural-use properties that were not being farmed or grazed during the surveys. The former residential-use property on the west side of Burgess Road is owned by SMI. Properties on the east and west sides of Burgess Road are zoned Low-Density Residential in the Town of Waterloo. Landfill operations that are faintly to partly perceptible include waste placement and cover operations with compactors, bulldozers, and waste trucks. Sounds of construction at the base of the Stage 5 and SMI overlap and on the upper liner area combined with operations but could not be separately distinguished. Environmental sources consisted of calling birds and insects, wind in trees, and traffic on Burgess Road. Sounds of operations at the Meadow View Mine could not be perceived.

View from west boundary at Location 10 to west, with disused overgrown agricultural property on east side of Burgess Road.

View from Burgess Road opposite Location 10 to north with disused agricultural properties on east side of Burgess Road to right and undeveloped properties on west side of Burgess Road to left.

View from Burgess Road opposite Location 10 to south with former residential-use property on west side of Burgess Road with barn at right (owned by SMI).

Aerial view of Location 10 showing adjoining agricultural properties on east side of Burgess Road, with former residential-use and disused agricultural properties on west side of Burgess Road.

4.0 Measured Noise Levels and Regulations Compliance

Sound surveys and assessments characterized the levels and sources of noise received at facility boundaries and points of reception received during peak seasonal operations of the Seneca Meadows, Inc. landfill facility during the year 2021. The sound surveys identified the sound levels generated by the combination of landfill waste acceptance and placement operations, daily cover operations, tire processing operations, and site maintenance activities. The sound surveys characterized the noise environment along the property lines of the landfill adjoining properties that are zoned or otherwise authorized for residential purposes, in accord with the regulations. The survey locations represent properties contained in zoning districts designated Low-Density Residential (R1) and Moderate-Density Residential (R2) in the Town of Waterloo, and properties in zoning districts designated Highway Commercial (C-2) and Industrial (M-1) in the Town of Seneca Falls. The survey locations represent boundaries with properties with existing residences, former residential-use properties without residences, and properties zoned or authorized for residential use that are wooded, undeveloped, or otherwise used for agricultural purposes. The noise monitoring surveys and sampling sound surveys were performed at ten boundary locations adjoining residentially-authorized properties. The facility sound surveys were performed in accord with requirements of the 6 NYCRR Part 360 Section 360-1.19(j) landfill regulations, effective November 4, 2017. The sound levels received at one or more locations included the contributions of sounds of construction activities, including cell excavation and liner cover, and final cover operations. Because construction sources are excluded from compliance under the Part 360 regulations, the measured sound levels may be conservative.

The noise monitoring period was scheduled to characterize the annual peak period of waste acceptance and placement, site maintenance, recycling activities, and ongoing construction operations. The monitoring period further coincided with the seasonal peak period of traffic flows on the adjoining highways. The noise monitoring is therefore considered to represent the highest average noise emissions for the year 2021.

Noise level logging was performed with Metrosonics model db3080 noise level loggers, which were programmed to measure the received noise levels using A-weighting and slow metering response characteristics, in accord with the 6 NYCRR Part 360 Section 360-1.19(j) landfill regulations. Noise logging was performed continuously over the five-day weekday period from the morning of August 2, 2021 to the evening of Friday, August 6, 2021. The loggers computed and reported the average sound levels in consecutive fifteen-minute intervals ($L_{eq\text{-}15\,min}$) throughout the survey period in daytime and nighttime hours. The fifteen-minute sound level averages were processed into one-hour average sound levels ($L_{eq\text{-}1hr}$) for direct comparison to the hourly-average noise criteria contained in the Part 360 landfill regulations. The sound level loggers are rated Type 2 in accord with ANSI S1.4-1983 (R2006), which meets the instrumentation requirements of the Part 360 regulations. The measurements at each receptor location represent the

combined noise contributions of landfill operations, cover operations, maintenance activities, construction activities, and environmental and traffic background sources.

Table 1 summarizes the hourly-average sound levels, $L_{eq\text{-}1\ hr}$, obtained from continuous logging surveys at the ten monitoring locations on each survey day. Appendix B contains the detailed time history records of measured average sound levels ($L_{eq\text{-}15\,min}$) and the calculated hourly-average sound levels ($L_{eq\text{-}1\,hr}$) in graphical and tabular form for comparison to the sound level criteria. Sources of prominent noise peaks from environmental events, pass-bys of trains and traffic, and other uncharacteristic events are identified in the sound survey records in Appendix B. Readings of fifteen-minute averages that included artifacts generated by the surveyor during the setup and retrieval of the loggers were excluded from the calculations of the hourly-average sound levels.

Sampling sound surveys were performed at each of the boundary survey locations in three time or four periods on Monday and Friday during the logging period to confirm and supplement the logged noise level data. Additional sampling surveys were obtained at two community locations along Black Brook Road. The sampling surveys were performed for a portion of an hour at each location, which was determined to be sufficient to be representative of an hourly-average sound level ($L_{eq\text{-}1\ hr}$) as permitted in the 6 NYCRR Part 360 landfill regulations. The summary sound level data are presented in Table 2 for comparison to the continuously logged hourly-average sound levels summarized in Table 1 and presented in Appendix B. Sampling measurements were obtained with a Larson Davis model 831 sound level analyzer, which conforms to requirements of the current American instrument standard ANSI/ASA S1.4-2014/Part 1 / IEC 61672:1-2013 for a Class 1 sound level meter. The analyzer accordingly meets the instrumentation requirements of 6 NYCRR Part 360 Section 360-1.19(j). The sampling measurements characterized the operational noise levels received in two or three daytime periods on each day coinciding with normal hours of waste acceptance, and characterized the background noise levels received in one daytime period on each day after the hours of waste acceptance.

The acceptability of the sound levels received during landfill operations in the year 2021 is determined referencing the noise level limits contained in 6 NYCRR Part 360 Section 360-1.19(j) for the suburban community character. The regulation limits are 62 dBA ($L_{eq\text{-}1\ hr}$) in daytime hours from 7:00 a.m. to 10:00 p.m. and 52 dBA ($L_{eq\text{-}1\ hr}$) in nighttime hours from 10:00 p.m. to 7:00 a.m.

The sound surveys characterized noise levels generated by operations consisting of normal waste placement, compacting, and cover operations in two areas. Equipment used at waste placement areas of Stage 5 and the SMI overlay and Stages 7 and 8 included bulldozers, compactors, excavators, and trailer tippers. Waste truck traffic and soil cover trucks accessed Stage 5 from Salcman Road and traveled along the access road

on the west side of the SELF and NEX berms. Waste truck traffic and soil cover trucks entered the Stages 7 and 8 area from Salcman Road at the south end of the SELF berm and traveled across the berm plateau, and exited along the access road on the west side of the berm.

During the sound surveys, construction materials were being periodically unloaded at the materials storage area on the south side of Salcman Road from ten-wheel dump trucks, and were being processed with one or two front-end loaders.

Daily landfill facility operations included receipt, unloading, and processing of recycled tires at the tire facility on the south side of Salcman Road with two excavators with claw hooks. Processed tire materials were being loaded onto articulated trucks using the excavators for transport to cover areas.

Soil cover materials were being excavated from the SMI overlay area and from the Meadow View Mine by excavators and were loaded onto articulated soil trucks for transport to cover areas.

Landfill maintenance activities included periodic loading of leachate onto tanker trucks at the leachate storage facility, watering of access roads with an articulated water truck, and sweeping of Salcman Road and shoulders of the Route 414 highway with a sweeper truck. The water trucks were filled from a pump station at the south retention pond. Dewatering of certain areas was periodically performed with portable pumps. Bird chasing operations with pyrotechnics were occasionally observed during the surveys.

The sound levels measured at each receptor location were largely influenced or dominated by background noise produced by roadway traffic on Route 414, North Road, and Burgess Road combined with environmental sources. The environmental sources included calling birds, insects, and amphibians in wetlands areas, and wind. The sound levels measured at receiver locations along the eastern boundary opposite the SELF and NEX berms were dominated by highway traffic and by sounds of accelerating and decelerating vehicles in the vicinity of intersections, which causes a number of exceptions to the standard Part 360 sound level limits in daytime and nighttime periods. The sound levels received from operations of the Aria Energy Corporation landfill gas-to-energy plant and High BTU facility contributed to the sound levels received at locations along the eastern boundary.

Sound levels at Location 8 included exceptions to the limits caused by sounds of periodic pass-bys of trains with horns. Traffic or other environmental sources caused a number of exceptions to the standard Part 360 sound level limits at certain locations. Over the majority of the daytime measurements periods, sounds of landfill waste acceptance, placement, and cover activities, along with site truck traffic, materials handling, and facility maintenance activities were imperceptible to faintly perceptible at each receptor location and did

not significantly contribute to the measured sound levels.

The identified sound sources at each location and exceptions due to traffic, train passbys, and environmental sources are identified in the logging and sampling records, and are excluded from evaluations of sound level compliance.

Sounds of construction activities were not separating discernible or measurable, and combined with sounds of waste placement activities. The construction activities were not found to generate noise level increases.

The following are summary conclusions regarding the compliance of the sound level logging records and observations obtained during sampling surveys.

Location 1

The hourly-average sound levels measured at survey Location 1 on the east boundary ranged from a minimum hourly-average sound level of 56.2 dBA in the nighttime to a maximum hourly-average sound level of 65.9 dBA in the daytime, with a daytime average of 63.5 dBA. In daytime hours from 7:00 a.m. to 10:00 p.m., 48 of 67 hourly-average samples (72%) exceeded the 62 dBA L_{eq} daytime sound level limit of 6 NYCRR Part 360. The daytime exceedances are attributed to sounds of traffic on State Route 414, including sounds generated by vehicle acceleration and deceleration with jake brakes at the signalized intersection at Salcman Road and at entrance to the AEC gas-to-energy facility.

In nighttime hours from 10:00 p.m. to 7:00 a.m., 36 of 36 nighttime samples (100%) exceeded the 52 dBA L_{eq} nighttime limit. The nighttime exceedances are attributed to highway traffic, operations of the Aria Energy Corporation Gas-to-Energy and High BTU facilities, and environmental sources.

The background traffic noise levels at Location 1exceeded the standard suburban sound level limits of the Part 360 regulations in the majority of the daytime hours and extensively in nighttime hours. Noise acceptability was evaluated in terms of perceptibility of the landfill operations and their potential contributions to the measured levels, based on application of 6 NYCRR Part 360 Section 360-1.19(j)(1). The sampling surveys and observations determined that landfill waste placement and cover operations at two cells, site truck traffic, site maintenance operations, and operation of the utility flare system were not perceptible at Location 1 due to attenuation by the intervening SELF berm and distance, and masking by elevated background traffic noise. It is concluded that because noise from landfill operations was imperceptible and had no observable effect on the measured hourly-average sound levels, the facility noise levels received at Location 1 do not exceed the background noise levels and comply with the noise requirements of 6 NYCRR Part 360 Section 360-1.19(j)(1).

Location 2

The hourly-average sound levels measured at survey Location 2 on the east boundary ranged from a minimum of 53.5 dBA in the nighttime to a maximum of 66.1 in daytime hours, with a daytime average of 61.2 dBA. In daytime hours, 12 of 68 hourly-average samples (18%) exceeded the 62 dBA L_{eq} daytime sound level limit of 6 NYCRR Part 360. The daytime exceedances are attributed to sounds of Route 414 highway traffic, including sounds generated by vehicle acceleration and deceleration from the signalized intersection at Salcman Road, with occasional vehicles at the entrance to the leachate management facility, including use of jake brakes.

In nighttime hours, 36 of 36 nighttime samples (100%) exceeded the 52 dBA L_{eq} nighttime limit. The nighttime exceedances are attributed to highway traffic and operations of the Aria Energy Corporation gas-to-energy and High BTU facilities.

The background traffic noise levels at Location 1exceeded the standard suburban sound level limits of the Part 360 regulations in the majority of the daytime hours and extensively in nighttime hours. Noise acceptability was evaluated in terms of perceptibility of the landfill operations and their potential contributions to the measured levels, based on application of 6 NYCRR Part 360 Section 360-1.19(j)(1). The sampling surveys and observations determined that landfill waste placement and cover operations at two cells, site truck traffic, site maintenance operations, and operation of the utility flare system were not perceptible at Location 2 due to attenuation by the intervening SELF berm and distance, and masking by elevated background traffic noise. The overall hourly-average sound level determined for Location 2 with occasionally perceptible cover operations did not exceed the background noise levels identified at Location 3. It is concluded that because noise from landfill operations was imperceptible and had no observable effect on the measured hourly-average sound levels, the facility noise levels received at Location 2 do not exceed the background noise levels and comply with the noise requirements of 6 NYCRR Part 360 Section 360-1.19(j)(1).

Location 3

The hourly-average sound levels at survey Location 3 on the east boundary ranged from a minimum of 55.6 dBA in the nighttime to a maximum of 63.4 dBA in daytime hours, with a daytime average of 61.6 dBA. In daytime hours, 19 of 69 hourly-average samples (28%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. Surveys and observations determined that landfill operations were imperceptible at the location due to the attenuation of the NEX and SMI berms, distance, and wooded vegetation. The daytime exceedances are attributed to sounds of Route 414 highway traffic. It is concluded the daytime sound levels comply with the noise requirements of 6 NYCRR Part 360 Section 360-1.19(j).

In nighttime hours, 36 of 36 nighttime samples (100%) exceeded the 52 dBA nighttime limit. The nighttime exceedances are attributed to highway traffic and environmental sources. It is concluded the facility noise levels received at Location 3 generated in nighttime hours do not exceed the background noise levels and comply with the noise requirements of 6 NYCRR Part 360 Section 360-1.19(j)(1).

Location 4

The hourly-average sound levels measured at survey Location 4 on the east boundary ranged from a minimum of 52.2 dBA in the nighttime to a maximum of 59.0 dBA in the daytime, with a daytime average of 56.7 dBA. In daytime hours, none of 70 hourly-average samples (0%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. Surveys and observations determined that landfill operations were imperceptible at the location due to the attenuation of the SMI berm, distance, and wooded vegetation. The sound levels at Location 4 are lower than at Locations 1, 2, and 3 as attributed to the absence of acceleration and deceleration events. It is concluded the daytime sound levels comply with the noise requirements of 6 NYCRR Part 360 Section 360-1.19(j).

In nighttime hours, 35 of 36 nighttime samples (97%) exceeded the 52 dBA nighttime limit. It is concluded the facility noise levels received at Location 3 generated in nighttime hours do not exceed the background noise levels and comply with the noise requirements of 6 NYCRR Part 360 Section 360-1.19(j)(1).

Location 5

The hourly-average sound levels monitored at survey Location 5 along the west boundary opposite the northwest corner of the landfill ranged from a minimum of 44.7 dBA in the nighttime to a maximum of 56.1 dBA in the daytime, with a daytime average of 48.4 dBA. In daytime hours, 0 of 71 hourly-average samples (0%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. Surveys and observations determined that landfill operations were imperceptible or only occasionally faintly perceptible at the location due partial screening by the SMI berm and due to the attenuation of distance and wooded vegetation. In nighttime hours, zero of 36 hourly-average samples (0%) exceeded the 52 dBA nighttime sound level limit of 6 NYCRR Part 360. It is concluded the sound levels at Location 5 comply with the suburban sound level limits requirements of 6 NYCRR Part 360 Section 360-1.19(j).

Location 6

The hourly-average sound levels monitored at survey Location 6 on the west boundary ranged from 41.0 dBA in the nighttime to56.5 dBA in the daytime, with a daytime average of 42.3 dBA. In daytime hours, zero of 72 hourly-average samples (0%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. In nighttime hours, zero of 37 hourly-average samples (0%) exceeded the 52 dBA nighttime sound level limit

of 6 NYCRR Part 360. It is concluded the sound levels at Location 6 comply with the suburban sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Location 7

The hourly-average sound levels monitored at survey Location 7 on the west boundary at the southwest corner of the landfill ranged from a minimum of 43.1 dBA in the nighttime to a maximum of 53.9 dBA in the daytime, with a daytime average of 50.9 dBA. In daytime hours, zero of 73 hourly-average samples (0%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. In nighttime hours, two of 38 hourly-average samples (0%) exceeded the 52 dBA nighttime sound level limit of 6 NYCRR Part 360, that are attributed to nighttime traffic or environmental sources. It is concluded the sound levels at Location 7 comply with the suburban sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Location 8

The hourly-average sound levels at survey Location 8 on the south boundary ranged from a minimum of 44.7 dBA in the nighttime to a maximum of 65.1 dBA in the daytime, with a daytime average of 51.5 dBA. In daytime hours, 7 of 72 hourly-average samples (7%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360, which are attributed to train pass-bys with horns at the North Road grade crossing. In nighttime hours, 1 of 36 hourly-average samples (3%) exceeded the 52 dBA nighttime sound level limit of 6 NYCRR Part 360, which are attributed to traffic or environmental events. It is concluded the sound levels at Location 8 comply with the sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Location 9

The hourly-average sound levels at survey Location 9 on the south boundary ranged from a minimum of 45.3 dBA in the nighttime to a maximum of 51.5 dBA in the daytime, with a daytime average of 48.2 dBA. In daytime hours, none of 72 hourly-average samples (0%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. In nighttime hours, one of 36 hourly-average samples (3%) exceeded the 52 dBA nighttime sound level limit of 6 NYCRR Part 360, which is attributed to a bird pecking at the instrument windscreen. It is concluded the sound levels received at Location 9 comply with the suburban sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Location 10

The hourly-average sound levels at survey Location 10 on the west boundary ranged from 42.5 dBA in the nighttime to 50.9 dBA in the daytime, with a daytime average of 47.8 dBA. In daytime hours, zero of 72 hourly-average samples (0%) exceeded the 62 dBA daytime sound level limit of 6 NYCRR Part 360. In nighttime hours, 0 of 37 hourly-average samples (0%) exceeded the 52 dBA nighttime sound level limit of

6 NYCRR Part 360. It is concluded the sound levels at Location 10 comply with the suburban sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Black Brook Road

The sound levels received at residential receivers along Black Brook Road in the Town of Seneca Falls averaged 42.3 dBA opposite the wetlands parking area and 54.4 dBA at Clinton Street in two morning periods due to traffic, birds, insects, and wind. Landfill operations were imperceptible at the two locations. Background sound levels measured 44.6 dBA at Clinton Street in an evening period after hours of waste acceptance and reduced environmental noise.

Modeling predictions estimate the sound levels received along Black Brook Road from landfill waste placement operations at Stage 5 to be in the range of 20 to 25 dBA with attenuation from the berm and distance. The facility sound levels received at Locations 1 to 4are estimated to be attenuation 10 dBA or more due to the added distance from the SELF berm to Black Brook Road, and by an additional 10 dBA due to screening of the intervening densely wooded vegetation.

It is concluded the sound levels along Black Brook Road do not exceed the sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

North Road

At the nearest residential receiver west of Location 7 at 1569 North Road in the Town of Waterloo, located approximately 900 feet from the access road to the Meadow View Mine, the sound levels from a truck pass-by on the mine access road measured at 50 feet are estimated to be reduced by 25 dBA or more due to distance. Based on a maximum reference sound level of 76 dBA, the maximum received truck pass-by sound levels are estimated to be reduced to 51 dBA. For a residential receiver at 1507 North Road, which is located an estimated 750 feet from an excavation area at the Meadow View Mine, the sound levels from an excavator measured at 50 feet are estimated to be reduced by 24 dBA or more due to distance, and additional amounts by screening. Based on a maximum reference sound level of 81 dBA, the maximum received excavator sound levels are estimated to be reduced to 57 dBA or lower. It is concluded the received sound levels comply with the suburban sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Strong Road

The sound levels received at the nearest residential receivers along Strong Road are predicted to be attenuated by 30 dBA or more due to distance from the Stage 5 landfill area and by an additional 30 dBA due to sound attenuation of the SMI landfill berm and dense wooded foliage. The received facility sound

levels are predicted to be negligible and below the ambient sound levels, and comply with the suburban sound level limits of 6 NYCRR Part 360 Section 360-1.19(j).

Sampling and logging data comparisons

Sampling measurements obtained at each location in multiple time periods were additionally compared to the Part 360 limits and to the hourly-average sound levels obtained with continuous logging. Observations were obtained during the sampling surveys to identify the perceptible landfill sound sources and prominent background sound sources. The sampling surveys were performed in two or three daytime periods at each boundary location during hours of landfill operations and in one daytime period after the normal hours of waste acceptance on Monday and Friday of the survey week. The measurement periods ranged from ten to twenty minutes each, as appropriate to be representative of an hourly-average sound level.

The sampled hourly-average sound levels corresponded to the logged sound levels at each survey location in comparable time periods within differences ranging from 0 to 3 dBA in the majority of the 64 sampling records from the combined two days of sampling. These are acceptable differences between readings from Type 1 and Type 2 sound level meters, including minor offsets in measurement periods and environmental factors.

Table 1 summarizes the hourly-average sound levels obtained from continuous logging in the survey period from August 2, 2021 to August 6, 2021. The following Table 2 summarizes the average sound levels obtained from sampling surveys in the three periods on Monday and on Friday of the survey period.

Table 1
Summary of L_{eq} Noise Levels (dBA) Measured Along Landfill Property Lines with Logging Instruments

Measure-ment Location	Location Description			August 2-3, 2021																						
				Daytime hourly average (L_{eq}), dBA															Nighttime hourly average (L_{eq}), dBA								
		5-6a	6-7a	7-8a	8-9	9-10	10-11	11-12	12-1p	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10p	10-11	11-12	12-1a	1-2	2-3	3-4	4-5	5-6	6-7a
Loc 1	Rt. 414 east of SELF berm						64.2	64.7	65.8	65.1	65.9	63.5	63.7	61.8	62.1	61.2	62.0	61.5	58.3	60.1	59.1	58.2	58.8	59.2	58.6	61.8	63.4
Loc 2	Rt. 414 east of NEX berm					62.1	62.4	62.1	63.6	62.8	63.2	62.2	61.4	59.4	59.3	58.4	58.6	59.5	57.0	57.4	56.9	56.6	57.1	56.8	56.8	59.6	60.8
Loc 3	Rt. 414 east of SMI berm					63.4	63.4	62.4	62.6	61.9	62.0	60.8	61.4	60.1	60.9	60.3	59.6	59.1	57.3	58.9	57.4	57.3	57.5	59.9	58.0	60.5	62.3
Loc 4	Rt. 414 north of SMI berm					58.1	59.0	57.4	57.7	57.3	57.5	55.8	55.8	54.5	55.3	54.6	54.4	54.6	53.2	54.3	54.1	53.5	53.7	53.2	53.7	56.2	57.1
Loc 5	West boundary northwest of SMI			48.0	49.5	53.1	50.1	52.0	52.6	55.3	56.1	55.4	53.8	53.2	48.6	46.4	45.9	47.1	46.6	45.6	44.9	44.9	44.9	44.7	45.0	45.0	46.3
Loc 6	West boundary at WEX berm		41.9	41.8	41.7	56.5	41.1	42.8	42.5	41.8	44.2	43.8	41.6	42.0	41.9	42.3	42.9	43.9	42.8	43.2	42.3	41.7	41.9	41.6	41.0	42.5	42.1
Loc 7	Burgess Road at Salcman Road	46.8	48.0	48.7	49.5	49.1	49.1	47.9	50.4	49.1	48.8	49.2	51.2	52.0	50.1	49.5	48.8	50.5	49.2	47.0	45.2	44.8	43.1	43.1	43.3	46.2	47.6
Loc 8	South boundary			50.1	49.0	49.0	50.5	50.3	64.5	51.1	51.7	52.5	51.1	50.5	47.6	61.4	53.4	53.3	51.0	49.3	51.1	51.6	50.9	50.8	50.6	51.9	51.7
Loc 9	South boundary				46.7	48.0	47.9	48.7	48.8	49.0	51.5	49.2	47.2	47.2	47.6	46.9	46.8	47.7	48.0	46.9	46.1	45.5	45.3	84.4	46.8	48.0	48.1
Loc 10	West boundary at Stage 6		46.4	49.9	47.5	48.8	48.5	48.2	47.9	48.6	48.9	49.3	49.3	47.3	45.8	45.8	45.9	45.9	45.2	44.7	43.9	43.3	42.7	42.5	42.5	44.5	44.3

All survey data was measured by Aurora Acoustical Consultants Inc.

Table 1 (cont.)
Summary of L_{eq} Noise Levels (dBA) Measured Along Landfill Property Lines with Logging Instruments

Measure-ment Location	Location Description	August 3-4, 2021																						
		Daytime hourly average (L_{eq}), dBA															Nighttime hourly average (L_{eq}), dBA								
		7-8a	8-9	9-10	10-11	11-12	12-1p	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10p	10-11	11-12	12-1a	1-2	2-3	3-4	4-5	5-6	6-7a
Loc 1	Rt. 414 east of SELF berm	65.1	64.5	64.8	64.1	64.0	64.9	65.9	63.5	63.8	63.5	62.7	62.4	62.3	61.4	59.5	57.8	57.9	57.5	56.9	56.4	56.6	57.8	61.9	63.5
Loc 2	Rt. 414 east of NEX berm	61.8	62.4	62.6	62.6	62.7	62.7	63.4	62.2	61.0	61.0	60.7	60.5	58.9	58.3	57.4	56.6	55.8	57.2	54.8	55.2	54.7	55.5	58.5	59.8
Loc 3	Rt. 414 east of SMI berm	62.9	63.3	62.9	62.8	62.5	63.3	62.8	62.0	61.8	62.4	61.7	60.7	60.4	59.4	58.2	56.5	56.7	57.2	56.2	55.9	55.6	57.7	60.0	61.5
Loc 4	Rt. 414 north of SMI berm	57.8	57.9	58.2	58.6	58.0	57.6	57.9	56.8	56.8	57.1	56.2	55.4	55.0	54.2	53.8	53.2	53.8	54.4	52.6	52.9	52.5	53.9	55.3	58.8
Loc 5	West boundary northwest of SMI	46.3	45.9	47.0	47.8	46.5	44.1	45.5	50.5	49.0	46.6	46.9	46.7	46.2	46.8	49.0	48.5	47.6	47.0	47.0	47.4	46.9	46.9	46.1	46.4
Loc 6	West boundary at WEX berm	41.7	41.8	41.6	41.7	42.0	40.8	40.7	40.7	41.2	40.5	41.3	42.5	42.2	43.8	45.3	44.4	44.4	42.9	42.9	42.7	42.8	42.4	41.4	41.3
Loc 7	Burgess Road at Salcman Road	50.4	52.5	52.3	51.7	51.4	51.8	50.7	51.2	51.0	51.8	52.0	50.7	50.4	50.3	51.4	51.1	49.5	48.2	47.6	46.4	45.6	46.3	45.5	47.4
Loc 8	South boundary	50.8	49.7	50.7	50.6	49.9	65.1	50.3	50.0	52.4	51.1	51.5	53.1	61.7	52.3	50.1	48.6	68.4	47.8	48.4	50.1	46.8	45.4	47.0	48.8
Loc 9	South boundary	48.0	47.7	47.9	50.3	50.5	48.0	48.9	47.5	49.9	47.5	48.4	49.9	49.7	48.9	49.9	49.4	49.4	48.1	47.7	47.2	46.2	46.3	47.7	48.1
Loc 10	West boundary at Stage 6	44.4	45.1	45.6	45.2	44.5	46.3	45.6	45.1	45.3	46.4	46.1	47.3	48.1	49.2	46.8	46.6	46.0	45.2	44.6	44.0	43.6	43.5	44.0	48.8

All survey data was measured by Aurora Acoustical Consultants Inc.

Table 1 (cont.)
Summary of L_{eq} Noise Levels (dBA) Measured Along Landfill Property Lines with Logging Instruments

Measure-ment Location	Location Description	August 4-5, 2021																							
		Daytime hourly average (L_{eq}), dBA															Nighttime hourly average (L_{eq}), dBA								
		7-8a	8-9	9-10	10-11	11-12	12-1p	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10p	10-11	11-12	12-1a	1-2	2-3	3-4	4-5	5-6	6-7a
Loc 1	Rt. 414 east of SELF berm	64.3	64.0	63.8	63.5	64.5	65.0	64.4	63.4	65.5	65.3	65.7	62.0	61.5	60.5	59.2	60.3	57.4	58.6	57.9	56.4	57.6	60.9	61.0	63.4
Loc 2	Rt. 414 east of NEX berm	61.7	62.0	61.6	62.2	61.9	61.6	61.8	61.1	61.0	60.9	60.3	59.3	58.9	57.5	57.1	57.2	55.0	56.7	56.1	54.8	55.2	59.4	58.5	61.9
Loc 3	Rt. 414 east of SMI berm	62.7	62.6	62.3	62.3	62.7	62.2	62.8	61.7	61.3	61.7	61.4	60.2	60.0	59.5	58.8	57.8	56.7	56.4	56.7	56.6	56.6	60.4	60.2	62.3
Loc 4	Rt. 414 north of SMI berm	57.9	57.4	57.9	57.3	57.9	57.3	57.9	56.7	57.1	56.7	56.2	55.9	54.9	54.4	53.9	53.7	53.2	53.5	53.6	52.2	53.3	54.7	55.8	57.2
Loc 5	West boundary northwest of SMI	46.9	46.1	45.1	47.8	48.5	49.5	52.0	48.0	50.2	50.2	47.4	54.6	47.1	48.3	50.2	50.5	49.7	48.6	48.2	47.4	46.9	46.9	46.6	46.4
Loc 6	West boundary at WEX berm	41.4	42.1	49.1	48.6	40.5	41.4	40.4	42.0	41.3	41.1	40.9	41.9	42.1	44.1	47.1	47.0	45.8	46.6	43.4	42.5	42.3	42.6	41.9	41.7
Loc 7	Burgess Road at Salcman Road	49.0	52.6	52.3	51.7	50.6	51.6	51.0	51.7	52.6	53.7	53.9	50.4	50.1	52.3	51.1	52.3	51.6	51.0	50.0	48.7	48.1	47.9	47.5	48.2
Loc 8	South boundary	49.8	48.5	47.9	49.8	48.5	64.4	48.7	49.4	50.6	50.3	50.7	64.5	47.2	48.8	47.8	48.9	47.7	47.2	47.4	45.7	45.0	46.0	47.1	48.9
Loc 9	South boundary	47.6	47.5	46.7	49.4	50.2	49.9	47.0	47.8	48.0	48.5	48.0	47.6	47.1	48.8	49.9	50.7	50.3	49.8	48.7	47.9	47.0	46.8	47.4	46.9
Loc 10	West boundary at Stage 6	49.3	48.2	48.9	49.2	49.6	50.2	49.3	49.3	49.9	50.5	50.5	49.1	45.7	46.0	46.2	46.8	46.0	45.2	44.9	44.4	44.2	44.1	45.0	47.7

All survey data was measured by Aurora Acoustical Consultants Inc.

Table 1 (cont.)
Summary of L_{eq} Noise Levels (dBA) Measured Along Landfill Property Lines with Logging Instruments

Measure-ment Location	Location Description	August 5-6, 2021																							
		Daytime hourly average (L_{eq}), dBA															Nighttime hourly average (L_{eq}), dBA								
		7-8a	8-9	9-10	10-11	11-12	12-1p	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10p	10-11	11-12	12-1a	1-2	2-3	3-4	4-5	5-6	6-7a
Loc 1	Rt. 414 east of SELF berm	65.2	65.1	63.7	64.5	63.7	63.5	63.4	64.2	64.4	63.9	62.6	62.1	61.0	60.2	60.6	60.3	59.0	12-1	1-2	2-3	3-4	4-5	5-6	6-7
Loc 2	Rt. 414 east of NEX berm	63.0	61.9	61.4	61.7	63.1	61.7	61.2	61.8	61.3	61.0	58.9	60.4	61.4	57.3	58.8	57.4	56.9	56.7	56.8	56.8	56.2	59.1	60.9	61.7
Loc 3	Rt. 414 east of SMI berm	62.7	62.6	61.6	62.4	62.2	61.7	61.4	62.2	62.1	62.0	60.3	60.2	59.7	59.0	59.3	58.3	57.8	54.8	55.2	55.7	53.5	56.2	58.4	60.4
Loc 4	Rt. 414 north of SMI berm	57.6	57.0	57.5	58.2	57.2	57.4	57.3	58.4	57.5	57.2	55.3	55.2	54.5	53.9	55.0	54.6	54.7	56.6	57.0	56.5	55.6	61.9	60.1	60.4
Loc 5	West boundary northwest of SMI	45.4	45.7	46.5	47.7	48.7	49.0	52.6	49.9	50.6	50.2	45.3	45.3	47.0	47.4	50.4	50.8	50.4	53.6	53.6	53.9	52.7	54.9	55.4	56.3
Loc 6	West boundary at WEX berm	41.5	41.3	40.7	40.7	42.9	41.0	40.7	41.6	40.3	41.5	41.0	41.7	41.7	45.0	46.4	45.5	45.0	50.0	49.2	49.4	48.9	48.3	48.1	46.1
Loc 7	Burgess Road at Salcman Road	50.0	51.4	51.5	50.6	52.0	51.7	50.7	52.0	50.7	53.0	51.4	52.4	50.2	51.6	52.5	52.9	52.7	44.6	44.3	44.2	43.9	44.0	43.2	42.0
Loc 8	South boundary	49.0	48.3	49.9	47.6	48.6	63.0	49.0	48.5	49.2	50.4	61.8	47.3	47.4	49.4	49.0	48.5	45.9	51.8	51.3	51.0	50.5	50.3	49.7	48.2
Loc 9	South boundary	46.4	46.3	47.9	49.1	47.7	48.7	49.1	47.3	46.8	47.7	47.9	47.3	47.9	49.4	50.5	50.5	50.5	45.5	44.7	46.2	46.7	45.8	46.1	49.4
Loc 10	West boundary at Stage 6	47.4	46.9	47.9	48.2	50.4	48.3	45.9	46.1	46.4	48.2	48.2	47.2	45.7	48.2	46.3	46.6	46.3	49.3	48.6	49.5	46.6	46.2	46.1	46.9

All survey data was measured by Aurora Acoustical Consultants Inc.

Table 1 (cont.)
Summary of L_{eq} Noise Levels (dBA) Measured Along Landfill Property Lines with Logging Instruments

Measure-ment Location	Location Description	August 6, 2021																								
		Daytime hourly average (L_{eq}), dBA														Nighttime hourly average (L_{eq}), dBA									
		7-8a	8-9	9-10	10-11	11-12	12-1p	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10p	10-11	11-12	12-1a	1-2	2-3	3-4	4-5	5-6	6-7a
Loc 1	Rt. 414 east of SELF berm	64.4	63.9	65.0	63.8	64.3	64.2	64.3	64.1	63.5	63.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Loc 2	Rt. 414 east of NEX berm	61.7	61.4	62.3	61.5	62.1	61.8	61.8	62.6	61.9	66.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Loc 3	Rt. 414 east of SMI berm	62.7	62.0	62.8	62.5	62.3	62.6	61.9	62.5	62.1	61.8	62.0	-	-	-	-	-	-	-	-	-	-	-	-	-
Loc 4	Rt. 414 north of SMI berm	57.9	57.7	59.0	57.9	57.7	57.6	57.7	57.8	57.2	56.5	56.8	-	-	-	-	-	-	-	-	-	-	-	-	-
Loc 5	West boundary northwest of SMI	46.3	45.7	47.7	47.3	47.2	47.4	45.8	46.6	47.1	45.0	45.5	-	-	-	-	-	-	-	-	-	-	-	-	-
Loc 6	West boundary at WEX berm	42.1	41.9	41.4	41.2	42.1	41.7	42.1	41.2	40.8	40.8	40.9	41.7	-	-	-	-	-	-	-	-	-	-	-	-
Loc 7	Burgess Road at Salcman Road	50.8	52.0	51.1	51.6	50.7	52.1	50.5	50.4	47.6	48.1	48.6	49.7	50.6	-	-	-	-	-	-	-	-	-	-	-
Loc 8	South boundary	48.4	47.4	48.1	47.9	48.0	64.3	47.7	48.3	49.5	48.1	48.2	63.2	52.0	-	-	-	-	-	-	-	-	-	-	-
Loc 9	South boundary	50.8	49.0	49.6	51.0	49.7	49.8	47.2	46.0	46.7	46.9	46.9	49.3	49.9	-	-	-	-	-	-	-	-	-	-	-
Loc 10	West boundary at Stage 6	48.3	48.8	49.3	49.6	49.1	47.2	47.7	48.9	50.1	50.1	50.9	49.0	-	-	-	-	-	-	-	-	-	-	-	-

All survey data was measured by Aurora Acoustical Consultants Inc.

Table 2

Summary of L_{eq} Noise Levels (dBA) Sampled Along Landfill Property Lines with Handheld Meter on August 2 and August 6, 2021

Measure-ment Location	Location Description	August 2, 2021		August 6, 2021	
		Average Noise Level L_{eq}, dBA	**Sample Start Time**	**Average Noise Level L_{eq}, dBA**	**Sample Start Time**
Loc 1	East boundary at Rt. 414, east of SELF berm	66.4	9:47 AM	64.3	8:50 AM
		65.5	3:47 PM	62.3	2:24 PM
		64.1	6:40 PM	62.5	5:32 PM
Loc 2	East boundary at Rt. 414, east of NEX landfill site	65.7	9:00 AM	67.6	9:10 AM
		63.4	3:27 PM	64.7	2:45 PM
		64.5	6:54 PM	63.3	5:50 PM
Loc 3	East boundary at Rt. 414, east of SMI berm	63.0	9:22 AM	63.5	9:31 AM
		62.6	4:04 PM	61.6	3:06 PM
		63.2	7:06 PM	62.7	6:06 PM
Loc 4	East boundary at Rt. 414, northeast of SMI	61.8	7:53 AM	60.8	9:52 AM
		59.3	4:33 PM	59.3	3:27 PM
		59.5	7:17 PM	58.9	6:22 PM
Loc 5	West boundary, northwest of SMI berm	45.3	6:59 AM	43.3	7:24 AM
		43.9	12:33 PM	44.0	12:40 PM
		43.7	3:01 PM	-	-
		44.0	5:01:PM	45.7	6:51 PM
Loc 6	West boundary, west of WEX landfill	44.1	5:54 AM	43.9	6:40 AM
		45.4	11:45 AM	41.5	11:55 AM
		44.2	2:12 PM	-	-
		43.1	5:34 PM	45.0	7:44 PM
Loc 7	West boundary, at Salcman Road	47.3	5:26 AM	55.7	6:20 AM
		49.6	11:23 AM	55.9	11:20 AM
		50.5	1:50 PM	-	-
		50.4	5:49 PM	53.4	8:07 PM
Loc 8	South boundary	49.9	7:32 AM	49.4	7:54 AM
		50.6	1:04 PM	48.6	1:09 PM
		48.6	6:21 PM	51.8	8:44 PM
Loc 9	South boundary	48.0	7:53 AM	46.3	8:17 AM
		48.2	1:26 PM	44.8	1:30 PM
		45.5	6:05 PM	48.3	8:27 PM
Loc 10	West boundary, opposite Stages 5 and 6	46.9	6:23 AM	50.6	7:02 AM
		51.8	12:10 PM	48.6	12:15 PM
		51.2	2:37 PM	-	-
		50.9	5:17 PM	47.7	7:22 PM
	Black Brook Road, opp. wetlands preserve parking	44.6	7:48 PM	42.3	10:17 AM
	Black Brook Road, at Clinton St.	-	-	54.4	10:36 AM

All sampled data was measured by Aurora Acoustical Consultants Inc.

5.0 Conclusions

Surveys of sound levels were obtained on the boundaries of the Seneca Meadows, Inc. landfill to evaluate the acceptability of sound produced during normal daytime landfill operations that are representative of the year 2021. The sound surveys were obtained in the five-day weekday period from the morning of August 2 through the evening of August 6, 2021. The sound surveys were obtained at ten representative locations on the boundaries and in two community areas adjoining properties zoned or authorized for residential use, including current residential-use properties, former residential properties, undeveloped properties, and agricultural-use parcels authorized for residences. The survey period was scheduled to coincide with the seasonal peak period of landfill waste placement operations, daily cover operations, landfill maintenance activities, and construction activities. The survey period additionally corresponds to the peak annual period of highway traffic on the adjoining Route 414 and Route 96. The sound levels were continuously monitored at each survey location throughout the survey period with logging instruments which obtained sound level data in fifteen-minute periods. The fifteen-minute average levels were processed into hourly-average sound levels, designated $L_{eq\text{-}1\ hr}$.

The acceptability of the measured sound levels were assessed referencing sound level limits specified in the 6 NYCRR Part 360 Regulations for Solid Waste Management Facilities effective November 4, 2017. The measured hourly-average sound levels were compared to the hourly-average sound level limits for daytime and nighttime periods associated with the *suburban* community character listed in 6 NYCRR Part 360 Section 360-1.19(j) to evaluate acceptability of the sounds produced by landfill operations. The suburban community character is considered representative of the adjoining properties based on the density of residences, the character and density of nearby commercial and industrial development, and the historical volumes of traffic on adjoining highways. The sound level limits associated with the community character are 62 dBA L_{eq} in daytime hours from 7:00 a.m. to 10:00 p.m. and 52 dBA L_{eq} in nighttime hours from 10:00 p.m. to 7:00 a.m.

The survey locations represented properties zoned or authorized for residential purposes in the Town of Waterloo and the Town of Seneca Falls, New York, including those zoned Low-Density Residential, Moderate-Density Residential, Agricultural, and Highway Commercial. The surveys of noise, assessments of data, and reports of findings and conclusions were prepared by Aurora Acoustical Consultants Inc. of East Aurora, New York. Supporting information on landfill waste acceptance operations, maintenance operations, construction activities, and other data were supplied by Seneca Meadows, Inc.

The sound surveys characterized the sound levels produced by normal daily waste placement and cover activities at the Stage 5 and SMI overlay landfill area and at the Stages 7 and 8 landfill area. The waste placement operations were performed using waste compactors, bulldozers, excavators, trailer tippers, and waste hauling trucks. Daily cover operations were performed by articulated trucks and bulldozers using soils and beneficial use materials obtained from excavation areas, the tire facility, and mine areas.

Maintenance operations included soil unloading and handling operations at the Salcman Road materials storage area with excavators and loaders, and soil transport by articulated trucks to cell areas for daily cover and to construction areas. Other site maintenance operations included watering of access roads and water loading at retention ponds, operations of odor-neutralizing systems, operation of the utility flare system on the east side of the WEX berm, leachate transfer, and operations of dewatering pumps. Construction activities included excavation at the base of the Stage 5 and SMI overlay and placement of cover materials on the upper overlay of the SMI landfill berm, final cover operations at the Stages 7 and 8 area, and construction of a drain at the base of the NEX berm. Construction was performed with excavators, bulldozers, and articulated soil trucks.

During the operating year 2021, Seneca Meadows, Inc. received no noise complaints from occupants of the adjoining residential properties.

Locations 1, 2, 3, 4

Sound level logging and sampling surveys performed at Locations 1, 2, 3, and 4 identified the sound levels at locations representing four existing residences, several former residential-use properties, and undeveloped wooded properties along the eastern boundary on both sides of Route 414. The properties are contained in Highway Commercial zoning, which is authorized for residential use. The former residential-use properties and undeveloped properties on both sides of the highway are property holdings of SMI. Other properties along the eastern boundaries of the landfill include the Aria Energy Corporation gas-to-energy facilities, commercial facilities, educational facilities, undeveloped wooded property, and agricultural fields located on parcels zoned Highway Commercial and Agricultural. The commercial developments include a vehicle auction facility, a commercial vehicle repair facility, an automobile repair facility, and a commercial office building. Educational facilities consist of the Seneca Meadows Environmental Education Center. Nearby industrial facilities consist of the Aria Energy Corporation gas-to-energy facilities (AEC), the Exxon-Mobil gas pipeline facility, and the Sherman Compressor Station. Noise levels received at non-residential properties from landfill operations are not regulated by the Part 360 landfill regulations.

Properties located east of the commercial corridor between Route 414 and Blackbrook Road comprise broad areas of undeveloped wooded land, agricultural-use parcels, and the Seneca Meadows Wetlands Preserve, which are holdings of SMI contained in Agricultural or Flood Plain zoning. The sampled sound levels at

residential properties along Black Brook Road are dominated by sounds from environmental sources and local traffic, and are not influenced by sounds of landfill operations. Sounds of landfill operations are inaudible along Black Brook Road in comparison to the local ambient sound levels. It is estimated the landfill operations produce sound levels a minimum of 30 dBA lower than levels measured on the eastern boundary as the result of sound attenuation by distance, vegetative screening and absorption, and terrain absorption. Sampled sound levels in daytime periods obtained average sound levels well below the Part 360 daytime sound level limit.

The dominant source of received sound at survey locations on the eastern landfill boundary is highway traffic on Route 414. At survey Locations 1 and 2, the background traffic noise levels include sounds of vehicles accelerating and decelerating vehicles in the vicinity of the signalized entrance to SMI and the driveways for the energy facilities and the leachate storage area, which causes increases in traffic noise levels. Additional sources of sound at Locations 1 and 2 include the Aria Energy Corporation gas-to-energy facility. At survey Location 3, sounds are dominated by traffic on Route 414 and environmental sources. At survey Location 4 the traffic is free flowing and the background sound levels are lower than measured at Locations 1, 2, and 3. Additional sources of environmental sound received at each location are due to birds, insects, amphibians, and wind in trees. The Sherman Compressor Station was perceptible between daytime traffic passes. Sounds of landfill operations were not perceived at Locations 1, 3, and 4 during the survey period. Cover operations at NEX were occasionally faintly to partly perceptible but were not significant noise contributors.

The daytime background hourly-average noise levels at survey Location 1 exceeded the Part 360 standard daytime sound level limits during the majority of daytime hours of landfill operations due to traffic. The daytime background hourly-average noise levels at survey Locations 2 and 3 exceeded the Part 360 standard daytime sound level limits for a portion of the daytime hours of landfill operations due to traffic. At survey Location 4 the daytime noise levels during daytime hours of landfill operations conformed to the Part 360 standard daytime sound level limits.

The nighttime noise levels at Locations 1 and 2 are due to the combination of traffic, environmental sources, and operations of the AEC facility. The nighttime noise levels at Locations 3 and 4 are largely due to traffic and environmental sources. At Location 4, the nighttime sources are due to traffic, environmental sources, and operations of the Sherman Compressor Station. The nighttime background noise levels at Locations 1 to 4 were found to consistently exceed the Part 360 standard nighttime sound level limits due to the environmental sources. Landfill operations do not contribute to the nighttime sound levels at the locations.

The acceptability of the measured sound levels at Locations 1, 2, and 3 in daytime hours was determined by evaluating the perceptibility of landfill sources with respect to the background residual noise levels, and by

evaluating the perceptibility of landfill operations. The acceptability of sound levels received at Location 2 which included faint sounds of cover operations were also compared to background noise levels measured at Location 3, and were found to not increase the background noise levels, referencing 6 NYCRR Part 360 in Section 360-1.19 (j)(1). At each location, the landfill waste placement and cover activities were not perceptible due to screening of the continuous SELF, NEX, and SMI berms, the sound attenuation due to distance and vegetation, and due to the masking of facility sounds by the higher levels of background traffic noise.

It is concluded from the daytime sound surveys and observations at Locations 1, 2, and 3 that the measured hourly-average sound levels exceed the standard Part 360 Section 360-1.19(j) daytime sound level limit due to elevated levels of background traffic noise. The sounds of landfill operations are imperceptible compared to traffic noise, and do not significantly contribute to the measured sound levels. It is accordingly concluded the daytime sound levels at Locations 1, 2, and3 are acceptable in accord with the background noise level criterion stated in 6 NYCRR Part 360 in Section 360-1.19 (j)(1). It is concluded from daytime sound surveys that the measured hourly-average daytime sound levels at Location 4 comply with thestandard 62 dBA $L_{eq\text{-}1\ hr}$ daytime noise level limit referenced in 6 NYCRR Section 360-1.19 (j).

The nighttime hourly-average sound levels measured at Locations 1, 2, 3, and 4 exceed the standard Part 360 nighttime sound level limit due to elevated levels of background traffic noise. It is concluded the measured nighttime sound levels at Locations 1 to 4 are acceptable in accord with the background noise level criterion stated in 6 NYCRR Part 360 in Section 360-1.19 (j)(1) because the measured levels are dominated by traffic, and because the landfill operations were imperceptible in comparison.

Locations 5, 6, 7, 10

Sound level logging and sampling surveys at Locations 5, 6, 7, and 10 on the western boundary of the landfill identified the sound levels received at adjoining properties zoned or authorized for residential use during landfill operations combined with environmental sources. The receptors represented in the surveys include several existing residential properties, along with former residential-use properties, agricultural-use parcels, and properties that are currently wooded and undeveloped, which are holdings of SMI.

The daytime sound levels at Location 5 were dominated by sounds of environmental sources and ambient traffic. In comparison, sounds of landfill operations were only faintly perceptible at Location 5 and did not significantly contribute to the measured sound levels. It is concluded from logging surveys, sampling surveys, and observations that the monitored landfill noise levels at Location 5 comply with the 62 dBA daytime L_{eq} noise level criterion and the L_{eq} 52 dBA nighttime noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

The daytime sound levels at Location 6 were due to the combination of environmental sources, and faintly to partly audible waste placement and construction operations at Stage 5 and the SMI overlay. Environmental sources and traffic were dominant in nighttime hours. It is concluded from surveys and observations that the monitored landfill noise levels at Location 6 comply with the 62 dBA daytime L_{eq} noise level criterion and the L_{eq} 52 dBA nighttime noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

The daytime sound levels at Location 7 consisted of environmental sources, roadway traffic sounds, pass-bys of soil trucks on west Salcman Road, and faintly to partly partial sounds of waste vehicles on east Salcman Road and materials unloading and handling operations at the Salcman Road material storage area. Landfill operations at Stage 5 and the SMI overlay and at Stages 7 and 8, site maintenance activities, operation of the utility flare system, and construction were not distinguishable at Location 7 due to berm screening and distance. The sounds of the remote landfill operations did not contribute to the measured sound levels. Environmental sources and traffic were dominant in nighttime hours. Nighttime exceptions are attributed to environmental or traffic sources. It is concluded from surveys and observations that the monitored landfill noise levels at Location 7 comply with the 62 dBA daytime L_{eq} noise level criterion and the L_{eq} 52 dBA nighttime noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

The daytime sound levels at Location 10 consisted of environmental sources, roadway traffic, and faintly to partly audible sounds of waste placement and cover operation and construction at Stage 5 and the SMI overlay. It is concluded from the logging and sampling surveys and attended observations at Location 10 that the monitored landfill noise levels comply with the 62 dBA L_{eq} daytime noise level criterion and the 52 dBA L_{eq} nighttime noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

Locations 8, 9

The daytime sound levels at Location 8 were dominated by roadway traffic pass-bys, train pass-bys, and environmental sounds. Sounds of truck traffic on Salcman Road and at the tire facility, and materials handling operations operations in the materials storage area, were faintly to partly audible. Sounds of water truck refiling at the south retention pond wee occasionally perceptible. The landfill equipment sources did not significantly contribute to the measured sound levels. Environmental sources and traffic were dominant in nighttime hours. Exceptions occurred at Location 8, which are attributed to regular train passes with horns at the adjoining grade crossing. One nighttime exception occurred at Location 8 that is attributed to traffic or an environmental source. One nighttime exception occurred at Location 9 that is attributed to a bird event. It is concluded from surveys and observations that the monitored landfill noise levels at Locations 8 and 9 comply with the 62 dBA daytime L_{eq} noise level criterion and the L_{eq} 52 dBA nighttime noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

Black Brook Road, North Road, and Strong Road

Sound levels sampled opposite the residences east of the landfill along Black Brook Road measured 42.3 dBA and 54.4 dBA due to birds and traffic, which comply with the 62 dBA daytime L_{eq} noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j). Sound levels from landfill sources were inaudible. The sound levels at the remote locations are predicted to be attenuated a minimum of 30 dBA with respect to sound levels measured along the eastern boundary due to distance, vegetative screening, soil absorption, and berm screening.

Sound levels received at the nearest residences west of the landfill along North Road from mine operations and traffic are predicted to be a minimum of 24 to 25 dBA lower than reference equipment sound levels measured at fifty feet from soil trucks and an excavator. Sound levels during equipment operations are predicted to comply with the 62 dBA daytime L_{eq} noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

Sound levels received at the nearest non-contiguous residences north of the landfill along Strong Road are predicted to be attenuated a minimum of 90 dBA from east boundary levels. It is predicted the received sound levels at the nearest non-contiguous residences in each direction comply with the 62 dBA daytime L_{eq} noise level criterion and the L_{eq} 52 dBA nighttime noise level criterion of 6 NYCRR Part 360 Section 360-1.19(j).

Sound Surveys Summary

The findings of the logging surveys, sampling surveys, survey observations, and sound level assessments are summarized in Table 3 along with conclusions regarding the compliance of the noise levels received at the boundaries of the Seneca Meadows, Inc. landfill with respect to noise level limits associated with the suburban community character contained in 6 NYCRR Part 360 Section 360-1.19(j) and with respect to residual background noise levels as described in 6 NYCRR Part 360 Section 360-1.19(j) (1).

Table 3 2021 Annual Sound Survey Findings and Noise Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 1	East boundary on east side of SELF, 1500 ft north of current Salcman Road entrance, 100 ft from edge of S.R. 414, adjacent to Highway Commercial zoning district. Represents former residential-use properties on east side of highway in Highway Commercial zoning (current holdings of SMI). Property to southeast contains a former residence 450 ft from the survey location, presently used as the landfill construction office. Other properties previously used for agriculture, were not in agricultural use during the surveys.	Dominant source of received sound levels is traffic on State Route 414 with added sounds of accelerating and decelerating vehicles and jake brakes at signalized SMI entrance, AEC driveway, and leachate storage facility driveway. Landfill waste placement and cover operations at Stage 5 and at Stages 7 and 8 were imperceptible due to distance and screening of the SELF-NEX berm. The landfill sources did not contribute to the measured noise levels. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay due to distance and screening of the SELF berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the SELF berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Operations of the AEC gas-to-energy plant and High BTU plant were perceptible in the daytime between traffic and in hours after landfill hours of operation. The sources partly contributed to the measured daytime noise levels. The sources were perceptible in nighttime hours and largely influenced the measured nighttime levels. Noise acceptability was assessed by comparing perceptibility of landfill sources with respect to the background sound levels. The measured hourly-average noise levels are attributed to daytime and nighttime traffic background sources and nighttime environmental sources, and are concluded to comply with the alternate background noise criteria of Part 360 Paragraph 360-1.19(j)(1) for daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 2	Eastern boundary to east of NEX, 400 ft south of leachate facility driveway, 90 ft from edge of S.R. 414, adjacent to Highway Commercial zoning district. Represents former residential-use property, former agricultural-use property, and undeveloped property on east side of highway in Highway Commercial, an Agricultural zoning districts (current holdings of SMI, includes retention ponds).	Dominant source of received sound levels is traffic on State Route 414 with added sounds of accelerating and decelerating vehicles and jake brakes at signalized SMI entrance, AEC driveway, and leachate storage facility driveway. Landfill waste placement and cover operations at Stage 5 and at Stages 7 and 8 were imperceptible due to distance and screening of the SELF-NEX berm. Final cover operations at NEX were faintly to partly perceptible. The landfill sources did not contribute to the measured noise levels. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the SELF berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the SELF berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Operations of the AEC gas-to-energy plant and High BTU plant were perceptible in the daytime between traffic and in hours after landfill hours of operation. The sources partly contributed to the measured daytime noise levels. The sources were perceptible in nighttime hours and largely influenced the measured nighttime levels. Noise acceptability was assessed by comparing perceptibility of landfill sources with respect to the background sound levels and by comparing measured sound levels to background traffic noise levels measured at Location 3. The measured hourly-average noise levels are attributed to daytime and nighttime traffic background sources and nighttime environmental sources, and are concluded to comply with the alternate background noise criteria of Part 360 Paragraph 360-1.19(j)(1) for daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 3	Eastern boundary, 6900 ft north of current Salcman Road entrance, 100 ft from edge of S.R. 414, at Highway Commercial zoning. Represents current residential-use property 300 ft northeast of location on east side of highway and former residential use property 750 ft to north on west side of highway. Represents former residential-use and undeveloped properties on west side of highway (owned by SMI) authorized for residential use in Highway Commercial zoning. Represents undeveloped properties on east side of highway (owned by SMI) authorized for residential use in Highway Commercial & Agricultural zoning.	Dominant source of received sound levels is traffic on State Route 414, accelerating and decelerating vehicles at AEC driveway and leachate storage facility driveway. Landfill waste placement and cover operations at Stage 5 and at Stages 7 and 8 were imperceptible due to distance and screening of the NEX-SMI berm. The landfill sources did not contribute to the measured noise levels. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the SELF berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the SELF berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. Noise acceptability was assessed by comparing perceptibility of landfill sources with respect to the background sound levels and by comparing measured sound levels to background traffic noise levels measured at Location 3. The measured hourly-average noise levels are attributed to daytime and nighttime traffic background sources and nighttime environmental sources, and are concluded to comply with the alternate background noise criteria of Part 360 Paragraph 360-1.19(j)(1) for daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 4	Eastern boundary, 9350 ft north of current Salcman Road entrance, 100 ft from edge of S.R. 414, adjacent to Highway Commercial zoning. Represents residential-use property 230 ft north of location and adjacent agricultural properties west of location on west side of highway in Highway Commercial zoning. Represents two residential-use properties 580 ft and 800 ft southeast on east side of highway in Highway Commercial and Agricultural zoning. Represents undeveloped property on east side of highway (owned by SMI) in Highway Commercial and agricultural zoning.	Dominant source of received noise levels is traffic on State Route 414. Traffic is free flowing without significant acceleration and deceleration events. Secondary daytime sources and dominant nighttime sources are environmental, and the nearby gas compressor facility. Landfill waste placement and cover operations at Stage 5 and at Stages 7 and 8 were imperceptible due to distance and screening of the NEX-SMI berm. The landfill sources did not contribute to the measured noise levels. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the SELF berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the SELF berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. Sounds of the nearby compressor station were partly perceptible between traffic and in hours after normal hours of waste acceptance. The sources may have partly contributed to the measured noise levels. The measured daytime hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j). Nighttime noise acceptability was assessed by assessing perceptibility with respect to the background noise. The measured hourly-average noise levels are attributed to nighttime traffic background sources and nighttime environmental sources, and are concluded to comply with the alternate background noise criteria of Part 360 Paragraph 360-1.19(j)(1) for daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 5	Western boundary, 900 ft northwest of northwest corner of original SMI landfill, 400 ft east of Burgess Road. Represents suburban residential development and undeveloped residentially authorized properties on east and west sides of Burgess Road, including property holdings of SMI, in Low-Density Residential zoning district.	Dominant sources of background noise are environmental sources (insects, birds, amphibians, wind), local traffic on Burgess Road, and ambient traffic on Route 414. Landfill waste placement and cover operations at Stage 5 and the SMI overlay and at Stages 7 and 8 were imperceptible due to distance and screening of the SELF-NEX berm. The landfill sources did not contribute to the measured noise levels. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the NEX berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the NEX berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Sounds of the compressor station were imperceptible. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. The measured hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j) in daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 6	Western boundary, 1350 ft north of Salcman Road, 900 ft east of Burgess Road. Adjoins agricultural properties on east side of Burgess Road in Low-Density Residential zoning district. Represents two residences on east side of Burgess Road and undeveloped residentially authorized properties, including property holdings of SMI, in Low-Density Residential zoning district.	Dominant sources of background noise are environmental sources (insects, birds, wind), and local traffic on Burgess Road. Landfill waste placement and cover operations at Stage 5 and the SMI overlay were partly to faintly perceptible due to distance and screening of the WEX berm. Landfill waste placement and cover operations at Stages 7 and 8 were imperceptible due to distance and screening of the WEX berm. Truck traffic on Salcman Road was not distinguishable. The landfill sources did not significantly contribute to the measured noise levels. Occasional maintenance vehicle traffic on the west access road was partly perceptible. Operations at Meadow View Mine were faintly perceptible. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay could not be discerned from landfill operations. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the WNEX berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Sounds of the compressor station were imperceptible. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. The measured hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j) in daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 7	On western boundary near southwest corner of holdings, 100 ft north of Salcman Road, 200 ft east of Burgess Road. Represents five residences on south side of Salcman Road in suburban grouping on east side of Burgess Road (four owned by SMI), and former residential-use properties on east side of Burgess Road north of Salcman Road intersection (owned by SMI), in Moderate-Density Residential zoning district.	Received sound levels are the combination of mine truck and waste truck traffic on Salcman Road, materials unloading operations at the Salcman Road material storage area, background traffic on Burgess Road and North Road, and sounds of environmental sources. Landfill waste placement and cover operations at Stage 5 and the SMI overlay and at Stages 7 and 8 were imperceptible due to distance and screening of the WEX berm. The landfill sources did not contribute to the measured noise levels. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the WEX berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the WEX berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Sounds of the compressor station were imperceptible. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. The measured hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j) in the daytime and nighttime hours, with nighttime exceptions caused by traffic or environmental factors.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 8	On southern boundary of facility holdings, south of southern retention ponds, 175 ft north of North Road, 175 ft west of railroad crossing. Represents suburban grouping of residences on north and south sides of North Road between railroad crossing and Burgess Road, including holdings of SMI on north side of road, in Moderate-Density Residential and Village zoning districts.	Received sound levels are the combination of mine truck and waste truck traffic on Salcman Road, materials unloading operations at the Salcman Road material storage area, background traffic on Burgess Road and North Road, and sounds of environmental sources. Landfill waste placement and cover operations at Stage 5 and the SMI overlay and at Stages 7 and 8 were imperceptible due to distance and screening of the WEX berm. The landfill sources did not contribute to the measured noise levels. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the WEX berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the WNEX berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Sounds of the compressor station were imperceptible. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. The measured hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j) in the daytime and nighttime hours, with daytime exceptions caused by trains and nighttime exceptions caused by traffic or environmental factors.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 9	On southern boundary of facility holdings, south of southern retention ponds, 800 ft north of North Road, 250 ft east of bus garage entrance. Represents residence 400 ft to southwest (owned by SMI), residence 650 ft south of location along North Road in Moderate-Density Residential, and residences 850 ft south in Village zoning districts.	Received sound levels are the combination of mine truck and waste truck traffic on Salcman Road, materials unloading operations at the Salcman Road material storage area, background traffic on Burgess Road and North Road, and sounds of environmental sources. Landfill waste placement and cover operations at Stage 5 and the SMI overlay and at Stages 7 and 8 were imperceptible due to distance and screening of the WEX berm. The landfill sources did not contribute to the measured noise levels. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay were imperceptible due to distance and screening of the WEX berm. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the WEX berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Sounds of the compressor station were imperceptible. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. The measured hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j) in the daytime and nighttime hours, with nighttime exceptions caused by traffic or environmental factors.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Monitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
Location 10	On western boundary, 2700 ft north of Salcman Road, 850 ft east of Burgess Road. Adjoins agricultural properties on east side of Burgess Road in Low-Density Residential zoning district. Represents residence on west side of Burgess Road (owned by SMI) in Low-Density Residential zoning district.	Received sound levels are the combination of faintly to partly perceptible sounds of waste placement activities at Stage 5 and the SMI overlay combined screened by the Stage 6 berm, and environmental sources and roadway traffic on Burgess Road. Landfill waste placement and cover operations at Stages 7 and 8 were imperceptible due to distance and screening of the WEX berm. Truck traffic on Salcman Road was not distinguishable. The landfill sources did not significantly contribute to the measured noise levels. Operations at Meadow View Mine were imperceptible. Materials handling operations at the Salcman Road storage area were imperceptible. Operations of the utility flare system were imperceptible. Operations of the tire facility were imperceptible. The sources did not contribute to the measured noise levels. Construction operations at Stage 5 and the SMI overlay was combined with landfill waste placement operations. Final cover operations at Stages 7 and 8 and drainage construction at the base of NEX were imperceptible due to distance and screening of the Stage 6 berm. The construction sources did not contribute to the measured noise levels. Leachate transfer was imperceptible. The maintenance operations did not contribute to the measured sound levels. Sounds of the compressor station were imperceptible. Operations of the AEC gas-to-energy plant and High BTU plant were not distinguishable. The measured hourly-average noise levels comply with the suburban limits of Part 360 Paragraph 360-1.19(j) in daytime and nighttime hours.

Table 3 (Cont.) Sound Survey and Compliance Summary

Location	Noise Mitoring Location Description	Background Sound Source & Landfill Operations Audibility and Compliance
	Black Brook Road	Sampled hourly-average noise levels during daytime operations comply with the daytime sound level limit. Predicted sound levels from activities at Stage 5 are predicted to be attenuated by 50-60 dBA by distance, berms, and vegetation to levels of 20-25 dBA excluding background, which would comply with the suburban limits of Part 360 Paragraph 360-1.19(j).
	Strong Road	Predicted sound levels from landfill waste activities are predicted to be attenuated by 60 dBA or more by distance, berms, and vegetation to negligible levels below ambient levels, and comply with the suburban limits of Part 360 Paragraph 360-1.19(j).
	North Road	Predicted sound levels from soil mine operations and truck traffic are predicted to be attenuated by 24-25 dBA or more compared to reference equipment sound levels, and comply with the suburban limits of Part 360 Paragraph 360-1.19(j).

AURORA ACOUSTICAL CONSULTANTS Inc.
745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

2021
ANNUAL NOISE SURVEY

FOR

SENECA MEADOWS, INC.
SANITARY LANDFILL
WATERLOO, NEW YORK

VOLUME II

Prepared for
SENECA MEADOWS, Inc.
1786 Salcman Road
Waterloo, New York 13165

Prepared by: Daniel P. Prusinowski

February 25, 2022

AURORA ACOUSTICAL CONSULTANTS Inc.
745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Appendix A

Descriptions of Sound Level Instrumentation

AURORA ACOUSTICAL CONSULTANTS Inc.

SOUND TEST DATE August 2-August 6, 2021

SOUND LEVEL METER:

☒	Larson Davis 831	s/n 0001466	☐	Larson Davis 831	s/n 0001057
	½" mic 377B02	s/n 143898		½" mic 377B20	s/n 105288
	preamp PRM831	s/n 0141		preamp PRM831	s/n 10126
	preamp CEL 495	s/n 108368		preamp CEL 495	s/n 058195
☐	Rion SA-77	s/n 10151076	☐	Rion SA-78	s/n 00730055
	½" mic B&K 4176R	s/n 1583199		½" mic B&K 4176R	s/n 1583199
	Preamp Rion NH-174	s/n 61582		Preamp Rion NH-174	s/n 61582

☐	Metrosonics db3100	s/n 1163	¼" mic mk3100R	☐	Metrosonics db3080	s/n 4441	¼" mic mk3100R
☒	Metrosonics db3100	s/n 1414	¼" mic mk3100R	☐	Metrosonics db3080	s/n 4676	¼" mic mk3100R
☐	Metrosonics db3100	s/n 1505	¼" mic mk3100R	☐	Metrosonics db3100	s/n 4677	¼" mic mk3100R
☒	Metrosonics db3100	s/n 1511	¼" mic mk3100R	☐	Metrosonics db3100	s/n 4763	¼" mic mk3100R
☐	Metrosonics db3100	s/n 1658	¼" mic mk3100R	☐	Metrosonics db3100	s/n 4680	¼" mic mk3100R
☒	Metrosonics db3100	s/n 2196	¼" mic mk3100R	☒	Metrosonics db3100	s/n 4684	¼" mic mk3100R
☒	Metrosonics db3100	s/n 2859	¼" mic mk3100R	☐	Metrosonics db3100	s/n 4689	¼" mic mk3100R
☐	Metrosonics db3100	s/n 3067	¼" mic mk3100R	☒	Metrosonics db3100	s/n 5224	¼" mic mk3100R
☐	Metrosonics db3100	s/n 3275	¼" mic mk3100R	☒	Metrosonics db3100	s/n 5727	¼" mic mk3100R
☒	Metrosonics db3100	s/n 3780	¼" mic mk3100R	☐	Metrosonics db3080	s/n 5914	¼" mic mk3100R
☒	Metrosonics db3100	s/n 3819	¼" mic mk3100R	☐	Metrosonics db3080	s/n 5916	¼" mic mk3100R
☐	Metrosonics db3080	s/n 3980	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6603	¼" mic mk3100R
☐	Metrosonics db3080	s/n 3996	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6611	¼" mic mk3100R
☒	Metrosonics db3080	s/n 4036	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6614	¼" mic mk3100R
☐	Metrosonics db3080	s/n 4049	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6621	¼" mic mk3100R
☐	Metrosonics db3080	s/n 4401	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6622	¼" mic mk3100R
☐	Metrosonics db3080	s/n 4415	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6623	¼" mic mk3100R
☐	Metrosonics db3080	s/n 4418	¼" mic mk3100R	☐	Metrosonics db3080	s/n 6624	¼" mic mk3100R

CALIBRATOR:

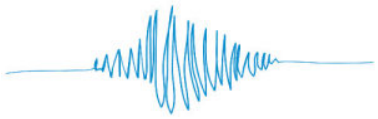
☐	CEL 284/2	s/n 02512942	☒	CEL 284/2	s/n 3/09819815
☐	CEL 284/2	s/n 3/07819583	☐	CEL 284/2	s/n 4/09921209
☐	Metrosonics cl304	s/n 01379	☐	Metrosonics cl304	s/n 4541
☒	Metrosonics cl304	s/n 2054	☐	Metrosonics cl304	s/n 5523
☐	Metrosonics cl304	s/n 3067	☐	Metrosonics cl304	s/n 7513

WEATHER:

☒ Clear ☐ Cloudy ☒ Brief rain ☐ Fog ☐ Snowing ☐ Snow on Ground ☐ Wet Streets

Temperature = _____ °F Winds = _____ @ _____ mph Relative Humidity = _____ %

NOTES: Detailed weather data for the survey week are summarized in Appendix E

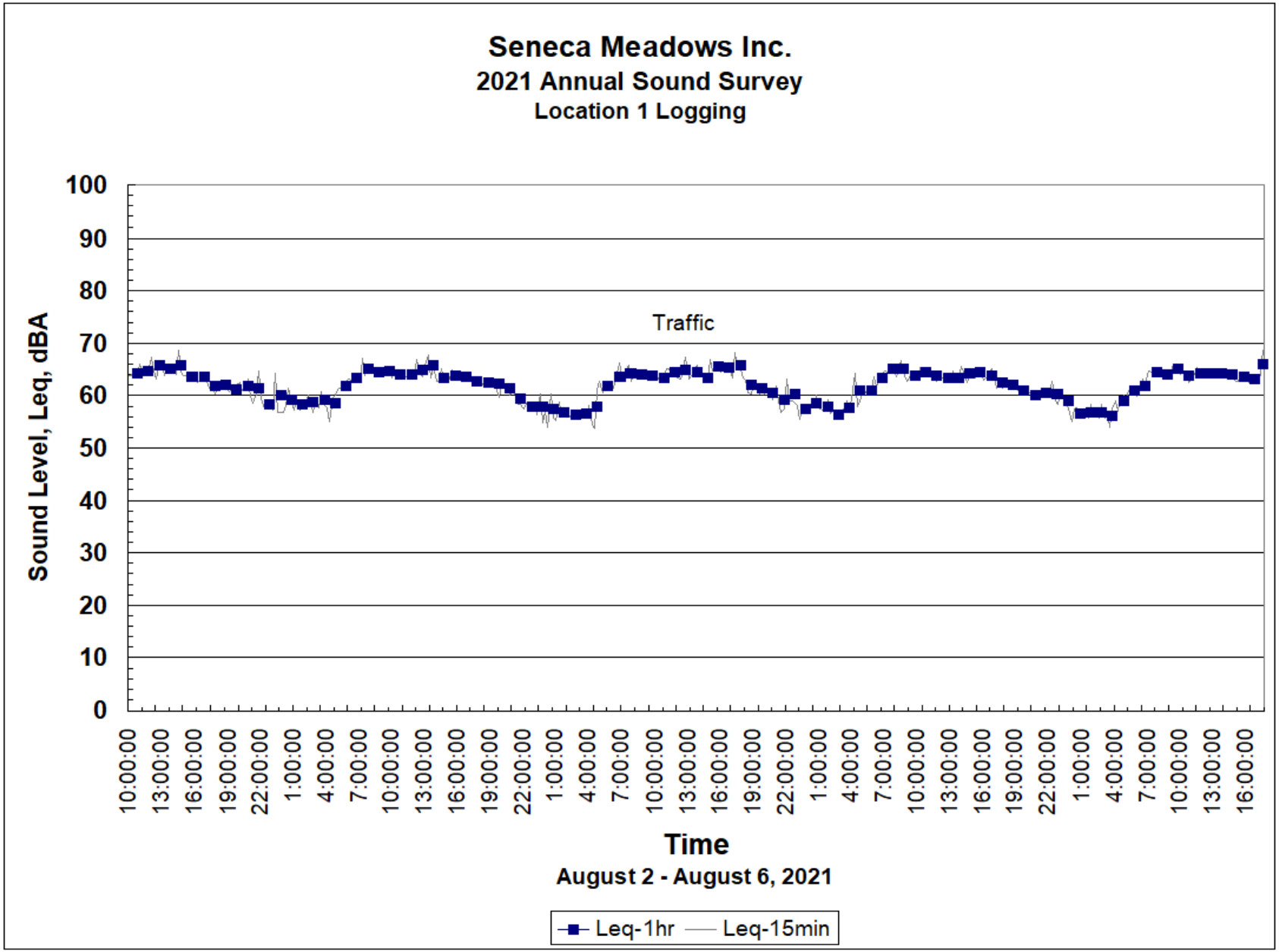


AURORA ACOUSTICAL CONSULTANTS Inc.

745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Appendix B

Sound Level Logging Surveys
August 2 - August 6, 2021


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 1 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Traffic
10:00:00
13:00:00
16:00:00
19:00:00
22:00:00
1:00:00
4:00:00
7:00:00
10:00:00
13:00:00
16:00:00
19:00:00
22:00:00
1:00:00
4:00:00
7:00:00
10:00:00
13:00:00
16:00:00
19:00:00
22:00:00
1:00:00
4:00:00
7:00:00
10:00:00
13:00:00
16:00:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC1
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.20 SERIAL # 1414
REPORT PRINTED ON 08/08/21 at 16:01:43

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 10:00:00
TOTAL LOGGING TIME...4 DAYS 07:37:58
LOGGING STOPPED.....08/06/21 at 17:37:58
TOTAL INTERVALS.....415
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 16:10:40
PRE-TEST CALIBRATION RANGE...38.8 TO 138.8 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:23:52
POST-TEST CALIBRATION RANGE...39.0 TO 139.0
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 62.7dB
Lav (60)..... 62.4dB
Lav (60)..... 62.4dB
SEL..... 118.3dB
TWA..... 73.8dB
TWA (60)..... 73.4dB
TWA (60)..... 73.4dB
Lmax..... 91.4dB 08/03/21 at 13:17:37
Lpk..... 121.5dB 08/03/21 at 13:17:37
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 2.18%
DOSE (60)..... 2.18%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	10:00:00	63.9	77.0	68.8	48.8	
	10:15:00	63.9	76.2	68.8	47.8	
	10:30:00	65.1	79.4	69.8	48.8	
	10:45:00	63.9	77.3	68.8	47.8	64.2
	11:00:00	65.9	81.8	69.8	48.8	
	11:15:00	64.0	77.2	67.8	49.8	
	11:30:00	64.4	76.2	68.8	50.8	
	11:45:00	64.3	74.2	67.8	50.8	64.7
	12:00:00	67.4	87.0	69.8	50.8	
	12:15:00	64.8	79.1	68.8	47.8	
	12:30:00	63.2	76.2	66.8	48.8	
	12:45:00	66.5	79.0	71.8	51.8	65.8
	13:00:00	65.9	79.8	69.8	49.8	
	13:15:00	63.9	73.4	68.8	47.8	
	13:30:00	65.3	79.8	69.8	50.8	
	13:45:00	64.9	78.2	68.8	48.8	65.1
	14:00:00	64.4	75.8	68.8	49.8	
	14:15:00	64.1	75.0	67.8	49.8	
	14:30:00	68.7	82.1	72.8	52.8	
	14:45:00	64.5	77.0	67.8	49.8	65.9
	15:00:00	63.8	73.9	67.8	53.8	
	15:15:00	63.8	73.8	67.8	50.8	
	15:30:00	62.9	75.0	66.8	49.8	
	15:45:00	63.4	74.6	67.8	48.8	63.5
	16:00:00	64.4	75.8	67.8	51.8	
	16:15:00	62.6	76.7	65.8	47.8	
	16:30:00	63.0	75.8	65.8	51.8	
	16:45:00	64.4	79.0	67.8	49.8	63.7
	17:00:00	62.8	74.8	66.8	50.8	
	17:15:00	61.4	73.0	65.8	48.8	
	17:30:00	62.1	73.8	65.8	46.8	
	17:45:00	60.4	70.5	64.8	47.8	61.8
	18:00:00	61.8	76.2	65.8	47.8	
	18:15:00	62.8	81.0	66.8	45.8	
	18:30:00	62.1	81.4	64.8	45.8	
	18:45:00	61.5	73.7	65.8	45.8	62.1
	19:00:00	60.7	77.0	64.8	46.8	
	19:15:00	60.9	75.0	64.8	45.8	
	19:30:00	60.9	74.1	64.8	47.8	
	19:45:00	62.1	73.8	65.8	47.8	61.2
	20:00:00	62.4	75.7	65.8	49.8	
	20:15:00	61.0	74.5	65.8	47.8	
	20:30:00	60.9	77.4	65.8	46.8	
	20:45:00	63.1	85.1	64.8	47.8	62.0
	21:00:00	59.8	73.2	63.8	47.8	
	21:15:00	58.5	73.4	62.8	47.8	
	21:30:00	60.2	75.5	63.8	45.8	
	21:45:00	64.6	85.8	65.8	46.8	61.5
	22:00:00	59.4	73.7	62.8	45.8	
	22:15:00	57.5	72.8	61.8	44.8	
	22:30:00	57.4	74.5	59.8	43.8	
	22:45:00	58.4	73.4	62.8	45.8	58.3
	23:00:00	57.3	72.7	60.8	45.8	
	23:15:00	64.2	86.6	64.8	44.8	
	23:30:00	56.8	73.0	59.8	43.8	
	23:45:00	56.9	72.3	60.8	43.8	60.1
8/3/2021	0:00:00	56.8	73.5	57.8	43.8	
	0:15:00	58.2	74.2	59.8	43.8	
	0:30:00	61.3	81.5	62.8	43.8	
	0:45:00	59.0	78.2	58.8	43.8	59.1
	1:00:00	57.2	72.2	58.8	43.8	
	1:15:00	59.2	76.6	59.8	44.8	
	1:30:00	57.3	73.4	57.8	45.8	

1:45:00	58.9	73.4	61.8	45.8	58.2
2:00:00	58.4	75.3	59.8	44.8	
2:15:00	60.0	75.8	62.8	43.8	
2:30:00	59.2	77.0	60.8	43.8	
2:45:00	56.8	72.8	58.8	44.8	58.8
3:00:00	59.6	77.2	61.8	44.8	
3:15:00	57.7	73.0	61.8	43.8	
3:30:00	60.8	82.9	59.8	43.8	
3:45:00	58.1	74.1	61.8	43.8	59.2
4:00:00	57.7	73.8	60.8	43.8	
4:15:00	55.1	73.7	56.8	43.8	
4:30:00	59.7	73.4	63.8	43.8	
4:45:00	60.1	74.6	64.8	43.8	58.6
5:00:00	61.2	74.1	65.8	44.8	
5:15:00	61.4	80.7	64.8	45.8	
5:30:00	62.0	74.6	66.8	46.8	
5:45:00	62.5	74.7	67.8	46.8	61.8
6:00:00	63.2	78.2	67.8	46.8	
6:15:00	63.0	83.0	66.8	46.8	
6:30:00	63.7	81.6	66.8	45.8	
6:45:00	63.5	78.0	67.8	45.8	63.4
7:00:00	62.4	76.2	66.8	44.8	
7:15:00	67.0	83.3	70.8	47.8	
7:30:00	63.8	75.4	67.8	46.8	
7:45:00	65.8	81.0	69.8	48.8	65.1
8:00:00	64.8	81.0	69.8	45.8	
8:15:00	64.4	76.2	68.8	47.8	
8:30:00	64.4	77.8	68.8	48.8	
8:45:00	64.2	76.6	67.8	46.8	64.5
9:00:00	64.9	80.2	68.8	45.8	
9:15:00	63.9	74.2	68.8	43.8	
9:30:00	65.2	82.6	69.8	48.8	
9:45:00	65.0	78.3	69.8	48.8	64.8
10:00:00	63.4	73.7	67.8	46.8	
10:15:00	64.6	78.1	68.8	44.8	
10:30:00	64.0	78.1	68.8	45.8	
10:45:00	64.4	75.4	68.8	45.8	64.1
11:00:00	64.0	75.4	68.8	45.8	
11:15:00	63.7	75.4	68.8	44.8	
11:30:00	63.5	78.5	67.8	45.8	
11:45:00	64.6	75.0	69.8	46.8	64.0
12:00:00	63.9	76.6	67.8	45.8	
12:15:00	66.9	88.2	69.8	49.8	
12:30:00	64.1	74.0	68.8	49.8	
12:45:00	63.7	74.6	67.8	46.8	64.9
13:00:00	65.8	81.8	69.8	48.8	
13:15:00	67.8	91.4	68.8	44.8	
13:30:00	63.3	74.6	67.8	45.8	
13:45:00	65.5	84.9	67.8	45.8	65.9
14:00:00	62.8	74.6	66.8	44.8	
14:15:00	62.7	73.7	66.8	43.8	
14:30:00	65.1	79.8	68.8	45.8	
14:45:00	62.8	75.0	67.8	43.8	63.5
15:00:00	63.9	81.0	67.8	44.8	
15:15:00	63.2	75.6	67.8	43.8	
15:30:00	65.0	79.3	68.8	45.8	
15:45:00	62.9	80.1	65.8	46.8	63.8
16:00:00	63.9	77.3	67.8	47.8	
16:15:00	63.9	78.1	67.8	45.8	
16:30:00	62.9	75.8	66.8	45.8	
16:45:00	63.2	73.5	67.8	46.8	63.5
17:00:00	63.5	77.8	66.8	43.8	
17:15:00	62.6	75.6	66.8	43.8	
17:30:00	61.8	73.8	66.8	42.8	
17:45:00	62.9	77.4	66.8	42.8	62.7
18:00:00	62.4	78.2	66.8	43.8	
18:15:00	62.1	74.2	66.8	44.8	
18:30:00	63.0	79.9	66.8	43.8	
18:45:00	62.2	75.6	66.8	47.8	62.4

	19:00:00	63.4	77.5	66.8	46.8	
	19:15:00	63.2	75.7	66.8	48.8	
	19:30:00	61.9	76.2	66.8	48.8	
	19:45:00	59.7	70.5	64.8	45.8	62.3
	20:00:00	62.1	79.8	65.8	45.8	
	20:15:00	61.6	74.2	65.8	45.8	
	20:30:00	61.7	75.3	65.8	45.8	
	20:45:00	60.1	71.0	64.8	47.8	61.4
	21:00:00	60.8	72.6	64.8	47.8	
	21:15:00	60.0	72.1	63.8	48.8	
	21:30:00	58.3	73.0	62.8	46.8	
	21:45:00	58.4	73.8	61.8	46.8	59.5
	22:00:00	57.5	70.6	61.8	47.8	
	22:15:00	58.5	73.4	61.8	47.8	
	22:30:00	57.8	72.2	61.8	46.8	
	22:45:00	57.3	73.4	61.8	47.8	57.8
	23:00:00	58.3	73.8	61.8	48.8	
	23:15:00	56.4	74.2	57.8	47.8	
	23:30:00	60.2	76.6	63.8	46.8	
	23:45:00	54.9	71.8	56.8	46.8	57.9
8/4/2021	0:00:00	57.1	74.6	58.8	46.8	
	0:15:00	53.9	70.6	56.8	45.8	
	0:30:00	60.4	82.7	59.8	44.8	
	0:45:00	55.7	72.6	57.8	43.8	57.5
	1:00:00	55.3	74.6	54.8	43.8	
	1:15:00	58.8	77.8	60.8	43.8	
	1:30:00	56.1	74.9	54.8	43.8	
	1:45:00	56.4	73.3	56.8	43.8	56.9
	2:00:00	56.9	72.6	59.8	44.8	
	2:15:00	56.0	72.8	57.8	43.8	
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	2:45:00	55.7	71.0	56.8	44.8	56.4
	3:00:00	56.4	73.0	58.8	43.8	
	3:15:00	57.0	73.0	60.8	43.8	
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	3:45:00	55.7	73.0	55.8	42.8	56.6
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	4:15:00	54.5	72.3	55.8	42.8	
	4:30:00	53.7	69.7	54.8	42.8	
	4:45:00	60.9	81.4	63.8	44.8	57.8
	5:00:00	62.8	84.8	63.8	43.8	
	5:15:00	60.5	73.8	64.8	43.8	
	5:30:00	62.3	79.5	66.8	45.8	
	5:45:00	61.5	73.4	65.8	45.8	61.9
	6:00:00	60.9	74.3	65.8	43.8	
	6:15:00	61.5	73.0	65.8	44.8	
	6:30:00	63.2	80.3	66.8	45.8	
	6:45:00	66.3	89.7	68.8	45.8	63.5
	7:00:00	63.9	80.2	67.8	44.8	
	7:15:00	64.2	82.5	68.8	44.8	
	7:30:00	65.7	81.0	69.8	44.8	
	7:45:00	62.8	76.5	66.8	43.8	64.3
	8:00:00	63.7	74.8	68.8	45.8	
	8:15:00	63.8	76.8	68.8	46.8	
	8:30:00	63.5	77.0	66.8	47.8	
	8:45:00	64.9	78.7	68.8	47.8	64.0
	9:00:00	63.7	74.7	68.8	45.8	
	9:15:00	63.0	76.1	67.8	45.8	
	9:30:00	63.7	75.0	68.8	44.8	
	9:45:00	64.7	77.4	68.8	45.8	63.8
	10:00:00	64.0	75.9	68.8	43.8	
	10:15:00	63.3	78.2	67.8	43.8	
	10:30:00	62.4	72.6	66.8	45.8	
	10:45:00	64.0	78.2	66.8	44.8	63.5
	11:00:00	65.2	77.8	69.8	46.8	
	11:15:00	65.2	82.6	69.8	44.8	
	11:30:00	63.6	79.0	67.8	44.8	
	11:45:00	63.5	75.8	67.8	45.8	64.5
	12:00:00	63.4	73.8	67.8	45.8	

	12:15:00	63.2	75.0	67.8	47.8	
	12:30:00	64.6	75.0	69.8	47.8	
	12:45:00	67.4	87.5	69.8	48.8	65.0
	13:00:00	63.2	77.2	67.8	47.8	
	13:15:00	63.8	75.8	67.8	53.8	
	13:30:00	64.4	73.4	68.8	53.8	
	13:45:00	65.8	75.8	70.8	48.8	64.4
	14:00:00	63.5	76.2	67.8	46.8	
	14:15:00	64.3	80.6	67.8	47.8	
	14:30:00	63.1	76.6	66.8	46.8	
	14:45:00	62.6	75.0	67.8	42.8	63.4
	15:00:00	66.8	74.6	71.8	46.8	
	15:15:00	64.7	74.2	68.8	45.8	
	15:30:00	65.0	74.2	69.8	48.8	
	15:45:00	65.1	85.0	68.8	47.8	65.5
	16:00:00	64.4	79.3	67.8	47.8	
	16:15:00	65.1	75.1	68.8	45.8	
	16:30:00	65.9	79.0	69.8	48.8	
	16:45:00	65.8	82.5	69.8	49.8	65.3
	17:00:00	63.3	75.0	66.8	48.8	
	17:15:00	68.1	78.5	71.8	47.8	
	17:30:00	65.0	80.2	69.8	47.8	
	17:45:00	65.0	75.0	69.8	47.8	65.7
	18:00:00	63.3	78.2	66.8	46.8	
	18:15:00	63.0	80.2	66.8	47.8	
	18:30:00	60.5	76.9	64.8	46.8	
	18:45:00	60.4	74.9	64.8	47.8	62.0
	19:00:00	62.7	77.8	66.8	46.8	
	19:15:00	61.4	75.8	65.8	46.8	
	19:30:00	60.2	74.2	64.8	46.8	
	19:45:00	61.3	77.3	64.8	46.8	61.5
	20:00:00	60.4	74.8	64.8	46.8	
	20:15:00	60.9	77.8	63.8	46.8	
	20:30:00	61.2	73.4	64.8	47.8	
	20:45:00	59.2	72.4	63.8	48.8	60.5
	21:00:00	61.8	76.9	65.8	49.8	
	21:15:00	59.1	73.0	62.8	48.8	
	21:30:00	56.8	72.6	60.8	48.8	
	21:45:00	57.4	73.3	61.8	47.8	59.2
	22:00:00	63.1	83.4	63.8	47.8	
	22:15:00	58.9	74.6	62.8	47.8	
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	22:45:00	58.5	74.2	62.8	47.8	60.3
	23:00:00	58.1	73.0	61.8	48.8	
	23:15:00	55.5	72.3	58.8	47.8	
	23:30:00	58.3	73.0	60.8	47.8	
	23:45:00	57.3	72.2	59.8	45.8	57.4
8/5/2021	0:00:00	57.6	74.6	59.8	45.8	
	0:15:00	58.0	74.0	60.8	47.8	
	0:30:00	58.2	74.2	60.8	47.8	
	0:45:00	60.1	81.8	59.8	47.8	58.6
	1:00:00	57.5	74.2	58.8	47.8	
	1:15:00	57.3	74.2	57.8	46.8	
	1:30:00	57.3	74.4	60.8	45.8	
	1:45:00	59.2	74.6	62.8	45.8	57.9
	2:00:00	56.5	73.6	57.8	43.8	
	2:15:00	57.2	74.2	57.8	43.8	
	2:30:00	56.4	73.4	56.8	43.8	
	2:45:00	55.5	73.4	55.8	43.8	56.4
	3:00:00	56.9	74.2	60.8	42.8	
	3:15:00	57.6	79.0	57.8	41.8	
	3:30:00	59.0	75.4	61.8	43.8	
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	4:00:00	59.4	77.8	61.8	43.8	
	4:15:00	64.3	84.6	64.8	43.8	
	4:30:00	57.8	73.3	61.8	43.8	
	4:45:00	59.0	74.6	63.8	43.8	60.9
	5:00:00	60.7	79.0	64.8	43.8	
	5:15:00	60.5	73.2	65.8	44.8	

5:30:00	61.5	75.0	66.8	44.8	
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6:15:00	61.6	79.2	65.8	44.8	
6:30:00	63.8	81.6	67.8	45.8	
6:45:00	64.3	78.6	68.8	45.8	63.4
7:00:00	64.8	80.6	68.8	46.8	
7:15:00	64.5	78.8	68.8	46.8	
7:30:00	65.7	82.6	69.8	44.8	
7:45:00	65.8	77.7	69.8	47.8	65.2
8:00:00	63.7	76.1	68.8	45.8	
8:15:00	65.0	74.6	69.8	44.8	
8:30:00	66.6	87.4	68.8	44.8	
8:45:00	64.5	78.6	68.8	43.8	65.1
9:00:00	62.8	77.3	66.8	44.8	
9:15:00	63.4	73.0	67.8	44.8	
9:30:00	64.3	77.0	68.8	43.8	
9:45:00	64.2	77.0	68.8	45.8	63.7
10:00:00	63.2	73.4	67.8	44.8	
10:15:00	65.4	82.6	69.8	46.8	
10:30:00	65.3	82.5	68.8	45.8	
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11:00:00	65.4	84.9	68.8	46.8	
11:15:00	63.1	74.6	67.8	45.8	
11:30:00	63.1	76.6	67.8	44.8	
11:45:00	62.7	74.1	66.8	43.8	63.7
12:00:00	63.4	76.5	67.8	44.8	
12:15:00	63.4	73.8	67.8	44.8	
12:30:00	64.1	78.7	68.8	44.8	
12:45:00	62.9	79.0	66.8	46.8	63.5
13:00:00	62.5	77.0	66.8	47.8	
13:15:00	64.6	81.2	68.8	44.8	
13:30:00	63.0	74.5	67.8	44.8	
13:45:00	63.0	74.1	67.8	47.8	63.4
14:00:00	65.6	83.5	68.8	44.8	
14:15:00	64.7	76.8	68.8	47.8	
14:30:00	62.6	72.2	66.8	45.8	
14:45:00	63.5	77.0	67.8	47.8	64.2
15:00:00	64.9	79.0	68.8	48.8	
15:15:00	63.3	75.6	67.8	48.8	
15:30:00	64.4	77.4	67.8	48.8	
15:45:00	64.7	83.0	67.8	44.8	64.4
16:00:00	63.0	77.0	66.8	47.8	
16:15:00	63.3	73.2	67.8	46.8	
16:30:00	63.8	78.2	67.8	45.8	
16:45:00	65.2	83.2	67.8	45.8	63.9
17:00:00	63.6	79.4	67.8	46.8	
17:15:00	61.4	73.0	65.8	46.8	
17:30:00	63.4	89.4	65.8	44.8	
17:45:00	61.4	73.0	65.8	46.8	62.6
18:00:00	62.0	74.8	65.8	46.8	
18:15:00	62.5	76.6	66.8	46.8	
18:30:00	62.5	79.8	65.8	46.8	
18:45:00	61.4	74.2	65.8	46.8	62.1
19:00:00	61.2	73.6	65.8	47.8	
19:15:00	61.0	74.9	65.8	46.8	
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19:45:00	60.7	73.8	64.8	46.8	61.0
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20:30:00	60.6	74.6	64.8	47.8	
20:45:00	59.4	71.4	63.8	47.8	60.2
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22:00:00	59.8	77.0	62.8	47.8	
22:15:00	62.8	84.0	63.8	47.8	
22:30:00	58.9	74.6	62.8	47.8	

	22:45:00	58.3	74.1	61.8	47.8	60.3
	23:00:00	60.2	74.9	63.8	46.8	
	23:15:00	59.3	75.4	62.8	45.8	
	23:30:00	58.2	73.4	60.8	45.8	
	23:45:00	57.7	73.5	61.8	42.8	59.0
8/6/2021	0:00:00	55.0	72.4	57.8	43.8	
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	0:30:00	57.7	74.2	59.8	45.8	
	0:45:00	56.1	74.6	58.8	44.8	56.7
	1:00:00	55.6	71.8	58.8	44.8	
	1:15:00	57.0	73.0	58.8	43.8	
	1:30:00	55.6	72.9	56.8	43.8	
	1:45:00	58.4	73.8	61.8	44.8	56.8
	2:00:00	56.3	75.8	55.8	44.8	
	2:15:00	56.3	73.8	56.8	43.8	
	2:30:00	55.7	74.2	55.8	44.8	
	2:45:00	58.4	77.0	59.8	44.8	56.8
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	4:00:00	58.9	77.9	60.8	43.8	
	4:15:00	57.1	77.8	56.8	42.8	
	4:30:00	59.6	77.0	63.8	42.8	
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	5:00:00	59.4	76.2	63.8	43.8	
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	6:00:00	59.8	71.9	64.8	42.8	
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	6:45:00	62.0	74.8	66.8	43.8	61.7
	7:00:00	64.6	79.8	67.8	44.8	
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	8:00:00	63.5	76.6	67.8	46.8	
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	9:00:00	63.4	77.4	67.8	47.8	
	9:15:00	65.6	80.2	69.8	44.8	
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	9:45:00	65.4	77.0	69.8	46.8	65.0
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	11:00:00	63.5	75.5	67.8	44.8	
	11:15:00	64.1	77.7	67.8	47.8	
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	11:45:00	63.9	79.4	67.8	43.8	64.3
	12:00:00	64.5	78.5	68.8	45.8	
	12:15:00	64.3	75.8	67.8	49.8	
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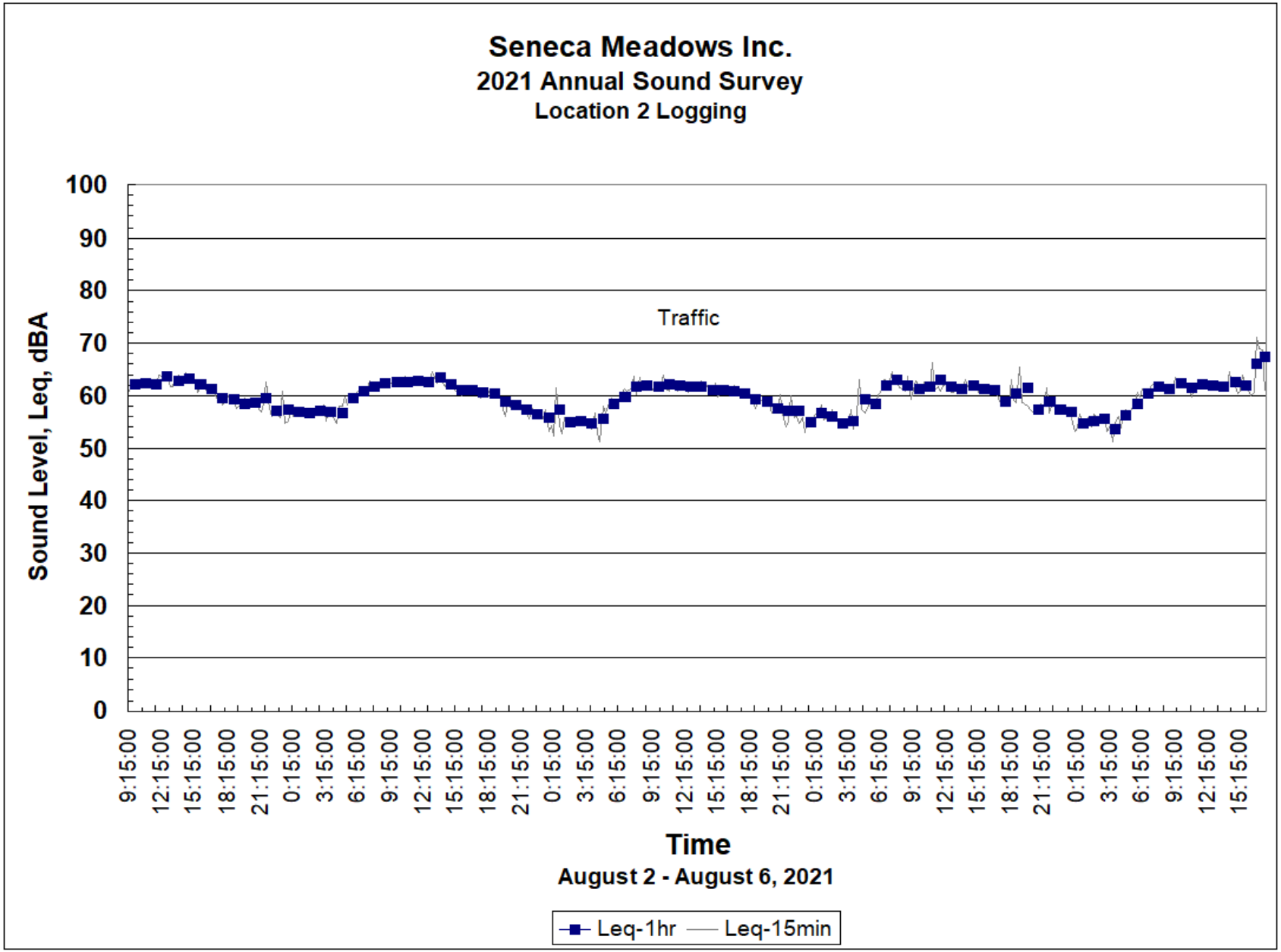
	12:45:00	63.5	74.4	67.8	46.8	64.2
	13:00:00	64.0	76.2	67.8	45.8	
	13:15:00	64.0	75.9	67.8	43.8	
	13:30:00	65.1	81.4	68.8	45.8	
	13:45:00	63.9	81.0	67.8	44.8	64.3
	14:00:00	64.0	78.2	67.8	48.8	
	14:15:00	64.6	82.5	67.8	46.8	
	14:30:00	64.2	77.8	67.8	45.8	
	14:45:00	63.5	78.1	67.8	46.8	64.1
	15:00:00	62.7	74.2	65.8	44.8	
	15:15:00	62.8	72.6	66.8	47.8	
	15:30:00	64.1	77.4	67.8	45.8	
	15:45:00	64.3	81.8	67.8	45.8	63.5

16:00:00	63.7	75.4	67.8	46.8	
16:15:00	62.4	73.5	65.8	44.8	
16:30:00	63.9	77.0	67.8	46.8	
16:45:00	62.6	75.0	65.8	44.8	63.2
17:00:00	62.8	74.2	65.8	45.8	
17:15:00	63.8	80.6	67.8	43.8	
17:30:00	68.8	83.2	73.8	43.8	66.0


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 2 Logging
Sound Level, Leq, dBA
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90
80
70
60
50
40
30
20
10
0
Traffic
9:15:00
12:15:00
15:15:00
18:15:00
21:15:00
0:15:00
3:15:00
6:15:00
9:15:00
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9:15:00
12:15:00
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Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC2
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

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METROSONICS db-3080 V1.11 SERIAL # 2196
REPORT PRINTED ON 08/08/21 at 16:03:30

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 09:15:00
TOTAL LOGGING TIME...4 DAYS 08:41:10
LOGGING STOPPED.....08/06/21 at 17:56:10
TOTAL INTERVALS.....419
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 16:07:37
PRE-TEST CALIBRATION RANGE...40.0 TO 140.0 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:27:15
POST-TEST CALIBRATION RANGE...40.3 TO 140.3
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 60.6dB
Lav (60)..... 59.8dB
Lav (60)..... 59.8dB
SEL..... 116.2dB
TWA..... 71.8dB
TWA (60)..... 70.9dB
TWA (60)..... 70.9dB
Lmax..... 95.3dB 08/06/21 at 17:17:58
Lpk..... 125.3dB 08/05/21 at 18:27:38
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 1.22%
DOSE (60)..... 1.22%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr
8/2/2021						
	9:15:00	60.8	73.7	64.0	42.0	
	9:30:00	62.0	79.8	65.0	43.0	
	9:45:00	63.1	77.2	66.0	50.0	62.1
	10:00:00	62.4	73.8	66.0	51.0	
	10:15:00	62.4	74.5	66.0	51.0	
	10:30:00	63.1	74.9	67.0	50.0	
	10:45:00	61.7	72.5	65.0	50.0	62.4
	11:00:00	62.3	72.2	66.0	49.0	
	11:15:00	62.4	72.5	66.0	51.0	
	11:30:00	61.7	73.3	65.0	49.0	
	11:45:00	61.8	72.4	65.0	50.0	62.1
	12:00:00	64.0	84.3	65.0	44.0	
	12:15:00	63.6	83.6	65.0	48.0	
	12:30:00	62.9	79.6	66.0	49.0	
	12:45:00	63.8	74.5	68.0	51.0	63.6
	13:00:00	61.8	73.3	65.0	49.0	
	13:15:00	61.7	72.5	65.0	46.0	
	13:30:00	63.5	76.5	68.0	47.0	
	13:45:00	63.8	76.8	67.0	49.0	62.8
	14:00:00	62.4	74.6	66.0	50.0	
	14:15:00	62.6	74.2	66.0	49.0	
	14:30:00	64.4	77.7	68.0	52.0	
	14:45:00	63.1	72.9	66.0	53.0	63.2
	15:00:00	62.7	73.3	66.0	50.0	
	15:15:00	63.4	73.8	67.0	48.0	
	15:30:00	60.7	70.4	64.0	49.0	
	15:45:00	61.7	71.2	65.0	50.0	62.2
	16:00:00	61.8	73.7	65.0	50.0	
	16:15:00	60.9	71.6	63.0	50.0	
	16:30:00	61.0	71.4	64.0	49.0	
	16:45:00	61.7	73.3	65.0	49.0	61.4
	17:00:00	60.3	74.5	63.0	50.0	
	17:15:00	59.3	71.6	62.0	47.0	
	17:30:00	59.6	71.0	63.0	43.0	
	17:45:00	58.3	70.1	61.0	44.0	59.4
	18:00:00	59.4	74.1	62.0	45.0	
	18:15:00	60.0	72.6	64.0	44.0	
	18:30:00	58.8	74.2	62.0	44.0	
	18:45:00	58.9	71.4	62.0	44.0	59.3
	19:00:00	57.5	71.6	61.0	42.0	
	19:15:00	57.9	72.9	60.0	42.0	
	19:30:00	58.3	73.7	61.0	42.0	
	19:45:00	59.6	74.4	62.0	45.0	58.4
	20:00:00	58.3	72.1	61.0	44.0	
	20:15:00	59.1	72.7	62.0	46.0	
	20:30:00	58.8	76.9	60.0	49.0	
	20:45:00	58.1	72.0	61.0	48.0	58.6
	21:00:00	57.7	70.9	60.0	50.0	
	21:15:00	56.8	69.7	60.0	50.0	
	21:30:00	58.4	73.3	60.0	50.0	
	21:45:00	62.5	83.8	62.0	50.0	59.5
	22:00:00	57.6	74.1	59.0	48.0	
	22:15:00	56.1	72.6	58.0	48.0	
	22:30:00	57.3	73.3	58.0	51.0	
	22:45:00	57.0	75.4	58.0	50.0	57.0
	23:00:00	55.9	70.6	58.0	47.0	
	23:15:00	60.8	83.2	61.0	49.0	
	23:30:00	54.8	71.2	56.0	48.0	
	23:45:00	55.1	70.3	56.0	47.0	57.4
8/3/2021	0:00:00	57.5	75.4	58.0	45.0	
	0:15:00	56.0	73.4	57.0	44.0	
	0:30:00	57.5	72.1	58.0	46.0	
	0:45:00	56.3	73.7	56.0	44.0	56.9

1:00:00	56.5	75.5	57.0	45.0	
1:15:00	57.1	73.7	56.0	44.0	
1:30:00	55.8	74.6	54.0	45.0	
1:45:00	56.9	71.8	58.0	44.0	56.6
2:00:00	57.1	75.9	57.0	46.0	
2:15:00	57.4	73.7	58.0	45.0	
2:30:00	57.6	74.9	56.0	45.0	
2:45:00	56.2	72.1	57.0	45.0	57.1
3:00:00	58.1	77.7	58.0	48.0	
3:15:00	55.2	71.5	57.0	44.0	
3:30:00	57.2	75.0	58.0	44.0	
3:45:00	56.3	73.3	58.0	45.0	56.8
4:00:00	55.6	71.3	57.0	44.0	
4:15:00	54.7	73.8	54.0	45.0	
4:30:00	58.0	72.4	61.0	45.0	
4:45:00	57.9	74.1	61.0	45.0	56.8
5:00:00	59.7	74.1	63.0	44.0	
5:15:00	58.3	72.9	61.0	44.0	
5:30:00	59.8	75.2	62.0	46.0	
5:45:00	60.2	73.7	63.0	48.0	59.6
6:00:00	60.4	73.8	64.0	46.0	
6:15:00	60.9	78.6	64.0	45.0	
6:30:00	61.0	77.3	64.0	46.0	
6:45:00	60.8	73.3	64.0	48.0	60.8
7:00:00	60.1	74.6	63.0	48.0	
7:15:00	62.8	76.1	67.0	48.0	
7:30:00	61.4	74.7	65.0	48.0	
7:45:00	62.3	75.3	66.0	49.0	61.8
8:00:00	62.2	74.1	66.0	48.0	
8:15:00	62.2	73.4	66.0	48.0	
8:30:00	63.1	78.3	67.0	49.0	
8:45:00	61.8	75.0	65.0	49.0	62.4
9:00:00	62.6	74.9	66.0	47.0	
9:15:00	62.4	75.9	66.0	46.0	
9:30:00	62.7	78.5	67.0	46.0	
9:45:00	62.5	72.8	66.0	46.0	62.6
10:00:00	62.2	76.3	66.0	46.0	
10:15:00	62.3	76.6	66.0	47.0	
10:30:00	63.6	79.8	67.0	47.0	
10:45:00	62.1	72.9	66.0	46.0	62.6
11:00:00	62.5	75.6	66.0	44.0	
11:15:00	62.5	74.8	66.0	47.0	
11:30:00	62.8	76.5	65.0	52.0	
11:45:00	63.0	72.8	66.0	50.0	62.7
12:00:00	62.8	78.2	66.0	49.0	
12:15:00	63.0	74.3	66.0	53.0	
12:30:00	62.6	73.3	66.0	49.0	
12:45:00	62.3	74.3	66.0	47.0	62.7
13:00:00	64.5	82.9	66.0	52.0	
13:15:00	63.4	75.9	67.0	50.0	
13:30:00	62.3	74.5	66.0	47.0	
13:45:00	62.9	77.3	66.0	46.0	63.4
14:00:00	62.5	74.0	65.0	49.0	
14:15:00	61.8	74.2	65.0	47.0	
14:30:00	62.6	73.7	66.0	45.0	
14:45:00	61.7	76.4	65.0	44.0	62.2
15:00:00	61.2	73.8	65.0	44.0	
15:15:00	60.8	72.5	64.0	43.0	
15:30:00	61.7	73.7	65.0	47.0	
15:45:00	60.0	76.1	63.0	45.0	61.0
16:00:00	61.3	74.6	64.0	47.0	
16:15:00	61.1	74.2	64.0	45.0	
16:30:00	60.6	73.2	64.0	46.0	
16:45:00	61.0	74.1	64.0	46.0	61.0
17:00:00	61.1	77.7	64.0	44.0	
17:15:00	61.3	76.0	64.0	47.0	
17:30:00	59.6	70.2	63.0	45.0	
17:45:00	60.6	73.6	64.0	46.0	60.7
18:00:00	61.0	72.9	63.0	49.0	

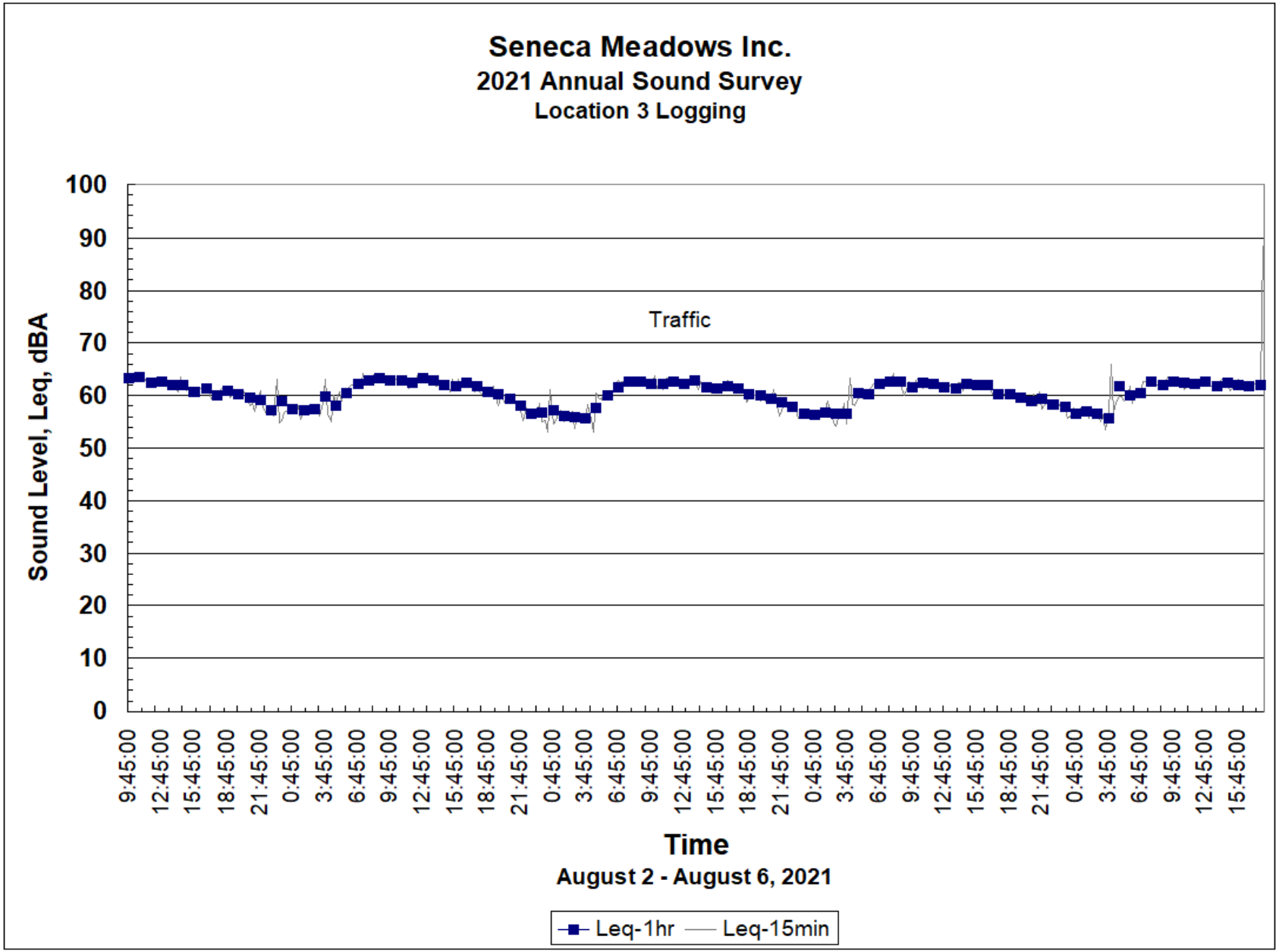
	18:15:00	60.8	72.1	63.0	51.0	
	18:30:00	60.0	75.8	62.0	46.0	
	18:45:00	60.1	74.9	63.0	46.0	60.5
	19:00:00	59.8	76.4	62.0	47.0	
	19:15:00	60.3	76.9	63.0	46.0	
	19:30:00	58.2	71.2	62.0	46.0	
	19:45:00	56.0	65.2	59.0	46.0	58.9
	20:00:00	58.8	74.6	61.0	46.0	
	20:15:00	57.7	72.5	61.0	48.0	
	20:30:00	58.9	72.9	61.0	48.0	
	20:45:00	57.7	71.3	60.0	48.0	58.3
	21:00:00	58.2	69.5	61.0	52.0	
	21:15:00	57.8	70.9	60.0	52.0	
	21:30:00	56.5	70.1	58.0	51.0	
	21:45:00	56.8	71.3	58.0	51.0	57.4
	22:00:00	55.6	67.4	58.0	51.0	
	22:15:00	57.6	72.9	59.0	51.0	
	22:30:00	56.5	68.5	58.0	51.0	
	22:45:00	56.3	71.2	58.0	50.0	56.6
	23:00:00	56.2	73.3	58.0	49.0	
	23:15:00	55.5	70.9	56.0	48.0	
	23:30:00	57.4	72.5	58.0	46.0	
	23:45:00	53.2	68.5	54.0	47.0	55.8
8/4/2021	0:00:00	54.2	71.8	54.0	47.0	
	0:15:00	52.2	67.7	53.0	48.0	
	0:30:00	61.5	84.9	56.0	48.0	
	0:45:00	54.5	71.2	54.0	46.0	57.2
	1:00:00	52.7	70.1	52.0	45.0	
	1:15:00	55.9	71.7	57.0	46.0	
	1:30:00	55.6	75.0	53.0	45.0	
	1:45:00	54.5	70.9	55.0	47.0	54.8
	2:00:00	55.2	71.7	55.0	46.0	
	2:15:00	55.3	70.9	56.0	47.0	
	2:30:00	55.1	69.7	55.0	45.0	
	2:45:00	55.0	70.7	55.0	46.0	55.2
	3:00:00	55.3	71.4	56.0	46.0	
	3:15:00	54.7	68.5	57.0	44.0	
	3:30:00	55.0	72.6	56.0	44.0	
	3:45:00	53.7	70.6	54.0	44.0	54.7
	4:00:00	56.7	72.9	59.0	43.0	
	4:15:00	52.9	73.1	53.0	43.0	
	4:30:00	51.1	65.9	53.0	43.0	
	4:45:00	58.0	73.9	60.0	45.0	55.5
	5:00:00	56.7	76.7	58.0	46.0	
	5:15:00	58.0	72.1	60.0	47.0	
	5:30:00	59.6	73.6	63.0	47.0	
	5:45:00	59.0	71.8	62.0	46.0	58.5
	6:00:00	57.8	71.7	60.0	43.0	
	6:15:00	59.2	73.4	63.0	46.0	
	6:30:00	60.4	76.5	63.0	46.0	
	6:45:00	61.2	72.9	65.0	47.0	59.8
	7:00:00	60.9	74.5	64.0	47.0	
	7:15:00	61.3	74.0	65.0	47.0	
	7:30:00	63.7	79.2	67.0	47.0	
	7:45:00	60.1	73.5	64.0	46.0	61.7
	8:00:00	63.5	86.0	66.0	48.0	
	8:15:00	61.5	74.9	66.0	46.0	
	8:30:00	61.2	75.5	64.0	47.0	
	8:45:00	61.2	74.8	65.0	46.0	62.0
	9:00:00	62.1	75.8	66.0	46.0	
	9:15:00	61.0	73.5	64.0	46.0	
	9:30:00	61.2	72.4	65.0	45.0	
	9:45:00	62.1	75.8	66.0	44.0	61.6
	10:00:00	62.3	72.8	66.0	44.0	
	10:15:00	63.9	87.0	65.0	44.0	
	10:30:00	61.1	71.6	64.0	44.0	
	10:45:00	60.9	77.6	63.0	44.0	62.2
	11:00:00	63.0	74.4	67.0	45.0	
	11:15:00	62.1	73.5	66.0	44.0	

	11:30:00	60.8	72.5	64.0	44.0	
	11:45:00	61.5	72.8	65.0	45.0	61.9
	12:00:00	61.4	73.4	65.0	44.0	
	12:15:00	61.6	73.6	65.0	45.0	
	12:30:00	60.6	72.4	64.0	46.0	
	12:45:00	62.6	74.2	66.0	45.0	61.6
	13:00:00	61.0	72.9	64.0	43.0	
	13:15:00	61.3	74.0	65.0	44.0	
	13:30:00	61.8	72.1	65.0	44.0	
	13:45:00	62.9	74.6	67.0	44.0	61.8
	14:00:00	61.0	72.5	65.0	42.0	
	14:15:00	62.0	76.9	65.0	44.0	
	14:30:00	60.7	74.4	64.0	43.0	
	14:45:00	60.7	74.5	64.0	44.0	61.1
	15:00:00	62.4	81.6	65.0	44.0	
	15:15:00	59.7	71.0	63.0	44.0	
	15:30:00	60.8	71.3	64.0	44.0	
	15:45:00	60.5	73.2	64.0	44.0	61.0
	16:00:00	60.4	73.6	64.0	45.0	
	16:15:00	60.7	76.8	64.0	45.0	
	16:30:00	60.4	76.1	63.0	45.0	
	16:45:00	61.9	72.8	65.0	43.0	60.9
	17:00:00	60.8	73.2	64.0	45.0	
	17:15:00	60.6	73.7	63.0	45.0	
	17:30:00	60.2	75.2	63.0	44.0	
	17:45:00	59.6	73.3	62.0	44.0	60.3
	18:00:00	60.2	72.4	63.0	45.0	
	18:15:00	59.7	73.4	62.0	44.0	
	18:30:00	59.1	80.2	61.0	43.0	
	18:45:00	57.6	71.7	61.0	44.0	59.3
	19:00:00	59.7	75.7	62.0	44.0	
	19:15:00	59.1	73.3	62.0	43.0	
	19:30:00	58.4	72.8	61.0	43.0	
	19:45:00	58.1	74.1	60.0	43.0	58.9
	20:00:00	58.5	72.9	62.0	43.0	
	20:15:00	56.7	70.9	60.0	43.0	
	20:30:00	57.8	71.8	61.0	45.0	
	20:45:00	56.7	70.0	59.0	46.0	57.5
	21:00:00	60.1	78.1	61.0	47.0	
	21:15:00	56.7	71.7	60.0	48.0	
	21:30:00	54.1	69.7	57.0	49.0	
	21:45:00	55.1	70.8	57.0	48.0	57.1
	22:00:00	60.0	80.9	59.0	48.0	
	22:15:00	55.9	72.0	58.0	46.0	
	22:30:00	56.1	70.9	58.0	47.0	
	22:45:00	54.8	70.6	58.0	47.0	57.2
	23:00:00	55.7	70.4	57.0	47.0	
	23:15:00	52.9	68.5	55.0	47.0	
	23:30:00	55.9	71.6	56.0	47.0	
	23:45:00	55.0	70.5	56.0	46.0	55.0
8/5/2021	0:00:00	55.8	70.1	57.0	48.0	
	0:15:00	56.4	73.2	57.0	50.0	
	0:30:00	55.9	71.2	57.0	50.0	
	0:45:00	58.2	84.0	56.0	45.0	56.7
	1:00:00	55.4	70.8	55.0	48.0	
	1:15:00	55.6	74.3	54.0	45.0	
	1:30:00	55.5	72.0	57.0	45.0	
	1:45:00	57.4	73.8	59.0	46.0	56.1
	2:00:00	55.5	71.9	55.0	45.0	
	2:15:00	55.2	71.9	53.0	44.0	
	2:30:00	54.1	69.4	54.0	45.0	
	2:45:00	54.0	70.9	53.0	46.0	54.8
	3:00:00	54.3	71.7	55.0	44.0	
	3:15:00	54.5	69.9	55.0	46.0	
	3:30:00	57.3	73.7	59.0	44.0	
	3:45:00	53.7	70.5	55.0	46.0	55.2
	4:00:00	56.5	71.7	58.0	45.0	
	4:15:00	63.1	84.9	59.0	45.0	
	4:30:00	57.3	74.1	59.0	46.0	

4:45:00	56.6	70.5	60.0	44.0	59.4
5:00:00	57.8	73.4	61.0	43.0	
5:15:00	58.4	71.3	62.0	45.0	
5:30:00	59.3	73.9	63.0	44.0	
5:45:00	58.2	70.5	62.0	44.0	58.5
6:00:00	60.2	72.1	64.0	45.0	
6:15:00	60.7	71.3	65.0	46.0	
6:30:00	63.0	77.3	67.0	47.0	
6:45:00	62.9	78.1	67.0	48.0	61.9
7:00:00	62.2	75.0	66.0	48.0	
7:15:00	64.5	83.4	68.0	48.0	
7:30:00	62.3	73.3	67.0	48.0	
7:45:00	62.6	75.6	67.0	47.0	63.0
8:00:00	61.4	74.1	66.0	47.0	
8:15:00	61.3	73.3	65.0	47.0	
8:30:00	60.9	75.5	64.0	47.0	
8:45:00	63.6	81.3	66.0	45.0	61.9
9:00:00	59.4	72.2	62.0	46.0	
9:15:00	61.1	72.0	65.0	45.0	
9:30:00	62.7	78.5	67.0	44.0	
9:45:00	61.6	72.4	65.0	44.0	61.4
10:00:00	61.0	71.6	65.0	45.0	
10:15:00	62.6	74.6	67.0	45.0	
10:30:00	62.0	75.3	66.0	43.0	
10:45:00	61.0	76.4	64.0	45.0	61.7
11:00:00	66.2	89.7	66.0	44.0	
11:15:00	61.1	73.0	65.0	44.0	
11:30:00	61.8	73.7	66.0	46.0	
11:45:00	60.8	73.3	64.0	45.0	63.1
12:00:00	61.9	78.2	65.0	44.0	
12:15:00	62.1	70.9	66.0	49.0	
12:30:00	61.9	76.4	65.0	45.0	
12:45:00	60.6	73.3	64.0	45.0	61.7
13:00:00	60.6	73.2	64.0	45.0	
13:15:00	61.7	73.0	66.0	46.0	
13:30:00	61.3	72.1	65.0	46.0	
13:45:00	61.0	72.0	64.0	48.0	61.2
14:00:00	63.0	80.9	65.0	47.0	
14:15:00	61.8	72.6	66.0	46.0	
14:30:00	61.0	72.2	64.0	47.0	
14:45:00	61.3	74.9	65.0	47.0	61.8
15:00:00	62.4	73.0	66.0	50.0	
15:15:00	60.6	72.1	64.0	48.0	
15:30:00	61.4	73.7	64.0	48.0	
15:45:00	60.7	72.9	63.0	47.0	61.3
16:00:00	61.3	74.5	64.0	45.0	
16:15:00	60.6	71.6	64.0	46.0	
16:30:00	60.3	70.9	64.0	44.0	
16:45:00	61.7	76.9	65.0	45.0	61.0
17:00:00	60.2	74.8	63.0	45.0	
17:15:00	58.4	69.4	62.0	44.0	
17:30:00	58.1	71.6	61.0	44.0	
17:45:00	58.6	70.6	62.0	43.0	58.9
18:00:00	58.9	74.9	62.0	44.0	
18:15:00	63.1	90.5	62.0	43.0	
18:30:00	59.1	74.0	61.0	45.0	
18:45:00	58.6	73.3	61.0	43.0	60.4
19:00:00	65.4	89.7	64.0	43.0	
19:15:00	58.7	71.0	62.0	45.0	
19:30:00	58.4	72.0	61.0	44.0	
19:45:00	57.9	70.5	61.0	44.0	61.4
20:00:00	57.3	71.1	60.0	47.0	
20:15:00	57.0	72.1	60.0	47.0	
20:30:00	57.7	72.6	60.0	48.0	
20:45:00	57.0	69.4	60.0	49.0	57.3
21:00:00	58.4	71.6	61.0	50.0	
21:15:00	57.3	71.8	59.0	52.0	
21:30:00	61.4	85.6	60.0	50.0	
21:45:00	56.6	74.9	58.0	50.0	58.8

	22:00:00	57.9	74.6	59.0	50.0	
	22:15:00	57.9	73.3	60.0	50.0	
	22:30:00	57.1	71.8	58.0	50.0	
	22:45:00	56.5	74.1	58.0	51.0	57.4
	23:00:00	57.8	72.6	59.0	51.0	
	23:15:00	57.6	74.5	58.0	50.0	
	23:30:00	56.1	70.9	57.0	48.0	
	23:45:00	55.7	71.8	57.0	47.0	56.9
8/6/2021	0:00:00	53.1	71.2	55.0	45.0	
	0:15:00	53.9	70.1	55.0	45.0	
	0:30:00	56.4	74.9	56.0	45.0	
	0:45:00	54.9	72.5	55.0	46.0	54.8
	1:00:00	54.2	69.7	55.0	47.0	
	1:15:00	55.8	71.7	56.0	46.0	
	1:30:00	54.0	69.8	55.0	46.0	
	1:45:00	56.4	72.1	58.0	47.0	55.2
	2:00:00	55.7	74.3	53.0	47.0	
	2:15:00	55.7	72.1	54.0	46.0	
	2:30:00	55.0	71.6	54.0	46.0	
	2:45:00	56.2	74.8	57.0	46.0	55.7
	3:00:00	53.1	72.1	50.0	44.0	
	3:15:00	54.3	71.2	55.0	45.0	
	3:30:00	51.1	70.5	49.0	45.0	
	3:45:00	54.8	70.1	56.0	46.0	53.5
	4:00:00	56.1	74.2	57.0	45.0	
	4:15:00	53.9	70.9	54.0	45.0	
	4:30:00	56.7	71.0	59.0	44.0	
	4:45:00	57.3	71.6	60.0	45.0	56.2
	5:00:00	56.4	72.4	59.0	45.0	
	5:15:00	57.3	70.9	61.0	45.0	
	5:30:00	58.1	70.7	62.0	46.0	
	5:45:00	60.6	72.1	65.0	48.0	58.4
	6:00:00	59.7	74.5	63.0	46.0	
	6:15:00	61.3	74.9	66.0	48.0	
	6:30:00	60.4	74.2	64.0	47.0	
	6:45:00	59.9	71.7	64.0	48.0	60.4
	7:00:00	61.6	75.7	65.0	48.0	
	7:15:00	62.1	76.1	66.0	49.0	
	7:30:00	61.6	73.2	65.0	49.0	
	7:45:00	61.5	74.1	65.0	47.0	61.7
	8:00:00	61.3	73.7	65.0	47.0	
	8:15:00	60.9	73.6	65.0	48.0	
	8:30:00	61.4	73.2	65.0	48.0	
	8:45:00	61.8	80.1	64.0	47.0	61.4
	9:00:00	61.4	74.0	65.0	48.0	
	9:15:00	63.5	78.8	66.0	48.0	
	9:30:00	62.1	74.7	66.0	47.0	
	9:45:00	61.8	73.5	65.0	48.0	62.3
	10:00:00	61.6	73.2	65.0	47.0	
	10:15:00	62.4	75.4	66.0	47.0	
	10:30:00	61.8	73.3	65.0	47.0	
	10:45:00	59.7	69.3	63.0	44.0	61.5
	11:00:00	61.8	73.3	66.0	45.0	
	11:15:00	62.2	75.3	66.0	44.0	
	11:30:00	62.3	74.8	66.0	43.0	
	11:45:00	61.9	76.1	65.0	44.0	62.1
	12:00:00	62.7	80.0	65.0	46.0	
	12:15:00	61.2	71.6	65.0	44.0	
	12:30:00	62.0	76.1	65.0	46.0	
	12:45:00	61.2	72.0	64.0	46.0	61.8
	13:00:00	62.0	77.9	65.0	46.0	
	13:15:00	61.0	72.9	64.0	44.0	
	13:30:00	62.2	80.0	66.0	45.0	
	13:45:00	61.8	74.5	65.0	45.0	61.8
	14:00:00	61.9	72.1	65.0	48.0	
	14:15:00	64.6	87.3	65.0	45.0	
	14:30:00	61.7	72.9	65.0	45.0	
	14:45:00	61.6	76.3	64.0	49.0	62.6
	15:00:00	60.3	70.9	64.0	46.0	

15:15:00	60.9	70.6	64.0	46.0	
15:30:00	63.8	89.5	64.0	45.0	
15:45:00	61.7	75.0	65.0	44.0	61.9
16:00:00	61.1	72.9	64.0	46.0	
16:15:00	60.0	71.6	63.0	42.0	
16:30:00	60.6	72.9	63.0	44.0	
16:45:00	71.1	93.6	65.0	43.0	66.1
17:00:00	68.9	92.8	65.0	46.0	
17:15:00	68.7	95.3	64.0	45.0	
17:30:00	60.9	74.4	63.0	46.0	67.4
17:45:00	70.6	89.6	74.0	46.0	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 3 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Traffic
9:45:00
12:45:00
15:45:00
18:45:00
21:45:00
0:45:00
3:45:00
6:45:00
9:45:00
12:45:00
15:45:00
18:45:00
21:45:00
0:45:00
3:45:00
6:45:00
9:45:00
12:45:00
15:45:00
18:45:00
21:45:00
0:45:00
3:45:00
6:45:00
9:45:00
12:45:00
15:45:00
18:45:00
21:45:00
0:45:00
3:45:00
6:45:00
9:45:00
12:45:00
15:45:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC3
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.12 SERIAL # 1511
REPORT PRINTED ON 08/08/21 at 16:04:59

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 09:45:00
TOTAL LOGGING TIME...4 DAYS 08:26:04
LOGGING STOPPED.....08/06/21 at 18:11:04
TOTAL INTERVALS.....418
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 16:09:14
PRE-TEST CALIBRATION RANGE...39.9 TO 139.9 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:35:12
POST-TEST CALIBRATION RANGE...40.6 TO 140.6
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 64.1dB
Lav (60)..... 63.8dB
Lav (60)..... 63.8dB
SEL..... 119.7dB
TWA..... 75.2dB
TWA (60)..... 74.9dB
TWA (60)..... 74.9dB
Lmax..... 112.7dB 08/06/21 at 18:10:50
Lpk.....OVER RANGE 08/06/21 at 18:10:50
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 3.04%
DOSE (60)..... 3.04%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	9:45:00	63.4	76.4	67.9	42.9	63.4
	10:00:00	63.6	77.1	67.9	42.9	
	10:15:00	63.3	74.9	68.9	43.9	
	10:30:00	63.8	76.9	68.9	42.9	
	10:45:00	63.0	76.4	66.9	45.9	63.4
	11:00:00	62.9	77.5	67.9	44.9	
	11:15:00	63.2	79.4	67.9	44.9	
	11:30:00	61.9	73.1	65.9	46.9	
	11:45:00	61.7	73.9	65.9	45.9	62.5
	12:00:00	62.6	76.2	66.9	46.9	
	12:15:00	62.3	75.2	65.9	47.9	
	12:30:00	61.9	73.1	65.9	46.9	
	12:45:00	63.3	78.3	67.9	44.9	62.6
	13:00:00	61.9	72.8	65.9	45.9	
	13:15:00	61.7	74.7	66.9	44.9	
	13:30:00	62.1	78.5	65.9	47.9	
	13:45:00	61.9	73.9	65.9	45.9	61.9
	14:00:00	61.8	72.9	66.9	44.9	
	14:15:00	60.6	74.4	64.9	48.9	
	14:30:00	63.6	80.0	66.9	45.9	
	14:45:00	61.5	74.7	65.9	48.9	62.0
	15:00:00	60.9	73.7	64.9	45.9	
	15:15:00	61.2	72.3	65.9	46.9	
	15:30:00	59.8	70.4	64.9	46.9	
	15:45:00	61.1	75.9	64.9	46.9	60.8
	16:00:00	61.2	71.8	64.9	46.9	
	16:15:00	61.3	75.3	64.9	44.9	
	16:30:00	61.1	74.0	64.9	43.9	
	16:45:00	61.9	74.0	65.9	46.9	61.4
	17:00:00	60.7	75.1	64.9	47.9	
	17:15:00	59.4	71.2	63.9	44.9	
	17:30:00	60.7	71.9	64.9	43.9	
	17:45:00	59.3	72.1	63.9	46.9	60.1
	18:00:00	60.8	74.0	64.9	46.9	
	18:15:00	61.4	73.7	65.9	42.9	
	18:30:00	60.3	74.8	63.9	43.9	
	18:45:00	60.9	73.2	64.9	43.9	60.9
	19:00:00	59.5	71.4	63.9	42.9	
	19:15:00	60.4	74.8	64.9	44.9	
	19:30:00	60.6	74.7	64.9	43.9	
	19:45:00	60.7	73.4	64.9	46.9	60.3
	20:00:00	59.4	72.3	62.9	44.9	
	20:15:00	60.6	76.3	63.9	44.9	
	20:30:00	60.0	80.6	62.9	42.9	
	20:45:00	58.0	71.1	61.9	43.9	59.6
	21:00:00	58.6	74.3	61.9	46.9	
	21:15:00	56.9	71.8	60.9	48.9	
	21:30:00	59.1	73.7	61.9	47.9	
	21:45:00	60.9	80.1	63.9	48.9	59.1
	22:00:00	57.9	74.0	60.9	46.9	
	22:15:00	56.7	73.9	59.9	46.9	
	22:30:00	56.8	73.9	59.9	45.9	
	22:45:00	57.5	75.9	60.9	47.9	57.3
	23:00:00	56.1	71.8	59.9	47.9	
	23:15:00	63.1	85.6	62.9	46.9	
	23:30:00	54.9	71.6	57.9	45.9	
	23:45:00	55.3	71.6	57.9	45.9	58.9
8/3/2021	0:00:00	56.7	73.6	59.9	45.9	
	0:15:00	57.2	72.9	59.9	44.9	
	0:30:00	58.3	75.5	60.9	43.9	
	0:45:00	57.4	74.3	59.9	44.9	57.4
	1:00:00	57.4	75.8	58.9	44.9	
	1:15:00	58.0	73.4	59.9	43.9	

1:30:00	55.4	74.4	55.9	42.9	
1:45:00	57.8	72.9	60.9	42.9	57.3
2:00:00	58.0	75.1	60.9	41.9	
2:15:00	56.9	73.1	59.9	41.9	
2:30:00	58.1	75.5	60.9	41.9	
2:45:00	56.7	72.4	59.9	41.9	57.5
3:00:00	58.2	74.7	60.9	41.9	
3:15:00	56.2	72.4	59.9	42.9	
3:30:00	58.5	74.7	60.9	41.9	
3:45:00	63.2	87.2	58.9	42.9	59.9
4:00:00	56.5	72.0	58.9	42.9	
4:15:00	55.1	74.3	56.9	42.9	
4:30:00	60.1	78.0	62.9	42.9	
4:45:00	58.7	73.6	62.9	42.9	58.0
5:00:00	60.7	74.7	64.9	42.9	
5:15:00	58.9	73.9	62.9	44.9	
5:30:00	60.7	74.3	64.9	42.9	
5:45:00	61.2	74.1	65.9	43.9	60.5
6:00:00	61.7	76.2	65.9	45.9	
6:15:00	62.1	79.1	65.9	45.9	
6:30:00	62.7	77.1	66.9	47.9	
6:45:00	62.6	79.5	66.9	46.9	62.3
7:00:00	61.4	75.4	64.9	45.9	
7:15:00	64.3	77.2	68.9	45.9	
7:30:00	62.2	74.8	66.9	45.9	
7:45:00	63.0	74.0	67.9	46.9	62.9
8:00:00	62.5	73.7	67.9	45.9	
8:15:00	63.9	75.4	68.9	45.9	
8:30:00	63.4	77.9	67.9	43.9	
8:45:00	63.1	76.3	67.9	44.9	63.3
9:00:00	62.8	75.2	67.9	43.9	
9:15:00	63.2	74.8	67.9	45.9	
9:30:00	62.5	73.9	67.9	43.9	
9:45:00	63.1	73.9	67.9	45.9	62.9
10:00:00	62.4	76.3	66.9	45.9	
10:15:00	63.2	78.3	67.9	43.9	
10:30:00	63.0	74.0	67.9	45.9	
10:45:00	62.5	74.0	66.9	42.9	62.8
11:00:00	62.9	74.8	67.9	42.9	
11:15:00	62.6	74.6	67.9	44.9	
11:30:00	61.3	75.2	65.9	43.9	
11:45:00	63.0	73.2	67.9	43.9	62.5
12:00:00	62.4	74.3	66.9	45.9	
12:15:00	63.8	73.9	68.9	46.9	
12:30:00	63.8	76.3	67.9	47.9	
12:45:00	62.9	73.2	66.9	43.9	63.3
13:00:00	63.6	76.7	67.9	47.9	
13:15:00	62.5	73.7	66.9	44.9	
13:30:00	62.2	75.2	66.9	44.9	
13:45:00	62.8	78.7	66.9	43.9	62.8
14:00:00	61.8	73.9	65.9	42.9	
14:15:00	61.9	73.5	65.9	44.9	
14:30:00	62.3	74.5	65.9	43.9	
14:45:00	62.1	76.4	65.9	44.9	62.0
15:00:00	61.9	73.1	66.9	46.9	
15:15:00	60.7	72.1	64.9	41.9	
15:30:00	63.1	74.1	66.9	45.9	
15:45:00	60.9	74.9	64.9	43.9	61.8
16:00:00	63.2	82.8	65.9	44.9	
16:15:00	61.7	72.6	65.9	42.9	
16:30:00	62.2	75.7	65.9	42.9	
16:45:00	62.3	72.1	66.9	43.9	62.4
17:00:00	62.4	78.6	65.9	44.9	
17:15:00	62.0	73.9	65.9	44.9	
17:30:00	60.6	73.2	64.9	45.9	
17:45:00	61.8	74.3	65.9	43.9	61.7
18:00:00	60.8	74.5	64.9	42.9	
18:15:00	60.1	72.9	63.9	43.9	
18:30:00	60.5	74.8	63.9	41.9	

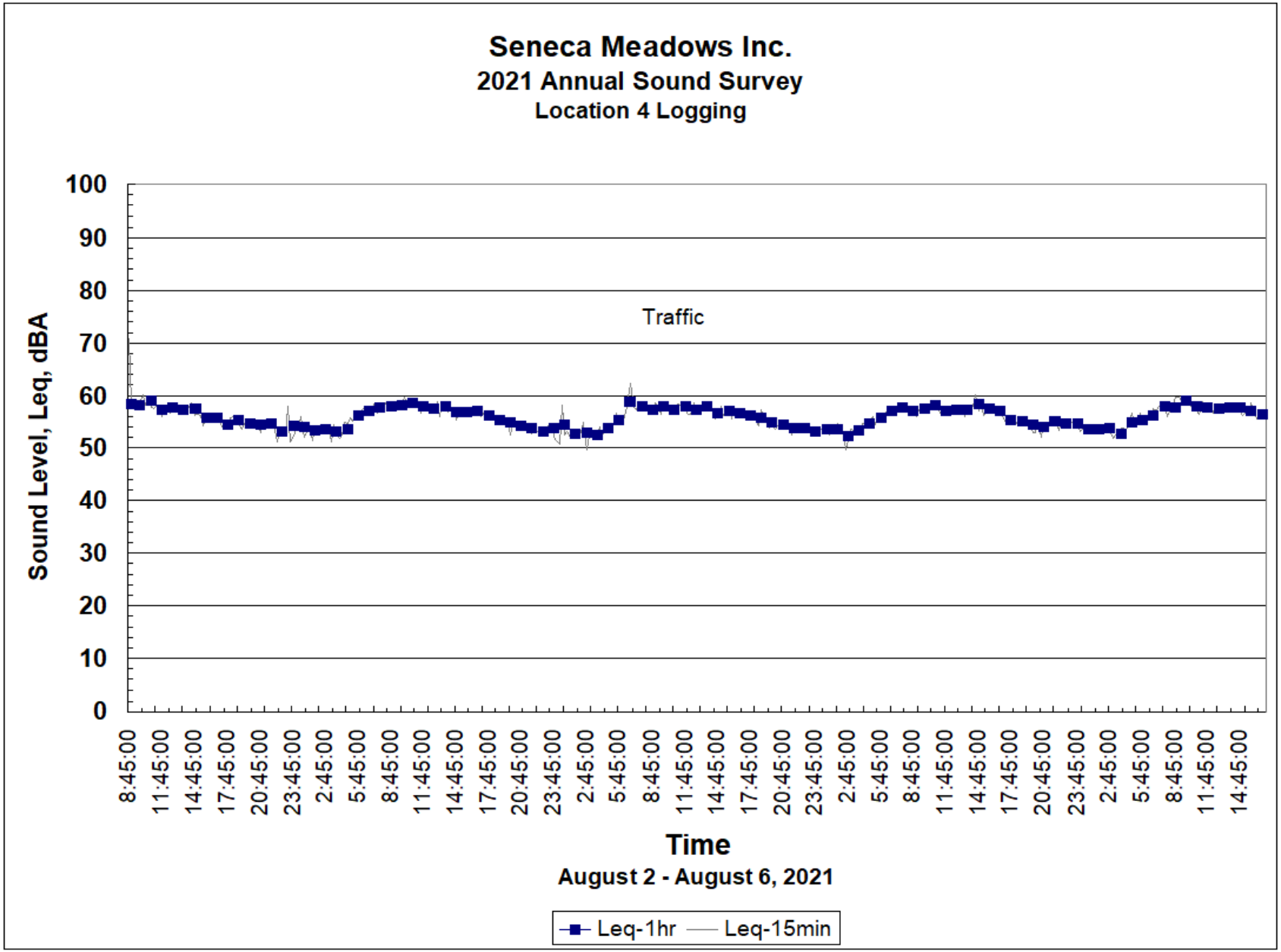
	18:45:00	61.4	75.0	65.9	43.9	60.7
	19:00:00	61.0	74.3	64.9	42.9	
	19:15:00	61.7	75.5	64.9	42.9	
	19:30:00	59.9	72.8	63.9	44.9	
	19:45:00	58.0	68.9	62.9	43.9	60.4
	20:00:00	60.3	75.7	63.9	42.9	
	20:15:00	58.7	72.8	62.9	45.9	
	20:30:00	59.8	73.5	63.9	44.9	
	20:45:00	58.7	74.3	62.9	47.9	59.4
	21:00:00	58.9	72.9	62.9	51.9	
	21:15:00	58.6	72.3	62.9	51.9	
	21:30:00	57.8	73.4	60.9	49.9	
	21:45:00	57.1	72.1	60.9	49.9	58.2
	22:00:00	55.3	69.2	58.9	49.9	
	22:15:00	57.6	74.0	60.9	49.9	
	22:30:00	56.5	70.1	60.9	48.9	
	22:45:00	56.3	73.0	58.9	48.9	56.5
	23:00:00	56.5	73.1	58.9	46.9	
	23:15:00	55.8	71.4	57.9	47.9	
	23:30:00	58.5	76.4	60.9	48.9	
	23:45:00	55.1	71.6	56.9	48.9	56.7
8/4/2021	0:00:00	55.3	73.5	55.9	48.9	
	0:15:00	53.1	69.5	54.9	46.9	
	0:30:00	61.1	83.5	57.9	45.9	
	0:45:00	54.6	72.3	54.9	45.9	57.2
	1:00:00	55.3	73.3	56.9	46.9	
	1:15:00	56.7	71.5	58.9	46.9	
	1:30:00	57.2	75.6	57.9	46.9	
	1:45:00	55.1	71.0	56.9	46.9	56.2
	2:00:00	56.4	72.0	58.9	45.9	
	2:15:00	55.8	71.6	58.9	44.9	
	2:30:00	56.9	73.5	59.9	44.9	
	2:45:00	53.8	71.2	52.9	43.9	55.9
	3:00:00	56.3	72.0	58.9	43.9	
	3:15:00	55.7	70.4	58.9	45.9	
	3:30:00	55.3	72.4	57.9	44.9	
	3:45:00	55.1	72.1	56.9	44.9	55.6
	4:00:00	58.4	74.7	61.9	44.9	
	4:15:00	55.5	74.8	57.9	44.9	
	4:30:00	53.0	67.7	56.9	42.9	
	4:45:00	60.4	78.7	62.9	43.9	57.7
	5:00:00	59.4	80.3	59.9	42.9	
	5:15:00	59.1	74.4	62.9	43.9	
	5:30:00	60.9	74.5	64.9	43.9	
	5:45:00	60.4	74.4	64.9	44.9	60.0
	6:00:00	59.7	73.1	63.9	45.9	
	6:15:00	60.7	76.5	64.9	43.9	
	6:30:00	62.2	79.5	65.9	46.9	
	6:45:00	62.8	74.4	67.9	46.9	61.5
	7:00:00	62.4	74.9	66.9	47.9	
	7:15:00	62.7	73.2	66.9	45.9	
	7:30:00	63.4	77.3	67.9	45.9	
	7:45:00	62.2	78.0	66.9	44.9	62.7
	8:00:00	62.7	73.4	67.9	46.9	
	8:15:00	62.8	74.1	67.9	44.9	
	8:30:00	62.4	73.3	66.9	43.9	
	8:45:00	62.5	73.7	66.9	45.9	62.6
	9:00:00	62.6	74.4	67.9	45.9	
	9:15:00	62.1	76.5	66.9	43.9	
	9:30:00	62.1	73.5	66.9	42.9	
	9:45:00	62.3	73.6	66.9	42.9	62.3
	10:00:00	63.8	77.6	67.9	42.9	
	10:15:00	61.3	74.4	65.9	41.9	
	10:30:00	62.5	79.5	65.9	42.9	
	10:45:00	61.1	74.4	64.9	41.9	62.3
	11:00:00	63.0	75.2	67.9	42.9	
	11:15:00	63.3	74.5	67.9	41.9	
	11:30:00	62.5	78.3	65.9	43.9	
	11:45:00	61.9	72.4	66.9	41.9	62.7

	12:00:00	62.7	74.0	66.9	43.9	
	12:15:00	61.6	72.9	65.9	44.9	
	12:30:00	62.5	77.6	65.9	43.9	
	12:45:00	62.0	73.1	66.9	42.9	62.2
	13:00:00	61.9	74.0	66.9	42.9	
	13:15:00	63.2	81.3	66.9	42.9	
	13:30:00	62.4	73.6	66.9	43.9	
	13:45:00	63.6	76.0	67.9	43.9	62.8
	14:00:00	61.2	72.9	64.9	43.9	
	14:15:00	62.7	76.9	66.9	43.9	
	14:30:00	61.0	72.9	64.9	42.9	
	14:45:00	61.6	74.8	65.9	43.9	61.7
	15:00:00	61.7	72.8	65.9	45.9	
	15:15:00	60.5	73.5	63.9	41.9	
	15:30:00	61.6	71.6	65.9	42.9	
	15:45:00	61.2	73.6	64.9	40.9	61.3
	16:00:00	61.5	73.4	65.9	42.9	
	16:15:00	60.8	73.1	64.9	40.9	
	16:30:00	61.6	75.8	64.9	45.9	
	16:45:00	62.8	74.2	66.9	44.9	61.7
	17:00:00	61.9	73.6	65.9	42.9	
	17:15:00	61.5	76.2	64.9	41.9	
	17:30:00	61.6	76.1	65.9	42.9	
	17:45:00	60.6	73.4	64.9	42.9	61.4
	18:00:00	61.2	75.0	64.9	42.9	
	18:15:00	61.0	74.5	64.9	43.9	
	18:30:00	58.7	72.6	62.9	43.9	
	18:45:00	59.3	74.8	63.9	43.9	60.2
	19:00:00	60.9	75.1	64.9	45.9	
	19:15:00	60.1	75.5	63.9	43.9	
	19:30:00	59.7	73.8	63.9	44.9	
	19:45:00	59.0	75.3	62.9	44.9	60.0
	20:00:00	59.7	75.1	62.9	45.9	
	20:15:00	59.0	74.7	61.9	48.9	
	20:30:00	60.3	73.1	63.9	50.9	
	20:45:00	58.7	71.5	62.9	50.9	59.5
	21:00:00	61.1	75.4	63.9	53.9	
	21:15:00	59.2	73.0	62.9	51.9	
	21:30:00	56.2	71.6	59.9	51.9	
	21:45:00	57.2	72.0	60.9	51.9	58.8
	22:00:00	58.6	75.3	61.9	51.9	
	22:15:00	57.8	72.8	60.9	51.9	
	22:30:00	57.2	72.5	59.9	51.9	
	22:45:00	57.5	72.3	60.9	51.9	57.8
	23:00:00	57.3	72.1	59.9	51.9	
	23:15:00	55.6	70.7	57.9	50.9	
	23:30:00	57.2	73.1	58.9	50.9	
	23:45:00	56.3	72.0	57.9	50.9	56.7
8/5/2021	0:00:00	56.0	72.5	57.9	49.9	
	0:15:00	57.0	73.8	58.9	49.9	
	0:30:00	55.9	73.2	56.9	49.9	
	0:45:00	56.7	72.9	58.9	48.9	56.4
	1:00:00	55.9	71.6	57.9	47.9	
	1:15:00	56.1	74.5	57.9	48.9	
	1:30:00	57.5	72.7	60.9	48.9	
	1:45:00	57.2	71.1	59.9	48.9	56.7
	2:00:00	59.0	76.0	59.9	48.9	
	2:15:00	56.4	72.0	57.9	47.9	
	2:30:00	55.0	72.0	54.9	47.9	
	2:45:00	54.2	72.1	55.9	47.9	56.6
	3:00:00	55.7	72.3	57.9	47.9	
	3:15:00	56.6	77.4	57.9	45.9	
	3:30:00	58.5	74.8	60.9	46.9	
	3:45:00	54.6	71.5	57.9	45.9	56.6
	4:00:00	63.4	83.5	63.9	46.9	
	4:15:00	58.4	77.3	59.9	47.9	
	4:30:00	58.1	73.1	60.9	45.9	
	4:45:00	59.4	77.7	61.9	47.9	60.4
	5:00:00	59.9	74.0	63.9	47.9	

5:15:00	59.4	71.2	63.9	47.9	
5:30:00	60.3	72.2	64.9	47.9	
5:45:00	61.0	72.7	65.9	47.9	60.2
6:00:00	61.6	73.7	65.9	45.9	
6:15:00	62.3	81.6	64.9	45.9	
6:30:00	62.4	79.2	65.9	45.9	
6:45:00	62.8	76.1	66.9	46.9	62.3
7:00:00	62.8	78.4	66.9	46.9	
7:15:00	62.7	77.4	67.9	46.9	
7:30:00	63.0	74.3	67.9	46.9	
7:45:00	62.2	72.8	66.9	46.9	62.7
8:00:00	64.1	84.3	67.9	47.9	
8:15:00	62.1	72.3	66.9	46.9	
8:30:00	62.0	73.9	66.9	46.9	
8:45:00	61.9	74.0	66.9	46.9	62.6
9:00:00	60.1	72.1	63.9	45.9	
9:15:00	61.2	71.9	65.9	45.9	
9:30:00	62.6	74.8	67.9	43.9	
9:45:00	62.2	73.1	66.9	44.9	61.6
10:00:00	62.2	75.9	66.9	42.9	
10:15:00	63.1	72.8	68.9	43.9	
10:30:00	63.0	77.7	67.9	43.9	
10:45:00	61.3	76.4	65.9	42.9	62.5
11:00:00	63.0	79.3	66.9	44.9	
11:15:00	61.9	73.6	66.9	42.9	
11:30:00	62.3	76.8	66.9	42.9	
11:45:00	61.4	71.9	65.9	41.9	62.2
12:00:00	61.9	76.0	65.9	42.9	
12:15:00	61.8	72.0	66.9	40.9	
12:30:00	61.4	74.6	65.9	42.9	
12:45:00	61.6	74.4	65.9	42.9	61.7
13:00:00	61.0	75.1	65.9	40.9	
13:15:00	62.0	75.3	66.9	42.9	
13:30:00	61.5	72.6	65.9	44.9	
13:45:00	60.9	72.8	65.9	42.9	61.4
14:00:00	62.5	75.6	65.9	41.9	
14:15:00	62.5	73.1	66.9	44.9	
14:30:00	61.0	71.5	65.9	40.9	
14:45:00	62.7	81.1	65.9	42.9	62.2
15:00:00	62.7	72.9	67.9	44.9	
15:15:00	61.7	73.1	65.9	41.9	
15:30:00	62.1	75.7	65.9	44.9	
15:45:00	61.8	74.1	65.9	41.9	62.1
16:00:00	62.3	75.9	65.9	43.9	
16:15:00	61.7	72.1	65.9	42.9	
16:30:00	61.5	72.8	65.9	45.9	
16:45:00	62.3	74.8	65.9	42.9	62.0
17:00:00	61.4	73.0	65.9	43.9	
17:15:00	59.9	72.0	63.9	44.9	
17:30:00	59.3	73.4	63.9	43.9	
17:45:00	60.2	71.3	64.9	41.9	60.3
18:00:00	60.6	72.1	64.9	43.9	
18:15:00	60.2	74.7	63.9	44.9	
18:30:00	60.5	74.9	63.9	45.9	
18:45:00	59.5	73.8	62.9	44.9	60.2
19:00:00	59.3	72.5	62.9	45.9	
19:15:00	60.0	72.7	64.9	48.9	
19:30:00	59.8	72.3	63.9	46.9	
19:45:00	59.7	72.0	63.9	47.9	59.7
20:00:00	59.1	71.4	62.9	49.9	
20:15:00	59.1	74.1	62.9	49.9	
20:30:00	59.0	72.8	62.9	48.9	
20:45:00	58.7	72.9	61.9	52.9	59.0
21:00:00	60.2	72.8	63.9	53.9	
21:15:00	58.0	72.4	60.9	52.9	
21:30:00	60.6	80.0	61.9	52.9	
21:45:00	57.5	71.8	59.9	51.9	59.3
22:00:00	58.3	75.3	60.9	50.9	
22:15:00	58.8	75.3	61.9	50.9	

	22:30:00	58.1	71.8	61.9	51.9	
	22:45:00	57.9	74.5	59.9	51.9	58.3
	23:00:00	58.1	71.6	60.9	51.9	
	23:15:00	58.3	73.9	60.9	51.9	
	23:30:00	57.5	71.1	59.9	51.9	
	23:45:00	57.2	71.6	59.9	51.9	57.8
8/6/2021	0:00:00	55.6	72.5	57.9	50.9	
	0:15:00	56.0	71.7	57.9	50.9	
	0:30:00	57.7	73.9	59.9	50.9	
	0:45:00	56.8	71.5	58.9	50.9	56.6
	1:00:00	55.6	70.3	57.9	51.9	
	1:15:00	57.7	73.9	59.9	51.9	
	1:30:00	56.2	70.8	58.9	51.9	
	1:45:00	57.9	75.2	59.9	50.9	57.0
	2:00:00	55.7	76.0	56.9	49.9	
	2:15:00	57.0	72.6	58.9	49.9	
	2:30:00	56.2	72.4	58.9	49.9	
	2:45:00	56.9	72.4	58.9	48.9	56.5
	3:00:00	55.1	73.0	54.9	48.9	
	3:15:00	56.4	71.7	58.9	49.9	
	3:30:00	53.4	68.8	52.9	49.9	
	3:45:00	56.9	71.6	59.9	49.9	55.6
	4:00:00	66.0	89.7	60.9	48.9	
	4:15:00	56.7	74.1	58.9	48.9	
	4:30:00	58.5	72.7	61.9	48.9	
	4:45:00	59.9	75.7	63.9	49.9	61.9
	5:00:00	59.8	74.4	63.9	49.9	
	5:15:00	59.0	72.7	62.9	47.9	
	5:30:00	59.6	71.3	63.9	48.9	
	5:45:00	61.7	75.4	66.9	47.9	60.1
	6:00:00	58.5	74.0	62.9	45.9	
	6:15:00	61.2	74.4	65.9	46.9	
	6:30:00	60.9	72.5	65.9	45.9	
	6:45:00	60.7	74.5	64.9	44.9	60.4
	7:00:00	62.6	76.2	66.9	47.9	
	7:15:00	62.7	76.4	66.9	47.9	
	7:30:00	62.6	73.3	66.9	46.9	
	7:45:00	63.0	75.0	67.9	46.9	62.7
	8:00:00	61.7	73.1	66.9	46.9	
	8:15:00	62.0	76.9	66.9	45.9	
	8:30:00	61.7	73.1	66.9	46.9	
	8:45:00	62.4	79.5	66.9	45.9	62.0
	9:00:00	62.3	74.3	66.9	45.9	
	9:15:00	63.6	79.2	67.9	45.9	
	9:30:00	63.1	74.4	67.9	44.9	
	9:45:00	61.8	72.3	65.9	46.9	62.8
	10:00:00	62.9	74.1	67.9	43.9	
	10:15:00	63.2	77.2	67.9	44.9	
	10:30:00	62.6	78.9	65.9	44.9	
	10:45:00	61.1	71.9	65.9	43.9	62.5
	11:00:00	61.7	72.9	66.9	43.9	
	11:15:00	62.5	77.1	66.9	43.9	
	11:30:00	62.8	76.3	67.9	44.9	
	11:45:00	62.1	74.9	66.9	45.9	62.3
	12:00:00	62.5	74.4	66.9	44.9	
	12:15:00	62.9	81.6	66.9	44.9	
	12:30:00	62.2	72.4	66.9	45.9	
	12:45:00	62.9	79.8	65.9	43.9	62.6
	13:00:00	61.7	72.9	65.9	47.9	
	13:15:00	61.8	72.9	65.9	45.9	
	13:30:00	61.8	72.9	65.9	45.9	
	13:45:00	62.1	77.2	66.9	44.9	61.9
	14:00:00	62.3	72.3	66.9	44.9	
	14:15:00	63.1	81.6	66.9	44.9	
	14:30:00	62.0	73.9	65.9	46.9	
	14:45:00	62.4	77.3	65.9	45.9	62.5
	15:00:00	60.9	71.1	64.9	45.9	
	15:15:00	61.6	72.0	65.9	44.9	
	15:30:00	62.5	75.0	66.9	46.9	

15:45:00	63.0	78.9	66.9	44.9	62.1
16:00:00	62.4	74.5	65.9	48.9	
16:15:00	61.3	72.3	64.9	44.9	
16:30:00	61.9	73.9	65.9	44.9	
16:45:00	61.5	73.8	65.9	42.9	61.8
17:00:00	61.7	73.5	65.9	44.9	
17:15:00	62.3	75.6	65.9	41.9	
17:30:00	62.1	75.5	65.9	43.9	
17:45:00	61.8	76.0	65.9	42.9	62.0
18:00:00	88.7	112.7	80.9	42.9	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 4 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Traffic
8:45:00
11:45:00
14:45:00
17:45:00
20:45:00
23:45:00
2:45:00
5:45:00
8:45:00
11:45:00
14:45:00
17:45:00
20:45:00
23:45:00
2:45:00
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8:45:00
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17:45:00
20:45:00
23:45:00
2:45:00
5:45:00
8:45:00
11:45:00
14:45:00
17:45:00
20:45:00
23:45:00
2:45:00
5:45:00
8:45:00
11:45:00
14:45:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC4
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.20 SERIAL # 3819
REPORT PRINTED ON 08/08/21 at 16:05:16

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 08:45:00
TOTAL LOGGING TIME...4 DAYS 09:36:08
LOGGING STOPPED.....08/06/21 at 18:21:08
TOTAL INTERVALS.....423
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 16:18:34
PRE-TEST CALIBRATION RANGE...39.7 TO 139.7 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:31:30
POST-TEST CALIBRATION RANGE...40.9 TO 140.9
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 56.9dB
Lav (60)..... 54.7dB
Lav (60)..... 54.7dB
SEL..... 112.5dB
TWA..... 68.0dB
TWA (60)..... 65.8dB
TWA (60)..... 65.8dB
Lmax..... 95.9dB 08/02/21 at 08:45:04
Lpk..... 126.6dB 08/02/21 at 08:45:03
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 0.37%
DOSE (60)..... 0.37%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	8:45:00	70.9	95.9	65.7	46.7	
	9:00:00	58.4	73.8	62.7	46.7	58.4
	9:15:00	57.5	69.9	61.7	45.7	
	9:30:00	57.9	72.8	61.7	44.7	
	9:45:00	58.6	71.9	62.7	46.7	58.1
	10:00:00	60.2	76.7	63.7	46.7	
	10:15:00	58.2	70.3	62.7	46.7	
	10:30:00	59.3	70.7	63.7	47.7	
	10:45:00	57.8	70.7	61.7	46.7	59.0
	11:00:00	57.6	70.5	61.7	46.7	
	11:15:00	58.0	69.5	62.7	45.7	
	11:30:00	57.6	69.5	61.7	45.7	
	11:45:00	56.0	67.9	58.7	46.7	57.4
	12:00:00	58.0	72.3	61.7	45.7	
	12:15:00	57.7	72.3	61.7	45.7	
	12:30:00	56.7	68.3	60.7	45.7	
	12:45:00	58.3	71.1	62.7	44.7	57.7
	13:00:00	57.5	70.3	61.7	45.7	
	13:15:00	57.3	68.4	61.7	44.7	
	13:30:00	57.0	71.1	59.7	45.7	
	13:45:00	57.3	74.2	60.7	44.7	57.3
	14:00:00	56.7	69.1	60.7	45.7	
	14:15:00	57.9	72.7	61.7	46.7	
	14:30:00	58.7	75.5	61.7	48.7	
	14:45:00	56.2	72.3	58.7	46.7	57.5
	15:00:00	56.4	67.9	59.7	46.7	
	15:15:00	56.2	67.9	59.7	46.7	
	15:30:00	54.3	65.9	57.7	45.7	
	15:45:00	56.1	68.7	59.7	46.7	55.8
	16:00:00	56.1	67.5	59.7	45.7	
	16:15:00	55.1	67.1	58.7	45.7	
	16:30:00	55.8	68.3	58.7	46.7	
	16:45:00	56.2	68.3	59.7	46.7	55.8
	17:00:00	55.1	71.9	57.7	47.7	
	17:15:00	53.8	65.5	56.7	47.7	
	17:30:00	55.1	65.8	57.7	47.7	
	17:45:00	53.8	66.7	56.7	47.7	54.5
	18:00:00	55.8	69.5	58.7	47.7	
	18:15:00	55.9	68.3	59.7	47.7	
	18:30:00	54.5	67.6	57.7	46.7	
	18:45:00	54.8	67.5	57.7	47.7	55.3
	19:00:00	53.5	67.1	56.7	47.7	
	19:15:00	54.7	68.7	57.7	46.7	
	19:30:00	55.1	67.5	58.7	47.7	
	19:45:00	54.9	66.7	58.7	48.7	54.6
	20:00:00	54.7	68.3	56.7	47.7	
	20:15:00	55.4	71.1	57.7	47.7	
	20:30:00	54.1	74.3	55.7	46.7	
	20:45:00	53.0	64.9	55.7	48.7	54.4
	21:00:00	55.1	71.5	57.7	48.7	
	21:15:00	54.3	67.5	56.7	49.7	
	21:30:00	54.4	68.7	55.7	50.7	
	21:45:00	54.7	69.9	56.7	48.7	54.6
	22:00:00	54.7	67.6	56.7	49.7	
	22:15:00	51.1	63.9	52.7	48.7	
	22:30:00	53.0	68.7	54.7	48.7	
	22:45:00	53.3	67.3	54.7	48.7	53.2
	23:00:00	52.3	65.5	54.7	47.7	
	23:15:00	57.9	78.3	58.7	47.7	
	23:30:00	51.3	65.9	52.7	47.7	
	23:45:00	52.2	67.5	53.7	47.7	54.3
8/3/2021	0:00:00	53.9	72.0	55.7	47.7	
	0:15:00	53.5	69.9	57.7	47.7	

0:30:00	56.0	72.4	58.7	46.7	
0:45:00	52.0	67.1	53.7	46.7	54.1
1:00:00	53.2	69.9	54.7	46.7	
1:15:00	54.3	68.3	57.7	46.7	
1:30:00	51.4	68.7	51.7	45.7	
1:45:00	54.3	69.1	57.7	45.7	53.5
2:00:00	53.9	69.1	57.7	45.7	
2:15:00	54.0	68.7	57.7	46.7	
2:30:00	53.5	68.6	56.7	45.7	
2:45:00	53.3	67.9	56.7	45.7	53.7
3:00:00	53.5	67.9	55.7	45.7	
3:15:00	51.3	66.7	54.7	45.7	
3:30:00	54.5	71.9	56.7	45.7	
3:45:00	53.1	67.6	55.7	45.7	53.2
4:00:00	51.8	67.1	53.7	45.7	
4:15:00	52.5	68.3	55.7	45.7	
4:30:00	54.9	69.5	57.7	46.7	
4:45:00	54.7	70.3	57.7	46.7	53.7
5:00:00	55.7	67.5	58.7	45.7	
5:15:00	55.2	68.7	58.7	45.7	
5:30:00	56.7	70.8	60.7	44.7	
5:45:00	56.9	69.9	61.7	45.7	56.2
6:00:00	56.7	71.9	60.7	45.7	
6:15:00	57.6	73.1	61.7	45.7	
6:30:00	56.9	71.9	59.7	45.7	
6:45:00	57.1	68.0	60.7	46.7	57.1
7:00:00	57.3	73.4	60.7	45.7	
7:15:00	58.5	70.1	62.7	46.7	
7:30:00	56.7	70.1	60.7	45.7	
7:45:00	58.4	72.3	62.7	46.7	57.8
8:00:00	57.3	69.1	61.7	45.7	
8:15:00	58.5	73.0	62.7	45.7	
8:30:00	58.1	69.1	62.7	44.7	
8:45:00	57.8	70.7	61.7	45.7	57.9
9:00:00	58.6	70.7	62.7	45.7	
9:15:00	57.7	70.7	61.7	44.7	
9:30:00	58.2	69.5	63.7	44.7	
9:45:00	58.2	71.3	62.7	44.7	58.2
10:00:00	59.6	75.1	63.7	44.7	
10:15:00	58.4	70.7	62.7	44.7	
10:30:00	57.9	70.1	62.7	43.7	
10:45:00	58.3	69.9	62.7	44.7	58.6
11:00:00	58.6	78.3	61.7	45.7	
11:15:00	58.2	70.7	62.7	45.7	
11:30:00	56.6	69.1	60.7	44.7	
11:45:00	58.2	69.5	62.7	45.7	58.0
12:00:00	57.3	68.3	61.7	46.7	
12:15:00	58.1	68.7	62.7	45.7	
12:30:00	57.9	70.5	62.7	45.7	
12:45:00	57.0	67.9	60.7	44.7	57.6
13:00:00	58.9	71.9	62.7	45.7	
13:15:00	56.1	67.6	59.7	45.7	
13:30:00	58.5	76.7	61.7	44.7	
13:45:00	57.6	70.8	61.7	43.7	57.9
14:00:00	56.9	67.5	60.7	44.7	
14:15:00	57.0	68.5	60.7	43.7	
14:30:00	57.5	72.7	60.7	43.7	
14:45:00	55.4	67.1	58.7	44.7	56.8
15:00:00	56.6	69.5	60.7	44.7	
15:15:00	56.6	68.1	60.7	45.7	
15:30:00	57.6	69.9	61.7	45.7	
15:45:00	56.4	68.7	59.7	46.7	56.8
16:00:00	56.9	68.0	60.7	45.7	
16:15:00	57.0	69.5	61.7	45.7	
16:30:00	56.2	69.5	59.7	45.7	
16:45:00	58.0	72.3	61.7	46.7	57.1
17:00:00	56.0	68.3	58.7	45.7	
17:15:00	56.6	68.7	59.7	45.7	
17:30:00	55.8	68.2	59.7	45.7	

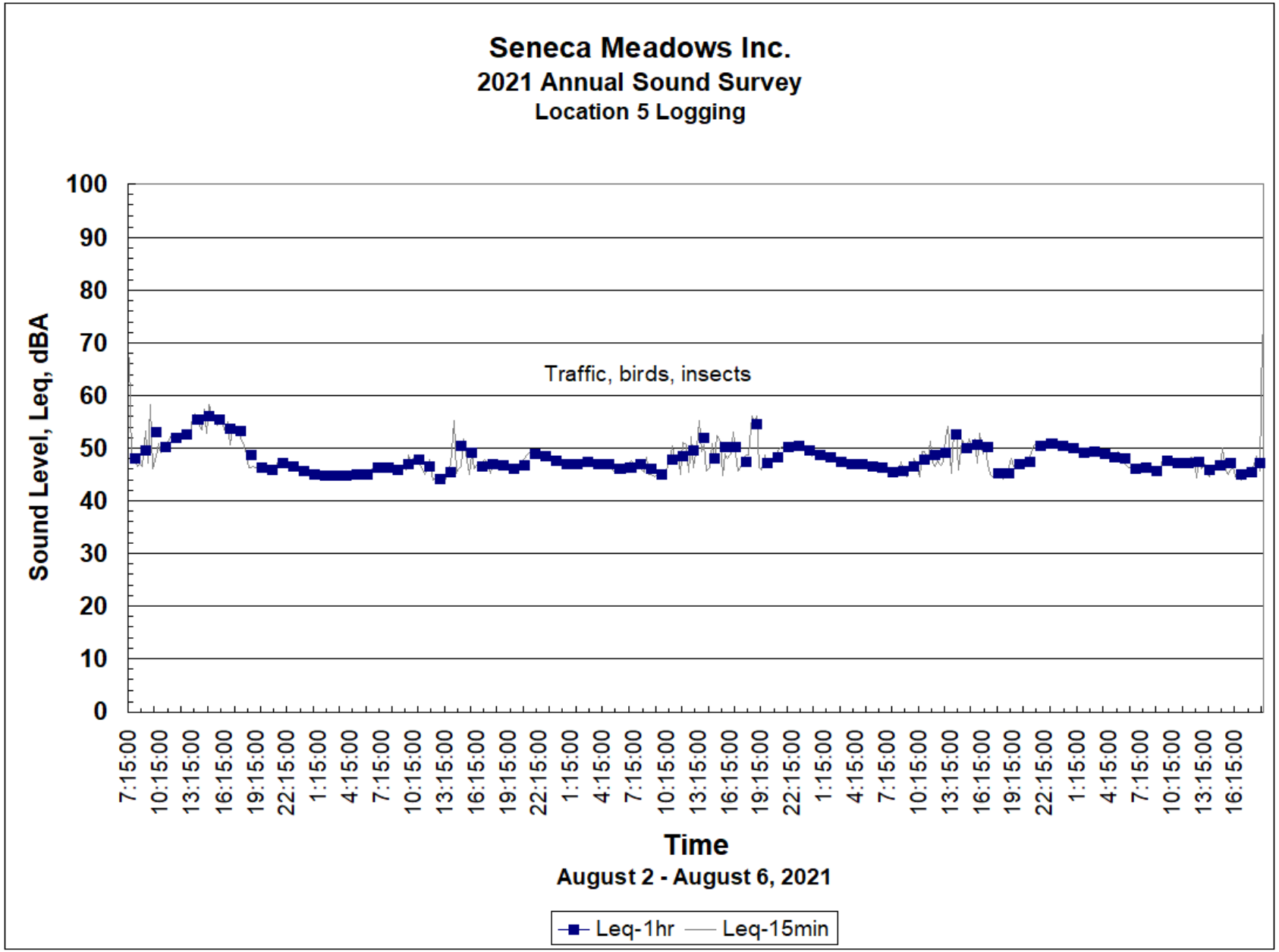
	17:45:00	56.3	70.7	59.7	45.7	56.2
	18:00:00	55.7	68.3	58.7	45.7	
	18:15:00	55.5	69.9	58.7	46.7	
	18:30:00	54.7	71.1	57.7	45.7	
	18:45:00	55.7	69.5	59.7	45.7	55.4
	19:00:00	56.0	72.7	59.7	46.7	
	19:15:00	56.0	69.9	59.7	46.7	
	19:30:00	54.5	68.9	57.7	46.7	
	19:45:00	52.4	64.7	55.7	45.7	55.0
	20:00:00	54.7	69.0	56.7	46.7	
	20:15:00	54.3	70.0	57.7	46.7	
	20:30:00	53.8	66.3	57.7	46.7	
	20:45:00	54.1	65.9	57.7	48.7	54.2
	21:00:00	54.0	64.7	56.7	49.7	
	21:15:00	53.7	67.0	56.7	49.7	
	21:30:00	54.7	73.1	55.7	49.7	
	21:45:00	52.7	66.4	54.7	49.7	53.8
	22:00:00	53.8	67.4	55.7	49.7	
	22:15:00	53.1	65.9	54.7	50.7	
	22:30:00	53.0	64.8	55.7	50.7	
	22:45:00	52.8	67.5	53.7	49.7	53.2
	23:00:00	53.9	68.1	55.7	50.7	
	23:15:00	54.3	67.5	55.7	49.7	
	23:30:00	54.4	72.7	54.7	49.7	
	23:45:00	52.2	66.7	52.7	49.7	53.8
8/4/2021	0:00:00	51.5	68.2	52.7	49.7	
	0:15:00	50.7	63.9	51.7	48.7	
	0:30:00	58.2	80.7	54.7	48.7	
	0:45:00	52.5	65.9	54.7	48.7	54.4
	1:00:00	53.1	70.4	54.7	48.7	
	1:15:00	52.1	65.5	53.7	48.7	
	1:30:00	52.7	71.5	52.7	48.7	
	1:45:00	52.5	66.7	53.7	48.7	52.6
	2:00:00	52.5	65.9	54.7	48.7	
	2:15:00	53.0	67.1	54.7	47.7	
	2:30:00	54.8	71.1	57.7	48.7	
	2:45:00	49.7	63.9	49.7	47.7	52.9
	3:00:00	52.6	67.5	54.7	47.7	
	3:15:00	52.8	67.4	55.7	47.7	
	3:30:00	52.2	66.8	54.7	47.7	
	3:45:00	52.5	69.5	53.7	47.7	52.5
	4:00:00	54.0	69.1	56.7	47.7	
	4:15:00	52.0	70.1	51.7	47.7	
	4:30:00	54.7	74.3	55.7	47.7	
	4:45:00	54.3	69.1	56.7	47.7	53.9
	5:00:00	54.2	67.5	56.7	46.7	
	5:15:00	54.9	68.3	57.7	46.7	
	5:30:00	56.6	71.2	60.7	45.7	
	5:45:00	55.3	66.7	59.7	45.7	55.3
	6:00:00	55.0	67.1	57.7	45.7	
	6:15:00	56.1	71.1	59.7	45.7	
	6:30:00	58.0	72.3	61.7	46.7	
	6:45:00	62.3	88.1	62.7	46.7	58.8
	7:00:00	57.7	69.5	61.7	45.7	
	7:15:00	57.4	69.9	61.7	45.7	
	7:30:00	58.6	73.9	62.7	45.7	
	7:45:00	57.7	69.8	62.7	44.7	57.9
	8:00:00	57.2	70.5	61.7	44.7	
	8:15:00	58.4	72.3	62.7	45.7	
	8:30:00	56.4	67.9	60.7	45.7	
	8:45:00	57.3	69.2	61.7	44.7	57.4
	9:00:00	58.5	71.5	62.7	45.7	
	9:15:00	58.0	69.7	62.7	44.7	
	9:30:00	56.5	67.4	60.7	44.7	
	9:45:00	58.3	69.5	63.7	44.7	57.9
	10:00:00	57.6	67.9	62.7	45.7	
	10:15:00	57.3	69.9	61.7	43.7	
	10:30:00	56.9	70.3	60.7	43.7	
	10:45:00	57.4	72.3	61.7	43.7	57.3

	11:00:00	58.4	71.5	62.7	43.7	
	11:15:00	58.1	69.1	62.7	43.7	
	11:30:00	57.7	69.9	61.7	45.7	
	11:45:00	57.1	68.7	61.7	44.7	57.9
	12:00:00	56.5	67.0	60.7	44.7	
	12:15:00	56.5	68.7	59.7	44.7	
	12:30:00	58.7	75.9	61.7	45.7	
	12:45:00	57.2	67.1	61.7	43.7	57.3
	13:00:00	57.8	72.2	61.7	43.7	
	13:15:00	56.7	70.8	60.7	42.7	
	13:30:00	58.3	73.5	62.7	45.7	
	13:45:00	58.6	71.1	63.7	45.7	57.9
	14:00:00	57.3	69.9	61.7	43.7	
	14:15:00	57.4	69.9	61.7	44.7	
	14:30:00	55.5	66.7	59.7	44.7	
	14:45:00	56.5	69.5	60.7	43.7	56.7
	15:00:00	58.0	73.7	61.7	45.7	
	15:15:00	56.2	67.9	59.7	45.7	
	15:30:00	56.3	67.1	59.7	45.7	
	15:45:00	57.5	69.2	61.7	46.7	57.1
	16:00:00	55.6	67.5	58.7	47.7	
	16:15:00	57.2	70.3	59.7	47.7	
	16:30:00	55.9	69.9	58.7	47.7	
	16:45:00	57.6	69.9	61.7	48.7	56.7
	17:00:00	55.9	66.4	59.7	47.7	
	17:15:00	57.0	70.7	60.7	47.7	
	17:30:00	55.9	70.9	58.7	47.7	
	17:45:00	56.1	69.3	59.7	47.7	56.2
	18:00:00	56.4	68.3	59.7	45.7	
	18:15:00	55.0	70.4	57.7	46.7	
	18:30:00	54.3	67.0	57.7	48.7	
	18:45:00	57.2	74.3	57.7	48.7	55.9
	19:00:00	55.9	69.5	58.7	48.7	
	19:15:00	55.2	68.1	58.7	46.7	
	19:30:00	53.9	69.1	56.7	45.7	
	19:45:00	54.2	69.1	56.7	46.7	54.9
	20:00:00	53.7	68.3	55.7	46.7	
	20:15:00	54.3	68.3	57.7	45.7	
	20:30:00	54.6	68.6	56.7	46.7	
	20:45:00	55.0	68.7	57.7	49.7	54.4
	21:00:00	54.2	67.3	56.7	49.7	
	21:15:00	54.5	67.0	57.7	50.7	
	21:30:00	52.6	66.7	54.7	49.7	
	21:45:00	54.0	69.1	55.7	50.7	53.9
	22:00:00	53.5	65.5	55.7	50.7	
	22:15:00	53.8	66.7	55.7	50.7	
	22:30:00	54.2	69.9	55.7	50.7	
	22:45:00	53.4	66.7	55.7	50.7	53.7
	23:00:00	53.6	66.8	54.7	50.7	
	23:15:00	52.9	65.5	53.7	50.7	
	23:30:00	53.4	68.3	54.7	50.7	
	23:45:00	53.0	68.6	53.7	49.7	53.2
8/5/2021	0:00:00	53.5	68.6	54.7	50.7	
	0:15:00	53.6	68.3	54.7	49.7	
	0:30:00	53.7	68.3	54.7	49.7	
	0:45:00	53.2	69.9	52.7	49.7	53.5
	1:00:00	52.6	68.7	53.7	49.7	
	1:15:00	53.4	68.3	55.7	49.7	
	1:30:00	53.3	67.1	54.7	49.7	
	1:45:00	54.7	67.9	57.7	48.7	53.6
	2:00:00	52.9	67.6	51.7	49.7	
	2:15:00	53.8	67.9	53.7	48.7	
	2:30:00	49.6	61.5	49.7	48.7	
	2:45:00	51.6	66.4	52.7	48.7	52.2
	3:00:00	53.7	67.5	55.7	48.7	
	3:15:00	53.3	69.4	54.7	48.7	
	3:30:00	52.9	68.0	55.7	48.7	
	3:45:00	53.2	66.3	55.7	48.7	53.3
	4:00:00	54.7	71.5	57.7	47.7	

4:15:00	54.4	69.5	57.7	47.7	
4:30:00	54.2	67.8	56.7	48.7	
4:45:00	55.3	69.9	57.7	48.7	54.7
5:00:00	55.9	69.5	59.7	48.7	
5:15:00	54.5	67.1	57.7	46.7	
5:30:00	56.3	68.3	60.7	46.7	
5:45:00	56.3	67.9	60.7	46.7	55.8
6:00:00	55.9	71.1	59.7	45.7	
6:15:00	56.8	72.7	61.7	45.7	
6:30:00	57.8	72.7	61.7	45.7	
6:45:00	57.9	70.7	61.7	45.7	57.2
7:00:00	57.4	69.1	61.7	46.7	
7:15:00	58.2	71.5	62.7	45.7	
7:30:00	57.4	70.3	61.7	45.7	
7:45:00	57.5	70.0	61.7	45.7	57.6
8:00:00	57.1	68.1	61.7	45.7	
8:15:00	57.0	69.1	61.7	45.7	
8:30:00	57.0	68.0	61.7	45.7	
8:45:00	56.8	68.7	60.7	46.7	57.0
9:00:00	56.0	69.1	59.7	45.7	
9:15:00	57.4	69.1	61.7	44.7	
9:30:00	58.0	71.5	62.7	46.7	
9:45:00	58.1	69.7	62.7	45.7	57.5
10:00:00	57.9	69.5	62.7	45.7	
10:15:00	58.4	73.5	62.7	46.7	
10:30:00	57.7	68.5	61.7	47.7	
10:45:00	58.6	75.9	61.7	45.7	58.2
11:00:00	57.9	69.5	62.7	45.7	
11:15:00	56.6	69.1	60.7	47.7	
11:30:00	57.1	68.7	61.7	43.7	
11:45:00	56.9	66.8	61.7	44.7	57.2
12:00:00	58.0	73.1	61.7	45.7	
12:15:00	57.1	67.4	61.7	44.7	
12:30:00	57.6	73.5	61.7	44.7	
12:45:00	56.8	69.9	60.7	43.7	57.4
13:00:00	57.7	70.7	61.7	44.7	
13:15:00	57.7	70.7	62.7	46.7	
13:30:00	55.9	66.7	59.7	46.7	
13:45:00	57.8	73.4	61.7	45.7	57.3
14:00:00	57.9	76.2	60.7	47.7	
14:15:00	58.0	67.5	61.7	47.7	
14:30:00	60.1	83.9	60.7	47.7	
14:45:00	57.0	67.9	61.7	45.7	58.4
15:00:00	58.5	70.6	62.7	46.7	
15:15:00	56.2	69.4	59.7	47.7	
15:30:00	57.3	70.7	60.7	48.7	
15:45:00	57.7	70.8	60.7	47.7	57.5
16:00:00	57.5	71.0	61.7	49.7	
16:15:00	56.5	67.5	59.7	49.7	
16:30:00	57.1	69.9	59.7	49.7	
16:45:00	57.5	72.2	61.7	48.7	57.2
17:00:00	56.3	67.1	59.7	49.7	
17:15:00	54.8	67.1	57.7	49.7	
17:30:00	55.0	66.6	58.7	48.7	
17:45:00	54.7	68.7	57.7	48.7	55.3
18:00:00	56.0	69.5	58.7	47.7	
18:15:00	54.6	68.7	56.7	48.7	
18:30:00	55.5	70.7	57.7	48.7	
18:45:00	54.3	68.4	57.7	46.7	55.2
19:00:00	55.2	68.3	58.7	47.7	
19:15:00	54.8	67.9	57.7	47.7	
19:30:00	54.6	68.3	57.7	47.7	
19:45:00	52.9	66.7	55.7	46.7	54.5
20:00:00	52.9	68.3	55.7	46.7	
20:15:00	55.1	67.4	58.7	47.7	
20:30:00	52.1	63.9	53.7	47.7	
20:45:00	54.9	71.1	56.7	50.7	53.9
21:00:00	54.4	67.9	56.7	50.7	
21:15:00	54.2	69.5	55.7	51.7	

	21:30:00	55.9	72.7	57.7	51.7	
	21:45:00	55.4	70.0	55.7	51.7	55.0
	22:00:00	53.4	65.9	54.7	51.7	
	22:15:00	55.3	69.5	57.7	51.7	
	22:30:00	55.2	68.4	56.7	51.7	
	22:45:00	54.4	66.3	55.7	51.7	54.6
	23:00:00	55.2	69.0	56.7	51.7	
	23:15:00	55.0	68.1	55.7	51.7	
	23:30:00	54.2	67.5	54.7	51.7	
	23:45:00	54.4	68.3	55.7	51.7	54.7
8/6/2021	0:00:00	53.1	66.8	54.7	51.7	
	0:15:00	53.6	69.1	54.7	51.7	
	0:30:00	53.9	67.9	54.7	51.7	
	0:45:00	53.7	67.1	55.7	50.7	53.6
	1:00:00	53.0	68.3	52.7	50.7	
	1:15:00	53.3	68.3	54.7	50.7	
	1:30:00	54.2	67.4	56.7	49.7	
	1:45:00	53.7	71.2	53.7	49.7	53.6
	2:00:00	53.6	69.9	53.7	49.7	
	2:15:00	53.8	67.9	55.7	49.7	
	2:30:00	54.5	69.1	57.7	49.7	
	2:45:00	53.6	69.5	54.7	49.7	53.9
	3:00:00	51.9	66.7	52.7	49.7	
	3:15:00	52.5	67.9	54.7	49.7	
	3:30:00	52.0	66.3	52.7	49.7	
	3:45:00	53.9	68.3	55.7	49.7	52.7
	4:00:00	53.9	68.3	55.7	49.7	
	4:15:00	53.3	68.9	54.7	48.7	
	4:30:00	55.1	67.9	57.7	49.7	
	4:45:00	56.6	69.9	60.7	49.7	54.9
	5:00:00	54.4	67.9	57.7	48.7	
	5:15:00	54.3	67.5	57.7	48.7	
	5:30:00	56.7	71.1	60.7	47.7	
	5:45:00	55.8	67.9	59.7	47.7	55.4
	6:00:00	55.1	70.3	58.7	46.7	
	6:15:00	56.4	72.7	59.7	46.7	
	6:30:00	55.9	69.1	59.7	46.7	
	6:45:00	57.5	70.3	61.7	46.7	56.3
	7:00:00	57.1	70.1	61.7	46.7	
	7:15:00	57.9	71.2	61.7	47.7	
	7:30:00	58.1	68.8	62.7	47.7	
	7:45:00	58.4	69.5	62.7	47.7	57.9
	8:00:00	56.0	69.4	59.7	46.7	
	8:15:00	56.9	67.5	61.7	46.7	
	8:30:00	57.2	68.3	61.7	46.7	
	8:45:00	59.7	77.1	63.7	46.7	57.7
	9:00:00	59.8	74.4	63.7	49.7	
	9:15:00	59.4	73.3	63.7	47.7	
	9:30:00	58.1	70.5	62.7	46.7	
	9:45:00	58.6	69.9	62.7	47.7	59.0
	10:00:00	58.6	69.9	62.7	46.7	
	10:15:00	57.8	70.7	61.7	46.7	
	10:30:00	57.7	70.4	62.7	46.7	
	10:45:00	57.2	68.3	61.7	46.7	57.9
	11:00:00	56.5	68.7	60.7	47.7	
	11:15:00	58.9	69.9	63.7	46.7	
	11:30:00	57.8	68.6	61.7	45.7	
	11:45:00	57.2	67.4	61.7	45.7	57.7
	12:00:00	57.8	69.9	61.7	46.7	
	12:15:00	56.6	66.3	60.7	45.7	
	12:30:00	58.4	74.7	62.7	45.7	
	12:45:00	57.3	69.1	61.7	46.7	57.6
	13:00:00	57.1	68.9	60.7	46.7	
	13:15:00	58.3	73.4	62.7	45.7	
	13:30:00	58.0	72.3	61.7	45.7	
	13:45:00	57.1	68.7	60.7	46.7	57.7
	14:00:00	58.2	76.7	61.7	47.7	
	14:15:00	57.6	68.7	61.7	47.7	
	14:30:00	58.2	71.4	61.7	47.7	

14:45:00	57.0	73.6	59.7	47.7	57.8
15:00:00	56.2	68.3	59.7	47.7	
15:15:00	56.8	71.9	59.7	47.7	
15:30:00	56.5	68.4	59.7	47.7	
15:45:00	58.7	72.3	62.7	48.7	57.2
16:00:00	56.9	68.7	59.7	48.7	
16:15:00	55.5	67.1	58.7	48.7	
16:30:00	57.0	69.7	59.7	48.7	
16:45:00	56.3	69.1	59.7	48.7	56.5
17:00:00	57.1	69.9	60.7	49.7	
17:15:00	56.8	69.6	59.7	49.7	
17:30:00	57.3	70.3	59.7	49.7	
17:45:00	55.8	67.9	58.7	49.7	56.8
18:00:00	58.0	77.9	59.7	49.7	58.0
18:15:00	75.5	90.8	80.7	47.7	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 5 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Traffic, birds, insects
7:15:00
10:15:00
13:15:00
16:15:00
19:15:00
22:15:00
1:15:00
4:15:00
7:15:00
10:15:00
13:15:00
16:15:00
19:15:00
22:15:00
1:15:00
4:15:00
7:15:00
10:15:00
13:15:00
16:15:00
19:15:00
22:15:00
1:15:00
4:15:00
7:15:00
10:15:00
13:15:00
16:15:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC5
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.12 SERIAL # 3780
REPORT PRINTED ON 08/08/21 at 16:06:24

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 07:15:00
TOTAL LOGGING TIME...4 DAYS 11:40:35
LOGGING STOPPED.....08/06/21 at 18:55:35
TOTAL INTERVALS.....431
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 17:47:00
PRE-TEST CALIBRATION RANGE...42.4 TO 142.4 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:47:41
POST-TEST CALIBRATION RANGE...42.8 TO 142.8
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 50.6dB
Lav (60)..... 47.5dB
Lav (60)..... 47.5dB
SEL..... 106.3dB
TWA..... 61.9dB
TWA (60)..... 58.8dB
TWA (60)..... 58.8dB
Lmax..... 96.2dB 08/02/21 at 07:23:47
Lpk..... 127.2dB 08/02/21 at 07:23:47
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 0.07%
DOSE (60)..... 0.07%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	7:15:00	67.2	96.2	49.4	45.4	
	7:30:00	48.3	63.2	50.4	45.4	
	7:45:00	47.6	65.0	48.4	45.4	48.0
	8:00:00	46.6	56.4	47.4	44.4	
	8:15:00	46.9	61.2	48.4	44.4	
	8:30:00	46.5	66.2	47.4	43.4	
	8:45:00	53.3	80.6	49.4	44.4	49.5
	9:00:00	47.1	63.8	47.4	44.4	
	9:15:00	58.2	85.6	53.4	43.4	
	9:30:00	46.1	59.6	47.4	43.4	
	9:45:00	48.5	58.9	52.4	43.4	53.1
	10:00:00	50.9	69.6	51.4	43.4	
	10:15:00	49.1	71.3	50.4	43.4	
	10:30:00	49.3	66.0	50.4	43.4	
	10:45:00	50.9	69.6	49.4	44.4	50.1
	11:00:00	51.6	73.3	50.4	44.4	
	11:15:00	52.3	71.0	52.4	45.4	
	11:30:00	51.9	69.6	53.4	44.4	
	11:45:00	52.0	70.1	53.4	44.4	52.0
	12:00:00	51.2	69.0	53.4	44.4	
	12:15:00	53.0	76.4	53.4	43.4	
	12:30:00	53.4	73.0	55.4	43.4	
	12:45:00	52.4	69.5	54.4	43.4	52.6
	13:00:00	52.6	73.3	53.4	43.4	
	13:15:00	55.9	76.4	57.4	44.4	
	13:30:00	56.6	76.8	59.4	43.4	
	13:45:00	55.3	78.8	54.4	44.4	55.3
	14:00:00	53.5	74.8	55.4	43.4	
	14:15:00	57.4	75.0	60.4	44.4	
	14:30:00	52.8	71.6	55.4	44.4	
	14:45:00	58.2	77.2	61.4	44.4	56.1
	15:00:00	56.1	75.3	58.4	44.4	
	15:15:00	55.8	79.8	56.4	44.4	
	15:30:00	54.4	71.8	57.4	44.4	
	15:45:00	55.0	74.8	58.4	43.4	55.4
	16:00:00	55.0	74.4	58.4	44.4	
	16:15:00	53.0	69.2	56.4	43.4	
	16:30:00	55.1	77.6	54.4	44.4	
	16:45:00	50.7	67.4	52.4	43.4	53.8
	17:00:00	53.5	73.7	56.4	44.4	
	17:15:00	53.9	73.6	56.4	43.4	
	17:30:00	53.0	73.2	51.4	44.4	
	17:45:00	52.0	71.6	53.4	44.4	53.2
	18:00:00	51.1	66.6	54.4	45.4	
	18:15:00	48.9	67.4	48.4	44.4	
	18:30:00	46.3	60.0	46.4	44.4	
	18:45:00	46.3	55.4	47.4	44.4	48.6
	19:00:00	46.5	55.2	47.4	45.4	
	19:15:00	46.1	50.2	46.4	45.4	
	19:30:00	46.5	53.6	47.4	45.4	
	19:45:00	46.4	51.4	47.4	44.4	46.4
	20:00:00	46.3	48.4	46.4	45.4	
	20:15:00	46.2	50.5	47.4	44.4	
	20:30:00	45.5	48.5	46.4	44.4	
	20:45:00	45.5	47.8	46.4	44.4	45.9
	21:00:00	46.0	50.4	46.4	44.4	
	21:15:00	47.6	50.0	48.4	46.4	
	21:30:00	47.3	49.0	48.4	46.4	
	21:45:00	47.3	54.4	47.4	46.4	47.1
	22:00:00	47.1	48.8	47.4	46.4	
	22:15:00	46.5	48.0	47.4	45.4	
	22:30:00	46.7	49.6	47.4	45.4	
	22:45:00	45.9	47.9	46.4	45.4	46.6

	23:00:00	46.2	51.4	46.4	45.4	
	23:15:00	45.7	52.1	46.4	44.4	
	23:30:00	45.3	46.8	45.4	44.4	
	23:45:00	45.0	47.1	45.4	44.4	45.6
8/3/2021	0:00:00	45.1	57.6	45.4	44.4	
	0:15:00	44.7	46.3	45.4	44.4	
	0:30:00	44.7	47.5	45.4	44.4	
	0:45:00	45.1	47.2	45.4	44.4	44.9
	1:00:00	45.1	47.7	45.4	44.4	
	1:15:00	44.7	46.0	45.4	44.4	
	1:30:00	44.9	46.7	45.4	44.4	
	1:45:00	44.8	51.7	45.4	44.4	44.9
	2:00:00	44.8	46.6	45.4	43.4	
	2:15:00	44.8	48.8	45.4	43.4	
	2:30:00	44.6	46.3	44.4	44.4	
	2:45:00	45.2	46.8	45.4	44.4	44.9
	3:00:00	44.8	46.9	45.4	44.4	
	3:15:00	44.8	47.2	45.4	44.4	
	3:30:00	44.8	46.4	45.4	44.4	
	3:45:00	44.5	46.6	44.4	44.4	44.7
	4:00:00	45.0	46.8	45.4	44.4	
	4:15:00	44.7	47.6	45.4	44.4	
	4:30:00	45.3	50.8	45.4	44.4	
	4:45:00	44.8	47.2	45.4	44.4	45.0
	5:00:00	45.2	49.1	46.4	44.4	
	5:15:00	44.7	53.5	45.4	43.4	
	5:30:00	44.7	51.6	45.4	43.4	
	5:45:00	45.3	50.0	46.4	43.4	45.0
	6:00:00	45.8	58.8	46.4	44.4	
	6:15:00	45.8	50.0	46.4	44.4	
	6:30:00	46.8	52.7	48.4	44.4	
	6:45:00	46.8	52.2	48.4	44.4	46.3
	7:00:00	46.1	49.7	47.4	44.4	
	7:15:00	46.6	51.5	47.4	45.4	
	7:30:00	45.9	57.2	46.4	44.4	
	7:45:00	46.4	60.8	47.4	44.4	46.3
	8:00:00	45.8	50.8	46.4	44.4	
	8:15:00	45.3	51.3	46.4	44.4	
	8:30:00	45.8	55.2	47.4	43.4	
	8:45:00	46.5	57.7	47.4	43.4	45.9
	9:00:00	45.1	49.2	46.4	43.4	
	9:15:00	47.1	63.8	49.4	43.4	
	9:30:00	45.9	54.3	47.4	43.4	
	9:45:00	48.8	58.3	51.4	44.4	47.0
	10:00:00	46.5	58.5	49.4	43.4	
	10:15:00	48.6	55.5	51.4	43.4	
	10:30:00	48.4	53.6	51.4	44.4	
	10:45:00	47.2	59.4	50.4	43.4	47.8
	11:00:00	46.0	60.6	48.4	43.4	
	11:15:00	44.9	50.5	46.4	43.4	
	11:30:00	46.6	59.2	49.4	42.4	
	11:45:00	47.9	65.6	49.4	43.4	46.5
	12:00:00	43.9	48.6	45.4	42.4	
	12:15:00	44.3	52.1	45.4	42.4	
	12:30:00	43.9	50.4	45.4	42.4	
	12:45:00	44.3	52.5	45.4	42.4	44.1
	13:00:00	44.7	55.6	45.4	42.4	
	13:15:00	44.1	48.0	45.4	42.4	
	13:30:00	45.9	53.7	48.4	42.4	
	13:45:00	46.8	60.5	48.4	42.4	45.5
	14:00:00	55.2	73.6	58.4	43.4	
	14:15:00	45.2	62.8	46.4	42.4	
	14:30:00	46.0	57.6	48.4	43.4	
	14:45:00	46.6	64.3	49.4	42.4	50.5
	15:00:00	51.8	68.9	54.4	42.4	
	15:15:00	47.8	71.6	45.4	43.4	
	15:30:00	44.9	53.2	46.4	42.4	
	15:45:00	48.9	70.3	47.4	43.4	49.0
	16:00:00	46.1	64.4	46.4	43.4	

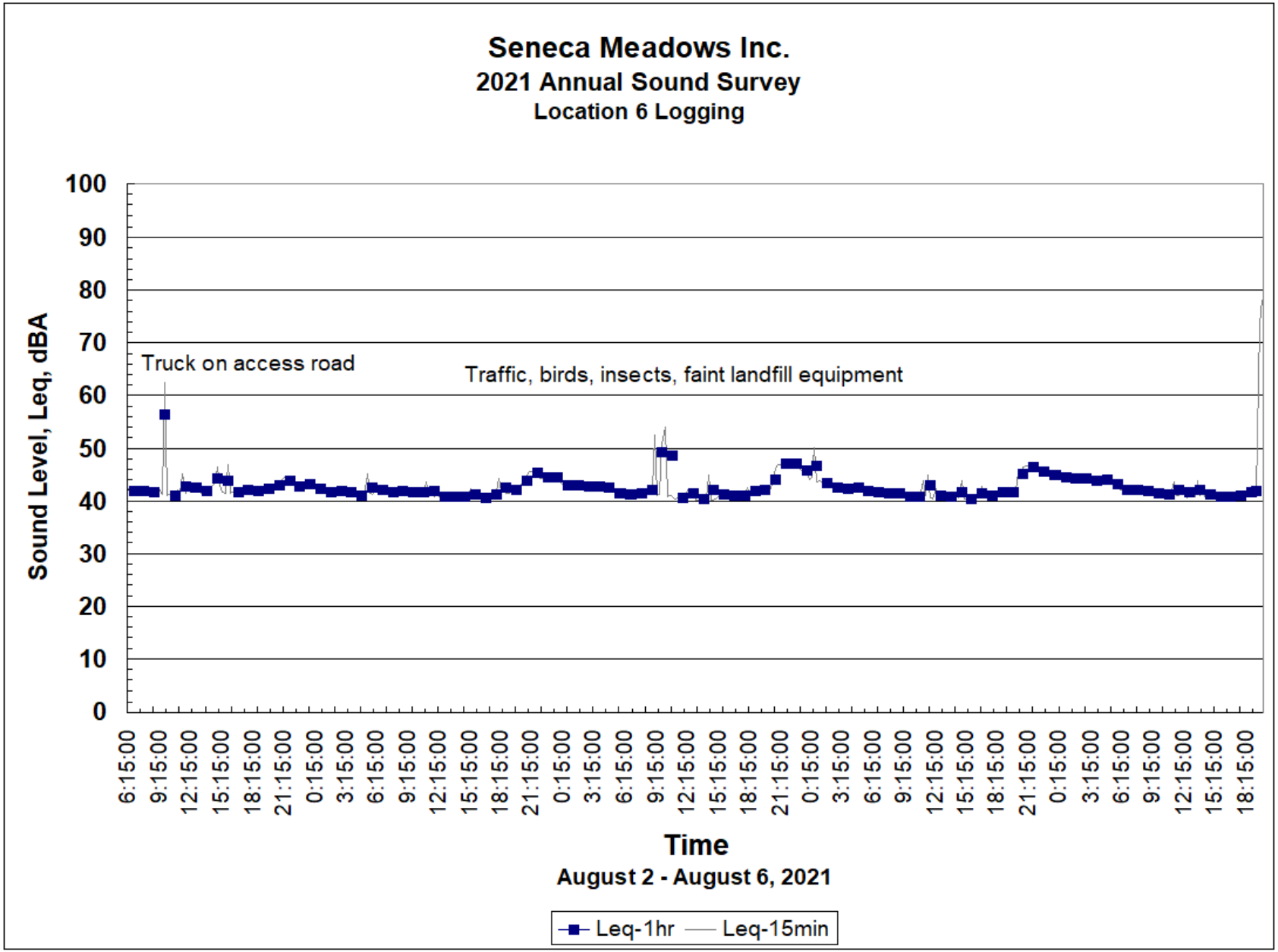
	16:15:00	47.0	68.8	46.4	43.4	
	16:30:00	46.1	56.3	48.4	43.4	
	16:45:00	47.0	51.1	48.4	44.4	46.6
	17:00:00	47.8	52.3	49.4	45.4	
	17:15:00	47.0	50.4	48.4	43.4	
	17:30:00	45.3	50.8	47.4	43.4	
	17:45:00	47.1	55.8	50.4	43.4	46.9
	18:00:00	47.8	66.0	49.4	44.4	
	18:15:00	45.9	52.2	47.4	44.4	
	18:30:00	46.3	51.6	47.4	44.4	
	18:45:00	46.5	48.7	47.4	45.4	46.7
	19:00:00	46.7	49.8	47.4	45.4	
	19:15:00	46.4	48.9	47.4	45.4	
	19:30:00	45.9	48.1	46.4	44.4	
	19:45:00	45.7	51.2	46.4	44.4	46.2
	20:00:00	45.5	49.5	46.4	44.4	
	20:15:00	46.0	50.4	46.4	44.4	
	20:30:00	47.2	49.2	48.4	45.4	
	20:45:00	48.0	50.0	48.4	46.4	46.8
	21:00:00	48.7	50.4	49.4	47.4	
	21:15:00	49.2	59.2	49.4	48.4	
	21:30:00	49.0	51.0	49.4	48.4	
	21:45:00	49.0	50.4	49.4	47.4	49.0
	22:00:00	48.5	49.6	48.4	47.4	
	22:15:00	48.3	49.4	48.4	47.4	
	22:30:00	48.8	54.8	49.4	47.4	
	22:45:00	48.2	52.4	48.4	47.4	48.5
	23:00:00	47.9	52.4	48.4	47.4	
	23:15:00	47.6	52.4	48.4	46.4	
	23:30:00	47.6	50.0	48.4	46.4	
	23:45:00	47.2	49.0	47.4	46.4	47.6
8/4/2021	0:00:00	46.9	48.9	47.4	46.4	
	0:15:00	46.9	49.7	47.4	46.4	
	0:30:00	47.4	52.6	48.4	46.4	
	0:45:00	46.9	49.4	47.4	46.4	47.0
	1:00:00	46.9	49.2	47.4	46.4	
	1:15:00	47.0	49.7	47.4	46.4	
	1:30:00	46.9	49.0	47.4	46.4	
	1:45:00	47.0	49.0	47.4	46.4	47.0
	2:00:00	47.7	50.3	48.4	46.4	
	2:15:00	47.5	50.2	48.4	46.4	
	2:30:00	47.2	49.7	48.4	46.4	
	2:45:00	47.2	50.6	48.4	46.4	47.4
	3:00:00	47.0	49.6	48.4	46.4	
	3:15:00	46.9	50.0	47.4	46.4	
	3:30:00	46.8	49.7	47.4	46.4	
	3:45:00	46.9	50.1	47.4	46.4	46.9
	4:00:00	47.6	52.9	48.4	46.4	
	4:15:00	46.8	49.9	47.4	45.4	
	4:30:00	46.6	51.6	47.4	46.4	
	4:45:00	46.6	48.6	47.4	46.4	46.9
	5:00:00	46.5	51.6	47.4	45.4	
	5:15:00	45.7	47.8	46.4	45.4	
	5:30:00	45.9	54.3	46.4	44.4	
	5:45:00	46.2	58.0	47.4	44.4	46.1
	6:00:00	45.2	49.5	46.4	43.4	
	6:15:00	46.0	57.9	47.4	44.4	
	6:30:00	46.4	53.8	47.4	44.4	
	6:45:00	47.6	53.2	48.4	45.4	46.4
	7:00:00	47.0	52.2	48.4	45.4	
	7:15:00	47.3	52.6	48.4	45.4	
	7:30:00	46.9	53.2	47.4	45.4	
	7:45:00	46.2	50.8	47.4	44.4	46.9
	8:00:00	45.5	54.3	46.4	44.4	
	8:15:00	48.2	70.8	46.4	43.4	
	8:30:00	44.9	54.7	46.4	43.4	
	8:45:00	44.9	48.7	46.4	43.4	46.1
	9:00:00	44.6	50.4	45.4	43.4	
	9:15:00	45.0	51.2	46.4	43.4	

	9:30:00	45.1	54.7	46.4	43.4	
	9:45:00	45.5	51.6	48.4	43.4	45.1
	10:00:00	45.3	54.3	47.4	42.4	
	10:15:00	46.5	55.7	48.4	42.4	
	10:30:00	47.4	54.9	50.4	43.4	
	10:45:00	50.4	66.9	51.4	43.4	47.8
	11:00:00	47.0	58.5	49.4	42.4	
	11:15:00	48.6	63.6	50.4	43.4	
	11:30:00	45.1	60.2	46.4	43.4	
	11:45:00	51.1	68.4	50.4	43.4	48.5
	12:00:00	50.7	70.2	53.4	43.4	
	12:15:00	45.5	58.4	46.4	43.4	
	12:30:00	52.1	74.8	48.4	43.4	
	12:45:00	46.2	56.8	48.4	43.4	49.5
	13:00:00	50.2	67.4	52.4	43.4	
	13:15:00	55.2	78.8	56.4	43.4	
	13:30:00	49.3	67.2	46.4	43.4	
	13:45:00	50.7	66.9	54.4	43.4	52.0
	14:00:00	45.7	65.2	46.4	42.4	
	14:15:00	46.2	64.0	48.4	42.4	
	14:30:00	50.8	67.2	54.4	43.4	
	14:45:00	47.1	66.5	48.4	43.4	48.0
	15:00:00	52.5	71.5	54.4	43.4	
	15:15:00	51.2	72.6	52.4	42.4	
	15:30:00	44.7	53.5	46.4	43.4	
	15:45:00	48.9	66.8	50.4	42.4	50.2
	16:00:00	48.1	63.9	49.4	43.4	
	16:15:00	49.0	74.7	47.4	43.4	
	16:30:00	53.0	71.5	55.4	43.4	
	16:45:00	49.0	68.7	50.4	43.4	50.2
	17:00:00	45.7	49.6	47.4	43.4	
	17:15:00	46.8	65.2	46.4	43.4	
	17:30:00	47.8	66.9	46.4	43.4	
	17:45:00	48.7	66.9	46.4	43.4	47.4
	18:00:00	48.6	64.8	53.4	43.4	
	18:15:00	56.0	60.3	58.4	48.4	
	18:30:00	54.7	60.6	57.4	47.4	
	18:45:00	56.0	60.3	58.4	46.4	54.6
	19:00:00	46.4	52.0	47.4	44.4	
	19:15:00	45.8	47.9	46.4	44.4	
	19:30:00	48.7	69.7	47.4	44.4	
	19:45:00	46.9	49.4	47.4	45.4	47.1
	20:00:00	47.4	49.5	48.4	45.4	
	20:15:00	47.8	53.7	48.4	45.4	
	20:30:00	48.2	49.8	48.4	46.4	
	20:45:00	49.5	69.2	49.4	47.4	48.3
	21:00:00	50.0	52.6	50.4	48.4	
	21:15:00	50.2	54.0	50.4	49.4	
	21:30:00	50.2	51.8	50.4	49.4	
	21:45:00	50.3	52.8	50.4	49.4	50.2
	22:00:00	50.5	52.9	50.4	49.4	
	22:15:00	50.3	51.6	50.4	49.4	
	22:30:00	50.7	52.4	51.4	50.4	
	22:45:00	50.6	52.4	51.4	49.4	50.5
	23:00:00	50.4	52.5	50.4	49.4	
	23:15:00	49.9	51.7	50.4	49.4	
	23:30:00	49.1	51.3	49.4	48.4	
	23:45:00	49.1	51.1	49.4	48.4	49.7
8/5/2021	0:00:00	48.5	51.4	49.4	47.4	
	0:15:00	48.8	56.1	49.4	47.4	
	0:30:00	48.6	50.8	49.4	47.4	
	0:45:00	48.6	50.6	49.4	47.4	48.6
	1:00:00	48.4	50.6	48.4	47.4	
	1:15:00	48.3	49.4	48.4	47.4	
	1:30:00	48.1	49.6	48.4	47.4	
	1:45:00	48.1	49.8	48.4	47.4	48.2
	2:00:00	47.8	50.1	48.4	47.4	
	2:15:00	47.5	49.3	47.4	46.4	
	2:30:00	47.1	49.2	47.4	46.4	

2:45:00	47.3	49.5	47.4	46.4	47.4
3:00:00	47.2	50.2	47.4	46.4	
3:15:00	47.0	49.5	47.4	46.4	
3:30:00	46.7	48.2	47.4	46.4	
3:45:00	46.7	47.9	47.4	46.4	46.9
4:00:00	47.0	52.6	47.4	46.4	
4:15:00	47.0	50.1	47.4	46.4	
4:30:00	47.0	49.4	47.4	46.4	
4:45:00	46.7	48.4	47.4	46.4	46.9
5:00:00	46.9	53.9	47.4	46.4	
5:15:00	46.8	59.8	47.4	45.4	
5:30:00	45.8	49.0	46.4	45.4	
5:45:00	46.8	51.2	48.4	45.4	46.6
6:00:00	46.9	51.6	47.4	45.4	
6:15:00	46.4	50.0	47.4	44.4	
6:30:00	46.2	54.6	47.4	44.4	
6:45:00	46.1	54.9	47.4	44.4	46.4
7:00:00	45.6	52.7	46.4	44.4	
7:15:00	45.6	50.5	46.4	44.4	
7:30:00	45.2	53.2	46.4	43.4	
7:45:00	45.0	48.5	45.4	43.4	45.4
8:00:00	45.0	55.1	45.4	43.4	
8:15:00	44.8	47.6	45.4	43.4	
8:30:00	47.5	68.4	47.4	43.4	
8:45:00	45.0	51.6	46.4	43.4	45.7
9:00:00	44.6	50.4	46.4	43.4	
9:15:00	46.4	58.0	48.4	43.4	
9:30:00	46.1	62.8	47.4	43.4	
9:45:00	48.1	55.4	51.4	43.4	46.5
10:00:00	45.8	55.5	48.4	43.4	
10:15:00	44.6	53.0	46.4	42.4	
10:30:00	49.3	65.4	52.4	43.4	
10:45:00	49.3	65.6	52.4	43.4	47.7
11:00:00	48.0	55.8	51.4	42.4	
11:15:00	51.3	70.9	53.4	43.4	
11:30:00	47.4	61.9	50.4	43.4	
11:45:00	46.5	61.2	48.4	43.4	48.7
12:00:00	47.7	61.9	50.4	43.4	
12:15:00	46.8	66.3	47.4	43.4	
12:30:00	47.4	62.4	49.4	42.4	
12:45:00	52.0	66.1	56.4	42.4	49.0
13:00:00	54.1	70.5	58.4	42.4	
13:15:00	45.2	53.1	46.4	43.4	
13:30:00	53.3	70.8	56.4	43.4	
13:45:00	53.5	67.6	57.4	43.4	52.6
14:00:00	45.9	52.3	48.4	42.4	
14:15:00	51.6	68.1	55.4	42.4	
14:30:00	50.8	73.2	53.4	43.4	
14:45:00	49.4	69.8	48.4	43.4	49.9
15:00:00	51.8	72.0	53.4	43.4	
15:15:00	50.3	65.6	53.4	42.4	
15:30:00	51.8	73.8	54.4	43.4	
15:45:00	47.2	65.6	48.4	43.4	50.6
16:00:00	52.9	74.2	54.4	43.4	
16:15:00	48.9	70.0	50.4	43.4	
16:30:00	49.9	66.8	53.4	43.4	
16:45:00	46.9	62.4	47.4	43.4	50.2
17:00:00	44.9	57.4	46.4	43.4	
17:15:00	44.3	56.8	45.4	43.4	
17:30:00	45.7	61.0	46.4	43.4	
17:45:00	46.0	55.2	47.4	43.4	45.3
18:00:00	44.4	54.3	45.4	43.4	
18:15:00	44.2	48.4	45.4	43.4	
18:30:00	45.8	55.5	46.4	43.4	
18:45:00	46.3	52.8	47.4	44.4	45.3
19:00:00	48.1	66.8	47.4	45.4	
19:15:00	46.6	50.0	47.4	45.4	
19:30:00	46.4	50.6	47.4	45.4	
19:45:00	46.7	54.7	47.4	45.4	47.0

	20:00:00	47.1	60.4	47.4	45.4	
	20:15:00	47.3	59.2	48.4	45.4	
	20:30:00	46.8	50.8	47.4	45.4	
	20:45:00	48.4	55.9	49.4	46.4	47.4
	21:00:00	49.8	54.1	50.4	48.4	
	21:15:00	50.7	51.8	51.4	49.4	
	21:30:00	50.6	53.2	51.4	49.4	
	21:45:00	50.6	51.9	50.4	50.4	50.4
	22:00:00	51.0	65.3	51.4	50.4	
	22:15:00	50.9	51.7	51.4	50.4	
	22:30:00	50.7	52.8	51.4	49.4	
	22:45:00	50.6	54.2	51.4	49.4	50.8
	23:00:00	50.5	52.4	50.4	49.4	
	23:15:00	50.5	56.4	51.4	49.4	
	23:30:00	50.3	51.4	50.4	49.4	
	23:45:00	50.2	56.1	50.4	49.4	50.4
8/6/2021	0:00:00	50.4	52.0	50.4	49.4	
	0:15:00	49.9	51.4	50.4	49.4	
	0:30:00	49.9	51.2	50.4	49.4	
	0:45:00	49.7	50.9	50.4	48.4	50.0
	1:00:00	49.4	50.4	49.4	48.4	
	1:15:00	49.3	51.2	49.4	48.4	
	1:30:00	49.0	50.5	49.4	48.4	
	1:45:00	49.1	51.0	49.4	48.4	49.2
	2:00:00	49.7	51.2	50.4	48.4	
	2:15:00	49.0	56.3	49.4	47.4	
	2:30:00	49.5	51.2	50.4	48.4	
	2:45:00	49.2	50.5	49.4	48.4	49.4
	3:00:00	49.2	50.4	49.4	48.4	
	3:15:00	48.7	50.0	49.4	47.4	
	3:30:00	48.8	56.5	49.4	47.4	
	3:45:00	48.8	50.1	49.4	47.4	48.9
	4:00:00	48.5	54.0	48.4	47.4	
	4:15:00	48.3	49.9	48.4	47.4	
	4:30:00	48.3	49.3	48.4	47.4	
	4:45:00	48.1	49.6	48.4	47.4	48.3
	5:00:00	49.4	67.2	48.4	47.4	
	5:15:00	48.3	59.8	48.4	47.4	
	5:30:00	47.5	51.8	48.4	46.4	
	5:45:00	47.0	50.4	47.4	45.4	48.1
	6:00:00	46.4	48.5	47.4	45.4	
	6:15:00	46.3	55.2	47.4	44.4	
	6:30:00	45.4	52.6	46.4	44.4	
	6:45:00	46.3	52.5	47.4	44.4	46.1
	7:00:00	46.5	49.9	47.4	44.4	
	7:15:00	46.9	51.7	48.4	44.4	
	7:30:00	45.5	50.7	46.4	44.4	
	7:45:00	46.0	53.6	47.4	44.4	46.3
	8:00:00	45.6	54.0	47.4	44.4	
	8:15:00	46.0	68.0	45.4	43.4	
	8:30:00	45.0	54.1	45.4	44.4	
	8:45:00	46.2	57.8	47.4	44.4	45.7
	9:00:00	45.4	51.2	46.4	43.4	
	9:15:00	48.2	62.3	50.4	43.4	
	9:30:00	48.0	54.8	50.4	44.4	
	9:45:00	48.4	54.6	51.4	43.4	47.7
	10:00:00	47.2	58.9	49.4	43.4	
	10:15:00	47.6	54.4	50.4	43.4	
	10:30:00	47.3	55.2	50.4	43.4	
	10:45:00	46.9	56.4	49.4	43.4	47.3
	11:00:00	46.8	55.2	48.4	43.4	
	11:15:00	47.0	65.7	49.4	42.4	
	11:30:00	47.4	56.8	49.4	43.4	
	11:45:00	47.4	53.7	49.4	43.4	47.2
	12:00:00	48.2	54.8	50.4	44.4	
	12:15:00	48.0	69.3	48.4	43.4	
	12:30:00	44.4	56.1	45.4	42.4	
	12:45:00	48.0	54.4	50.4	43.4	47.4
	13:00:00	46.1	53.1	48.4	42.4	

13:15:00	47.0	65.5	49.4	43.4	
13:30:00	45.3	56.8	46.4	43.4	
13:45:00	44.6	57.6	45.4	43.4	45.8
14:00:00	46.5	61.2	47.4	43.4	
14:15:00	46.3	58.0	48.4	43.4	
14:30:00	47.7	60.7	50.4	42.4	
14:45:00	45.8	59.2	48.4	43.4	46.6
15:00:00	49.9	68.0	52.4	43.4	
15:15:00	45.8	52.5	48.4	43.4	
15:30:00	44.9	56.0	46.4	42.4	
15:45:00	45.9	59.6	49.4	42.4	47.1
16:00:00	46.5	64.6	47.4	42.4	
16:15:00	44.6	52.8	46.4	43.4	
16:30:00	44.5	62.4	45.4	43.4	
16:45:00	44.0	51.0	45.4	42.4	45.0
17:00:00	44.4	54.6	45.4	43.4	
17:15:00	45.0	53.3	45.4	43.4	
17:30:00	46.1	52.1	49.4	43.4	
17:45:00	46.1	54.0	49.4	43.4	45.5
18:00:00	46.8	55.2	50.4	43.4	
18:15:00	48.4	60.4	50.4	43.4	
18:30:00	45.6	51.6	46.4	43.4	47.1
18:45:00	71.8	91.2	70.4	44.4	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 6 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Truck on access road
Traffic, birds, insects, faint landfill equipment
6:15:00
9:15:00
12:15:00
15:15:00
18:15:00
21:15:00
0:15:00
3:15:00
6:15:00
9:15:00
12:15:00
15:15:00
18:15:00
21:15:00
0:15:00
3:15:00
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12:15:00
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21:15:00
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3:15:00
6:15:00
9:15:00
12:15:00
15:15:00
18:15:00
21:15:00
0:15:00
3:15:00
6:15:00
9:15:00
12:15:00
15:15:00
18:15:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC6
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.12 SERIAL # 4036
REPORT PRINTED ON 08/08/21 at 16:06:48

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 06:15:00
TOTAL LOGGING TIME...4 DAYS 13:31:00
LOGGING STOPPED.....08/06/21 at 19:46:00
TOTAL INTERVALS.....439
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 16:25:50
PRE-TEST CALIBRATION RANGE...32.7 TO 132.7 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:36:03
POST-TEST CALIBRATION RANGE...32.8 TO 132.8
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 49.3dB
Lav (60)..... 48.3dB
Lav (60)..... 48.3dB
SEL..... 105.1dB
TWA..... 60.7dB
TWA (60)..... 59.6dB
TWA (60)..... 59.6dB
Lmax..... 98.0dB 08/06/21 at 19:44:01
Lpk..... 121.9dB 08/06/21 at 19:44:01
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 0.08%
DOSE (60)..... 0.08%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	6:15:00	42.2	63.6	42.7	40.7	
	6:30:00	41.8	53.6	42.7	40.7	
	6:45:00	41.7	46.8	42.7	40.7	41.9
	7:00:00	41.7	45.2	42.7	40.7	
	7:15:00	41.6	45.2	42.7	40.7	
	7:30:00	41.5	44.8	42.7	40.7	
	7:45:00	42.2	53.9	43.7	40.7	41.8
	8:00:00	41.8	48.6	42.7	40.7	
	8:15:00	41.9	49.5	42.7	40.7	
	8:30:00	41.7	49.9	42.7	40.7	
	8:45:00	41.3	55.3	41.7	40.7	41.7
	9:00:00	41.3	45.1	42.7	40.7	
	9:15:00	42.1	53.6	43.7	40.7	
	9:30:00	41.3	46.9	42.7	40.7	
	9:45:00	62.4	91.5	42.7	40.7	56.5
	10:00:00	40.9	45.6	41.7	40.7	
	10:15:00	41.3	52.7	41.7	40.7	
	10:30:00	40.9	48.4	41.7	40.7	
	10:45:00	41.1	54.0	42.7	40.7	41.1
	11:00:00	42.1	54.8	42.7	40.7	
	11:15:00	41.5	47.3	42.7	40.7	
	11:30:00	45.1	68.0	43.7	40.7	
	11:45:00	41.4	45.9	42.7	40.7	42.8
	12:00:00	43.4	58.0	44.7	40.7	
	12:15:00	42.0	54.5	43.7	40.7	
	12:30:00	41.8	52.8	43.7	40.7	
	12:45:00	42.5	50.0	43.7	40.7	42.5
	13:00:00	41.6	47.6	42.7	40.7	
	13:15:00	41.2	46.4	42.7	40.7	
	13:30:00	42.1	51.2	44.7	40.7	
	13:45:00	42.2	51.5	43.7	40.7	41.8
	14:00:00	42.4	49.6	44.7	40.7	
	14:15:00	43.0	66.0	42.7	40.7	
	14:30:00	43.5	64.0	44.7	40.7	
	14:45:00	46.5	70.0	43.7	40.7	44.2
	15:00:00	42.9	63.5	43.7	40.7	
	15:15:00	41.6	52.0	42.7	40.7	
	15:30:00	41.4	54.4	42.7	40.7	
	15:45:00	46.9	72.9	44.7	40.7	43.8
	16:00:00	41.4	46.0	42.7	40.7	
	16:15:00	41.7	49.2	42.7	40.7	
	16:30:00	41.2	46.8	42.7	40.7	
	16:45:00	41.9	52.1	42.7	40.7	41.6
	17:00:00	42.6	53.5	42.7	40.7	
	17:15:00	41.6	44.6	42.7	40.7	
	17:30:00	42.4	51.3	42.7	40.7	
	17:45:00	41.3	43.9	42.7	40.7	42.0
	18:00:00	41.5	46.8	41.7	40.7	
	18:15:00	41.9	50.4	42.7	41.7	
	18:30:00	41.9	44.0	42.7	41.7	
	18:45:00	42.2	46.9	42.7	41.7	41.9
	19:00:00	42.2	48.6	42.7	41.7	
	19:15:00	42.1	46.0	42.7	41.7	
	19:30:00	42.4	46.3	43.7	41.7	
	19:45:00	42.6	45.7	43.7	41.7	42.3
	20:00:00	42.4	44.8	42.7	41.7	
	20:15:00	42.4	48.0	43.7	41.7	
	20:30:00	42.9	46.4	43.7	41.7	
	20:45:00	43.7	45.5	44.7	42.7	42.9
	21:00:00	44.1	48.4	44.7	43.7	
	21:15:00	44.4	49.5	45.7	43.7	
	21:30:00	43.8	49.2	44.7	42.7	
	21:45:00	43.2	46.0	43.7	42.7	43.9

	22:00:00	42.9	47.1	43.7	42.7	
	22:15:00	42.7	44.2	43.7	41.7	
	22:30:00	42.8	46.5	43.7	42.7	
	22:45:00	42.7	43.4	43.7	41.7	42.8
	23:00:00	42.8	49.2	44.7	41.7	
	23:15:00	43.7	47.2	44.7	41.7	
	23:30:00	43.7	46.0	44.7	42.7	
	23:45:00	42.5	44.1	42.7	41.7	43.2
8/3/2021	0:00:00	42.2	44.0	42.7	41.7	
	0:15:00	42.4	43.3	42.7	41.7	
	0:30:00	42.3	42.8	42.7	41.7	
	0:45:00	42.2	56.2	42.7	41.7	42.3
	1:00:00	41.7	44.2	41.7	41.7	
	1:15:00	41.8	43.2	42.7	40.7	
	1:30:00	41.8	47.6	42.7	41.7	
	1:45:00	41.6	48.0	42.7	40.7	41.7
	2:00:00	42.1	43.5	42.7	40.7	
	2:15:00	42.0	43.2	42.7	41.7	
	2:30:00	41.5	42.8	41.7	40.7	
	2:45:00	42.1	42.8	42.7	40.7	41.9
	3:00:00	41.6	44.0	42.7	40.7	
	3:15:00	42.1	44.0	42.7	40.7	
	3:30:00	41.3	42.6	42.7	40.7	
	3:45:00	41.3	42.8	42.7	40.7	41.6
	4:00:00	40.9	42.2	41.7	40.7	
	4:15:00	41.2	42.0	41.7	40.7	
	4:30:00	40.9	42.2	41.7	40.7	
	4:45:00	40.8	45.2	41.7	40.7	41.0
	5:00:00	40.7	46.0	40.7	40.7	
	5:15:00	45.1	72.4	41.7	40.7	
	5:30:00	41.5	46.0	42.7	40.7	
	5:45:00	41.2	45.2	41.7	40.7	42.5
	6:00:00	41.6	48.8	42.7	40.7	
	6:15:00	42.0	53.4	42.7	40.7	
	6:30:00	42.1	48.2	43.7	41.7	
	6:45:00	42.5	49.0	43.7	41.7	42.1
	7:00:00	42.0	46.0	43.7	40.7	
	7:15:00	41.7	49.1	42.7	40.7	
	7:30:00	41.8	49.4	42.7	40.7	
	7:45:00	41.3	43.4	41.7	40.7	41.7
	8:00:00	41.8	48.0	42.7	40.7	
	8:15:00	41.7	56.4	42.7	40.7	
	8:30:00	41.6	47.6	42.7	40.7	
	8:45:00	42.1	57.3	42.7	40.7	41.8
	9:00:00	42.0	49.1	42.7	40.7	
	9:15:00	41.3	45.6	41.7	40.7	
	9:30:00	41.7	50.0	42.7	40.7	
	9:45:00	41.4	52.0	41.7	40.7	41.6
	10:00:00	41.4	50.0	41.7	40.7	
	10:15:00	42.1	54.8	41.7	40.7	
	10:30:00	41.8	48.4	42.7	40.7	
	10:45:00	41.3	49.6	42.7	40.7	41.7
	11:00:00	43.7	58.3	42.7	40.7	
	11:15:00	41.5	53.2	41.7	40.7	
	11:30:00	41.2	53.5	41.7	40.7	
	11:45:00	40.8	46.4	41.7	40.7	42.0
	12:00:00	41.0	44.8	42.7	40.7	
	12:15:00	40.7	43.3	41.7	40.7	
	12:30:00	40.8	44.0	41.7	40.7	
	12:45:00	40.7	46.7	41.7	40.7	40.8
	13:00:00	41.7	55.2	42.7	40.7	
	13:15:00	40.3	50.8	40.7	40.7	
	13:30:00	40.4	48.8	40.7	40.7	
	13:45:00	40.4	49.2	40.7	40.7	40.7
	14:00:00	40.2	43.6	40.7	40.7	
	14:15:00	41.5	54.4	41.7	40.7	
	14:30:00	40.5	48.8	40.7	40.7	
	14:45:00	40.6	49.7	41.7	40.7	40.7
	15:00:00	40.7	47.2	41.7	40.7	

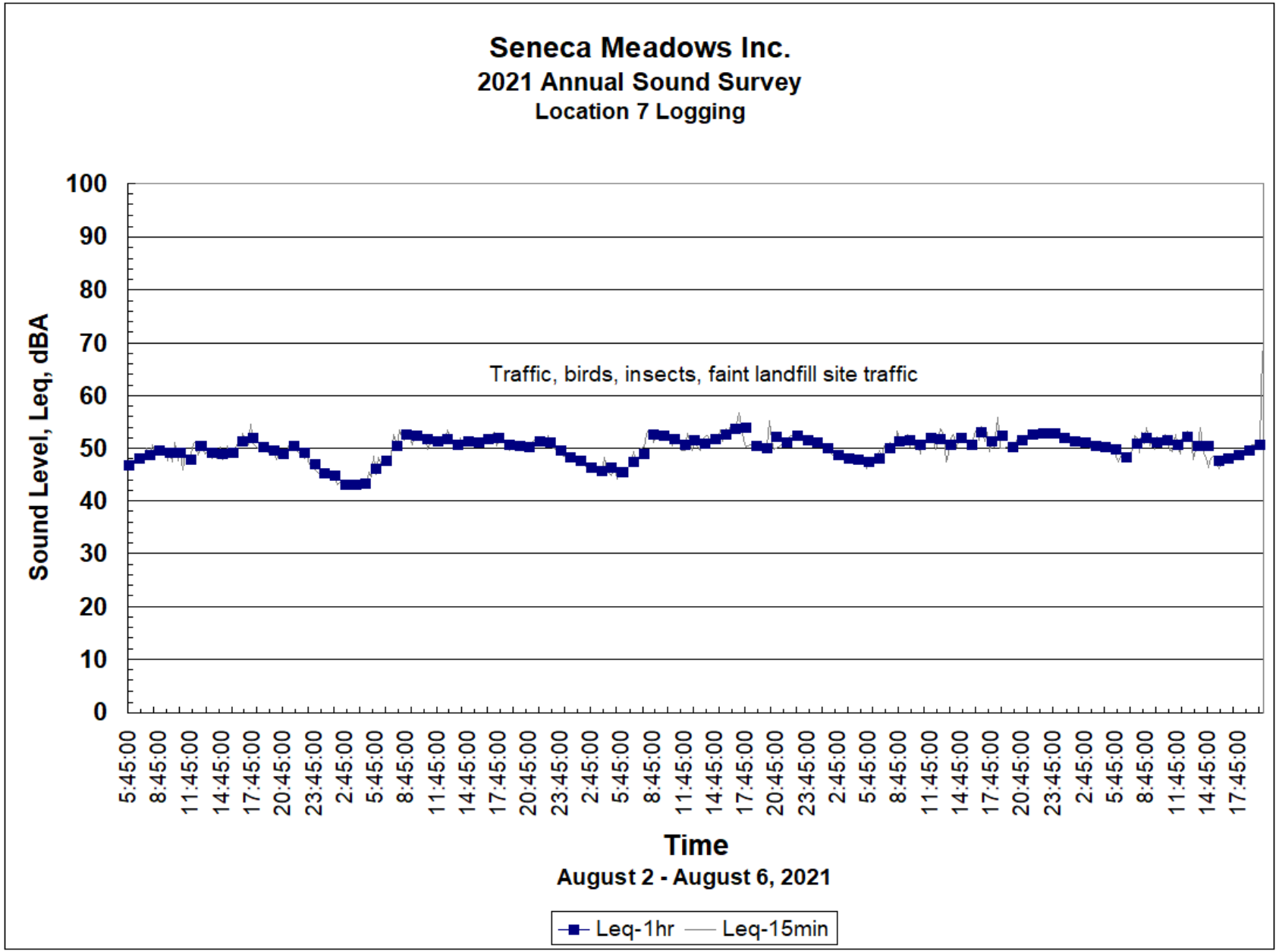
	15:15:00	42.2	65.4	41.7	40.7	
	15:30:00	40.6	54.8	41.7	39.7	
	15:45:00	41.3	60.4	41.7	40.7	41.2
	16:00:00	40.6	58.8	40.7	39.7	
	16:15:00	40.5	47.6	40.7	40.7	
	16:30:00	40.4	43.6	40.7	40.7	
	16:45:00	40.4	46.0	40.7	40.7	40.5
	17:00:00	41.5	52.4	41.7	40.7	
	17:15:00	40.4	43.6	40.7	40.7	
	17:30:00	41.4	50.4	42.7	40.7	
	17:45:00	41.7	54.0	42.7	40.7	41.3
	18:00:00	44.2	58.0	42.7	40.7	
	18:15:00	41.8	47.8	42.7	40.7	
	18:30:00	41.9	53.1	41.7	40.7	
	18:45:00	41.4	43.2	41.7	40.7	42.5
	19:00:00	41.4	42.4	41.7	40.7	
	19:15:00	42.9	57.1	42.7	41.7	
	19:30:00	41.9	43.7	42.7	41.7	
	19:45:00	42.3	48.4	42.7	41.7	42.2
	20:00:00	42.9	48.0	43.7	41.7	
	20:15:00	43.1	46.4	43.7	42.7	
	20:30:00	44.0	47.0	44.7	42.7	
	20:45:00	44.8	48.3	45.7	43.7	43.8
	21:00:00	45.6	48.4	46.7	44.7	
	21:15:00	45.6	47.2	46.7	44.7	
	21:30:00	45.1	51.1	45.7	44.7	
	21:45:00	44.7	46.6	45.7	44.7	45.3
	22:00:00	44.3	45.6	44.7	43.7	
	22:15:00	44.3	48.3	44.7	43.7	
	22:30:00	44.4	51.6	44.7	43.7	
	22:45:00	44.5	47.8	44.7	43.7	44.4
	23:00:00	44.4	47.1	44.7	43.7	
	23:15:00	44.6	50.4	44.7	43.7	
	23:30:00	44.6	45.4	44.7	44.7	
	23:45:00	44.1	45.6	44.7	43.7	44.4
8/4/2021	0:00:00	43.4	44.6	43.7	42.7	
	0:15:00	43.0	46.0	43.7	42.7	
	0:30:00	42.7	45.2	43.7	42.7	
	0:45:00	42.6	44.0	42.7	41.7	42.9
	1:00:00	43.0	49.9	43.7	42.7	
	1:15:00	43.1	43.8	43.7	42.7	
	1:30:00	42.8	43.6	43.7	42.7	
	1:45:00	42.8	43.6	43.7	42.7	42.9
	2:00:00	43.2	44.8	43.7	42.7	
	2:15:00	42.6	43.3	43.7	41.7	
	2:30:00	42.5	43.2	42.7	41.7	
	2:45:00	42.6	44.4	42.7	42.7	42.7
	3:00:00	42.7	43.2	42.7	42.7	
	3:15:00	42.7	44.3	42.7	42.7	
	3:30:00	42.5	44.4	42.7	42.7	
	3:45:00	43.4	61.2	42.7	42.7	42.8
	4:00:00	43.4	62.8	42.7	41.7	
	4:15:00	41.9	43.5	42.7	41.7	
	4:30:00	42.3	43.2	42.7	41.7	
	4:45:00	41.9	43.6	42.7	41.7	42.4
	5:00:00	41.8	44.3	42.7	41.7	
	5:15:00	41.9	44.3	42.7	41.7	
	5:30:00	41.0	42.8	41.7	40.7	
	5:45:00	40.7	44.6	41.7	40.7	41.4
	6:00:00	41.0	45.6	41.7	40.7	
	6:15:00	41.3	46.4	41.7	40.7	
	6:30:00	41.3	48.0	41.7	40.7	
	6:45:00	41.6	45.9	42.7	40.7	41.3
	7:00:00	41.2	50.8	41.7	40.7	
	7:15:00	41.5	44.4	42.7	40.7	
	7:30:00	41.4	47.2	41.7	40.7	
	7:45:00	41.3	56.1	41.7	40.7	41.4
	8:00:00	41.5	53.9	41.7	40.7	
	8:15:00	41.5	47.0	42.7	40.7	

	8:30:00	42.8	53.2	43.7	40.7	
	8:45:00	42.4	59.6	43.7	40.7	42.1
	9:00:00	52.6	67.2	56.7	40.7	
	9:15:00	41.0	49.8	41.7	40.7	
	9:30:00	41.3	48.4	42.7	40.7	
	9:45:00	50.8	64.0	56.7	40.7	49.1
	10:00:00	54.0	63.3	58.7	40.7	
	10:15:00	40.7	48.9	40.7	40.7	
	10:30:00	41.0	49.4	40.7	40.7	
	10:45:00	40.7	48.4	40.7	40.7	48.6
	11:00:00	40.4	41.5	40.7	40.7	
	11:15:00	40.6	49.5	40.7	40.7	
	11:30:00	40.3	44.8	40.7	40.7	
	11:45:00	40.8	53.4	41.7	40.7	40.5
	12:00:00	40.4	49.6	40.7	40.7	
	12:15:00	42.0	61.7	40.7	40.7	
	12:30:00	41.7	54.4	42.7	39.7	
	12:45:00	41.2	51.6	41.7	39.7	41.4
	13:00:00	40.2	44.8	40.7	39.7	
	13:15:00	40.1	42.3	40.7	39.7	
	13:30:00	40.8	54.9	41.7	39.7	
	13:45:00	40.5	51.2	40.7	39.7	40.4
	14:00:00	40.4	51.9	40.7	39.7	
	14:15:00	45.0	64.2	42.7	39.7	
	14:30:00	40.1	41.5	40.7	39.7	
	14:45:00	40.1	43.6	40.7	39.7	42.0
	15:00:00	40.6	50.8	41.7	39.7	
	15:15:00	40.8	58.3	41.7	39.7	
	15:30:00	42.0	54.6	42.7	40.7	
	15:45:00	41.7	54.6	42.7	40.7	41.3
	16:00:00	41.4	52.6	40.7	39.7	
	16:15:00	41.8	55.7	41.7	39.7	
	16:30:00	40.5	43.6	40.7	40.7	
	16:45:00	40.5	43.2	40.7	40.7	41.1
	17:00:00	40.7	44.4	41.7	40.7	
	17:15:00	40.7	44.7	41.7	40.7	
	17:30:00	41.1	51.8	41.7	40.7	
	17:45:00	41.1	51.5	41.7	40.7	40.9
	18:00:00	42.6	54.4	42.7	40.7	
	18:15:00	41.2	43.9	41.7	40.7	
	18:30:00	42.1	50.8	43.7	40.7	
	18:45:00	41.7	46.7	42.7	40.7	41.9
	19:00:00	41.7	44.3	42.7	41.7	
	19:15:00	42.0	47.8	42.7	41.7	
	19:30:00	42.5	47.2	42.7	41.7	
	19:45:00	42.2	43.3	42.7	41.7	42.1
	20:00:00	42.3	43.2	42.7	41.7	
	20:15:00	42.4	43.6	42.7	41.7	
	20:30:00	44.1	52.0	45.7	42.7	
	20:45:00	46.3	48.0	46.7	44.7	44.1
	21:00:00	46.9	48.4	47.7	46.7	
	21:15:00	46.9	48.8	47.7	46.7	
	21:30:00	46.8	48.2	47.7	46.7	
	21:45:00	47.8	52.4	48.7	47.7	47.1
	22:00:00	47.3	49.1	48.7	46.7	
	22:15:00	46.8	48.0	47.7	45.7	
	22:30:00	47.1	51.5	47.7	46.7	
	22:45:00	46.9	49.4	47.7	45.7	47.0
	23:00:00	46.5	48.4	46.7	44.7	
	23:15:00	45.8	46.8	46.7	44.7	
	23:30:00	45.6	46.8	46.7	44.7	
	23:45:00	45.2	47.2	45.7	43.7	45.8
8/5/2021	0:00:00	44.1	46.1	44.7	43.7	
	0:15:00	44.5	49.7	44.7	43.7	
	0:30:00	50.2	75.4	44.7	43.7	
	0:45:00	43.5	44.2	43.7	43.7	46.6
	1:00:00	43.8	44.8	44.7	43.7	
	1:15:00	43.3	44.0	43.7	42.7	
	1:30:00	43.2	44.8	43.7	42.7	

1:45:00	43.1	44.9	43.7	42.7	43.4
2:00:00	42.7	43.8	42.7	42.7	
2:15:00	42.5	43.0	42.7	42.7	
2:30:00	42.3	43.6	42.7	42.7	
2:45:00	42.3	43.0	42.7	41.7	42.5
3:00:00	42.4	44.4	42.7	42.7	
3:15:00	42.3	43.6	42.7	42.7	
3:30:00	42.3	42.8	42.7	41.7	
3:45:00	42.2	43.2	42.7	41.7	42.3
4:00:00	42.5	43.2	42.7	42.7	
4:15:00	42.3	43.5	42.7	41.7	
4:30:00	42.8	45.6	43.7	42.7	
4:45:00	42.7	45.2	43.7	42.7	42.6
5:00:00	42.4	47.2	42.7	42.7	
5:15:00	42.1	43.6	42.7	41.7	
5:30:00	42.0	49.6	42.7	40.7	
5:45:00	41.1	44.7	41.7	40.7	41.9
6:00:00	41.5	45.0	42.7	40.7	
6:15:00	42.4	54.0	44.7	40.7	
6:30:00	41.3	43.7	41.7	40.7	
6:45:00	41.6	46.6	42.7	40.7	41.7
7:00:00	41.4	44.5	41.7	40.7	
7:15:00	41.8	50.1	42.7	40.7	
7:30:00	41.2	46.2	41.7	40.7	
7:45:00	41.4	46.0	41.7	40.7	41.5
8:00:00	41.4	49.2	41.7	40.7	
8:15:00	41.3	48.4	42.7	40.7	
8:30:00	41.1	46.1	41.7	40.7	
8:45:00	41.5	56.5	41.7	40.7	41.3
9:00:00	41.0	47.9	41.7	40.7	
9:15:00	40.5	41.2	40.7	40.7	
9:30:00	40.4	45.0	40.7	40.7	
9:45:00	40.8	50.4	40.7	40.7	40.7
10:00:00	40.7	48.8	40.7	40.7	
10:15:00	40.5	45.1	40.7	40.7	
10:30:00	40.9	47.5	41.7	40.7	
10:45:00	40.6	47.0	41.7	40.7	40.7
11:00:00	43.8	56.3	42.7	40.7	
11:15:00	40.9	49.2	40.7	40.7	
11:30:00	44.8	61.6	43.7	40.7	
11:45:00	40.5	41.5	40.7	40.7	42.9
12:00:00	40.3	44.4	40.7	40.7	
12:15:00	42.2	52.0	42.7	40.7	
12:30:00	40.9	51.2	41.7	39.7	
12:45:00	40.5	46.6	40.7	39.7	41.0
13:00:00	41.6	48.5	45.7	39.7	
13:15:00	41.0	44.8	43.7	39.7	
13:30:00	40.1	44.1	40.7	39.7	
13:45:00	40.1	47.3	40.7	39.7	40.7
14:00:00	40.0	41.2	40.7	39.7	
14:15:00	41.1	45.6	44.7	39.7	
14:30:00	40.5	44.5	42.7	39.7	
14:45:00	43.8	54.5	44.7	40.7	41.6
15:00:00	40.3	46.0	40.7	39.7	
15:15:00	40.1	42.8	40.7	39.7	
15:30:00	40.7	58.4	40.7	39.7	
15:45:00	40.2	43.6	40.7	39.7	40.3
16:00:00	40.9	46.5	41.7	40.7	
16:15:00	40.9	44.8	41.7	40.7	
16:30:00	41.2	58.0	40.7	40.7	
16:45:00	42.8	52.8	43.7	40.7	41.5
17:00:00	41.2	50.5	40.7	40.7	
17:15:00	40.6	46.2	41.7	40.7	
17:30:00	41.1	47.3	41.7	40.7	
17:45:00	41.2	44.1	41.7	40.7	41.0
18:00:00	41.9	63.2	41.7	40.7	
18:15:00	41.3	49.9	41.7	40.7	
18:30:00	41.7	47.3	42.7	40.7	
18:45:00	41.7	44.3	42.7	41.7	41.7

	19:00:00	41.8	47.6	42.7	41.7	
	19:15:00	41.7	43.2	42.7	41.7	
	19:30:00	41.5	47.9	41.7	40.7	
	19:45:00	41.7	47.6	42.7	41.7	41.7
	20:00:00	41.8	50.7	42.7	41.7	
	20:15:00	45.4	53.1	48.7	41.7	
	20:30:00	45.2	51.2	46.7	42.7	
	20:45:00	46.5	50.4	47.7	45.7	45.0
	21:00:00	46.7	48.0	47.7	46.7	
	21:15:00	46.6	47.6	47.7	46.7	
	21:30:00	46.1	47.2	46.7	45.7	
	21:45:00	46.0	46.8	46.7	45.7	46.4
	22:00:00	45.8	47.3	46.7	45.7	
	22:15:00	45.7	46.7	46.7	44.7	
	22:30:00	45.1	46.8	45.7	44.7	
	22:45:00	45.4	58.8	45.7	44.7	45.5
	23:00:00	44.9	46.4	45.7	44.7	
	23:15:00	45.0	45.8	45.7	44.7	
	23:30:00	44.9	47.2	45.7	44.7	
	23:45:00	45.1	49.2	45.7	44.7	45.0
8/6/2021	0:00:00	44.9	46.6	45.7	44.7	
	0:15:00	44.5	45.4	44.7	44.7	
	0:30:00	44.5	45.2	44.7	44.7	
	0:45:00	44.3	45.1	44.7	43.7	44.6
	1:00:00	44.5	45.2	44.7	43.7	
	1:15:00	44.3	45.2	44.7	43.7	
	1:30:00	43.8	45.6	44.7	43.7	
	1:45:00	44.4	45.2	44.7	43.7	44.3
	2:00:00	44.4	45.3	44.7	44.7	
	2:15:00	44.4	45.2	44.7	43.7	
	2:30:00	43.8	44.7	44.7	43.7	
	2:45:00	44.0	44.8	44.7	43.7	44.2
	3:00:00	44.0	46.4	44.7	43.7	
	3:15:00	43.8	46.0	44.7	43.7	
	3:30:00	43.8	44.4	44.7	43.7	
	3:45:00	44.0	45.2	44.7	43.7	43.9
	4:00:00	44.0	45.2	44.7	43.7	
	4:15:00	43.8	45.6	44.7	43.7	
	4:30:00	43.9	45.1	44.7	43.7	
	4:45:00	44.3	45.7	44.7	43.7	44.0
	5:00:00	44.2	55.2	44.7	43.7	
	5:15:00	43.7	47.2	44.7	42.7	
	5:30:00	42.5	45.2	42.7	41.7	
	5:45:00	42.3	48.0	43.7	41.7	43.2
	6:00:00	42.0	44.9	42.7	41.7	
	6:15:00	42.1	48.0	43.7	41.7	
	6:30:00	41.9	43.8	42.7	41.7	
	6:45:00	42.1	54.7	42.7	41.7	42.0
	7:00:00	41.7	50.4	42.7	41.7	
	7:15:00	41.7	46.0	42.7	41.7	
	7:30:00	42.4	52.9	43.7	41.7	
	7:45:00	42.5	46.0	43.7	41.7	42.1
	8:00:00	41.8	52.4	42.7	40.7	
	8:15:00	42.2	59.6	42.7	40.7	
	8:30:00	41.6	51.5	42.7	40.7	
	8:45:00	42.0	53.6	42.7	40.7	41.9
	9:00:00	41.5	46.4	42.7	40.7	
	9:15:00	41.2	49.9	41.7	40.7	
	9:30:00	41.0	43.2	41.7	40.7	
	9:45:00	41.7	46.8	42.7	40.7	41.4
	10:00:00	40.9	45.0	41.7	40.7	
	10:15:00	41.6	52.3	41.7	40.7	
	10:30:00	41.2	51.2	41.7	40.7	
	10:45:00	41.0	44.8	41.7	40.7	41.2
	11:00:00	42.1	54.4	41.7	40.7	
	11:15:00	43.5	65.3	41.7	40.7	
	11:30:00	41.1	51.2	41.7	40.7	
	11:45:00	41.1	47.5	41.7	40.7	42.1
	12:00:00	42.8	55.8	43.7	40.7	

12:15:00	41.7	56.3	42.7	40.7	
12:30:00	40.6	43.5	40.7	40.7	
12:45:00	41.5	56.4	41.7	40.7	41.7
13:00:00	42.1	51.6	45.7	40.7	
13:15:00	40.7	45.1	41.7	40.7	
13:30:00	43.8	68.8	42.7	40.7	
13:45:00	41.1	50.7	41.7	40.7	42.1
14:00:00	42.0	53.4	43.7	40.7	
14:15:00	40.8	45.9	41.7	40.7	
14:30:00	40.8	46.8	41.7	40.7	
14:45:00	41.0	48.8	41.7	40.7	41.2
15:00:00	40.9	51.6	41.7	40.7	
15:15:00	40.8	47.4	41.7	40.7	
15:30:00	41.0	52.4	41.7	40.7	
15:45:00	40.5	43.5	40.7	40.7	40.8
16:00:00	40.6	44.4	41.7	40.7	
16:15:00	40.8	44.7	41.7	40.7	
16:30:00	40.9	43.6	41.7	40.7	
16:45:00	41.0	48.0	41.7	40.7	40.8
17:00:00	41.2	49.8	42.7	40.7	
17:15:00	40.9	53.6	41.7	40.7	
17:30:00	40.5	41.2	40.7	40.7	
17:45:00	41.0	49.1	41.7	40.7	40.9
18:00:00	41.5	53.8	42.7	40.7	
18:15:00	41.6	59.7	41.7	40.7	
18:30:00	42.2	56.4	42.7	40.7	
18:45:00	41.5	47.2	41.7	40.7	41.7
19:00:00	42.0	58.7	41.7	41.7	
19:15:00	41.5	49.9	41.7	40.7	41.8
19:30:00	73.5	98.0	66.7	40.7	
19:45:00	78.2	94.0	78.7	42.7	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 7 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Traffic, birds, insects, faint landfill site traffic
5:45:00
8:45:00
11:45:00
14:45:00
17:45:00
20:45:00
23:45:00
2:45:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC7
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.12 SERIAL # 2859
REPORT PRINTED ON 08/08/21 at 16:09:07

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 05:45:00
TOTAL LOGGING TIME...4 DAYS 14:25:05
LOGGING STOPPED.....08/06/21 at 20:10:05
TOTAL INTERVALS.....442
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 16:36:18
PRE-TEST CALIBRATION RANGE...40.7 TO 140.7 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:46:02
POST-TEST CALIBRATION RANGE...40.7 TO 140.7
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 50.9dB
Lav (60)..... 45.0dB
Lav (60)..... 45.0dB
SEL..... 106.7dB
TWA..... 62.3dB
TWA (60)..... 56.3dB
TWA (60)..... 56.3dB
Lmax..... 87.4dB 08/06/21 at 20:08:40
Lpk..... 117.7dB 08/06/21 at 20:09:25
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 0.04%
DOSE (60)..... 0.04%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr
8/2/2021						
	5:45:00	46.8	61.3	48.7	42.7	46.8
	6:00:00	47.0	60.8	48.7	42.7	
	6:15:00	46.7	60.1	48.7	42.7	
	6:30:00	48.8	61.2	52.7	42.7	
	6:45:00	49.0	62.0	52.7	42.7	48.0
	7:00:00	47.9	61.2	50.7	43.7	
	7:15:00	48.6	64.0	51.7	43.7	
	7:30:00	49.9	64.8	53.7	43.7	
	7:45:00	48.2	60.4	50.7	43.7	48.7
	8:00:00	50.7	65.5	54.7	43.7	
	8:15:00	49.4	68.4	49.7	43.7	
	8:30:00	48.8	66.8	51.7	43.7	
	8:45:00	48.8	61.6	51.7	43.7	49.5
	9:00:00	49.0	61.6	52.7	42.7	
	9:15:00	49.6	65.6	52.7	42.7	
	9:30:00	47.7	62.5	50.7	42.7	
	9:45:00	49.7	67.2	52.7	42.7	49.1
	10:00:00	47.4	60.4	50.7	42.7	
	10:15:00	51.1	70.4	52.7	41.7	
	10:30:00	47.7	62.4	50.7	42.7	
	10:45:00	49.3	60.0	52.7	42.7	49.1
	11:00:00	45.9	61.6	48.7	41.7	
	11:15:00	48.9	65.5	51.7	42.7	
	11:30:00	47.2	57.1	50.7	41.7	
	11:45:00	48.9	60.4	52.7	41.7	47.9
	12:00:00	50.8	62.9	53.7	43.7	
	12:15:00	51.0	65.2	53.7	43.7	
	12:30:00	48.8	62.6	51.7	42.7	
	12:45:00	50.6	64.5	53.7	41.7	50.4
	13:00:00	49.0	61.3	52.7	42.7	
	13:15:00	49.4	63.2	52.7	42.7	
	13:30:00	49.7	65.6	52.7	42.7	
	13:45:00	48.0	58.4	50.7	42.7	49.1
	14:00:00	48.6	60.8	51.7	42.7	
	14:15:00	48.0	58.9	51.7	42.7	
	14:30:00	50.3	61.6	54.7	42.7	
	14:45:00	47.9	58.4	50.7	42.7	48.8
	15:00:00	48.0	58.0	50.7	43.7	
	15:15:00	50.4	60.0	53.7	44.7	
	15:30:00	49.2	60.0	52.7	43.7	
	15:45:00	48.8	57.6	52.7	44.7	49.2
	16:00:00	50.1	61.6	52.7	43.7	
	16:15:00	51.1	65.9	53.7	45.7	
	16:30:00	50.4	60.4	53.7	45.7	
	16:45:00	52.8	73.2	54.7	46.7	51.2
	17:00:00	50.5	59.1	53.7	46.7	
	17:15:00	50.7	63.2	52.7	47.7	
	17:30:00	54.6	70.4	56.7	48.7	
	17:45:00	50.9	62.4	53.7	48.7	52.0
	18:00:00	50.5	63.2	52.7	47.7	
	18:15:00	50.1	58.9	52.7	47.7	
	18:30:00	49.6	59.2	51.7	47.7	
	18:45:00	50.2	64.0	51.7	47.7	50.1
	19:00:00	49.8	67.7	49.7	46.7	
	19:15:00	49.2	62.4	50.7	46.7	
	19:30:00	49.9	61.2	52.7	46.7	
	19:45:00	49.2	62.3	50.7	46.7	49.5
	20:00:00	47.9	58.6	48.7	46.7	
	20:15:00	49.4	64.8	51.7	45.7	
	20:30:00	49.1	60.4	51.7	45.7	
	20:45:00	48.8	59.6	49.7	46.7	48.8
	21:00:00	49.2	60.8	49.7	48.7	
	21:15:00	51.1	60.0	52.7	48.7	

	21:30:00	50.8	59.3	50.7	49.7	
	21:45:00	50.7	64.8	50.7	49.7	50.5
	22:00:00	49.9	57.6	50.7	48.7	
	22:15:00	49.2	56.6	49.7	48.7	
	22:30:00	49.3	59.1	49.7	48.7	
	22:45:00	48.0	54.4	48.7	46.7	49.2
	23:00:00	48.5	62.0	48.7	46.7	
	23:15:00	46.9	54.0	47.7	46.7	
	23:30:00	46.5	58.8	46.7	45.7	
	23:45:00	45.8	54.0	46.7	44.7	47.0
8/3/2021	0:00:00	45.5	54.4	45.7	44.7	
	0:15:00	45.1	46.0	45.7	44.7	
	0:30:00	44.8	48.4	45.7	44.7	
	0:45:00	45.5	59.2	45.7	43.7	45.2
	1:00:00	44.7	59.6	44.7	43.7	
	1:15:00	44.6	58.8	44.7	43.7	
	1:30:00	45.1	59.6	45.7	43.7	
	1:45:00	44.9	61.2	44.7	42.7	44.8
	2:00:00	43.1	44.0	43.7	42.7	
	2:15:00	43.5	57.2	43.7	42.7	
	2:30:00	43.0	43.6	43.7	42.7	
	2:45:00	42.9	44.0	43.7	42.7	43.1
	3:00:00	43.1	53.2	43.7	42.7	
	3:15:00	43.7	62.4	42.7	41.7	
	3:30:00	42.8	52.4	42.7	42.7	
	3:45:00	42.6	48.0	43.7	41.7	43.1
	4:00:00	43.7	56.4	43.7	42.7	
	4:15:00	43.2	54.8	43.7	41.7	
	4:30:00	43.4	56.4	43.7	41.7	
	4:45:00	42.7	55.9	42.7	41.7	43.3
	5:00:00	45.4	64.0	43.7	41.7	
	5:15:00	44.6	59.2	44.7	41.7	
	5:30:00	48.4	66.6	51.7	42.7	
	5:45:00	45.1	55.2	46.7	42.7	46.2
	6:00:00	48.2	66.4	50.7	42.7	
	6:15:00	47.2	60.8	50.7	42.7	
	6:30:00	47.1	58.8	49.7	42.7	
	6:45:00	47.9	62.0	50.7	42.7	47.6
	7:00:00	48.0	58.8	51.7	42.7	
	7:15:00	48.7	60.4	52.7	42.7	
	7:30:00	52.6	67.3	56.7	42.7	
	7:45:00	50.7	62.4	54.7	42.7	50.4
	8:00:00	53.5	65.6	58.7	43.7	
	8:15:00	52.2	72.8	55.7	42.7	
	8:30:00	51.6	64.0	55.7	43.7	
	8:45:00	52.6	72.4	56.7	43.7	52.5
	9:00:00	52.4	66.4	55.7	43.7	
	9:15:00	50.6	61.9	54.7	43.7	
	9:30:00	52.8	66.0	57.7	43.7	
	9:45:00	53.0	72.4	55.7	42.7	52.3
	10:00:00	52.1	74.0	54.7	42.7	
	10:15:00	51.8	63.6	55.7	42.7	
	10:30:00	52.6	68.0	56.7	42.7	
	10:45:00	49.7	63.2	53.7	41.7	51.7
	11:00:00	50.8	62.0	54.7	42.7	
	11:15:00	52.4	74.4	56.7	41.7	
	11:30:00	50.9	70.0	54.7	41.7	
	11:45:00	51.1	70.5	54.7	41.7	51.4
	12:00:00	50.7	62.0	54.7	42.7	
	12:15:00	51.2	64.4	55.7	41.7	
	12:30:00	51.2	62.1	55.7	42.7	
	12:45:00	53.5	71.2	57.7	43.7	51.8
	13:00:00	51.3	65.8	54.7	42.7	
	13:15:00	51.1	72.4	54.7	41.7	
	13:30:00	49.9	68.4	52.7	41.7	
	13:45:00	50.4	62.0	54.7	41.7	50.7
	14:00:00	52.0	72.8	55.7	40.7	
	14:15:00	50.6	66.0	54.7	41.7	
	14:30:00	51.6	73.2	54.7	40.7	

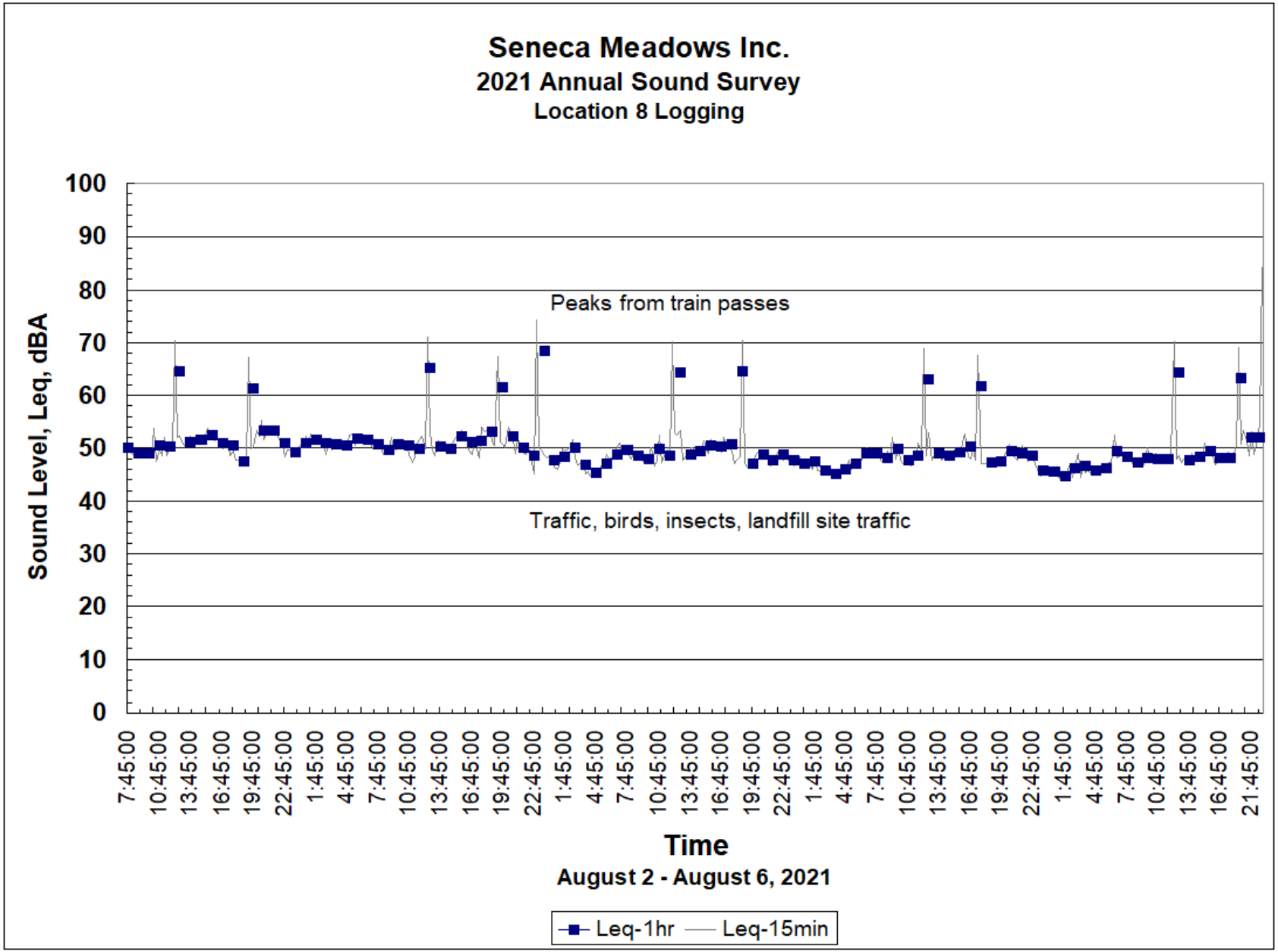
	14:45:00	50.4	62.4	54.7	41.7	51.2
	15:00:00	50.9	68.8	54.7	41.7	
	15:15:00	50.6	61.6	54.7	41.7	
	15:30:00	50.4	61.6	54.7	41.7	
	15:45:00	51.9	69.6	56.7	41.7	51.0
	16:00:00	51.3	63.6	55.7	42.7	
	16:15:00	52.0	69.2	55.7	42.7	
	16:30:00	52.3	72.4	55.7	42.7	
	16:45:00	51.5	62.0	54.7	42.7	51.8
	17:00:00	52.5	64.8	56.7	44.7	
	17:15:00	53.0	70.4	56.7	46.7	
	17:30:00	50.4	65.6	52.7	46.7	
	17:45:00	51.8	71.6	53.7	47.7	52.0
	18:00:00	51.5	57.9	54.7	48.7	
	18:15:00	51.2	65.2	53.7	48.7	
	18:30:00	50.4	57.7	52.7	48.7	
	18:45:00	49.6	58.4	50.7	47.7	50.7
	19:00:00	50.9	58.8	53.7	48.7	
	19:15:00	51.1	62.0	53.7	48.7	
	19:30:00	49.8	58.8	52.7	47.7	
	19:45:00	49.8	59.6	51.7	48.7	50.4
	20:00:00	50.5	62.4	52.7	48.7	
	20:15:00	50.0	58.0	51.7	48.7	
	20:30:00	50.3	58.8	51.7	48.7	
	20:45:00	50.3	59.1	51.7	48.7	50.3
	21:00:00	51.4	60.0	53.7	49.7	
	21:15:00	51.5	59.2	52.7	49.7	
	21:30:00	51.4	61.6	51.7	50.7	
	21:45:00	51.3	58.3	51.7	50.7	51.4
	22:00:00	50.9	58.0	51.7	50.7	
	22:15:00	50.9	59.8	51.7	50.7	
	22:30:00	52.3	68.8	53.7	49.7	
	22:45:00	50.2	60.1	50.7	49.7	51.1
	23:00:00	50.1	60.8	50.7	48.7	
	23:15:00	49.9	63.6	49.7	48.7	
	23:30:00	49.1	56.4	49.7	48.7	
	23:45:00	48.9	56.8	49.7	48.7	49.5
8/4/2021	0:00:00	48.5	53.9	48.7	48.7	
	0:15:00	48.4	59.2	48.7	47.7	
	0:30:00	48.1	56.4	48.7	47.7	
	0:45:00	47.6	53.2	48.7	46.7	48.2
	1:00:00	48.1	58.6	48.7	46.7	
	1:15:00	47.9	56.8	48.7	46.7	
	1:30:00	47.2	48.0	47.7	46.7	
	1:45:00	47.0	54.8	47.7	46.7	47.6
	2:00:00	46.7	47.6	46.7	46.7	
	2:15:00	46.6	47.6	47.7	45.7	
	2:30:00	46.3	47.6	46.7	45.7	
	2:45:00	46.0	48.0	46.7	45.7	46.4
	3:00:00	45.5	51.6	46.7	44.7	
	3:15:00	45.6	46.6	46.7	44.7	
	3:30:00	45.9	60.8	46.7	44.7	
	3:45:00	45.3	50.8	46.7	44.7	45.6
	4:00:00	48.2	69.6	45.7	43.7	
	4:15:00	46.1	55.2	47.7	44.7	
	4:30:00	45.2	57.0	45.7	44.7	
	4:45:00	44.9	55.2	45.7	43.7	46.3
	5:00:00	46.1	62.0	45.7	43.7	
	5:15:00	44.2	55.6	44.7	43.7	
	5:30:00	45.3	60.0	45.7	42.7	
	5:45:00	46.0	58.4	46.7	42.7	45.5
	6:00:00	45.8	58.4	46.7	42.7	
	6:15:00	46.6	60.4	47.7	42.7	
	6:30:00	47.1	58.0	50.7	42.7	
	6:45:00	49.3	63.9	52.7	43.7	47.4
	7:00:00	47.0	58.4	50.7	42.7	
	7:15:00	47.9	62.1	49.7	42.7	
	7:30:00	49.9	61.9	53.7	43.7	
	7:45:00	50.2	62.0	53.7	43.7	49.0

	8:00:00	52.5	71.2	54.7	43.7	
	8:15:00	53.5	68.4	57.7	43.7	
	8:30:00	53.0	66.8	56.7	44.7	
	8:45:00	51.1	63.6	54.7	43.7	52.6
	9:00:00	53.2	68.4	57.7	43.7	
	9:15:00	51.9	63.6	56.7	42.7	
	9:30:00	52.6	74.9	55.7	42.7	
	9:45:00	51.5	61.6	56.7	42.7	52.3
	10:00:00	51.7	62.9	55.7	42.7	
	10:15:00	52.1	64.4	56.7	42.7	
	10:30:00	50.5	62.0	54.7	41.7	
	10:45:00	52.2	71.6	55.7	40.7	51.7
	11:00:00	51.1	62.0	56.7	40.7	
	11:15:00	51.8	72.8	55.7	41.7	
	11:30:00	49.6	62.0	53.7	41.7	
	11:45:00	49.5	61.6	52.7	41.7	50.6
	12:00:00	52.9	75.5	55.7	41.7	
	12:15:00	51.6	62.8	56.7	41.7	
	12:30:00	49.6	62.1	52.7	41.7	
	12:45:00	51.5	62.9	55.7	42.7	51.6
	13:00:00	50.2	69.6	53.7	41.7	
	13:15:00	49.5	64.0	52.7	41.7	
	13:30:00	51.4	63.0	55.7	41.7	
	13:45:00	52.2	73.6	54.7	42.7	51.0
	14:00:00	52.3	65.8	56.7	41.7	
	14:15:00	51.3	70.8	55.7	41.7	
	14:30:00	51.7	67.2	54.7	42.7	
	14:45:00	51.5	70.8	54.7	41.7	51.7
	15:00:00	51.6	67.6	55.7	41.7	
	15:15:00	53.4	73.4	56.7	42.7	
	15:30:00	51.3	71.9	54.7	42.7	
	15:45:00	53.6	73.2	56.7	42.7	52.6
	16:00:00	52.6	64.8	56.7	44.7	
	16:15:00	54.3	70.0	58.7	43.7	
	16:30:00	54.5	72.4	55.7	44.7	
	16:45:00	53.3	71.6	53.7	44.7	53.7
	17:00:00	56.7	74.8	58.7	46.7	
	17:15:00	54.3	76.0	56.7	46.7	
	17:30:00	51.5	70.4	53.7	47.7	
	17:45:00	50.2	56.8	52.7	47.7	53.9
	18:00:00	50.4	61.7	52.7	47.7	
	18:15:00	50.8	60.0	53.7	48.7	
	18:30:00	50.5	59.2	52.7	48.7	
	18:45:00	49.9	58.4	51.7	48.7	50.4
	19:00:00	50.5	59.2	52.7	48.7	
	19:15:00	49.9	58.8	51.7	48.7	
	19:30:00	49.3	58.0	50.7	47.7	
	19:45:00	50.5	60.4	53.7	47.7	50.1
	20:00:00	55.3	65.2	59.7	48.7	
	20:15:00	51.5	59.1	55.7	48.7	
	20:30:00	49.7	60.0	50.7	47.7	
	20:45:00	50.0	58.4	50.7	48.7	52.3
	21:00:00	50.5	58.8	51.7	49.7	
	21:15:00	50.8	58.4	51.7	49.7	
	21:30:00	51.4	59.1	51.7	50.7	
	21:45:00	51.6	56.0	52.7	50.7	51.1
	22:00:00	52.2	58.8	52.7	51.7	
	22:15:00	52.6	58.6	53.7	51.7	
	22:30:00	52.4	61.2	52.7	51.7	
	22:45:00	51.9	59.6	52.7	51.7	52.3
	23:00:00	51.9	60.0	52.7	51.7	
	23:15:00	51.5	59.6	51.7	50.7	
	23:30:00	51.5	58.0	51.7	50.7	
	23:45:00	51.4	59.2	51.7	50.7	51.6
8/5/2021	0:00:00	51.1	56.0	51.7	50.7	
	0:15:00	51.3	62.4	51.7	50.7	
	0:30:00	50.9	59.2	51.7	50.7	
	0:45:00	50.7	54.0	51.7	50.7	51.0
	1:00:00	50.3	54.4	50.7	49.7	

1:15:00	50.1	56.0	50.7	49.7	
1:30:00	49.9	55.2	50.7	48.7	
1:45:00	49.6	55.9	50.7	48.7	50.0
2:00:00	49.3	56.6	49.7	48.7	
2:15:00	48.5	49.6	48.7	48.7	
2:30:00	48.6	49.6	48.7	48.7	
2:45:00	48.4	53.2	48.7	47.7	48.7
3:00:00	48.3	53.1	48.7	47.7	
3:15:00	48.5	61.2	48.7	47.7	
3:30:00	47.9	48.8	48.7	46.7	
3:45:00	47.8	56.4	48.7	46.7	48.1
4:00:00	47.9	53.6	48.7	47.7	
4:15:00	48.3	55.2	48.7	47.7	
4:30:00	47.9	56.4	48.7	46.7	
4:45:00	47.5	60.0	47.7	46.7	47.9
5:00:00	48.7	68.2	46.7	45.7	
5:15:00	47.5	60.0	49.7	44.7	
5:30:00	46.1	58.0	47.7	43.7	
5:45:00	47.1	62.1	48.7	42.7	47.5
6:00:00	47.1	61.8	48.7	42.7	
6:15:00	47.1	58.8	48.7	43.7	
6:30:00	48.3	61.6	51.7	42.7	
6:45:00	49.6	60.8	53.7	43.7	48.2
7:00:00	48.2	60.1	52.7	43.7	
7:15:00	50.4	62.4	54.7	44.7	
7:30:00	49.7	62.0	52.7	44.7	
7:45:00	51.1	64.8	54.7	44.7	50.0
8:00:00	50.0	68.9	53.7	44.7	
8:15:00	49.3	62.0	52.7	44.7	
8:30:00	53.2	64.8	58.7	44.7	
8:45:00	51.9	66.0	55.7	43.7	51.4
9:00:00	50.7	64.8	53.7	43.7	
9:15:00	52.0	71.2	54.7	43.7	
9:30:00	52.7	64.8	56.7	43.7	
9:45:00	50.2	60.0	54.7	42.7	51.5
10:00:00	51.7	64.0	56.7	42.7	
10:15:00	49.7	60.5	52.7	42.7	
10:30:00	51.5	64.4	55.7	41.7	
10:45:00	48.9	60.4	52.7	41.7	50.6
11:00:00	51.5	63.3	56.7	41.7	
11:15:00	51.2	61.6	56.7	41.7	
11:30:00	52.6	65.2	56.7	41.7	
11:45:00	52.7	68.4	57.7	41.7	52.0
12:00:00	51.4	69.0	53.7	40.7	
12:15:00	49.7	61.4	52.7	41.7	
12:30:00	51.2	66.4	55.7	41.7	
12:45:00	53.6	74.1	57.7	40.7	51.7
13:00:00	52.7	76.4	53.7	40.7	
13:15:00	47.4	59.6	50.7	40.7	
13:30:00	49.0	61.6	52.7	41.7	
13:45:00	51.8	71.6	54.7	40.7	50.7
14:00:00	52.5	65.6	57.7	41.7	
14:15:00	50.2	60.4	53.7	41.7	
14:30:00	52.7	67.2	56.7	40.7	
14:45:00	52.1	62.4	57.7	41.7	52.0
15:00:00	51.4	63.2	55.7	41.7	
15:15:00	51.2	64.4	55.7	41.7	
15:30:00	49.9	65.2	53.7	41.7	
15:45:00	50.1	64.4	53.7	41.7	50.7
16:00:00	52.7	71.6	56.7	42.7	
16:15:00	53.4	67.9	58.7	44.7	
16:30:00	51.5	65.2	54.7	44.7	
16:45:00	54.1	72.8	56.7	44.7	53.0
17:00:00	51.2	61.2	54.7	44.7	
17:15:00	53.0	70.0	56.7	46.7	
17:30:00	49.4	57.6	52.7	46.7	
17:45:00	51.1	63.6	53.7	47.7	51.4
18:00:00	50.2	60.8	52.7	47.7	
18:15:00	55.9	80.3	52.7	48.7	

	18:30:00	49.9	59.2	51.7	48.7	
	18:45:00	50.1	60.0	52.7	47.7	52.4
	19:00:00	50.1	62.8	52.7	47.7	
	19:15:00	50.3	60.7	52.7	48.7	
	19:30:00	49.9	58.3	51.7	48.7	
	19:45:00	50.6	64.8	52.7	48.7	50.2
	20:00:00	50.3	64.4	51.7	48.7	
	20:15:00	52.2	64.8	54.7	48.7	
	20:30:00	51.9	62.4	53.7	49.7	
	20:45:00	51.7	58.4	53.7	50.7	51.6
	21:00:00	52.3	59.6	53.7	50.7	
	21:15:00	52.1	57.6	52.7	51.7	
	21:30:00	53.0	60.7	53.7	51.7	
	21:45:00	52.7	56.8	53.7	52.7	52.5
	22:00:00	52.8	57.2	53.7	52.7	
	22:15:00	52.6	59.3	52.7	52.7	
	22:30:00	52.8	63.6	52.7	51.7	
	22:45:00	53.2	61.2	53.7	52.7	52.9
	23:00:00	53.0	61.6	53.7	52.7	
	23:15:00	52.8	58.7	52.7	52.7	
	23:30:00	52.5	57.2	52.7	52.7	
	23:45:00	52.6	61.6	52.7	51.7	52.7
8/6/2021	0:00:00	52.5	58.4	52.7	51.7	
	0:15:00	51.8	57.2	52.7	51.7	
	0:30:00	51.5	56.8	51.7	50.7	
	0:45:00	51.5	56.4	51.7	50.7	51.8
	1:00:00	51.4	58.8	51.7	50.7	
	1:15:00	51.2	57.2	51.7	50.7	
	1:30:00	51.0	56.0	51.7	50.7	
	1:45:00	51.4	58.3	52.7	49.7	51.3
	2:00:00	51.1	54.0	51.7	50.7	
	2:15:00	50.9	58.0	51.7	50.7	
	2:30:00	51.2	57.6	51.7	50.7	
	2:45:00	50.9	54.3	51.7	49.7	51.0
	3:00:00	50.5	54.0	51.7	49.7	
	3:15:00	50.1	50.8	50.7	49.7	
	3:30:00	50.8	62.4	50.7	50.7	
	3:45:00	50.6	60.4	50.7	48.7	50.5
	4:00:00	49.8	51.2	50.7	49.7	
	4:15:00	50.2	59.6	50.7	49.7	
	4:30:00	50.5	58.4	50.7	49.7	
	4:45:00	50.7	57.6	51.7	50.7	50.3
	5:00:00	50.5	56.6	51.7	49.7	
	5:15:00	50.0	58.4	50.7	48.7	
	5:30:00	49.6	62.4	51.7	46.7	
	5:45:00	48.4	60.8	48.7	44.7	49.7
	6:00:00	47.5	59.2	48.7	45.7	
	6:15:00	48.8	61.6	50.7	45.7	
	6:30:00	47.5	59.2	49.7	44.7	
	6:45:00	48.7	59.2	52.7	44.7	48.2
	7:00:00	48.7	59.4	51.7	45.7	
	7:15:00	49.0	64.4	51.7	45.7	
	7:30:00	52.3	68.8	56.7	44.7	
	7:45:00	52.0	64.8	55.7	45.7	50.8
	8:00:00	49.1	60.0	52.7	45.7	
	8:15:00	53.0	69.2	56.7	44.7	
	8:30:00	50.8	66.7	52.7	45.7	
	8:45:00	53.8	73.7	57.7	44.7	52.0
	9:00:00	50.4	62.8	53.7	43.7	
	9:15:00	51.5	69.6	52.7	42.7	
	9:30:00	49.7	63.6	52.7	42.7	
	9:45:00	52.2	70.4	55.7	42.7	51.1
	10:00:00	50.7	62.0	54.7	42.7	
	10:15:00	50.7	67.2	54.7	41.7	
	10:30:00	52.7	74.4	54.7	42.7	
	10:45:00	51.9	67.6	55.7	42.7	51.6
	11:00:00	49.6	64.4	52.7	41.7	
	11:15:00	49.4	60.0	53.7	41.7	
	11:30:00	52.7	70.8	55.7	41.7	

11:45:00	50.1	62.1	54.7	41.7	50.7
12:00:00	49.0	60.4	52.7	41.7	
12:15:00	52.9	76.4	54.7	41.7	
12:30:00	52.1	67.6	56.7	41.7	
12:45:00	53.3	76.9	55.7	41.7	52.1
13:00:00	52.5	75.2	52.7	41.7	
13:15:00	47.9	60.0	52.7	41.7	
13:30:00	49.7	67.6	53.7	41.7	
13:45:00	50.5	72.7	52.7	41.7	50.5
14:00:00	54.0	74.3	55.7	41.7	
14:15:00	48.9	66.4	51.7	41.7	
14:30:00	48.3	63.2	51.7	41.7	
14:45:00	46.3	62.0	49.7	41.7	50.4
15:00:00	48.0	63.2	51.7	41.7	
15:15:00	48.5	62.5	52.7	41.7	
15:30:00	47.4	59.2	51.7	41.7	
15:45:00	46.1	56.1	49.7	41.7	47.6
16:00:00	47.5	59.2	51.7	41.7	
16:15:00	47.9	60.3	51.7	42.7	
16:30:00	48.4	56.4	52.7	43.7	
16:45:00	48.6	58.4	52.7	43.7	48.1
17:00:00	48.9	59.6	52.7	44.7	
17:15:00	48.6	57.6	51.7	45.7	
17:30:00	48.3	58.0	50.7	45.7	
17:45:00	48.6	57.2	51.7	45.7	48.6
18:00:00	49.3	58.1	51.7	46.7	
18:15:00	49.7	62.5	52.7	47.7	
18:30:00	49.8	68.8	51.7	47.7	
18:45:00	49.8	62.0	52.7	47.7	49.7
19:00:00	50.6	66.4	52.7	47.7	
19:15:00	50.6	62.0	52.7	48.7	
19:30:00	50.5	58.0	52.7	48.7	
19:45:00	50.8	61.6	53.7	48.7	50.6
20:00:00	68.7	87.4	66.7	48.7	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 8 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Peaks from train passes
Traffic, birds, insects, landfill site traffic
7:45:00
10:45:00
13:45:00
16:45:00
19:45:00
22:45:00
1:45:00
4:45:00
7:45:00
10:45:00
13:45:00
16:45:00
19:45:00
22:45:00
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13:45:00
16:45:00
19:45:00
22:45:00
1:45:00
4:45:00
7:45:00
10:45:00
13:45:00
16:45:00
21:45:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC8
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.20 SERIAL # 5224
REPORT PRINTED ON 08/08/21 at 16:10:42

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 07:45:00
TOTAL LOGGING TIME...4 DAYS 13:01:31
LOGGING STOPPED.....08/06/21 at 20:46:31
TOTAL INTERVALS.....437
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 17:05:05
PRE-TEST CALIBRATION RANGE...39.8 TO 139.8 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:48:49
POST-TEST CALIBRATION RANGE...40.1 TO 140.1
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 56.2dB
Lav (60)..... 55.3dB
Lav (60)..... 55.3dB
SEL..... 112.0dB
TWA..... 67.6dB
TWA (60)..... 66.6dB
TWA (60)..... 66.6dB
Lmax..... 102.4dB 08/03/21 at 23:13:36
Lpk..... 137.9dB 08/03/21 at 23:13:36
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 0.44%
DOSE (60)..... 0.44%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Lav	Lmax	L(10.0)	L(99.0)	
	dBA	dBA	dBA	dBA		
8/2/2021						
	7:45:00	50.1	66.4	52.8	45.8	50.1
	8:00:00	49.4	60.9	51.8	45.8	
	8:15:00	48.6	61.6	50.8	44.8	
	8:30:00	48.3	61.7	50.8	44.8	
	8:45:00	49.5	66.8	51.8	44.8	49.0
	9:00:00	48.4	62.6	50.8	44.8	
	9:15:00	48.9	64.0	50.8	44.8	
	9:30:00	49.0	65.3	50.8	44.8	
	9:45:00	49.5	62.6	51.8	45.8	49.0
	10:00:00	48.4	59.6	50.8	44.8	
	10:15:00	53.7	74.5	52.8	44.8	
	10:30:00	47.5	56.6	49.8	43.8	
	10:45:00	49.7	68.9	51.8	44.8	50.5
	11:00:00	48.5	56.2	50.8	44.8	
	11:15:00	52.1	73.6	53.8	45.8	
	11:30:00	48.7	59.2	50.8	44.8	
	11:45:00	50.8	66.0	52.8	45.8	50.3
	12:00:00	49.9	67.1	52.8	45.8	
	12:15:00	70.4	94.8	55.8	44.8	
	12:30:00	52.0	69.2	53.8	46.8	
	12:45:00	52.2	74.2	53.8	45.8	64.5
	13:00:00	50.7	63.3	53.8	45.8	
	13:15:00	50.3	68.6	52.8	45.8	
	13:30:00	51.1	65.7	53.8	44.8	
	13:45:00	52.2	70.0	54.8	45.8	51.1
	14:00:00	51.9	66.8	54.8	45.8	
	14:15:00	50.7	70.4	51.8	44.8	
	14:30:00	52.0	69.2	54.8	46.8	
	14:45:00	52.1	71.3	53.8	45.8	51.7
	15:00:00	51.7	65.6	54.8	45.8	
	15:15:00	53.8	73.3	57.8	46.8	
	15:30:00	51.6	67.2	53.8	46.8	
	15:45:00	52.4	68.1	54.8	45.8	52.5
	16:00:00	51.5	66.1	54.8	45.8	
	16:15:00	52.2	67.6	54.8	44.8	
	16:30:00	50.2	61.5	52.8	44.8	
	16:45:00	49.9	62.0	52.8	44.8	51.1
	17:00:00	51.7	71.2	53.8	45.8	
	17:15:00	51.5	72.1	52.8	44.8	
	17:30:00	48.7	62.5	50.8	43.8	
	17:45:00	49.4	64.1	52.8	43.8	50.5
	18:00:00	47.7	60.4	49.8	43.8	
	18:15:00	47.8	60.1	50.8	43.8	
	18:30:00	47.0	58.0	49.8	43.8	
	18:45:00	47.8	60.6	50.8	43.8	47.6
	19:00:00	48.1	60.0	50.8	43.8	
	19:15:00	67.2	92.0	59.8	43.8	
	19:30:00	50.0	61.9	52.8	44.8	
	19:45:00	50.4	60.8	52.8	45.8	61.4
	20:00:00	53.3	64.6	55.8	46.8	
	20:15:00	52.3	59.4	54.8	46.8	
	20:30:00	55.3	66.1	57.8	50.8	
	20:45:00	51.6	57.8	53.8	46.8	53.4
	21:00:00	52.9	61.9	54.8	48.8	
	21:15:00	52.9	58.9	54.8	47.8	
	21:30:00	53.0	59.2	54.8	49.8	
	21:45:00	54.3	74.9	55.8	47.8	53.3
	22:00:00	52.4	61.2	54.8	47.8	
	22:15:00	51.3	56.6	53.8	47.8	
	22:30:00	51.0	58.0	54.8	46.8	
	22:45:00	48.3	54.3	50.8	46.8	51.0
	23:00:00	49.7	60.8	51.8	45.8	
	23:15:00	49.6	59.6	51.8	46.8	

	23:30:00	49.0	58.5	51.8	45.8	
	23:45:00	48.8	55.9	51.8	45.8	49.3
8/3/2021	0:00:00	49.7	55.2	51.8	45.8	
	0:15:00	50.6	57.9	52.8	47.8	
	0:30:00	51.2	57.0	53.8	46.8	
	0:45:00	52.3	57.7	54.8	46.8	51.1
	1:00:00	50.6	56.9	52.8	46.8	
	1:15:00	52.6	62.0	54.8	48.8	
	1:30:00	51.5	56.4	53.8	47.8	
	1:45:00	51.6	56.4	54.8	46.8	51.6
	2:00:00	52.4	58.8	55.8	46.8	
	2:15:00	50.8	56.3	52.8	45.8	
	2:30:00	50.8	55.8	53.8	45.8	
	2:45:00	48.8	55.7	51.8	45.8	50.9
	3:00:00	51.3	55.6	53.8	47.8	
	3:15:00	49.6	55.3	51.8	46.8	
	3:30:00	50.9	54.8	52.8	47.8	
	3:45:00	51.2	56.0	53.8	46.8	50.8
	4:00:00	50.8	60.8	52.8	47.8	
	4:15:00	51.2	59.0	53.8	46.8	
	4:30:00	50.3	58.3	52.8	46.8	
	4:45:00	49.9	55.2	52.8	46.8	50.6
	5:00:00	52.5	61.2	54.8	49.8	
	5:15:00	52.6	68.5	54.8	45.8	
	5:30:00	50.6	56.8	52.8	46.8	
	5:45:00	51.5	60.3	53.8	48.8	51.9
	6:00:00	51.3	59.3	53.8	47.8	
	6:15:00	51.6	58.9	55.8	47.8	
	6:30:00	51.3	61.2	54.8	46.8	
	6:45:00	52.4	60.2	56.8	46.8	51.7
	7:00:00	51.5	63.7	55.8	46.8	
	7:15:00	49.8	59.2	52.8	45.8	
	7:30:00	50.5	63.3	52.8	45.8	
	7:45:00	51.3	59.5	53.8	46.8	50.8
	8:00:00	50.1	60.2	52.8	45.8	
	8:15:00	48.8	62.8	50.8	44.8	
	8:30:00	49.8	58.0	53.8	45.8	
	8:45:00	49.9	58.4	52.8	45.8	49.7
	9:00:00	52.0	62.6	54.8	46.8	
	9:15:00	50.2	56.8	52.8	46.8	
	9:30:00	49.6	58.4	52.8	44.8	
	9:45:00	50.5	64.9	52.8	45.8	50.7
	10:00:00	51.5	61.2	54.8	45.8	
	10:15:00	50.6	61.8	53.8	45.8	
	10:30:00	51.0	62.0	53.8	44.8	
	10:45:00	48.8	58.5	52.8	44.8	50.6
	11:00:00	47.4	58.4	49.8	43.8	
	11:15:00	48.1	58.4	50.8	43.8	
	11:30:00	50.9	61.9	53.8	44.8	
	11:45:00	51.6	58.0	53.8	45.8	49.9
	12:00:00	52.2	61.6	54.8	44.8	
	12:15:00	49.8	55.1	52.8	44.8	
	12:30:00	71.0	94.6	59.8	45.8	
	12:45:00	53.1	60.9	57.8	45.8	65.1
	13:00:00	49.7	68.1	52.8	44.8	
	13:15:00	48.5	66.1	50.8	43.8	
	13:30:00	51.5	64.9	54.8	45.8	
	13:45:00	50.8	61.6	53.8	45.8	50.3
	14:00:00	50.8	67.6	52.8	45.8	
	14:15:00	49.6	72.1	50.8	44.8	
	14:30:00	49.7	61.2	52.8	44.8	
	14:45:00	49.7	62.5	52.8	44.8	50.0
	15:00:00	51.4	62.0	53.8	45.8	
	15:15:00	52.1	60.0	54.8	46.8	
	15:30:00	52.4	62.6	54.8	46.8	
	15:45:00	53.3	60.1	55.8	46.8	52.4
	16:00:00	52.8	61.7	55.8	46.8	
	16:15:00	52.0	64.1	54.8	45.8	
	16:30:00	49.7	56.9	52.8	44.8	

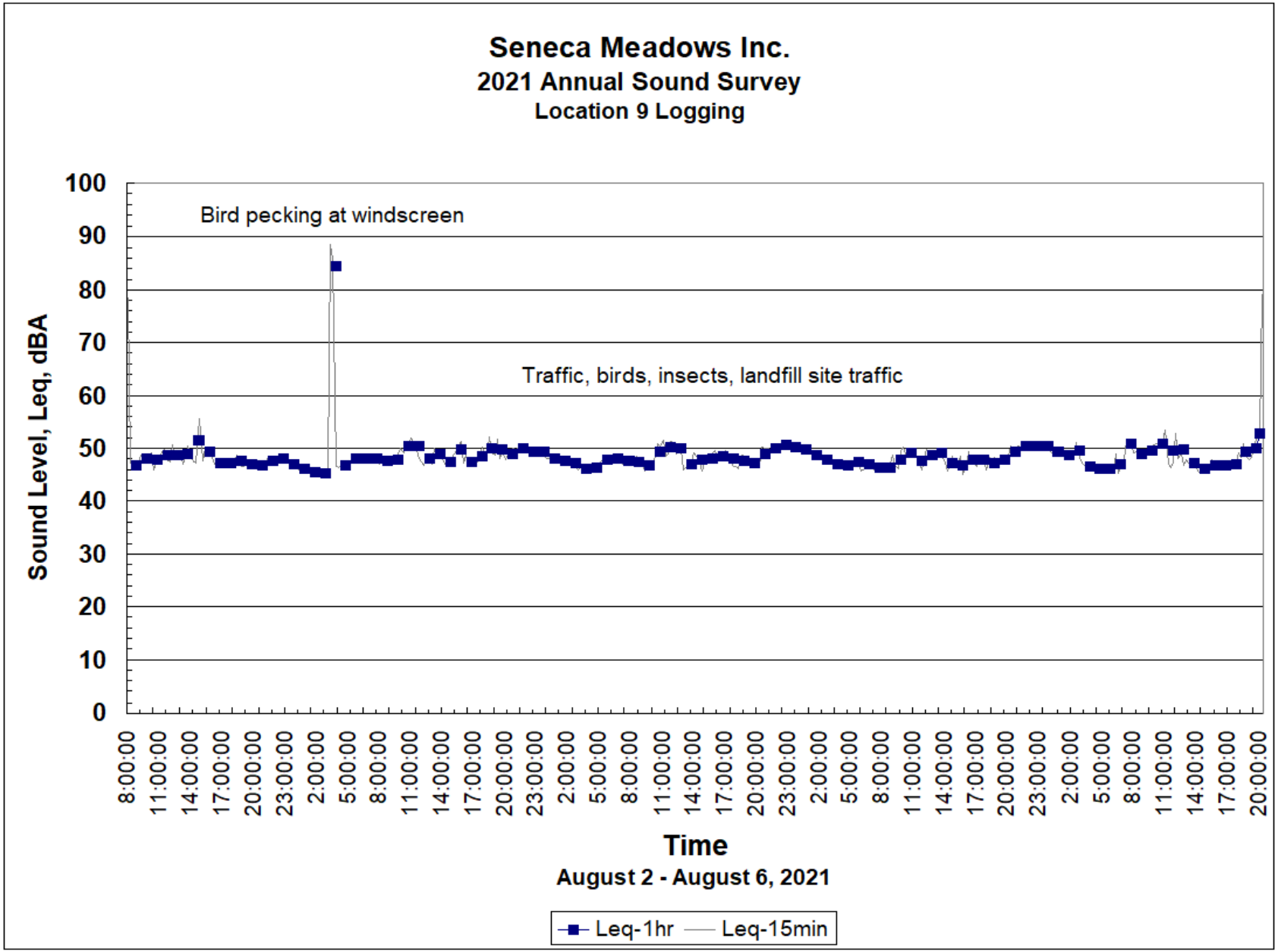
	16:45:00	48.8	57.1	50.8	44.8	51.1
	17:00:00	51.8	66.4	54.8	44.8	
	17:15:00	49.9	63.6	52.8	43.8	
	17:30:00	48.1	61.6	50.8	43.8	
	17:45:00	54.0	66.3	58.8	43.8	51.5
	18:00:00	53.1	61.2	57.8	44.8	
	18:15:00	53.5	64.4	57.8	46.8	
	18:30:00	54.0	63.2	57.8	46.8	
	18:45:00	51.5	62.9	54.8	46.8	53.1
	19:00:00	50.6	66.8	52.8	44.8	
	19:15:00	67.4	92.7	57.8	46.8	
	19:30:00	51.1	65.6	52.8	46.8	
	19:45:00	50.8	66.4	52.8	45.8	61.7
	20:00:00	50.1	60.5	52.8	44.8	
	20:15:00	54.0	61.7	57.8	47.8	
	20:30:00	52.6	64.8	54.8	46.8	
	20:45:00	51.4	69.6	52.8	45.8	52.3
	21:00:00	49.1	54.1	51.8	45.8	
	21:15:00	51.9	60.5	53.8	48.8	
	21:30:00	49.5	54.4	51.8	46.8	
	21:45:00	49.0	55.9	51.8	45.8	50.1
	22:00:00	48.9	54.0	51.8	45.8	
	22:15:00	50.3	56.8	52.8	46.8	
	22:30:00	48.5	58.0	50.8	45.8	
	22:45:00	45.1	51.4	45.8	44.8	48.6
	23:00:00	74.4	102.4	50.8	44.8	
	23:15:00	50.2	56.9	52.8	46.8	
	23:30:00	49.6	58.0	51.8	46.8	
	23:45:00	48.7	54.4	50.8	45.8	68.4
8/4/2021	0:00:00	48.2	53.2	50.8	45.8	
	0:15:00	48.3	55.2	50.8	44.8	
	0:30:00	48.0	59.0	49.8	44.8	
	0:45:00	46.4	54.9	48.8	43.8	47.8
	1:00:00	46.0	52.4	47.8	43.8	
	1:15:00	47.4	53.7	50.8	43.8	
	1:30:00	49.8	55.2	51.8	46.8	
	1:45:00	49.4	54.4	51.8	45.8	48.4
	2:00:00	49.7	57.1	52.8	45.8	
	2:15:00	50.4	59.8	54.8	43.8	
	2:30:00	51.6	59.6	55.8	44.8	
	2:45:00	48.2	55.2	50.8	44.8	50.1
	3:00:00	46.9	52.4	49.8	43.8	
	3:15:00	47.1	54.0	49.8	43.8	
	3:30:00	47.6	63.6	48.8	43.8	
	3:45:00	45.2	52.0	46.8	43.8	46.8
	4:00:00	45.5	50.0	47.8	43.8	
	4:15:00	44.8	48.6	46.8	43.8	
	4:30:00	45.4	49.6	47.8	43.8	
	4:45:00	45.7	50.8	47.8	43.8	45.4
	5:00:00	45.1	51.4	46.8	43.8	
	5:15:00	46.6	56.8	48.8	43.8	
	5:30:00	46.8	54.0	48.8	44.8	
	5:45:00	48.8	61.2	50.8	45.8	47.0
	6:00:00	48.0	58.3	49.8	45.8	
	6:15:00	48.2	57.9	50.8	45.8	
	6:30:00	48.2	55.3	50.8	45.8	
	6:45:00	50.3	58.4	53.8	44.8	48.8
	7:00:00	50.9	62.5	53.8	44.8	
	7:15:00	49.4	62.4	51.8	44.8	
	7:30:00	49.4	57.1	52.8	44.8	
	7:45:00	49.1	55.4	51.8	44.8	49.8
	8:00:00	47.9	63.1	49.8	43.8	
	8:15:00	49.2	60.0	52.8	44.8	
	8:30:00	48.9	58.4	52.8	44.8	
	8:45:00	48.0	58.8	50.8	44.8	48.5
	9:00:00	48.2	57.4	50.8	44.8	
	9:15:00	47.4	58.1	49.8	44.8	
	9:30:00	47.8	56.9	50.8	43.8	
	9:45:00	48.3	60.5	50.8	43.8	47.9

	10:00:00	50.2	60.1	53.8	43.8	
	10:15:00	46.6	58.8	49.8	42.8	
	10:30:00	47.6	55.8	49.8	43.8	
	10:45:00	52.5	75.3	49.8	43.8	49.8
	11:00:00	47.3	58.8	49.8	43.8	
	11:15:00	48.6	63.5	50.8	43.8	
	11:30:00	49.6	62.9	51.8	44.8	
	11:45:00	48.2	58.6	50.8	44.8	48.5
	12:00:00	70.2	94.5	55.8	44.8	
	12:15:00	52.9	65.3	56.8	46.8	
	12:30:00	52.4	62.6	57.8	45.8	
	12:45:00	53.4	64.4	57.8	44.8	64.4
	13:00:00	47.8	58.9	50.8	44.8	
	13:15:00	48.3	62.0	50.8	44.8	
	13:30:00	48.2	53.7	50.8	44.8	
	13:45:00	50.2	60.5	53.8	45.8	48.7
	14:00:00	49.9	59.9	52.8	45.8	
	14:15:00	49.4	58.7	51.8	44.8	
	14:30:00	49.2	60.1	50.8	45.8	
	14:45:00	49.1	55.0	50.8	44.8	49.4
	15:00:00	51.3	66.1	52.8	44.8	
	15:15:00	49.8	60.9	52.8	45.8	
	15:30:00	49.0	54.8	50.8	45.8	
	15:45:00	51.7	67.6	52.8	45.8	50.6
	16:00:00	50.7	68.1	52.8	44.8	
	16:15:00	50.9	63.1	53.8	44.8	
	16:30:00	50.0	63.3	52.8	44.8	
	16:45:00	49.3	62.5	50.8	45.8	50.3
	17:00:00	52.0	67.2	55.8	43.8	
	17:15:00	50.4	56.0	52.8	45.8	
	17:30:00	50.4	62.0	52.8	45.8	
	17:45:00	49.5	67.6	50.8	44.8	50.7
	18:00:00	47.1	58.2	49.8	43.8	
	18:15:00	47.7	60.4	49.8	44.8	
	18:30:00	48.4	68.5	49.8	43.8	
	18:45:00	70.5	95.7	61.8	44.8	64.5
	19:00:00	47.1	56.7	48.8	43.8	
	19:15:00	46.4	53.2	48.8	43.8	
	19:30:00	47.2	55.8	48.8	44.8	
	19:45:00	47.8	53.6	49.8	45.8	47.2
	20:00:00	48.4	59.1	50.8	45.8	
	20:15:00	49.2	64.4	50.8	44.8	
	20:30:00	48.6	62.2	50.8	44.8	
	20:45:00	49.0	61.6	50.8	46.8	48.8
	21:00:00	48.6	57.2	50.8	46.8	
	21:15:00	48.2	53.9	49.8	46.8	
	21:30:00	46.7	52.8	48.8	44.8	
	21:45:00	47.3	55.2	49.8	44.8	47.8
	22:00:00	48.6	54.8	50.8	44.8	
	22:15:00	49.5	55.9	52.8	45.8	
	22:30:00	49.5	57.2	51.8	46.8	
	22:45:00	47.8	55.3	49.8	45.8	48.9
	23:00:00	49.1	58.0	51.8	45.8	
	23:15:00	47.1	54.4	48.8	45.8	
	23:30:00	47.6	54.4	49.8	44.8	
	23:45:00	46.6	52.8	47.8	44.8	47.7
8/5/2021	0:00:00	47.1	57.7	49.8	44.8	
	0:15:00	48.4	63.2	49.8	44.8	
	0:30:00	46.6	53.2	48.8	44.8	
	0:45:00	46.3	55.1	47.8	44.8	47.2
	1:00:00	47.8	53.8	49.8	44.8	
	1:15:00	47.1	52.2	48.8	44.8	
	1:30:00	46.1	48.8	48.8	44.8	
	1:45:00	48.4	59.3	52.8	43.8	47.4
	2:00:00	45.7	58.0	46.8	43.8	
	2:15:00	45.6	50.0	46.8	44.8	
	2:30:00	45.2	56.8	46.8	43.8	
	2:45:00	46.4	56.4	47.8	43.8	45.7
	3:00:00	44.9	49.7	46.8	43.8	

3:15:00	45.5	53.9	47.8	43.8	
3:30:00	44.9	51.7	46.8	43.8	
3:45:00	44.8	49.9	46.8	43.8	45.0
4:00:00	45.8	49.3	47.8	43.8	
4:15:00	46.1	53.1	47.8	43.8	
4:30:00	45.9	55.7	47.8	43.8	
4:45:00	46.1	52.8	47.8	44.8	46.0
5:00:00	47.8	64.3	48.8	44.8	
5:15:00	46.1	58.0	46.8	44.8	
5:30:00	46.8	56.8	48.8	44.8	
5:45:00	47.5	58.5	49.8	44.8	47.1
6:00:00	47.8	56.8	49.8	44.8	
6:15:00	47.8	54.4	50.8	44.8	
6:30:00	49.4	58.8	51.8	45.8	
6:45:00	50.2	64.8	52.8	45.8	48.9
7:00:00	48.4	57.3	51.8	44.8	
7:15:00	49.5	60.9	52.8	45.8	
7:30:00	48.1	57.6	50.8	44.8	
7:45:00	49.9	63.2	51.8	44.8	49.0
8:00:00	48.3	55.2	50.8	44.8	
8:15:00	47.6	57.2	49.8	44.8	
8:30:00	47.3	58.4	49.8	44.8	
8:45:00	49.5	66.0	50.8	44.8	48.3
9:00:00	47.8	61.2	48.8	44.8	
9:15:00	52.1	76.0	49.8	43.8	
9:30:00	48.0	60.8	49.8	43.8	
9:45:00	50.1	64.0	54.8	44.8	49.9
10:00:00	48.0	56.1	50.8	44.8	
10:15:00	47.1	58.9	48.8	43.8	
10:30:00	47.0	57.1	48.8	44.8	
10:45:00	48.3	62.5	50.8	44.8	47.6
11:00:00	46.7	54.8	48.8	43.8	
11:15:00	47.2	62.1	48.8	43.8	
11:30:00	48.2	55.6	51.8	43.8	
11:45:00	50.9	68.0	53.8	43.8	48.6
12:00:00	49.4	60.5	52.8	43.8	
12:15:00	68.8	92.8	54.8	43.8	
12:30:00	48.5	61.0	50.8	43.8	
12:45:00	53.0	76.1	50.8	44.8	63.0
13:00:00	47.7	56.8	49.8	44.8	
13:15:00	48.7	56.4	52.8	44.8	
13:30:00	49.9	65.6	52.8	44.8	
13:45:00	49.3	57.2	52.8	44.8	49.0
14:00:00	47.8	57.4	49.8	43.8	
14:15:00	48.4	56.2	51.8	43.8	
14:30:00	48.8	60.4	50.8	44.8	
14:45:00	49.0	65.2	49.8	44.8	48.5
15:00:00	49.3	58.8	52.8	43.8	
15:15:00	49.8	56.8	53.8	43.8	
15:30:00	48.9	59.2	51.8	43.8	
15:45:00	48.5	61.7	50.8	43.8	49.2
16:00:00	51.0	68.8	51.8	43.8	
16:15:00	52.6	74.9	50.8	43.8	
16:30:00	48.4	63.2	49.8	43.8	
16:45:00	48.0	62.1	49.8	43.8	50.4
17:00:00	49.8	64.4	51.8	44.8	
17:15:00	47.8	60.7	49.8	43.8	
17:30:00	67.7	92.8	52.8	44.8	
17:45:00	47.0	53.2	49.8	43.8	61.8
18:00:00	47.0	56.8	48.8	43.8	
18:15:00	47.1	62.5	49.8	43.8	
18:30:00	47.4	61.6	48.8	43.8	
18:45:00	47.6	60.4	49.8	43.8	47.3
19:00:00	47.6	57.1	49.8	43.8	
19:15:00	46.8	54.8	48.8	43.8	
19:30:00	47.8	62.9	49.8	43.8	
19:45:00	47.4	59.3	49.8	43.8	47.4
20:00:00	48.7	59.9	51.8	43.8	
20:15:00	49.4	57.2	52.8	44.8	

	20:30:00	50.7	70.0	51.8	44.8	
	20:45:00	48.6	53.2	50.8	46.8	49.4
	21:00:00	48.3	55.6	50.8	45.8	
	21:15:00	47.7	54.8	48.8	45.8	
	21:30:00	49.0	53.5	51.8	45.8	
	21:45:00	50.6	71.8	50.8	45.8	49.0
	22:00:00	49.0	60.8	50.8	45.8	
	22:15:00	47.5	53.0	49.8	45.8	
	22:30:00	48.9	53.8	49.8	46.8	
	22:45:00	48.6	58.4	49.8	44.8	48.5
	23:00:00	47.1	52.1	48.8	44.8	
	23:15:00	46.1	56.5	47.8	44.8	
	23:30:00	44.7	49.7	45.8	43.8	
	23:45:00	45.1	55.3	46.8	43.8	45.9
8/6/2021	0:00:00	44.9	48.5	46.8	43.8	
	0:15:00	45.2	48.7	46.8	44.8	
	0:30:00	46.5	55.2	48.8	44.8	
	0:45:00	45.2	52.1	46.8	43.8	45.5
	1:00:00	44.9	54.5	45.8	43.8	
	1:15:00	44.3	51.1	45.8	43.8	
	1:30:00	45.4	59.1	46.8	43.8	
	1:45:00	44.0	47.3	45.8	43.8	44.7
	2:00:00	46.1	58.8	47.8	43.8	
	2:15:00	46.9	62.1	48.8	42.8	
	2:30:00	44.6	50.2	45.8	43.8	
	2:45:00	46.7	56.6	47.8	43.8	46.2
	3:00:00	49.0	61.3	52.8	43.8	
	3:15:00	44.6	50.0	45.8	43.8	
	3:30:00	46.5	60.0	47.8	43.8	
	3:45:00	45.3	51.6	47.8	43.8	46.7
	4:00:00	45.8	54.5	47.8	43.8	
	4:15:00	45.2	51.2	46.8	43.8	
	4:30:00	46.1	57.2	47.8	43.8	
	4:45:00	46.2	55.2	48.8	43.8	45.8
	5:00:00	45.8	55.1	47.8	43.8	
	5:15:00	45.6	49.8	46.8	44.8	
	5:30:00	46.3	56.4	47.8	44.8	
	5:45:00	46.7	56.2	48.8	43.8	46.1
	6:00:00	47.3	57.4	48.8	44.8	
	6:15:00	47.1	56.4	48.8	43.8	
	6:30:00	52.4	69.6	48.8	43.8	
	6:45:00	48.2	57.7	50.8	44.8	49.4
	7:00:00	48.3	62.2	50.8	44.8	
	7:15:00	48.7	61.0	52.8	44.8	
	7:30:00	48.4	55.6	51.8	44.8	
	7:45:00	48.1	58.2	49.8	45.8	48.4
	8:00:00	48.3	56.9	50.8	44.8	
	8:15:00	47.2	58.4	48.8	43.8	
	8:30:00	46.4	52.5	48.8	43.8	
	8:45:00	47.5	57.7	49.8	43.8	47.4
	9:00:00	47.1	57.0	48.8	43.8	
	9:15:00	46.4	56.5	48.8	43.8	
	9:30:00	47.7	57.6	50.8	43.8	
	9:45:00	50.1	69.8	51.8	43.8	48.1
	10:00:00	47.6	59.1	50.8	43.8	
	10:15:00	47.4	55.0	49.8	43.8	
	10:30:00	49.0	59.2	51.8	44.8	
	10:45:00	47.5	58.0	49.8	43.8	47.9
	11:00:00	47.6	58.1	49.8	44.8	
	11:15:00	48.3	59.9	50.8	43.8	
	11:30:00	47.5	62.5	49.8	43.8	
	11:45:00	48.4	57.4	50.8	44.8	48.0
	12:00:00	49.0	60.2	51.8	43.8	
	12:15:00	70.2	94.0	54.8	44.8	
	12:30:00	48.0	58.8	50.8	44.8	
	12:45:00	48.6	64.1	49.8	43.8	64.3
	13:00:00	47.3	57.8	49.8	43.8	
	13:15:00	47.9	60.9	50.8	43.8	
	13:30:00	48.4	59.2	50.8	43.8	

13:45:00	47.0	56.0	49.8	43.8	47.7
14:00:00	49.0	65.6	49.8	44.8	
14:15:00	47.9	58.2	50.8	43.8	
14:30:00	48.5	60.6	50.8	44.8	
14:45:00	47.9	56.6	50.8	44.8	48.3
15:00:00	48.5	62.9	50.8	44.8	
15:15:00	50.9	70.5	50.8	44.8	
15:30:00	49.2	62.8	51.8	44.8	
15:45:00	48.8	62.1	50.8	44.8	49.5
16:00:00	48.7	65.6	49.8	44.8	
16:15:00	46.9	56.1	49.8	43.8	
16:30:00	47.6	58.1	49.8	43.8	
16:45:00	48.8	57.7	52.8	43.8	48.1
17:00:00	47.2	55.2	49.8	43.8	
17:15:00	48.6	58.0	51.8	44.8	
17:30:00	49.2	66.0	50.8	44.8	
17:45:00	47.6	58.8	49.8	44.8	48.2
20:00:00	48.8	65.6	50.8	44.8	
20:15:00	50.5	70.9	50.8	45.8	
20:30:00	69.1	92.9	56.8	44.8	
20:45:00	50.7	60.0	52.8	46.8	63.2
21:00:00	53.3	66.5	54.8	48.8	
21:15:00	51.5	58.2	53.8	45.8	
21:30:00	48.5	58.0	50.8	44.8	
21:45:00	53.1	76.0	51.8	44.8	52.0
22:00:00	48.8	57.2	51.8	44.8	
22:15:00	50.6	63.8	52.8	45.8	
22:30:00	54.5	76.0	52.8	44.8	52.0
22:45:00	84.4	101.5	84.8	46.8	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 9 Logging
Bird pecking at windscreen
Traffic, birds, insects, landfill site traffic
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
8:00:00
11:00:00
14:00:00
17:00:00
20:00:00
23:00:00
2:00:00
5:00:00
8:00:00
11:00:00
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14:00:00
17:00:00
20:00:00
23:00:00
2:00:00
5:00:00
8:00:00
11:00:00
14:00:00
17:00:00
20:00:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC9
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.20 SERIAL # 5727
REPORT PRINTED ON 08/08/21 at 16:11:16

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 08:00:00
TOTAL LOGGING TIME...4 DAYS 12:23:39
LOGGING STOPPED.....08/06/21 at 20:23:39
TOTAL INTERVALS.....434
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 17:11:49
PRE-TEST CALIBRATION RANGE...40.5 TO 140.5 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:48:25
POST-TEST CALIBRATION RANGE...40.6 TO 140.6
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 64.6dB
Lav (60)..... 64.5dB
Lav (60)..... 64.5dB
SEL..... 120.4dB
TWA..... 75.9dB
TWA (60)..... 75.8dB
TWA (60)..... 75.8dB
Lmax..... 113.1dB 08/03/21 at 03:29:16
Lpk.....OVER RANGE 08/03/21 at 03:29:16
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 3.79%
DOSE (60)..... 3.79%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	8:00:00	78.5	102.8	50.5	44.5	
	8:15:00	47.1	57.1	49.5	44.5	
	8:30:00	46.7	57.9	48.5	43.5	
	8:45:00	46.2	56.0	47.5	43.5	46.7
	9:00:00	47.0	60.6	48.5	43.5	
	9:15:00	48.6	60.3	50.5	44.5	
	9:30:00	48.0	57.1	51.5	44.5	
	9:45:00	48.3	60.3	50.5	44.5	48.0
	10:00:00	47.9	61.5	49.5	44.5	
	10:15:00	49.1	60.8	52.5	43.5	
	10:30:00	45.9	58.1	47.5	42.5	
	10:45:00	48.1	56.0	50.5	43.5	47.9
	11:00:00	47.7	55.1	50.5	43.5	
	11:15:00	49.3	57.5	52.5	44.5	
	11:30:00	49.8	59.5	52.5	44.5	
	11:45:00	47.7	57.6	49.5	44.5	48.7
	12:00:00	47.4	58.3	49.5	44.5	
	12:15:00	50.6	65.6	53.5	44.5	
	12:30:00	48.0	61.1	50.5	44.5	
	12:45:00	48.5	57.9	50.5	44.5	48.8
	13:00:00	49.4	58.7	52.5	44.5	
	13:15:00	47.0	55.1	50.5	43.5	
	13:30:00	48.4	58.3	50.5	44.5	
	13:45:00	50.5	63.2	53.5	45.5	49.0
	14:00:00	49.0	62.1	50.5	45.5	
	14:15:00	47.4	59.2	49.5	44.5	
	14:30:00	47.3	55.1	50.5	44.5	
	14:45:00	55.7	84.2	50.5	44.5	51.5
	15:00:00	47.6	57.9	49.5	44.5	
	15:15:00	49.9	71.1	52.5	44.5	
	15:30:00	49.1	62.3	51.5	45.5	
	15:45:00	50.0	65.1	52.5	44.5	49.2
	16:00:00	47.6	65.1	47.5	43.5	
	16:15:00	46.5	53.5	48.5	44.5	
	16:30:00	46.7	56.9	48.5	44.5	
	16:45:00	47.8	59.7	49.5	44.5	47.2
	17:00:00	47.1	54.7	49.5	44.5	
	17:15:00	46.6	53.5	48.5	44.5	
	17:30:00	46.9	56.3	48.5	44.5	
	17:45:00	48.1	56.2	50.5	44.5	47.2
	18:00:00	47.2	53.1	49.5	45.5	
	18:15:00	48.6	56.0	50.5	44.5	
	18:30:00	48.0	55.4	49.5	45.5	
	18:45:00	46.5	55.1	47.5	45.5	47.6
	19:00:00	46.6	55.9	47.5	44.5	
	19:15:00	47.5	65.1	47.5	45.5	
	19:30:00	46.7	52.3	47.5	45.5	
	19:45:00	46.7	60.3	47.5	44.5	46.9
	20:00:00	47.4	53.2	48.5	45.5	
	20:15:00	46.4	51.5	47.5	45.5	
	20:30:00	46.8	65.5	47.5	45.5	
	20:45:00	46.4	49.3	46.5	45.5	46.8
	21:00:00	47.0	49.9	48.5	45.5	
	21:15:00	48.0	49.5	48.5	47.5	
	21:30:00	48.1	50.7	48.5	47.5	
	21:45:00	47.5	50.6	48.5	46.5	47.7
	22:00:00	48.1	50.7	49.5	47.5	
	22:15:00	48.0	49.4	48.5	46.5	
	22:30:00	48.2	52.8	49.5	46.5	
	22:45:00	47.7	63.5	48.5	46.5	48.0
	23:00:00	47.5	51.2	48.5	46.5	
	23:15:00	47.1	51.3	48.5	45.5	
	23:30:00	46.8	49.5	47.5	45.5	

	23:45:00	46.3	47.5	46.5	45.5	46.9
8/3/2021	0:00:00	46.1	47.5	46.5	45.5	
	0:15:00	46.0	48.4	46.5	45.5	
	0:30:00	46.4	47.8	47.5	45.5	
	0:45:00	45.8	47.9	46.5	44.5	46.1
	1:00:00	45.8	47.9	46.5	44.5	
	1:15:00	45.2	47.2	45.5	44.5	
	1:30:00	45.5	47.4	46.5	44.5	
	1:45:00	45.4	48.7	45.5	44.5	45.5
	2:00:00	45.5	47.5	46.5	44.5	
	2:15:00	45.6	47.5	46.5	44.5	
	2:30:00	45.1	47.1	45.5	44.5	
	2:45:00	45.1	46.7	45.5	44.5	45.3
	3:00:00	45.0	48.7	45.5	44.5	
	3:15:00	88.5	113.1	47.5	44.5	
	3:30:00	85.9	109.2	83.5	45.5	
	3:45:00	46.6	48.3	47.5	45.5	84.4
	4:00:00	46.4	47.9	47.5	45.5	
	4:15:00	46.5	48.7	47.5	45.5	
	4:30:00	46.7	51.0	47.5	45.5	
	4:45:00	47.5	50.7	48.5	46.5	46.8
	5:00:00	47.1	49.4	47.5	46.5	
	5:15:00	47.6	52.7	48.5	46.5	
	5:30:00	48.5	56.3	49.5	46.5	
	5:45:00	48.5	61.8	49.5	46.5	48.0
	6:00:00	48.2	51.4	49.5	46.5	
	6:15:00	48.3	53.9	49.5	46.5	
	6:30:00	47.8	52.7	48.5	46.5	
	6:45:00	48.0	51.9	49.5	46.5	48.1
	7:00:00	48.8	60.0	49.5	46.5	
	7:15:00	48.1	56.3	49.5	45.5	
	7:30:00	47.6	52.3	49.5	45.5	
	7:45:00	47.4	54.2	48.5	45.5	48.0
	8:00:00	47.0	51.9	48.5	45.5	
	8:15:00	47.5	58.1	49.5	45.5	
	8:30:00	47.9	53.9	49.5	45.5	
	8:45:00	48.3	54.2	49.5	45.5	47.7
	9:00:00	47.4	54.1	48.5	45.5	
	9:15:00	48.0	57.1	50.5	45.5	
	9:30:00	47.3	53.2	48.5	45.5	
	9:45:00	48.9	55.1	51.5	45.5	47.9
	10:00:00	49.9	56.7	52.5	45.5	
	10:15:00	49.2	57.7	51.5	45.5	
	10:30:00	51.2	56.4	54.5	46.5	
	10:45:00	50.8	58.2	54.5	46.5	50.3
	11:00:00	52.0	58.7	55.5	45.5	
	11:15:00	51.4	57.9	54.5	46.5	
	11:30:00	49.6	56.7	52.5	44.5	
	11:45:00	48.1	56.8	49.5	44.5	50.5
	12:00:00	47.5	59.9	49.5	44.5	
	12:15:00	46.7	51.5	48.5	44.5	
	12:30:00	48.7	63.1	48.5	45.5	
	12:45:00	48.9	56.8	50.5	46.5	48.0
	13:00:00	46.9	50.6	48.5	45.5	
	13:15:00	49.9	60.3	52.5	44.5	
	13:30:00	49.3	56.5	51.5	45.5	
	13:45:00	49.1	55.7	52.5	44.5	48.9
	14:00:00	48.1	60.3	50.5	44.5	
	14:15:00	47.0	59.5	48.5	44.5	
	14:30:00	47.1	52.7	49.5	44.5	
	14:45:00	47.6	60.1	49.5	44.5	47.5
	15:00:00	48.7	56.4	50.5	45.5	
	15:15:00	49.1	55.1	51.5	44.5	
	15:30:00	50.1	57.7	52.5	45.5	
	15:45:00	51.2	78.0	49.5	45.5	49.9
	16:00:00	47.1	55.6	48.5	44.5	
	16:15:00	48.8	61.5	50.5	45.5	
	16:30:00	46.7	53.9	48.5	44.5	
	16:45:00	46.9	58.9	48.5	44.5	47.5

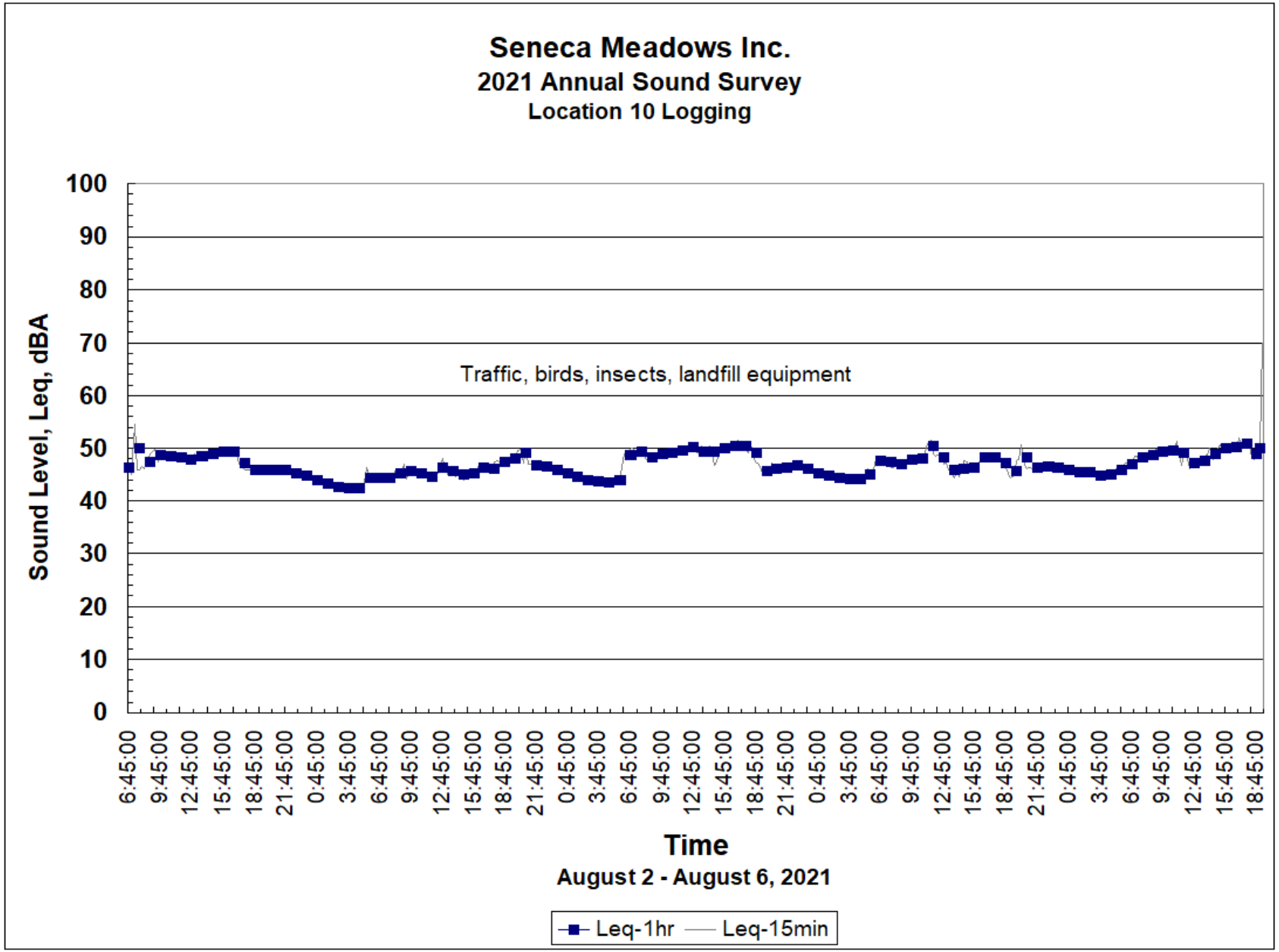
	17:00:00	47.5	54.6	49.5	44.5	
	17:15:00	46.8	51.9	48.5	44.5	
	17:30:00	48.5	56.4	50.5	45.5	
	17:45:00	50.2	63.7	51.5	47.5	48.4
	18:00:00	49.2	58.1	50.5	47.5	
	18:15:00	48.1	54.6	49.5	46.5	
	18:30:00	52.1	72.2	50.5	46.5	
	18:45:00	49.2	55.7	50.5	47.5	49.9
	19:00:00	48.7	54.7	49.5	47.5	
	19:15:00	51.8	68.1	52.5	46.5	
	19:30:00	48.1	51.7	48.5	47.5	
	19:45:00	49.3	57.0	49.5	47.5	49.7
	20:00:00	47.9	51.9	48.5	46.5	
	20:15:00	48.6	53.1	49.5	47.5	
	20:30:00	49.0	53.7	50.5	47.5	
	20:45:00	50.0	59.2	50.5	47.5	48.9
	21:00:00	49.8	52.0	50.5	48.5	
	21:15:00	50.2	52.1	51.5	49.5	
	21:30:00	49.6	53.6	50.5	48.5	
	21:45:00	50.0	52.7	50.5	49.5	49.9
	22:00:00	49.3	51.1	49.5	48.5	
	22:15:00	49.6	53.9	50.5	48.5	
	22:30:00	49.5	54.1	50.5	47.5	
	22:45:00	49.0	54.4	49.5	47.5	49.4
	23:00:00	49.9	52.8	50.5	48.5	
	23:15:00	49.6	52.6	50.5	48.5	
	23:30:00	49.2	59.0	49.5	47.5	
	23:45:00	48.9	50.7	49.5	47.5	49.4
8/4/2021	0:00:00	48.1	51.1	48.5	47.5	
	0:15:00	48.0	51.5	48.5	47.5	
	0:30:00	48.6	55.5	49.5	47.5	
	0:45:00	47.7	53.3	48.5	46.5	48.1
	1:00:00	47.4	52.1	48.5	46.5	
	1:15:00	47.6	50.3	48.5	46.5	
	1:30:00	48.1	50.7	48.5	47.5	
	1:45:00	47.8	49.5	48.5	46.5	47.7
	2:00:00	47.2	50.5	47.5	46.5	
	2:15:00	47.0	49.8	47.5	45.5	
	2:30:00	47.7	50.1	48.5	46.5	
	2:45:00	46.8	48.4	47.5	45.5	47.2
	3:00:00	46.0	47.9	46.5	45.5	
	3:15:00	46.3	50.8	46.5	45.5	
	3:30:00	46.1	47.6	46.5	45.5	
	3:45:00	46.4	49.7	46.5	45.5	46.2
	4:00:00	45.8	47.1	46.5	45.5	
	4:15:00	46.1	47.8	46.5	45.5	
	4:30:00	46.5	48.3	47.5	45.5	
	4:45:00	46.9	49.1	47.5	45.5	46.3
	5:00:00	47.1	48.7	47.5	45.5	
	5:15:00	47.7	51.5	48.5	46.5	
	5:30:00	48.3	64.3	49.5	46.5	
	5:45:00	47.8	50.7	48.5	46.5	47.7
	6:00:00	47.6	53.5	48.5	45.5	
	6:15:00	48.6	53.9	49.5	47.5	
	6:30:00	48.5	56.7	49.5	46.5	
	6:45:00	47.5	51.9	48.5	45.5	48.1
	7:00:00	47.3	58.7	48.5	44.5	
	7:15:00	47.0	57.1	48.5	44.5	
	7:30:00	47.6	55.3	49.5	44.5	
	7:45:00	48.4	62.3	49.5	45.5	47.6
	8:00:00	47.1	56.3	48.5	45.5	
	8:15:00	46.7	50.8	47.5	45.5	
	8:30:00	48.4	58.7	49.5	45.5	
	8:45:00	47.6	53.3	48.5	45.5	47.5
	9:00:00	47.3	55.6	49.5	44.5	
	9:15:00	45.7	51.0	46.5	43.5	
	9:30:00	46.4	56.3	47.5	44.5	
	9:45:00	47.1	53.1	49.5	44.5	46.7
	10:00:00	47.2	53.3	48.5	44.5	

	10:15:00	48.4	57.2	51.5	43.5	
	10:30:00	50.8	61.5	54.5	44.5	
	10:45:00	50.4	59.2	54.5	45.5	49.4
	11:00:00	51.5	61.1	55.5	44.5	
	11:15:00	48.4	56.3	51.5	45.5	
	11:30:00	48.9	53.6	51.5	45.5	
	11:45:00	51.2	70.9	51.5	45.5	50.2
	12:00:00	51.0	63.4	54.5	46.5	
	12:15:00	48.9	56.0	51.5	45.5	
	12:30:00	49.7	64.3	52.5	45.5	
	12:45:00	49.8	63.1	51.5	45.5	49.9
	13:00:00	46.0	53.5	47.5	44.5	
	13:15:00	46.5	56.9	47.5	44.5	
	13:30:00	47.4	56.8	49.5	44.5	
	13:45:00	47.7	58.7	49.5	44.5	47.0
	14:00:00	49.1	55.9	51.5	45.5	
	14:15:00	48.2	55.9	50.5	45.5	
	14:30:00	47.4	54.1	49.5	44.5	
	14:45:00	45.6	56.3	46.5	43.5	47.8
	15:00:00	47.1	53.7	48.5	44.5	
	15:15:00	48.1	55.1	50.5	44.5	
	15:30:00	47.4	55.5	48.5	45.5	
	15:45:00	49.2	59.6	51.5	45.5	48.0
	16:00:00	49.6	59.5	52.5	44.5	
	16:15:00	48.2	62.6	49.5	44.5	
	16:30:00	48.0	54.7	49.5	45.5	
	16:45:00	47.8	54.7	49.5	45.5	48.5
	17:00:00	49.6	59.1	51.5	46.5	
	17:15:00	47.9	57.5	49.5	45.5	
	17:30:00	47.5	55.1	48.5	45.5	
	17:45:00	46.5	51.7	47.5	44.5	48.0
	18:00:00	46.5	68.6	46.5	44.5	
	18:15:00	46.1	49.2	46.5	44.5	
	18:30:00	48.8	64.3	49.5	45.5	
	18:45:00	48.4	61.6	49.5	46.5	47.6
	19:00:00	47.8	50.7	48.5	46.5	
	19:15:00	47.2	49.1	47.5	45.5	
	19:30:00	46.6	53.5	47.5	45.5	
	19:45:00	46.9	53.6	47.5	45.5	47.1
	20:00:00	47.2	56.7	48.5	45.5	
	20:15:00	46.6	51.6	47.5	45.5	
	20:30:00	50.2	67.1	52.5	45.5	
	20:45:00	50.1	54.7	50.5	48.5	48.8
	21:00:00	50.1	57.0	50.5	48.5	
	21:15:00	49.7	52.6	50.5	48.5	
	21:30:00	49.5	54.3	49.5	48.5	
	21:45:00	50.3	55.1	50.5	49.5	49.9
	22:00:00	50.4	54.4	51.5	49.5	
	22:15:00	50.7	52.0	51.5	49.5	
	22:30:00	50.8	65.1	51.5	49.5	
	22:45:00	50.9	53.1	51.5	49.5	50.7
	23:00:00	50.8	53.5	51.5	49.5	
	23:15:00	50.1	52.1	50.5	49.5	
	23:30:00	50.2	59.0	50.5	49.5	
	23:45:00	49.9	51.7	50.5	49.5	50.3
8/5/2021	0:00:00	50.4	53.3	51.5	49.5	
	0:15:00	49.8	51.9	50.5	48.5	
	0:30:00	49.7	57.5	50.5	48.5	
	0:45:00	49.1	56.3	49.5	48.5	49.8
	1:00:00	49.8	56.9	50.5	48.5	
	1:15:00	48.9	59.4	49.5	47.5	
	1:30:00	48.1	52.5	49.5	46.5	
	1:45:00	47.9	57.7	48.5	47.5	48.7
	2:00:00	47.9	49.8	48.5	47.5	
	2:15:00	48.0	53.3	48.5	47.5	
	2:30:00	47.4	49.2	47.5	46.5	
	2:45:00	48.2	49.5	48.5	47.5	47.9
	3:00:00	47.4	49.9	47.5	46.5	
	3:15:00	47.2	48.7	47.5	46.5	

3:30:00	47.0	48.9	47.5	46.5	
3:45:00	46.5	47.8	46.5	45.5	47.0
4:00:00	46.7	54.3	47.5	45.5	
4:15:00	46.5	49.1	47.5	45.5	
4:30:00	47.3	48.7	47.5	46.5	
4:45:00	46.5	48.3	47.5	45.5	46.8
5:00:00	47.6	52.0	48.5	46.5	
5:15:00	46.5	53.6	47.5	45.5	
5:30:00	48.2	65.5	47.5	45.5	
5:45:00	47.2	72.3	46.5	43.5	47.4
6:00:00	45.7	54.7	46.5	44.5	
6:15:00	46.2	51.1	47.5	44.5	
6:30:00	47.6	57.1	49.5	45.5	
6:45:00	47.7	61.9	49.5	44.5	46.9
7:00:00	47.7	59.5	49.5	45.5	
7:15:00	45.8	52.3	47.5	43.5	
7:30:00	45.7	53.9	47.5	43.5	
7:45:00	45.9	54.3	47.5	44.5	46.4
8:00:00	46.4	56.0	47.5	44.5	
8:15:00	45.8	59.1	46.5	44.5	
8:30:00	46.0	49.8	47.5	44.5	
8:45:00	46.9	56.0	48.5	44.5	46.3
9:00:00	48.6	57.5	49.5	45.5	
9:15:00	46.7	53.9	48.5	43.5	
9:30:00	46.2	52.1	47.5	44.5	
9:45:00	49.4	53.6	52.5	44.5	47.9
10:00:00	50.3	58.1	53.5	45.5	
10:15:00	48.9	56.4	52.5	44.5	
10:30:00	48.5	55.9	51.5	43.5	
10:45:00	48.6	56.4	50.5	44.5	49.1
11:00:00	48.2	54.4	51.5	43.5	
11:15:00	48.2	55.9	51.5	43.5	
11:30:00	48.1	55.5	51.5	43.5	
11:45:00	45.9	52.7	47.5	43.5	47.7
12:00:00	48.0	60.7	50.5	43.5	
12:15:00	49.7	64.3	49.5	43.5	
12:30:00	48.7	64.1	48.5	44.5	
12:45:00	48.1	59.5	49.5	44.5	48.7
13:00:00	49.0	57.5	51.5	43.5	
13:15:00	50.0	55.5	53.5	44.5	
13:30:00	48.6	53.9	50.5	45.5	
13:45:00	48.7	57.1	50.5	44.5	49.1
14:00:00	47.5	56.3	49.5	43.5	
14:15:00	45.7	53.9	47.5	43.5	
14:30:00	47.1	54.6	49.5	43.5	
14:45:00	48.4	57.1	50.5	43.5	47.3
15:00:00	46.5	56.4	48.5	43.5	
15:15:00	46.7	56.7	47.5	42.5	
15:30:00	48.4	55.3	51.5	44.5	
15:45:00	45.0	52.3	46.5	42.5	46.8
16:00:00	46.3	57.9	47.5	43.5	
16:15:00	49.3	65.1	47.5	43.5	
16:30:00	47.2	53.9	47.5	45.5	
16:45:00	47.6	59.5	49.5	45.5	47.7
17:00:00	46.6	53.3	47.5	45.5	
17:15:00	48.2	61.1	48.5	45.5	
17:30:00	48.3	65.9	47.5	45.5	
17:45:00	48.2	55.7	49.5	44.5	47.9
18:00:00	45.8	51.9	46.5	44.5	
18:15:00	48.2	59.2	50.5	45.5	
18:30:00	46.3	55.2	47.5	44.5	
18:45:00	48.2	56.7	48.5	46.5	47.3
19:00:00	47.1	52.7	48.5	45.5	
19:15:00	48.2	52.6	49.5	46.5	
19:30:00	48.7	53.9	49.5	46.5	
19:45:00	47.3	50.3	48.5	45.5	47.9
20:00:00	47.4	53.3	48.5	45.5	
20:15:00	50.5	59.0	52.5	46.5	
20:30:00	48.9	55.6	50.5	46.5	

	20:45:00	50.1	51.7	50.5	49.5	49.4
	21:00:00	50.5	69.9	50.5	49.5	
	21:15:00	50.3	51.5	50.5	49.5	
	21:30:00	50.5	59.5	50.5	49.5	
	21:45:00	50.6	53.1	51.5	49.5	50.5
	22:00:00	50.4	53.1	50.5	49.5	
	22:15:00	50.2	54.4	50.5	49.5	
	22:30:00	50.6	53.5	51.5	49.5	
	22:45:00	50.6	54.5	51.5	49.5	50.5
	23:00:00	50.8	54.9	51.5	49.5	
	23:15:00	50.7	52.6	51.5	49.5	
	23:30:00	50.1	51.5	50.5	49.5	
	23:45:00	50.4	60.1	50.5	49.5	50.5
8/6/2021	0:00:00	49.8	57.1	50.5	48.5	
	0:15:00	49.2	51.0	49.5	48.5	
	0:30:00	49.0	50.3	49.5	47.5	
	0:45:00	49.2	50.4	49.5	48.5	49.3
	1:00:00	49.0	51.2	49.5	47.5	
	1:15:00	48.8	49.9	49.5	47.5	
	1:30:00	48.2	53.0	48.5	47.5	
	1:45:00	48.5	51.7	49.5	47.5	48.6
	2:00:00	49.1	65.1	50.5	46.5	
	2:15:00	49.0	64.3	50.5	46.5	
	2:30:00	51.1	77.2	50.5	47.5	
	2:45:00	48.3	66.2	48.5	46.5	49.5
	3:00:00	47.3	60.7	47.5	46.5	
	3:15:00	46.7	50.3	47.5	45.5	
	3:30:00	46.1	47.1	46.5	45.5	
	3:45:00	46.4	48.3	46.5	44.5	46.6
	4:00:00	46.1	48.8	46.5	45.5	
	4:15:00	46.0	48.7	46.5	44.5	
	4:30:00	46.1	49.1	46.5	45.5	
	4:45:00	46.4	49.2	47.5	45.5	46.2
	5:00:00	47.0	54.4	47.5	45.5	
	5:15:00	46.2	49.4	47.5	44.5	
	5:30:00	45.4	50.5	46.5	44.5	
	5:45:00	45.6	49.9	46.5	43.5	46.1
	6:00:00	45.8	54.7	46.5	44.5	
	6:15:00	49.0	63.5	48.5	44.5	
	6:30:00	45.3	50.7	46.5	43.5	
	6:45:00	46.6	57.5	48.5	44.5	46.9
	7:00:00	48.1	58.9	49.5	44.5	
	7:15:00	51.4	56.7	53.5	46.5	
	7:30:00	51.7	53.9	53.5	48.5	
	7:45:00	51.1	55.5	53.5	47.5	50.8
	8:00:00	49.2	52.0	50.5	46.5	
	8:15:00	49.4	58.6	49.5	48.5	
	8:30:00	48.8	55.5	49.5	45.5	
	8:45:00	48.6	52.8	49.5	47.5	49.0
	9:00:00	48.5	52.6	49.5	46.5	
	9:15:00	49.1	51.9	50.5	45.5	
	9:30:00	50.2	54.1	51.5	48.5	
	9:45:00	50.5	55.1	52.5	48.5	49.6
	10:00:00	50.6	54.3	51.5	46.5	
	10:15:00	51.0	61.8	52.5	46.5	
	10:30:00	50.8	59.0	55.5	45.5	
	10:45:00	51.4	55.5	53.5	45.5	51.0
	11:00:00	53.4	59.5	55.5	47.5	
	11:15:00	47.3	53.3	50.5	43.5	
	11:30:00	46.3	54.2	48.5	43.5	
	11:45:00	47.4	53.6	50.5	43.5	49.7
	12:00:00	52.8	72.7	55.5	44.5	
	12:15:00	48.0	60.3	51.5	43.5	
	12:30:00	48.9	55.5	51.5	43.5	
	12:45:00	46.8	59.5	48.5	43.5	49.8
	13:00:00	47.8	65.5	49.5	43.5	
	13:15:00	47.2	53.5	49.5	42.5	
	13:30:00	47.0	53.5	49.5	43.5	
	13:45:00	46.9	56.3	49.5	43.5	47.2

14:00:00	46.1	54.9	48.5	43.5	
14:15:00	45.4	53.9	47.5	43.5	
14:30:00	46.1	58.9	46.5	43.5	
14:45:00	46.4	55.1	47.5	43.5	46.0
15:00:00	46.0	54.7	47.5	43.5	
15:15:00	46.5	53.0	47.5	45.5	
15:30:00	47.8	58.6	50.5	45.5	
15:45:00	46.4	50.6	47.5	44.5	46.7
16:00:00	46.9	55.8	49.5	43.5	
16:15:00	46.3	50.7	47.5	44.5	
16:30:00	47.5	52.3	48.5	45.5	
16:45:00	46.7	55.9	47.5	44.5	46.9
17:00:00	46.4	50.5	47.5	44.5	
17:15:00	46.1	49.9	47.5	44.5	
17:30:00	47.3	56.0	49.5	44.5	
17:45:00	47.7	57.1	48.5	45.5	46.9
18:00:00	49.1	55.1	50.5	45.5	
18:15:00	48.3	56.4	49.5	45.5	
18:30:00	50.9	68.8	49.5	46.5	
18:45:00	48.6	51.5	49.5	47.5	49.3
19:00:00	47.8	54.7	48.5	46.5	
19:15:00	48.3	53.5	49.5	47.5	
19:30:00	50.6	59.5	52.5	47.5	
19:45:00	51.8	59.9	54.5	47.5	49.9
20:00:00	52.8	57.9	56.5	48.5	52.8
20:15:00	79.3	101.9	78.5	47.5	


Seneca Meadows Inc.
2021 Annual Sound Survey
Location 10 Logging
Sound Level, Leq, dBA
100
90
80
70
60
50
40
30
20
10
0
Traffic, birds, insects, landfill equipment
6:45:00
9:45:00
12:45:00
15:45:00
18:45:00
21:45:00
0:45:00
3:45:00
Time
August 2 - August 6, 2021
Leq-1hr
Leq-15min

****
Filename.....LOC10
Test Location.....
Employee Name.....
Employee Number.....
Department.....
Calibrator Type.....Metrosonics cl304 #2054
Calibrator Cal. Date...June 18, 2021

****

METROSONICS db-3080 V1.12 SERIAL # 4684
REPORT PRINTED ON 08/08/21 at 16:03:09

Seneca Meadows, Inc.
2021 Annual Sound Survey
Aurora Acoustical
Consultants Inc.
East Aurora, New York

LOGGING STARTED.....08/02/21 at 06:45:00
TOTAL LOGGING TIME...4 DAYS 12:40:48
LOGGING STOPPED.....08/06/21 at 19:25:48
TOTAL INTERVALS.....435
INTERVAL LENGTH.....00:15:00
AUTO STOP.....NO
CLOCK SYNCH.....YES
RESPONSE RATE.....SLOW
FILTER.....A WT.
PRE-TEST CALIBRATION TIME....07/30/21 AT 17:59:49
PRE-TEST CALIBRATION RANGE...39.5 TO 139.5 dB
POST-TEST CALIBRATION TIME...08/08/21 AT 15:58:50
POST-TEST CALIBRATION RANGE...39.7 TO 139.7
CUTOFF USED FOR TIME HISTORY Lav...NONE

<<< SUMMARY REPORT FOR TEST NUMBER 1 OF 1 >>>

EXCHANGE RATE.....3dB
CUTOFFS..... 60dB 60dB
CEILING.....115dB
DOSE CRITERION LEVEL... 90dB
DOSE CRITERION LENGTH.. 8 HOURS
Lav..... 48.5dB
Lav (60)..... 42.6dB
Lav (60)..... 42.6dB
SEL..... 104.3dB
TWA..... 59.8dB
TWA (60)..... 53.9dB
TWA (60)..... 53.9dB
Lmax..... 93.6dB 08/06/21 at 19:24:09
Lpk..... 123.8dB 08/06/21 at 19:24:09
TIME OVER 115dB...00:00:00.00
DOSE (60)..... 0.02%
DOSE (60)..... 0.02%

<<< TIME HISTORY REPORT FOR TEST NUMBER 1 OF 1 >>>

	TIME	Leq-15min dBA	Lmax dBA	L(10.0) dBA	L(99.0) dBA	Leq-1hr dBA
8/2/2021						
	6:45:00	46.4	56.7	48.5	43.5	46.4
	7:00:00	45.0	55.2	46.5	43.5	
	7:15:00	54.5	83.6	46.5	43.5	
	7:30:00	45.9	61.0	46.5	43.5	
	7:45:00	45.8	56.2	46.5	44.5	49.9
	8:00:00	46.5	59.6	48.5	44.5	
	8:15:00	46.1	55.8	47.5	44.5	
	8:30:00	47.6	59.1	50.5	44.5	
	8:45:00	49.0	61.4	52.5	44.5	47.5
	9:00:00	49.3	61.8	51.5	44.5	
	9:15:00	49.7	60.2	52.5	44.5	
	9:30:00	47.5	59.8	49.5	43.5	
	9:45:00	48.2	62.9	50.5	43.5	48.8
	10:00:00	48.1	70.1	49.5	43.5	
	10:15:00	49.3	57.8	52.5	43.5	
	10:30:00	48.2	58.0	50.5	44.5	
	10:45:00	48.1	57.9	51.5	43.5	48.5
	11:00:00	47.7	57.1	49.5	43.5	
	11:15:00	48.1	60.3	50.5	43.5	
	11:30:00	48.9	65.8	51.5	44.5	
	11:45:00	47.9	57.0	50.5	43.5	48.2
	12:00:00	48.0	60.6	50.5	43.5	
	12:15:00	47.8	59.4	50.5	43.5	
	12:30:00	47.5	57.2	49.5	43.5	
	12:45:00	48.3	56.6	50.5	43.5	47.9
	13:00:00	49.0	68.6	50.5	44.5	
	13:15:00	48.2	56.2	50.5	43.5	
	13:30:00	48.5	58.7	50.5	43.5	
	13:45:00	48.5	59.2	50.5	43.5	48.6
	14:00:00	48.0	56.1	50.5	43.5	
	14:15:00	49.2	64.2	50.5	44.5	
	14:30:00	49.0	56.8	51.5	45.5	
	14:45:00	49.1	59.8	51.5	44.5	48.9
	15:00:00	48.6	61.4	50.5	44.5	
	15:15:00	50.1	59.0	53.5	45.5	
	15:30:00	48.9	59.2	51.5	44.5	
	15:45:00	49.4	62.5	51.5	44.5	49.3
	16:00:00	49.9	73.0	51.5	44.5	
	16:15:00	49.2	61.0	51.5	44.5	
	16:30:00	49.7	63.6	52.5	45.5	
	16:45:00	48.4	57.9	50.5	45.5	49.3
	17:00:00	49.1	61.6	51.5	45.5	
	17:15:00	47.0	55.0	48.5	45.5	
	17:30:00	46.4	55.8	47.5	44.5	
	17:45:00	45.8	51.4	47.5	43.5	47.3
	18:00:00	45.9	54.4	46.5	44.5	
	18:15:00	45.8	57.2	46.5	44.5	
	18:30:00	45.2	49.4	46.5	44.5	
	18:45:00	46.4	66.1	46.5	44.5	45.8
	19:00:00	45.8	53.3	46.5	44.5	
	19:15:00	45.9	60.6	46.5	44.5	
	19:30:00	45.9	52.2	47.5	43.5	
	19:45:00	45.6	54.5	46.5	44.5	45.8
	20:00:00	45.6	49.5	46.5	44.5	
	20:15:00	46.3	62.7	47.5	44.5	
	20:30:00	46.4	61.3	47.5	44.5	
	20:45:00	45.2	52.0	45.5	44.5	45.9
	21:00:00	45.7	49.8	46.5	44.5	
	21:15:00	46.4	52.6	47.5	45.5	
	21:30:00	45.6	51.0	46.5	45.5	
	21:45:00	45.7	51.8	46.5	45.5	45.9
	22:00:00	45.4	49.1	46.5	44.5	
	22:15:00	45.1	46.6	45.5	44.5	

	22:30:00	45.3	48.9	46.5	44.5	
	22:45:00	44.9	46.4	45.5	44.5	45.2
	23:00:00	44.9	49.3	45.5	44.5	
	23:15:00	45.0	51.9	45.5	44.5	
	23:30:00	44.6	46.0	44.5	44.5	
	23:45:00	44.3	46.2	44.5	43.5	44.7
8/3/2021	0:00:00	44.2	46.2	44.5	43.5	
	0:15:00	44.0	44.6	44.5	43.5	
	0:30:00	43.8	51.4	44.5	43.5	
	0:45:00	43.6	46.6	43.5	43.5	43.9
	1:00:00	43.4	51.2	43.5	43.5	
	1:15:00	43.2	46.4	43.5	42.5	
	1:30:00	43.4	45.6	43.5	42.5	
	1:45:00	43.3	55.5	43.5	42.5	43.3
	2:00:00	42.7	43.1	42.5	42.5	
	2:15:00	42.8	46.4	43.5	42.5	
	2:30:00	42.7	54.1	42.5	42.5	
	2:45:00	42.5	43.1	42.5	42.5	42.7
	3:00:00	42.5	45.8	42.5	42.5	
	3:15:00	42.5	47.4	42.5	42.5	
	3:30:00	42.6	43.9	42.5	42.5	
	3:45:00	42.5	43.8	42.5	42.5	42.5
	4:00:00	42.4	43.5	42.5	42.5	
	4:15:00	42.4	43.8	42.5	42.5	
	4:30:00	42.8	51.0	43.5	42.5	
	4:45:00	42.5	44.6	42.5	42.5	42.5
	5:00:00	42.9	47.1	43.5	42.5	
	5:15:00	43.4	54.6	44.5	42.5	
	5:30:00	46.3	59.4	48.5	42.5	
	5:45:00	44.4	58.4	44.5	42.5	44.5
	6:00:00	44.2	58.2	44.5	42.5	
	6:15:00	44.0	56.6	44.5	42.5	
	6:30:00	44.3	52.2	45.5	42.5	
	6:45:00	44.6	51.6	45.5	43.5	44.3
	7:00:00	44.1	54.2	44.5	42.5	
	7:15:00	44.4	52.7	45.5	43.5	
	7:30:00	44.4	52.6	45.5	43.5	
	7:45:00	44.6	58.8	44.5	43.5	44.4
	8:00:00	44.6	49.7	45.5	43.5	
	8:15:00	46.0	69.7	45.5	42.5	
	8:30:00	44.4	51.5	45.5	42.5	
	8:45:00	45.4	54.6	47.5	43.5	45.1
	9:00:00	46.9	56.9	48.5	43.5	
	9:15:00	44.2	51.2	45.5	42.5	
	9:30:00	45.4	54.7	47.5	42.5	
	9:45:00	45.4	55.0	47.5	43.5	45.6
	10:00:00	45.9	56.0	47.5	42.5	
	10:15:00	45.4	56.8	47.5	42.5	
	10:30:00	44.8	52.7	46.5	42.5	
	10:45:00	44.6	48.8	46.5	42.5	45.2
	11:00:00	45.4	54.6	47.5	42.5	
	11:15:00	43.9	51.4	44.5	42.5	
	11:30:00	44.1	50.1	45.5	42.5	
	11:45:00	44.4	50.2	45.5	42.5	44.5
	12:00:00	44.5	51.4	45.5	43.5	
	12:15:00	44.9	52.1	46.5	42.5	
	12:30:00	46.7	58.6	49.5	43.5	
	12:45:00	48.0	57.2	50.5	43.5	46.3
	13:00:00	46.1	52.4	48.5	43.5	
	13:15:00	45.1	60.6	46.5	42.5	
	13:30:00	46.0	55.0	48.5	42.5	
	13:45:00	45.2	55.8	46.5	42.5	45.6
	14:00:00	44.5	60.5	45.5	42.5	
	14:15:00	46.1	54.2	49.5	42.5	
	14:30:00	45.5	64.8	46.5	42.5	
	14:45:00	44.0	49.7	45.5	42.5	45.1
	15:00:00	44.2	58.1	44.5	42.5	
	15:15:00	44.6	54.1	46.5	42.5	
	15:30:00	46.2	60.2	47.5	42.5	

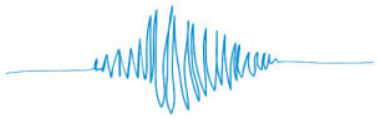
	15:45:00	45.9	64.2	47.5	42.5	45.3
	16:00:00	45.9	55.1	47.5	43.5	
	16:15:00	47.0	61.4	49.5	43.5	
	16:30:00	46.1	52.4	47.5	43.5	
	16:45:00	46.4	60.2	48.5	43.5	46.4
	17:00:00	45.6	49.6	46.5	44.5	
	17:15:00	45.3	50.1	45.5	44.5	
	17:30:00	46.1	56.0	47.5	44.5	
	17:45:00	47.3	59.1	48.5	44.5	46.1
	18:00:00	47.6	58.2	49.5	44.5	
	18:15:00	47.1	53.4	48.5	44.5	
	18:30:00	47.3	59.6	48.5	44.5	
	18:45:00	47.2	53.8	48.5	44.5	47.3
	19:00:00	47.9	53.7	49.5	45.5	
	19:15:00	47.1	52.6	48.5	45.5	
	19:30:00	48.8	54.8	50.5	45.5	
	19:45:00	48.3	55.8	49.5	45.5	48.1
	20:00:00	49.5	65.0	51.5	45.5	
	20:15:00	49.7	66.6	51.5	45.5	
	20:30:00	47.1	53.4	49.5	44.5	
	20:45:00	50.0	56.5	52.5	45.5	49.2
	21:00:00	46.9	50.8	47.5	45.5	
	21:15:00	46.9	49.0	47.5	45.5	
	21:30:00	46.9	51.6	47.5	45.5	
	21:45:00	46.6	48.3	46.5	45.5	46.8
	22:00:00	46.8	49.8	47.5	46.5	
	22:15:00	46.6	48.2	47.5	46.5	
	22:30:00	46.9	54.6	47.5	45.5	
	22:45:00	46.0	47.2	46.5	45.5	46.6
	23:00:00	45.9	48.8	46.5	45.5	
	23:15:00	46.5	56.8	46.5	45.5	
	23:30:00	45.9	47.4	46.5	45.5	
	23:45:00	45.6	47.4	45.5	45.5	46.0
8/4/2021	0:00:00	45.4	47.0	45.5	44.5	
	0:15:00	45.3	46.6	45.5	44.5	
	0:30:00	45.0	47.6	45.5	44.5	
	0:45:00	45.0	46.2	45.5	44.5	45.2
	1:00:00	44.9	49.4	45.5	44.5	
	1:15:00	44.7	46.5	45.5	44.5	
	1:30:00	44.4	45.4	44.5	43.5	
	1:45:00	44.3	45.4	44.5	43.5	44.6
	2:00:00	44.4	45.0	44.5	43.5	
	2:15:00	44.0	44.8	44.5	43.5	
	2:30:00	43.8	44.3	44.5	43.5	
	2:45:00	43.8	44.8	44.5	43.5	44.0
	3:00:00	43.6	44.7	43.5	42.5	
	3:15:00	43.6	46.8	43.5	43.5	
	3:30:00	43.8	45.8	44.5	43.5	
	3:45:00	43.5	44.6	43.5	42.5	43.6
	4:00:00	43.9	52.9	43.5	42.5	
	4:15:00	43.5	46.3	43.5	42.5	
	4:30:00	43.5	46.8	43.5	43.5	
	4:45:00	43.2	44.6	43.5	42.5	43.5
	5:00:00	43.1	45.8	43.5	42.5	
	5:15:00	44.1	52.0	46.5	42.5	
	5:30:00	44.4	56.3	45.5	42.5	
	5:45:00	44.4	58.9	45.5	42.5	44.0
	6:00:00	46.4	56.5	49.5	42.5	
	6:15:00	48.9	57.1	51.5	44.5	
	6:30:00	49.1	52.8	50.5	46.5	
	6:45:00	49.9	53.6	51.5	46.5	48.8
	7:00:00	49.8	54.7	51.5	47.5	
	7:15:00	49.1	52.9	50.5	46.5	
	7:30:00	49.2	54.1	50.5	46.5	
	7:45:00	48.9	55.4	50.5	45.5	49.3
	8:00:00	48.7	54.4	50.5	44.5	
	8:15:00	47.9	55.5	50.5	43.5	
	8:30:00	47.7	60.6	50.5	43.5	
	8:45:00	48.5	55.4	50.5	44.5	48.2

	9:00:00	48.3	55.8	50.5	44.5	
	9:15:00	48.9	54.8	50.5	45.5	
	9:30:00	49.2	54.6	51.5	45.5	
	9:45:00	49.1	56.6	51.5	45.5	48.9
	10:00:00	49.4	54.8	51.5	45.5	
	10:15:00	49.1	54.9	50.5	45.5	
	10:30:00	48.3	55.5	50.5	44.5	
	10:45:00	49.8	57.0	52.5	45.5	49.2
	11:00:00	49.4	55.4	51.5	43.5	
	11:15:00	50.1	54.9	52.5	46.5	
	11:30:00	49.4	54.1	51.5	45.5	
	11:45:00	49.6	57.0	51.5	45.5	49.6
	12:00:00	50.1	57.8	52.5	46.5	
	12:15:00	49.7	55.8	51.5	44.5	
	12:30:00	50.7	58.0	53.5	43.5	
	12:45:00	50.4	60.0	52.5	45.5	50.2
	13:00:00	49.2	57.2	52.5	43.5	
	13:15:00	48.9	55.4	51.5	44.5	
	13:30:00	50.4	63.8	53.5	44.5	
	13:45:00	48.6	57.4	50.5	45.5	49.3
	14:00:00	50.0	55.0	52.5	46.5	
	14:15:00	50.5	62.1	52.5	45.5	
	14:30:00	49.0	57.4	51.5	44.5	
	14:45:00	46.7	53.2	48.5	43.5	49.3
	15:00:00	47.5	53.8	49.5	44.5	
	15:15:00	50.0	62.2	52.5	44.5	
	15:30:00	50.7	55.6	52.5	46.5	
	15:45:00	50.7	59.3	52.5	46.5	49.9
	16:00:00	50.4	67.7	52.5	45.5	
	16:15:00	49.9	57.7	52.5	45.5	
	16:30:00	50.8	56.6	53.5	46.5	
	16:45:00	50.7	56.6	52.5	46.5	50.5
	17:00:00	51.6	68.2	53.5	47.5	
	17:15:00	50.2	55.2	52.5	46.5	
	17:30:00	50.2	55.4	52.5	46.5	
	17:45:00	49.8	55.7	51.5	46.5	50.5
	18:00:00	49.2	58.2	51.5	45.5	
	18:15:00	50.8	62.7	52.5	46.5	
	18:30:00	48.5	55.2	50.5	46.5	
	18:45:00	47.1	51.7	48.5	44.5	49.1
	19:00:00	46.9	49.8	48.5	45.5	
	19:15:00	45.9	51.1	46.5	45.5	
	19:30:00	44.9	48.6	45.5	44.5	
	19:45:00	44.9	51.2	45.5	43.5	45.7
	20:00:00	45.1	46.8	45.5	44.5	
	20:15:00	47.1	58.2	49.5	44.5	
	20:30:00	46.1	52.0	47.5	44.5	
	20:45:00	45.5	48.8	46.5	44.5	46.0
	21:00:00	46.0	47.8	46.5	45.5	
	21:15:00	46.2	48.9	46.5	45.5	
	21:30:00	46.3	49.0	46.5	45.5	
	21:45:00	46.4	49.6	46.5	45.5	46.2
	22:00:00	46.5	50.2	47.5	45.5	
	22:15:00	47.0	48.7	47.5	46.5	
	22:30:00	47.0	51.6	47.5	46.5	
	22:45:00	46.7	49.8	47.5	46.5	46.8
	23:00:00	46.4	48.6	46.5	45.5	
	23:15:00	46.1	48.4	46.5	45.5	
	23:30:00	45.9	47.2	46.5	45.5	
	23:45:00	45.7	47.5	46.5	45.5	46.0
8/5/2021	0:00:00	45.5	51.8	45.5	45.5	
	0:15:00	45.3	50.2	45.5	44.5	
	0:30:00	45.1	47.2	45.5	44.5	
	0:45:00	45.0	45.6	45.5	44.5	45.2
	1:00:00	45.1	47.1	45.5	44.5	
	1:15:00	45.0	46.2	45.5	44.5	
	1:30:00	44.8	47.5	45.5	44.5	
	1:45:00	44.7	45.6	44.5	44.5	44.9
	2:00:00	44.5	45.5	44.5	44.5	

2:15:00	44.3	45.6	44.5	43.5	
2:30:00	44.5	45.2	44.5	43.5	
2:45:00	44.4	45.7	44.5	43.5	44.4
3:00:00	44.3	45.5	44.5	44.5	
3:15:00	44.3	47.2	44.5	43.5	
3:30:00	44.0	46.3	44.5	43.5	
3:45:00	44.1	47.0	44.5	43.5	44.2
4:00:00	44.1	47.6	44.5	43.5	
4:15:00	44.0	54.2	44.5	43.5	
4:30:00	44.1	56.6	44.5	43.5	
4:45:00	44.0	46.8	44.5	43.5	44.1
5:00:00	44.3	50.8	44.5	43.5	
5:15:00	44.3	50.7	45.5	43.5	
5:30:00	46.1	58.6	48.5	43.5	
5:45:00	45.1	58.6	46.5	42.5	45.0
6:00:00	45.8	54.2	48.5	42.5	
6:15:00	48.1	64.2	49.5	43.5	
6:30:00	48.3	54.4	50.5	44.5	
6:45:00	48.1	56.4	50.5	43.5	47.7
7:00:00	48.2	55.5	50.5	45.5	
7:15:00	48.1	55.3	50.5	44.5	
7:30:00	46.9	55.4	48.5	43.5	
7:45:00	46.3	53.2	47.5	43.5	47.4
8:00:00	46.4	55.6	47.5	44.5	
8:15:00	47.3	61.0	48.5	44.5	
8:30:00	46.5	53.8	48.5	44.5	
8:45:00	47.3	55.1	49.5	44.5	46.9
9:00:00	47.5	56.0	49.5	44.5	
9:15:00	47.9	55.7	49.5	44.5	
9:30:00	48.2	55.4	50.5	44.5	
9:45:00	47.8	56.9	49.5	43.5	47.9
10:00:00	48.0	55.4	49.5	45.5	
10:15:00	48.5	57.0	49.5	45.5	
10:30:00	47.8	57.2	49.5	44.5	
10:45:00	48.3	56.0	49.5	45.5	48.2
11:00:00	49.4	56.0	51.5	46.5	
11:15:00	50.9	59.0	53.5	46.5	
11:30:00	51.6	60.5	54.5	46.5	
11:45:00	49.0	60.6	51.5	43.5	50.4
12:00:00	48.4	55.0	50.5	44.5	
12:15:00	48.8	55.2	51.5	45.5	
12:30:00	48.7	57.3	50.5	43.5	
12:45:00	46.9	54.4	49.5	43.5	48.3
13:00:00	47.2	53.9	49.5	43.5	
13:15:00	45.9	53.0	47.5	43.5	
13:30:00	45.6	55.0	47.5	42.5	
13:45:00	44.3	49.0	45.5	42.5	45.9
14:00:00	45.6	52.4	46.5	43.5	
14:15:00	44.6	48.8	45.5	43.5	
14:30:00	45.7	51.3	46.5	43.5	
14:45:00	47.7	57.4	49.5	45.5	46.1
15:00:00	47.4	54.6	49.5	44.5	
15:15:00	45.5	51.8	46.5	43.5	
15:30:00	46.4	65.4	46.5	43.5	
15:45:00	45.9	53.4	46.5	44.5	46.4
16:00:00	46.4	53.0	47.5	44.5	
16:15:00	47.9	58.6	49.5	45.5	
16:30:00	49.0	66.0	49.5	46.5	
16:45:00	48.9	53.4	49.5	46.5	48.2
17:00:00	47.7	50.6	48.5	45.5	
17:15:00	48.3	53.8	49.5	46.5	
17:30:00	48.2	53.2	49.5	46.5	
17:45:00	48.7	53.5	49.5	46.5	48.2
18:00:00	47.6	55.4	49.5	44.5	
18:15:00	48.1	55.8	49.5	46.5	
18:30:00	46.6	48.2	47.5	45.5	
18:45:00	46.4	57.6	47.5	43.5	47.2
19:00:00	45.3	54.8	45.5	43.5	
19:15:00	44.3	48.5	45.5	43.5	

	19:30:00	44.7	51.8	45.5	43.5	
	19:45:00	47.7	58.2	51.5	43.5	45.7
	20:00:00	47.8	58.0	50.5	43.5	
	20:15:00	50.7	59.6	54.5	44.5	
	20:30:00	46.8	53.2	49.5	44.5	
	20:45:00	46.2	51.5	46.5	45.5	48.2
	21:00:00	46.4	53.0	46.5	45.5	
	21:15:00	46.0	48.3	46.5	45.5	
	21:30:00	46.2	48.6	46.5	45.5	
	21:45:00	46.6	53.8	47.5	46.5	46.3
	22:00:00	46.7	53.4	47.5	46.5	
	22:15:00	46.7	48.5	47.5	46.5	
	22:30:00	46.6	50.6	47.5	45.5	
	22:45:00	46.5	51.0	46.5	46.5	46.6
	23:00:00	46.4	49.2	47.5	45.5	
	23:15:00	46.4	47.3	46.5	45.5	
	23:30:00	46.2	47.1	46.5	45.5	
	23:45:00	46.2	51.2	46.5	45.5	46.3
8/6/2021	0:00:00	46.0	47.4	46.5	45.5	
	0:15:00	46.1	48.0	46.5	45.5	
	0:30:00	45.8	46.5	46.5	45.5	
	0:45:00	45.5	46.2	45.5	45.5	45.9
	1:00:00	45.5	47.8	45.5	45.5	
	1:15:00	45.2	46.8	45.5	44.5	
	1:30:00	45.6	46.7	46.5	45.5	
	1:45:00	45.5	47.1	45.5	44.5	45.5
	2:00:00	45.6	53.6	45.5	45.5	
	2:15:00	45.7	46.7	46.5	45.5	
	2:30:00	45.3	47.8	45.5	44.5	
	2:45:00	45.2	46.8	45.5	44.5	45.5
	3:00:00	44.9	45.8	45.5	44.5	
	3:15:00	44.8	45.4	45.5	44.5	
	3:30:00	44.9	49.9	45.5	44.5	
	3:45:00	44.6	46.9	44.5	44.5	44.8
	4:00:00	44.7	48.0	45.5	44.5	
	4:15:00	45.0	48.8	45.5	44.5	
	4:30:00	45.1	46.2	45.5	44.5	
	4:45:00	45.1	46.4	45.5	44.5	45.0
	5:00:00	45.7	47.8	46.5	44.5	
	5:15:00	46.0	48.6	46.5	44.5	
	5:30:00	46.2	54.8	48.5	44.5	
	5:45:00	45.7	59.4	46.5	43.5	45.9
	6:00:00	46.9	57.4	48.5	44.5	
	6:15:00	47.2	56.4	49.5	44.5	
	6:30:00	46.2	53.6	47.5	44.5	
	6:45:00	47.4	56.0	48.5	45.5	46.9
	7:00:00	48.4	57.2	49.5	45.5	
	7:15:00	48.5	57.4	50.5	46.5	
	7:30:00	47.6	49.4	48.5	46.5	
	7:45:00	48.8	54.9	49.5	47.5	48.3
	8:00:00	48.4	58.7	48.5	46.5	
	8:15:00	49.0	57.5	49.5	47.5	
	8:30:00	48.8	50.6	49.5	47.5	
	8:45:00	49.0	53.0	49.5	48.5	48.8
	9:00:00	49.7	62.8	50.5	47.5	
	9:15:00	49.5	54.2	50.5	47.5	
	9:30:00	49.0	58.2	49.5	47.5	
	9:45:00	48.8	53.0	49.5	46.5	49.3
	10:00:00	49.6	54.4	50.5	47.5	
	10:15:00	50.1	54.4	50.5	48.5	
	10:30:00	49.0	54.6	50.5	47.5	
	10:45:00	49.6	58.6	50.5	47.5	49.6
	11:00:00	51.2	58.9	53.5	47.5	
	11:15:00	48.6	55.8	49.5	45.5	
	11:30:00	46.8	50.2	47.5	43.5	
	11:45:00	48.6	58.0	49.5	46.5	49.1
	12:00:00	49.2	57.4	52.5	44.5	
	12:15:00	46.2	55.8	46.5	43.5	
	12:30:00	46.4	53.0	47.5	43.5	

12:45:00	46.4	52.9	47.5	45.5	47.2
13:00:00	46.9	65.8	47.5	44.5	
13:15:00	47.1	57.0	47.5	44.5	
13:30:00	48.0	55.4	49.5	45.5	
13:45:00	48.5	58.6	48.5	46.5	47.7
14:00:00	48.8	54.4	49.5	46.5	
14:15:00	49.9	63.3	50.5	47.5	
14:30:00	47.9	54.3	48.5	45.5	
14:45:00	48.8	53.0	49.5	46.5	48.9
15:00:00	50.0	63.0	50.5	48.5	
15:15:00	50.6	56.1	51.5	49.5	
15:30:00	49.4	52.2	50.5	46.5	
15:45:00	50.2	71.8	50.5	47.5	50.1
16:00:00	50.8	56.3	52.5	48.5	
16:15:00	50.1	54.2	50.5	48.5	
16:30:00	49.7	52.3	50.5	48.5	
16:45:00	49.8	54.8	50.5	47.5	50.1
17:00:00	52.0	75.1	51.5	49.5	
17:15:00	51.1	53.6	51.5	49.5	
17:30:00	50.0	58.2	50.5	49.5	
17:45:00	50.1	57.4	50.5	49.5	50.9
18:00:00	50.7	59.0	51.5	49.5	
18:15:00	48.2	52.6	50.5	45.5	
18:30:00	47.9	57.8	48.5	45.5	
18:45:00	48.7	57.4	51.5	45.5	49.0
19:00:00	49.9	56.2	50.5	47.5	49.9
19:15:00	70.1	93.6	64.5	46.5	



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745 Warren Drive
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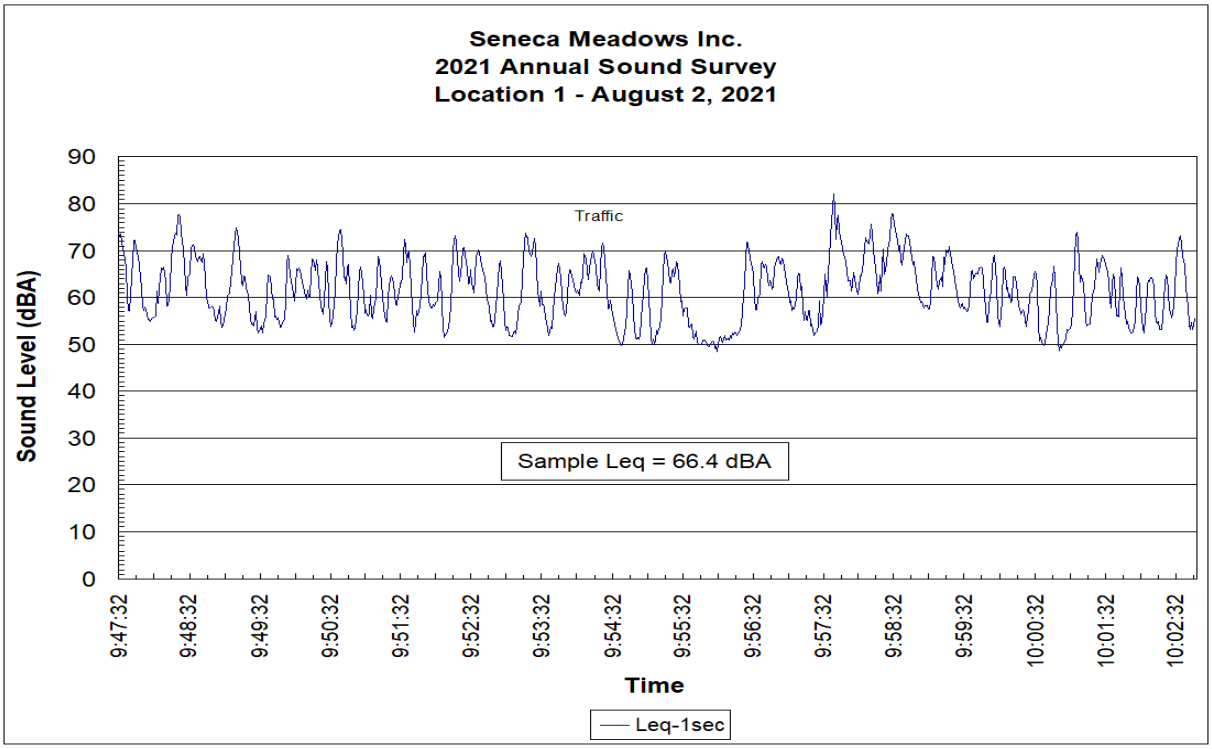
716-655-2200
info@auroraacoustical.com

Appendix C

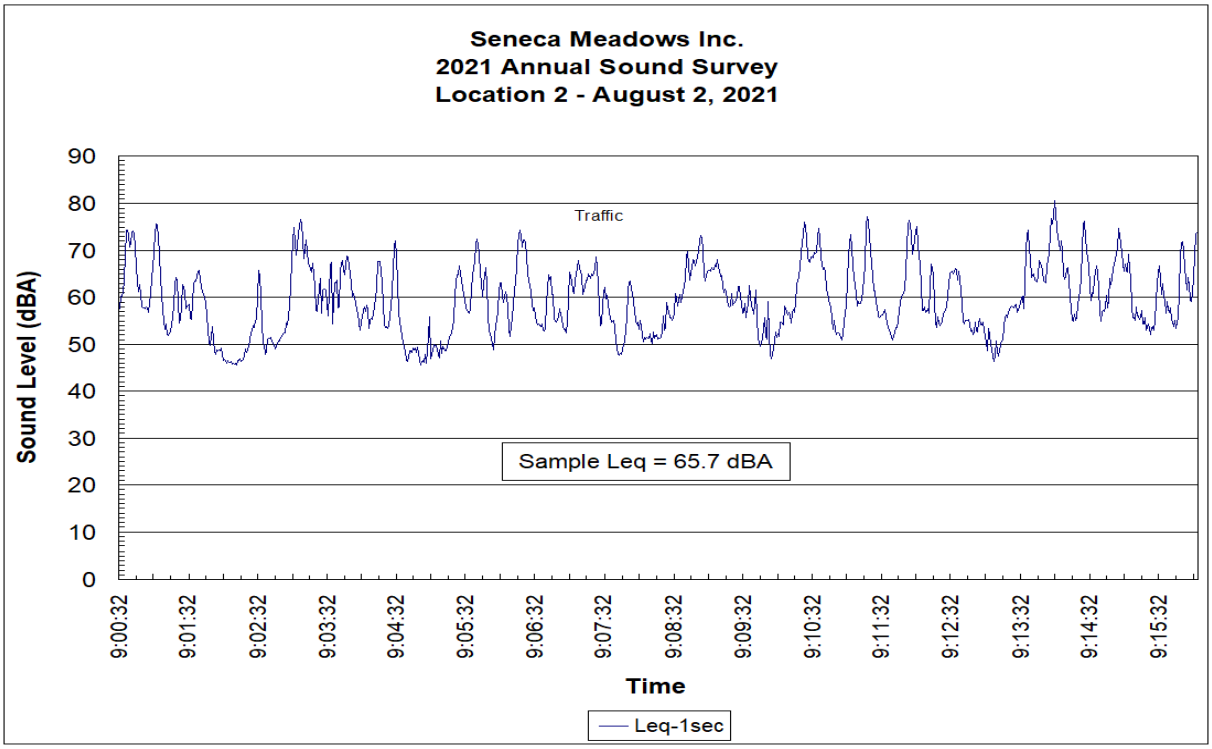
Sampling Sound Surveys

August 2, 2021

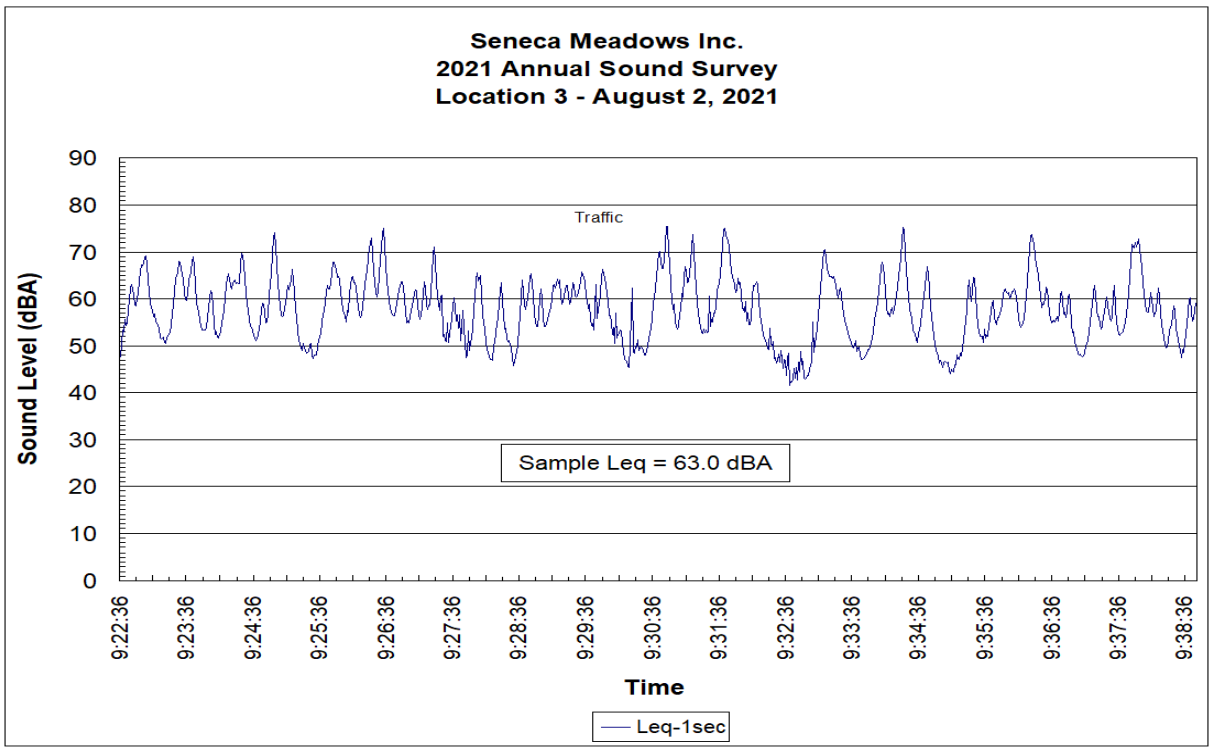
Morning to Mid-Day Period



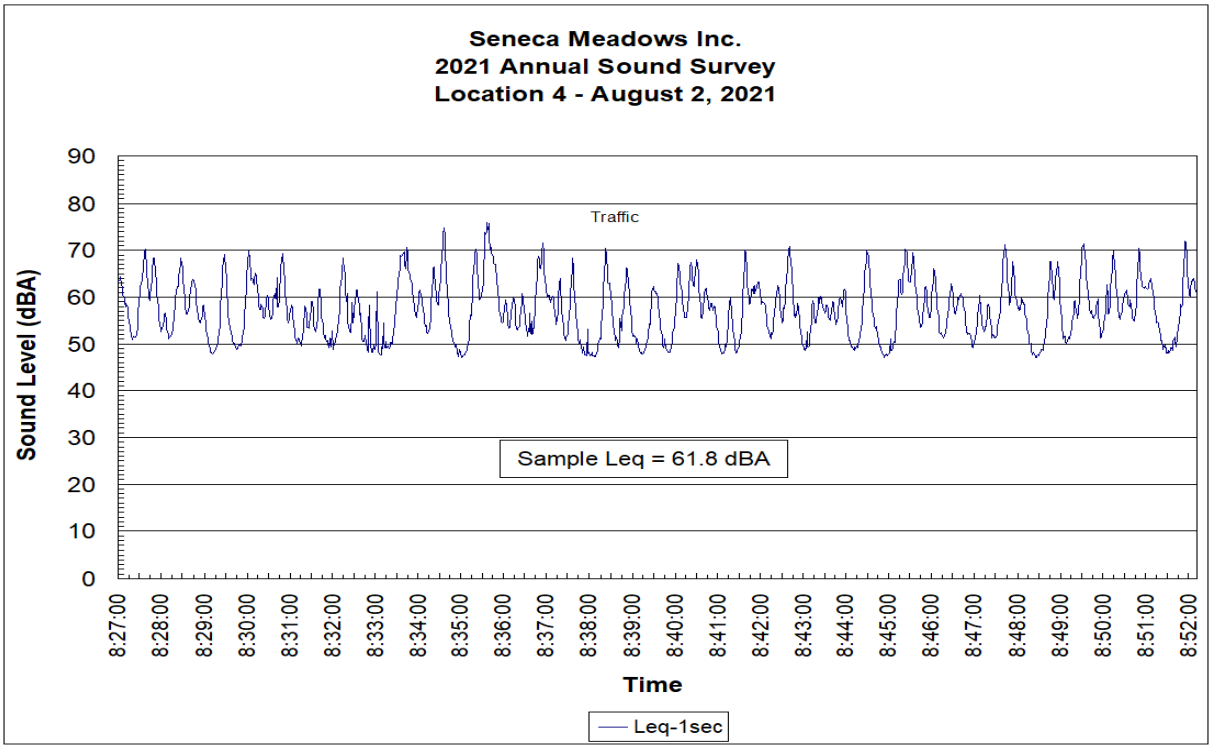
Location 1: Leq = 66.4 dBA
Traffic on Rt. 414.



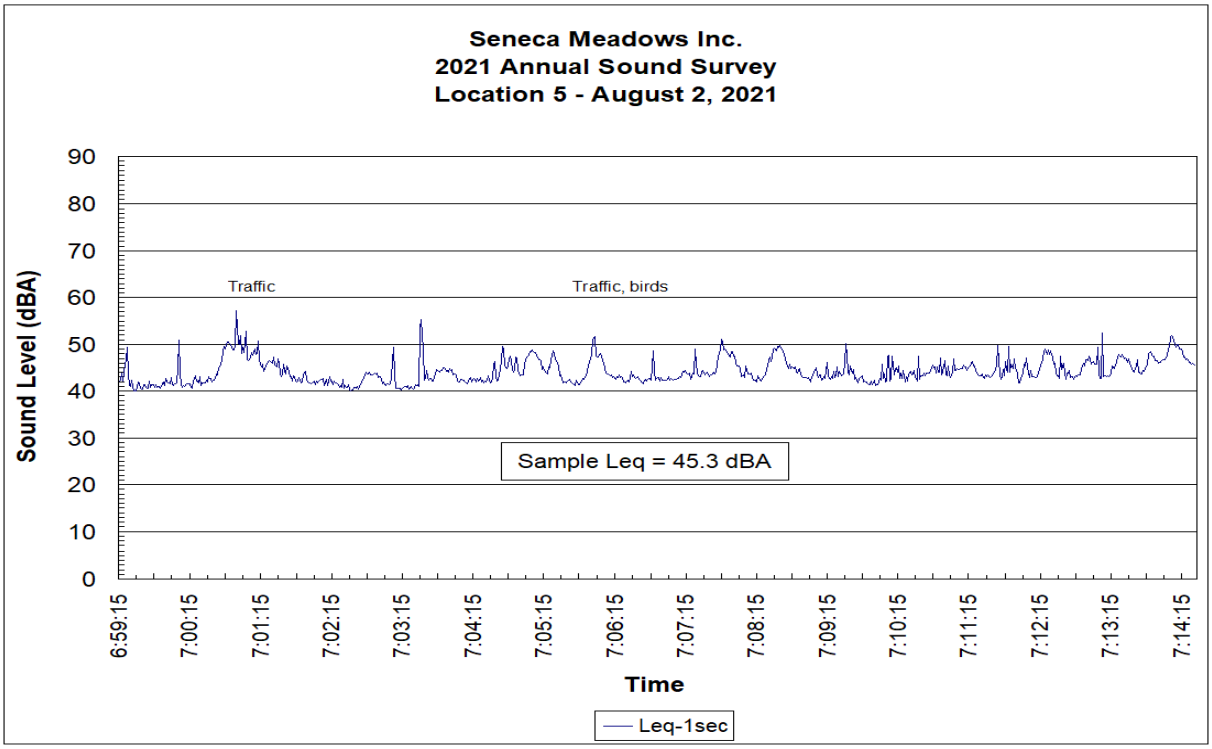
Location 2: Leq = 65.7 dBA
Traffic on Rt. 414.



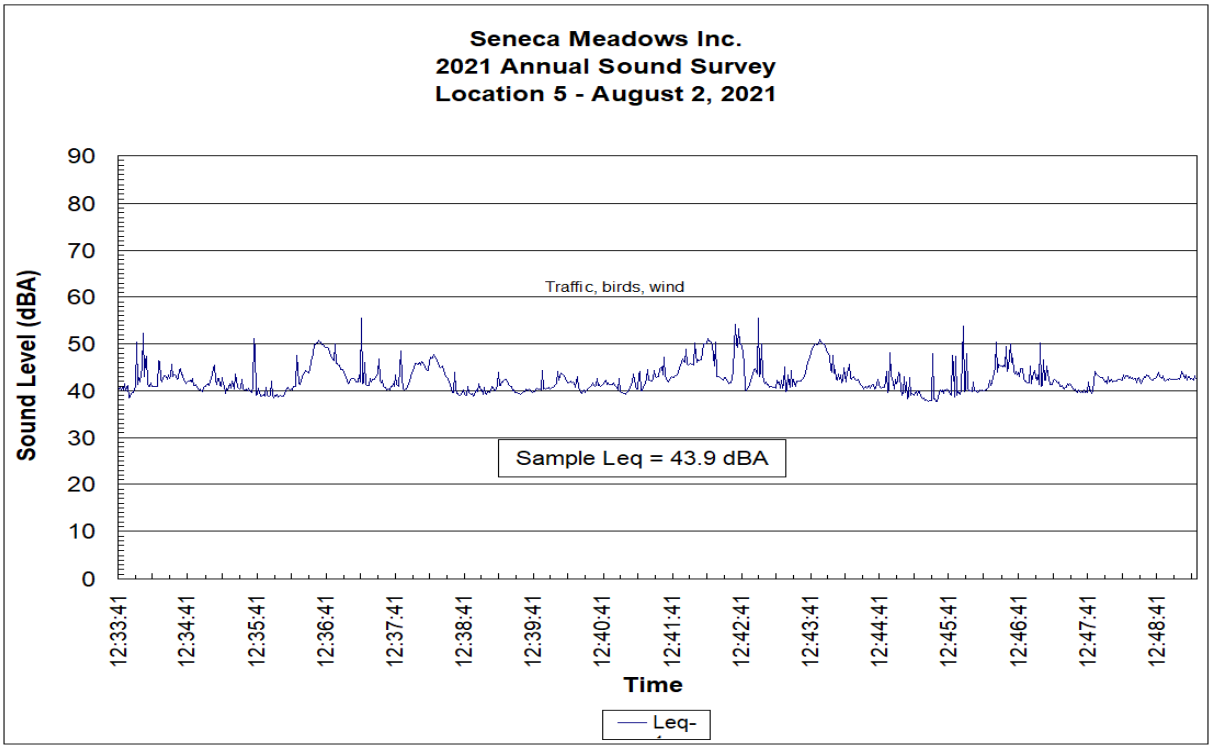
Location 3: Leq = 63. dBA
Traffic on Rt. 414.



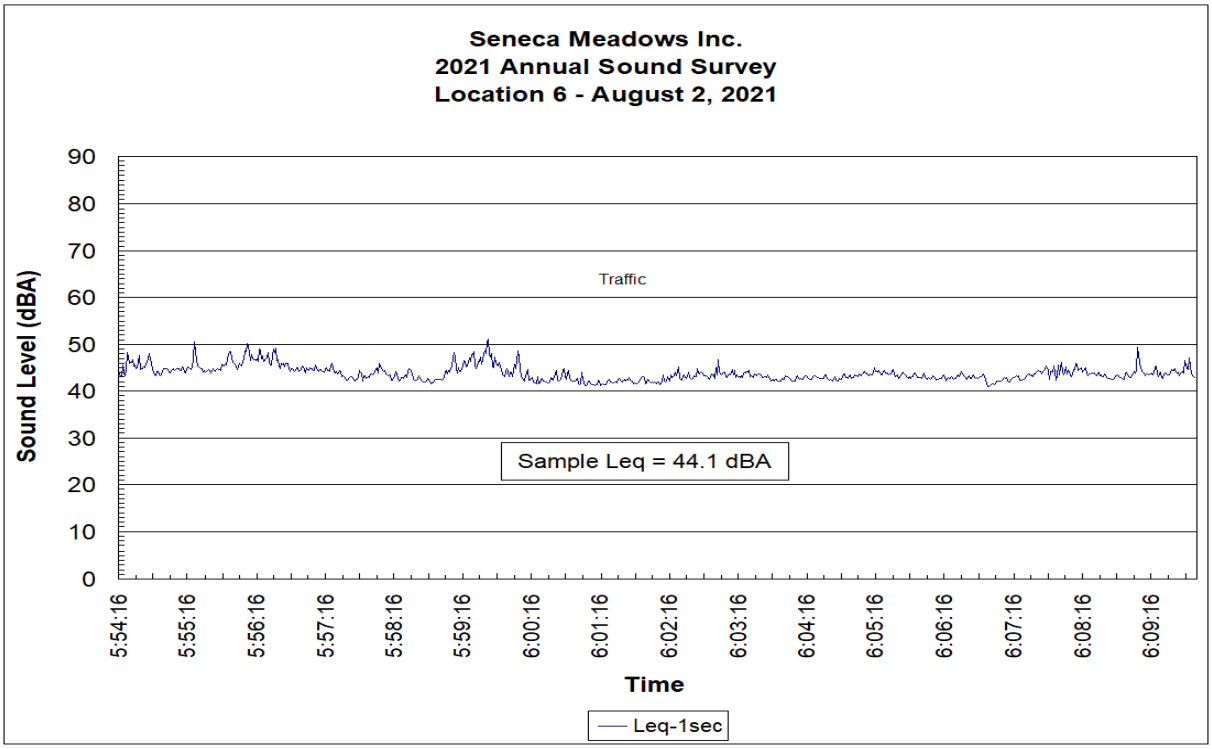
Location 4: Leq = 61.8 dBA
Traffic on Rt. 414.



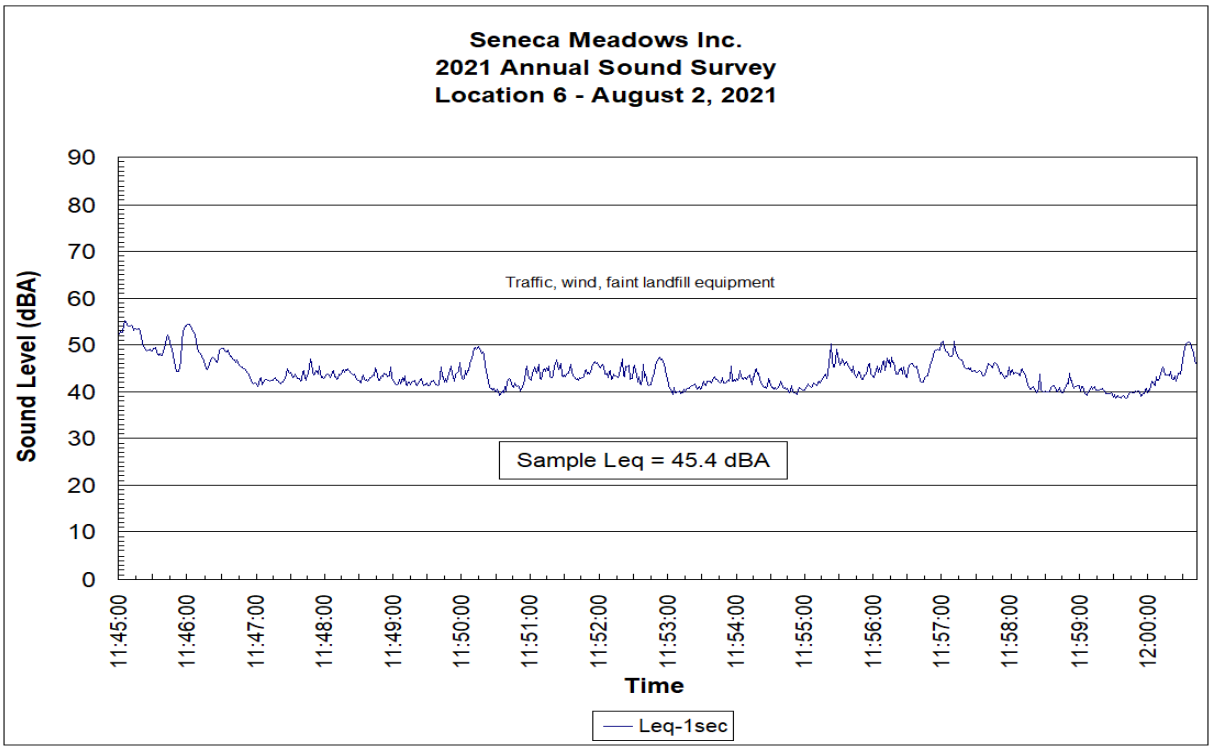
Location 5: Leq = 45.3 dBA
Traffic on Burgess Road and Rt. 414, birds.



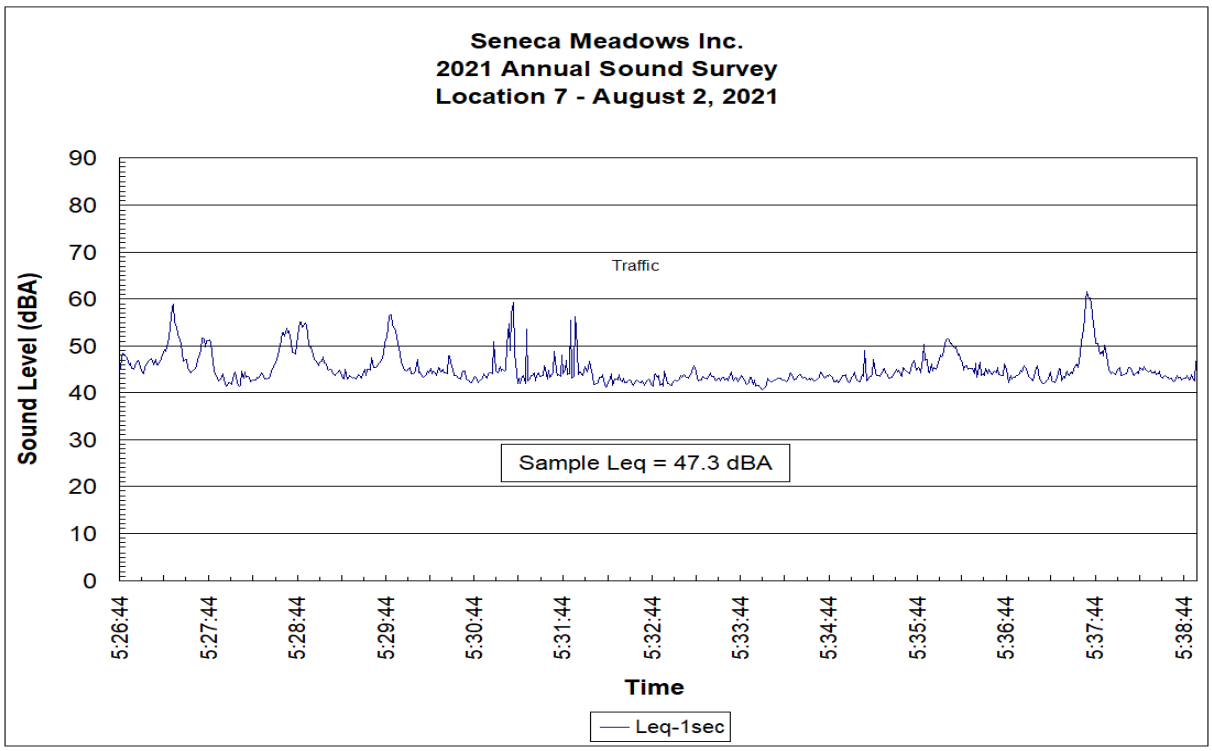
Location 5: Leq = 43.9 dBA
Traffic on Burgess Road and Rt. 414, birds, wind.



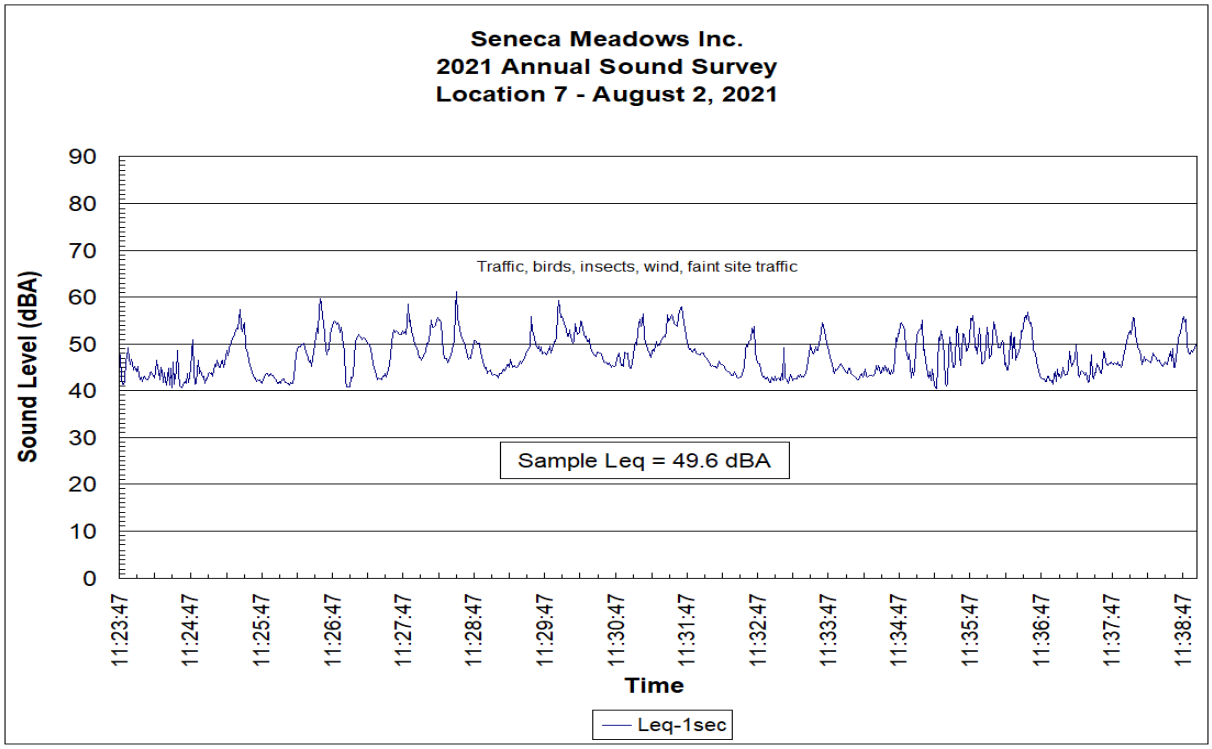
Location 6: Leq = 44.1 dBA
Traffic on Burgess Road.



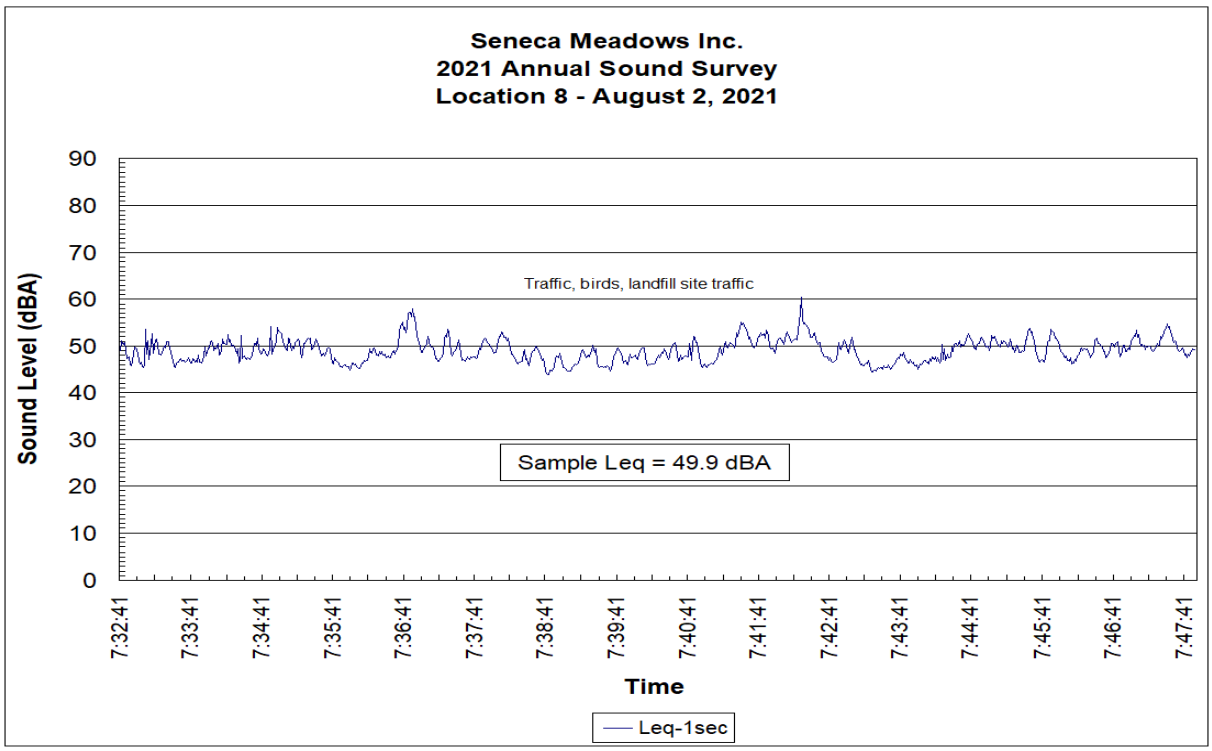
Location 6: Leq = 45.4 dBA
Traffic on Burgess Road, wind, faint landfill waste placement equipment at Cell 5.



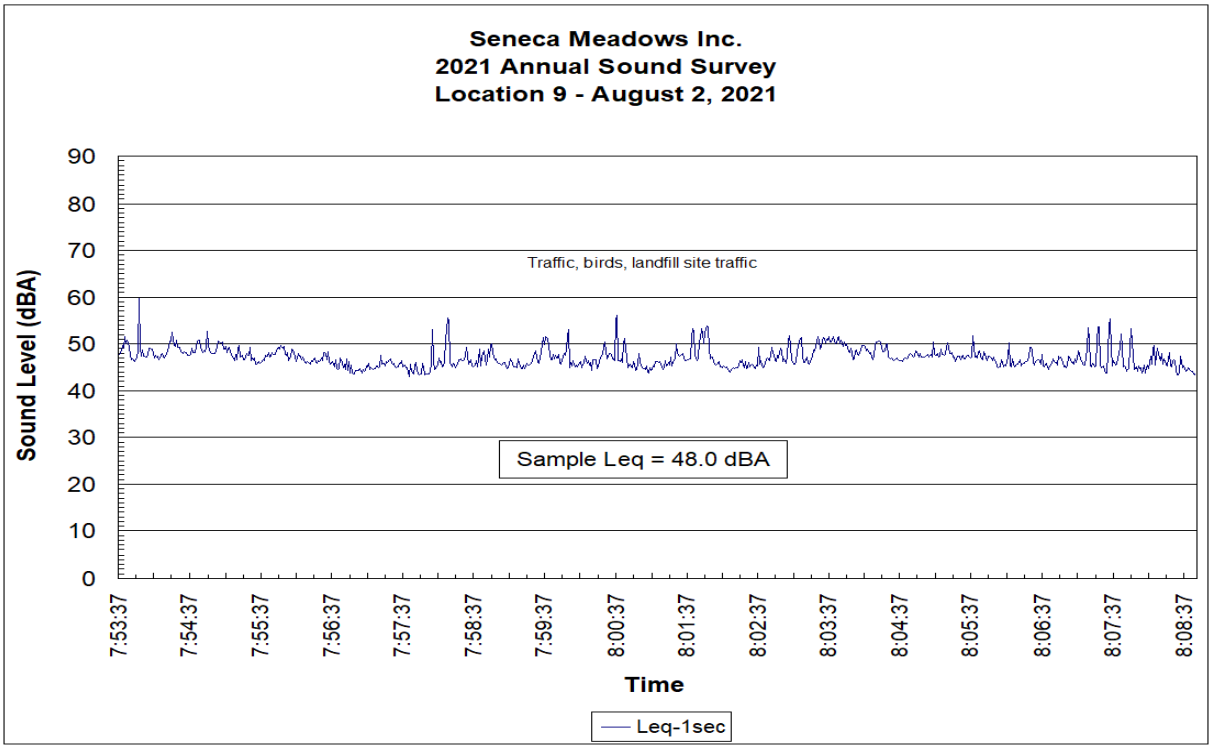
Location 7: Leq =47.3 dBA
Traffic on North and Burgess Roads.



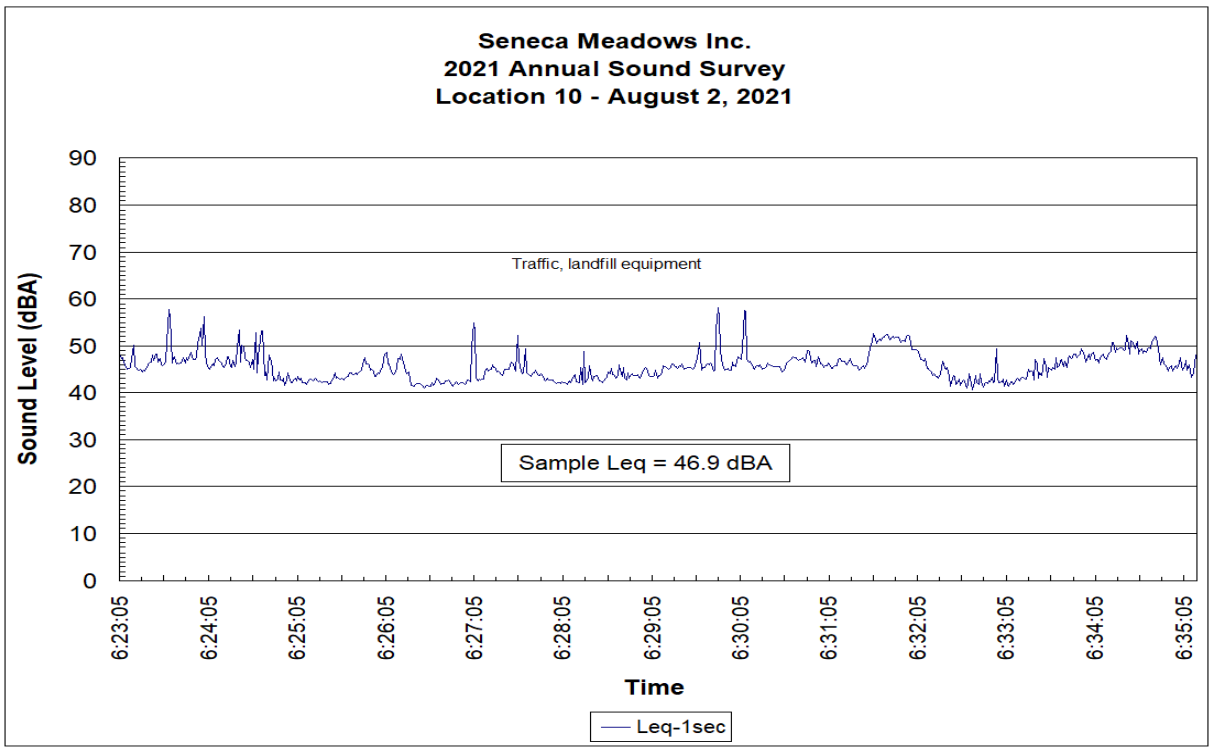
Location 7: Leq = 49.6 dBA
Traffic on North and Burgess Roads, birds, insects, wind, faint landfill site traffic.



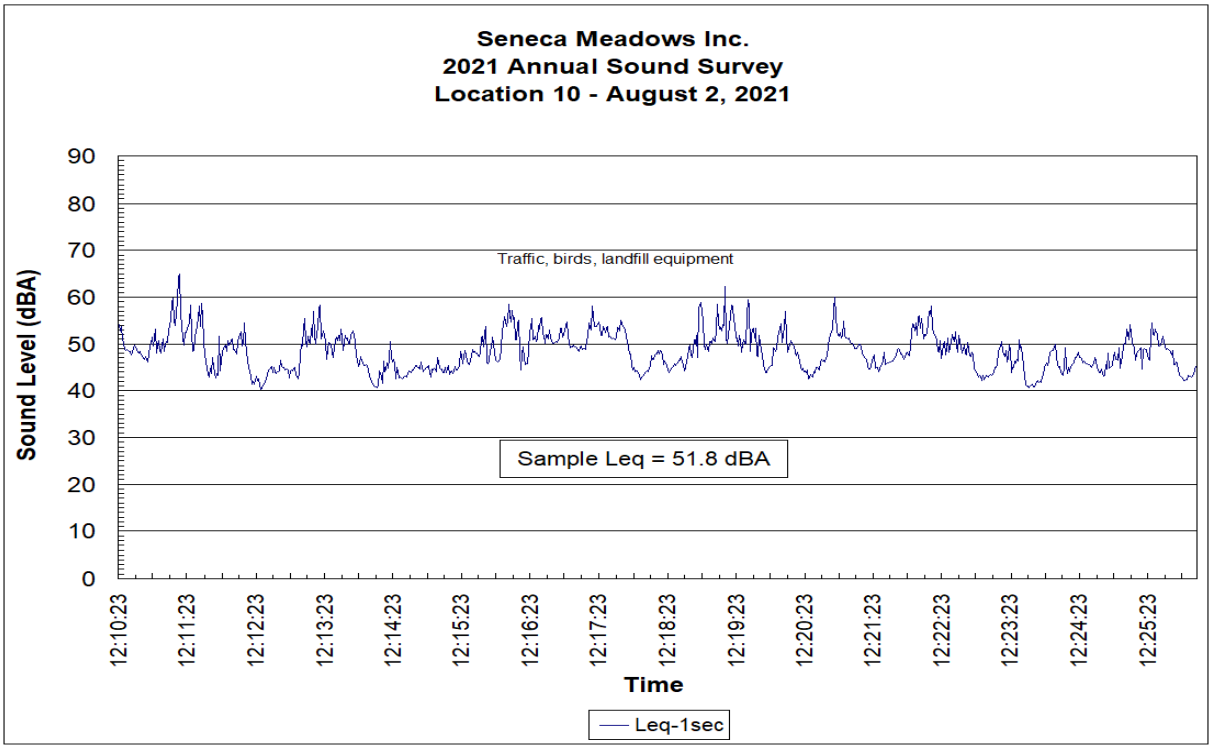
Location 8: Leq =49.9 dBA
Traffic on North Road, birds, landfill site traffic.



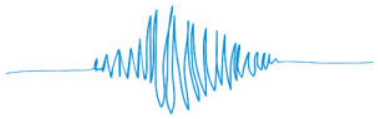
Location 9: Leq = 48.0 dBA
Traffic on North Road, birds, landfill site traffic.



Location 10: Leq = 46.9 dBA
Traffic on North Road, landfill waste placement equipment at Cell 5.



Location 10: Leq = 51.8 dBA
Traffic on North Road, birds, landfill waste placement equipment at Cell 5.



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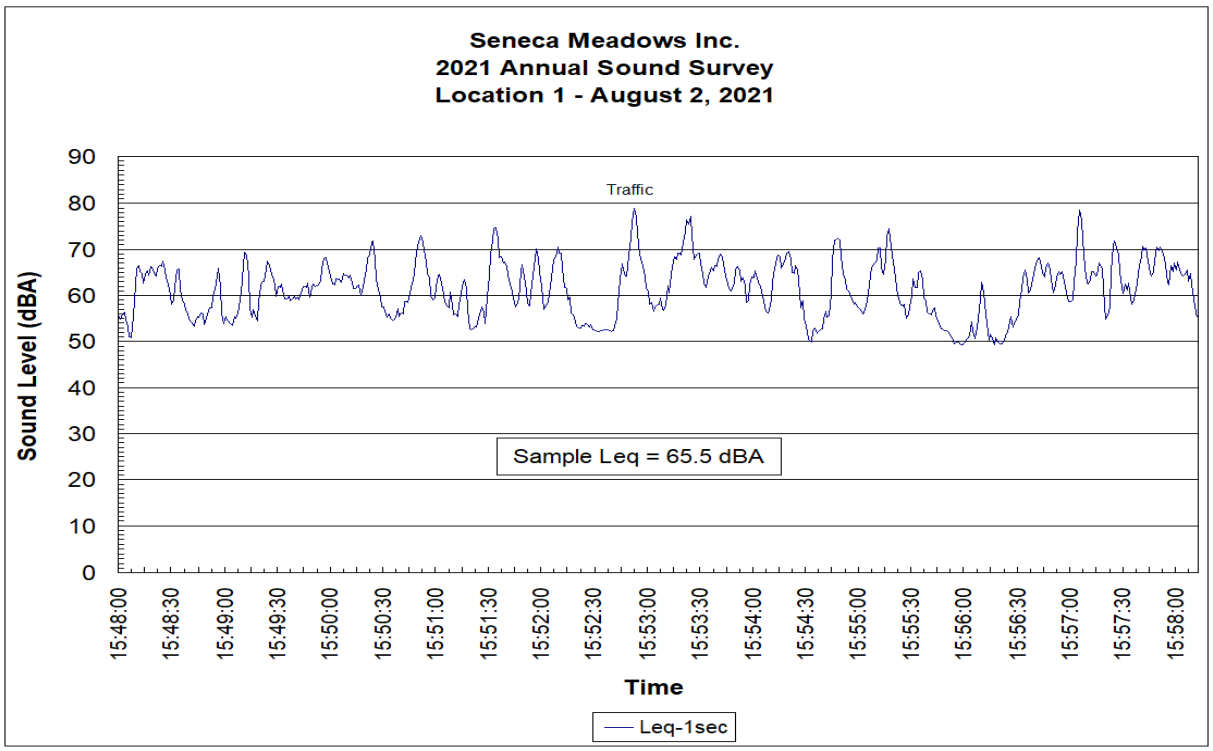
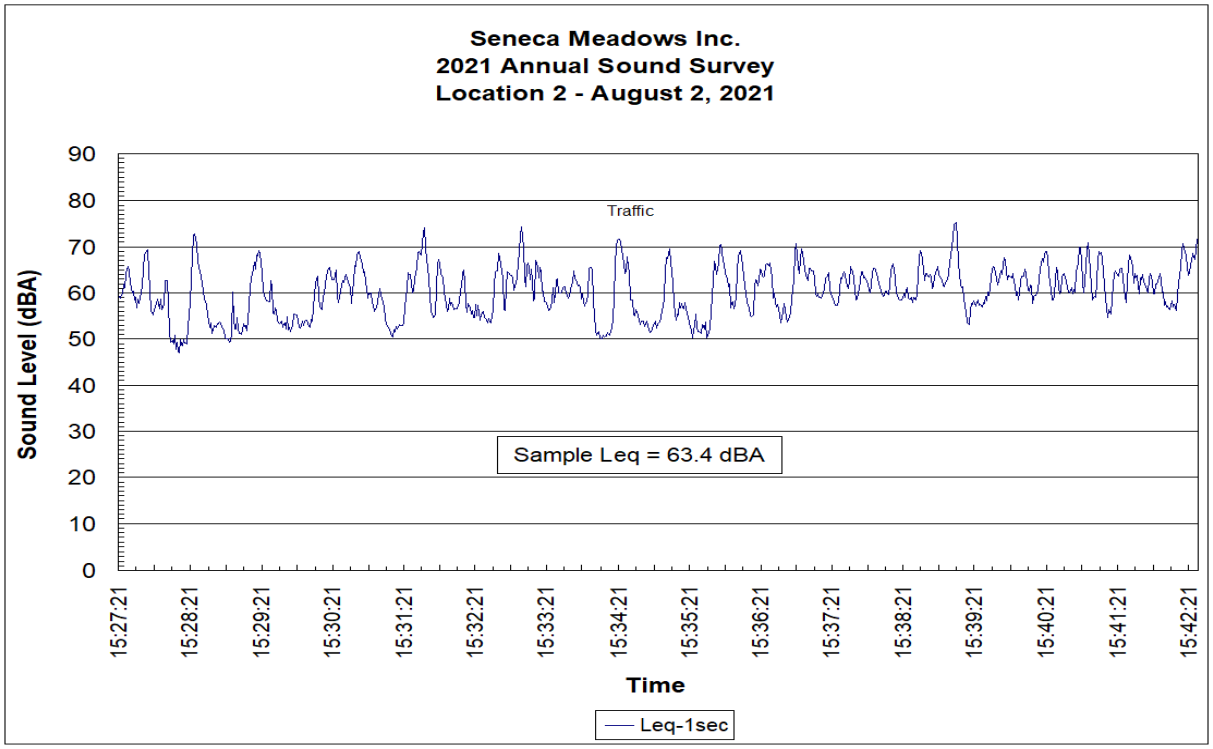
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Sampling Sound Surveys

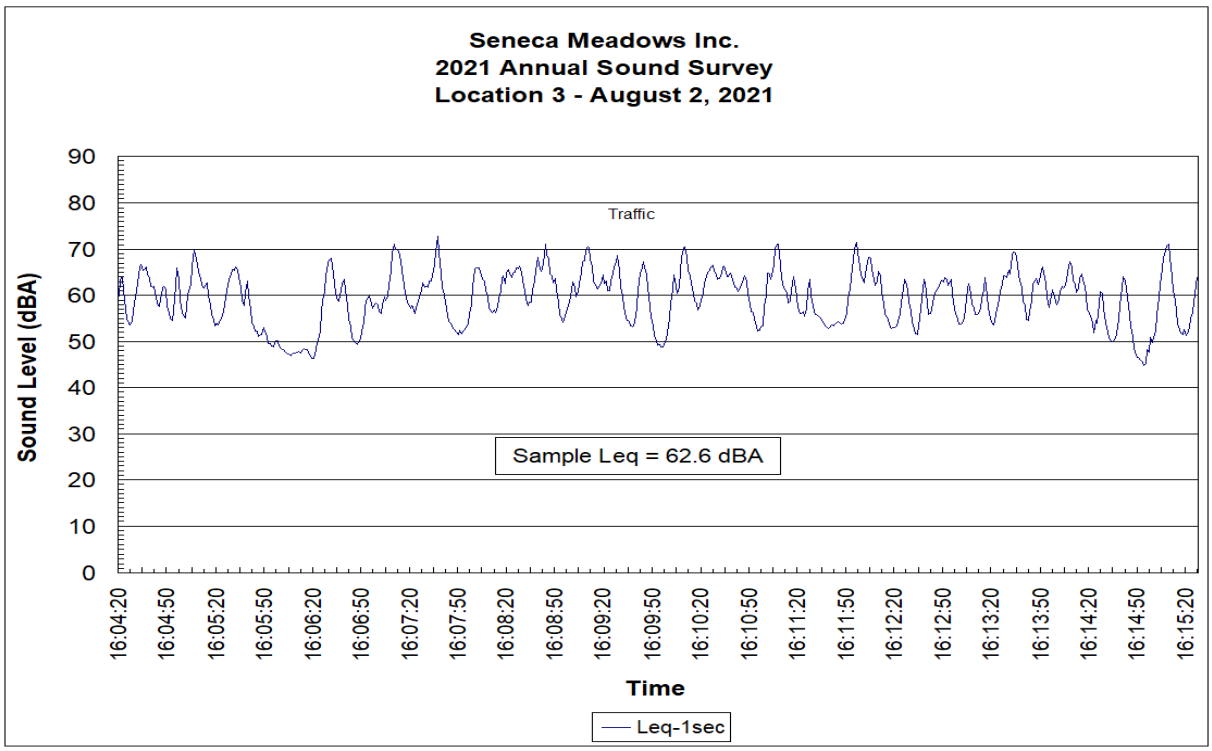
August 2, 2021
Afternoon Period



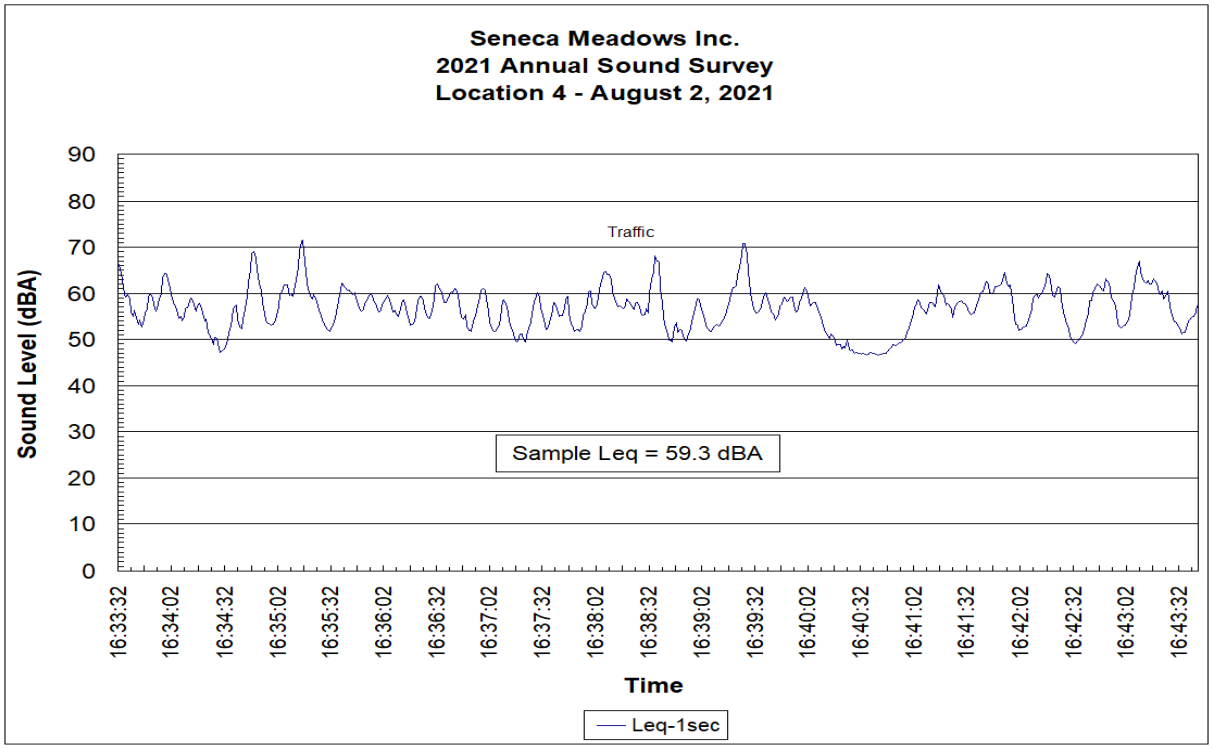
Location 1: Leq = 65.5 dBA
Traffic on Rt. 414.



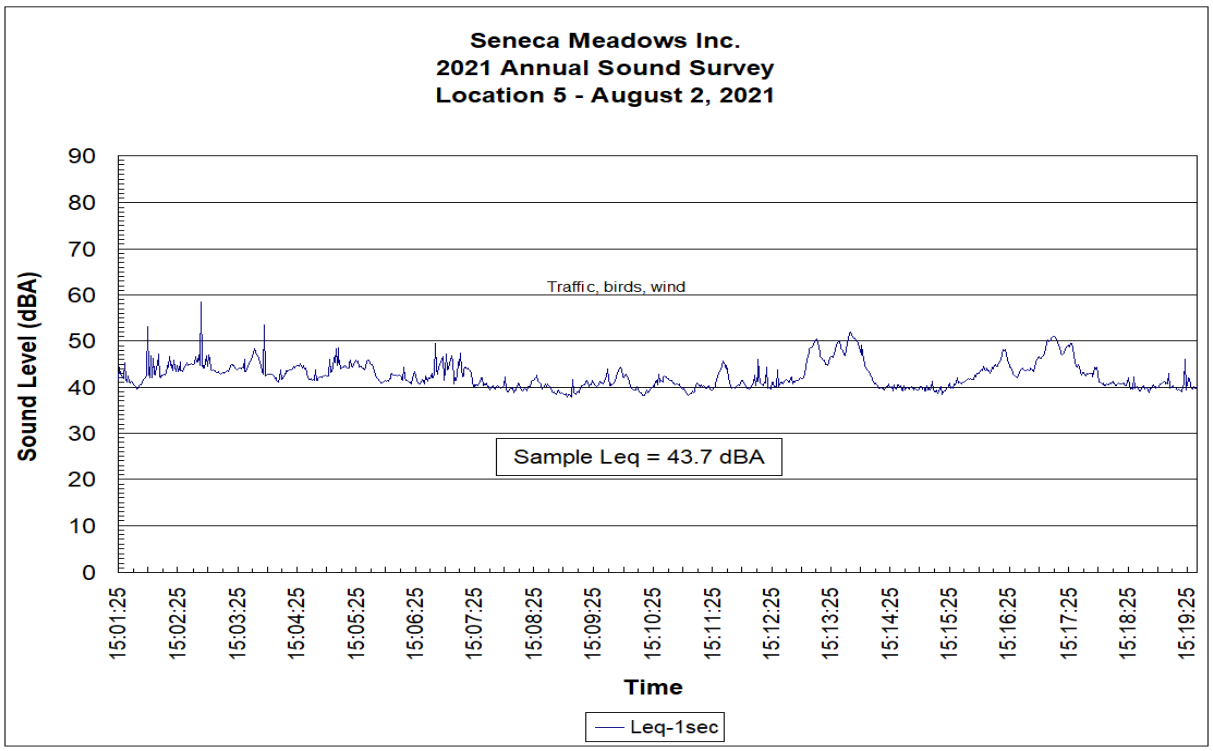
Location 2: Leq = 63.4 dBA
Traffic on Rt. 414.



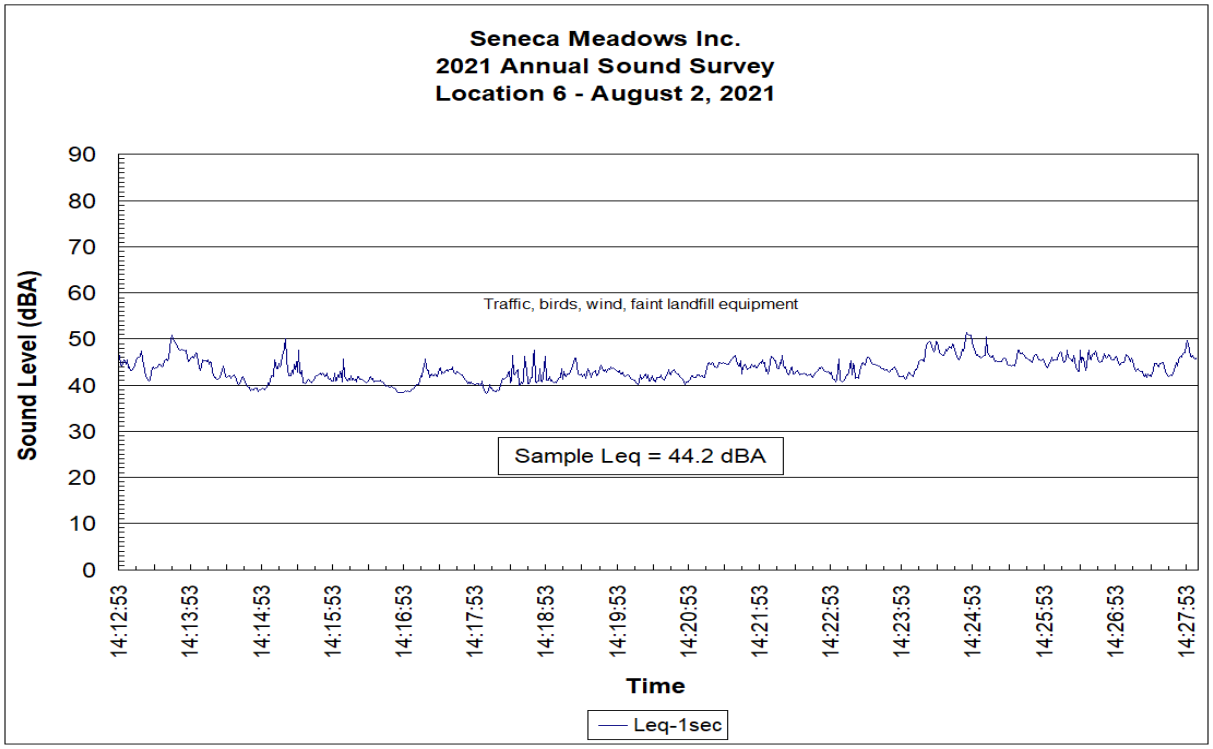
Location 3: Leq = 62.6 dBA
Traffic on Rt. 414.



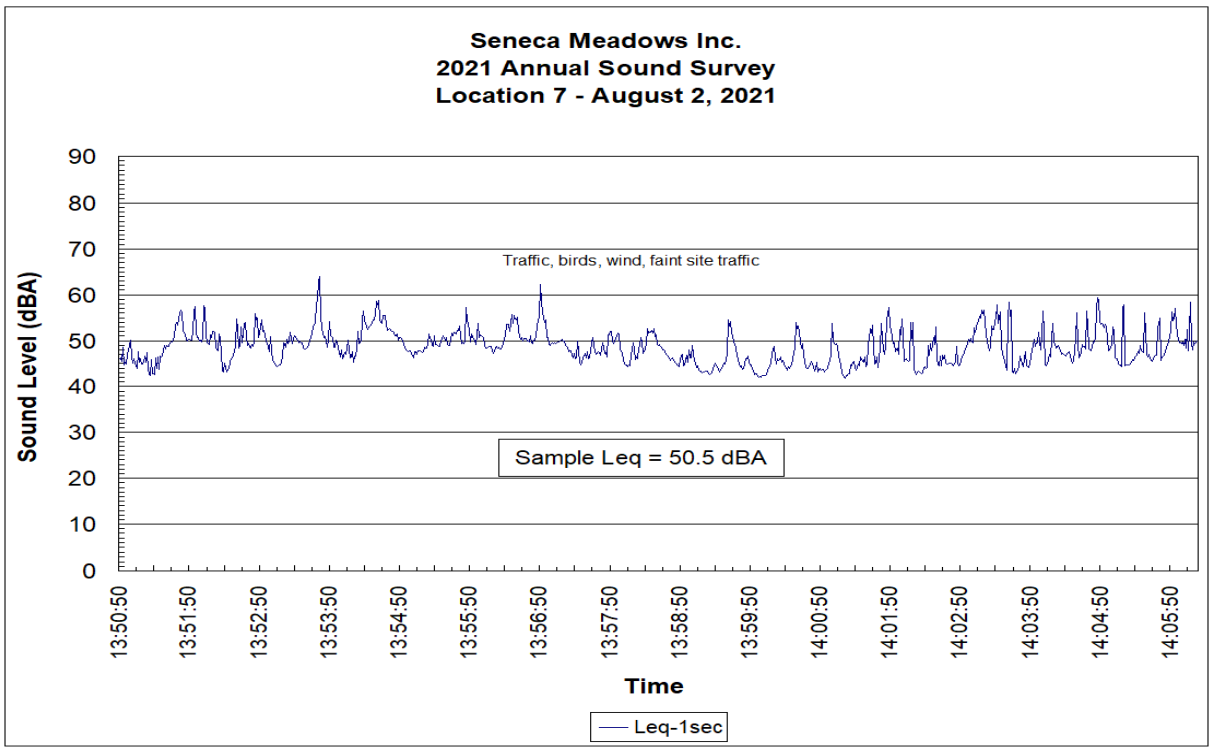
Location 4: Leq = 59.3 dBA
Traffic on Rt. 414.



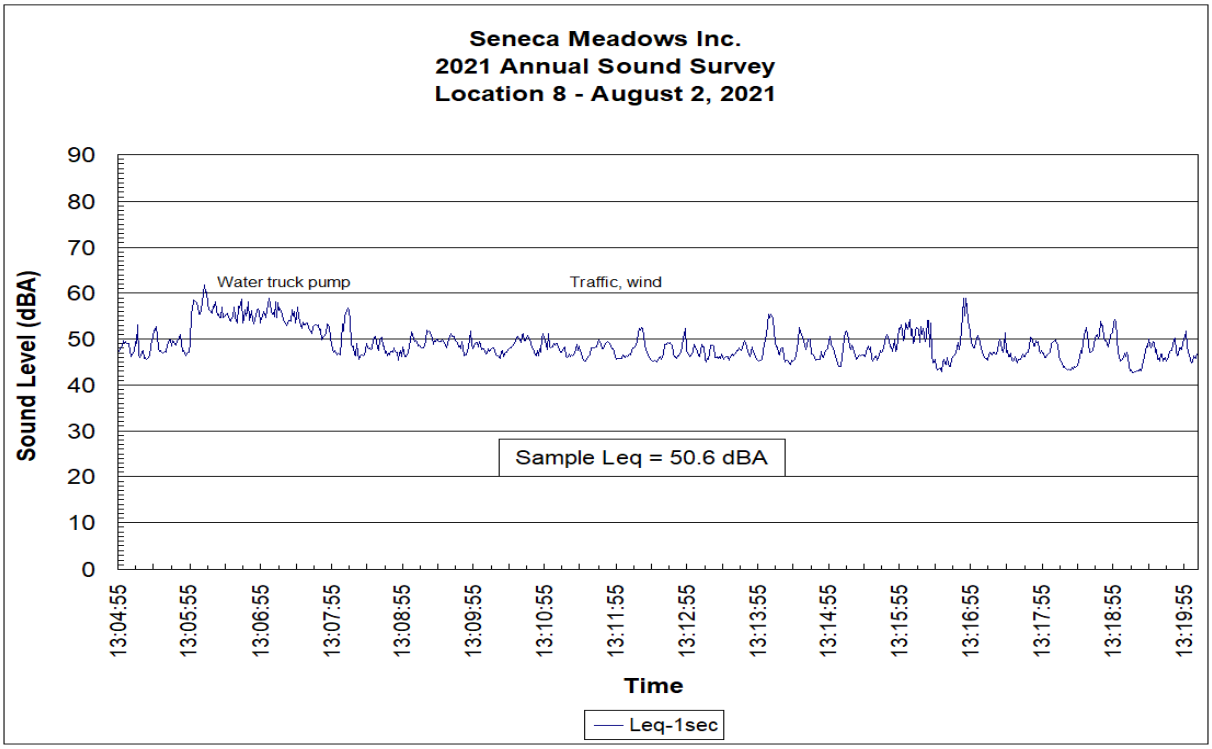
Location 5: Leq = 43.7 dBA
Traffic on Burgess Road and Rt. 414, birds, wind.



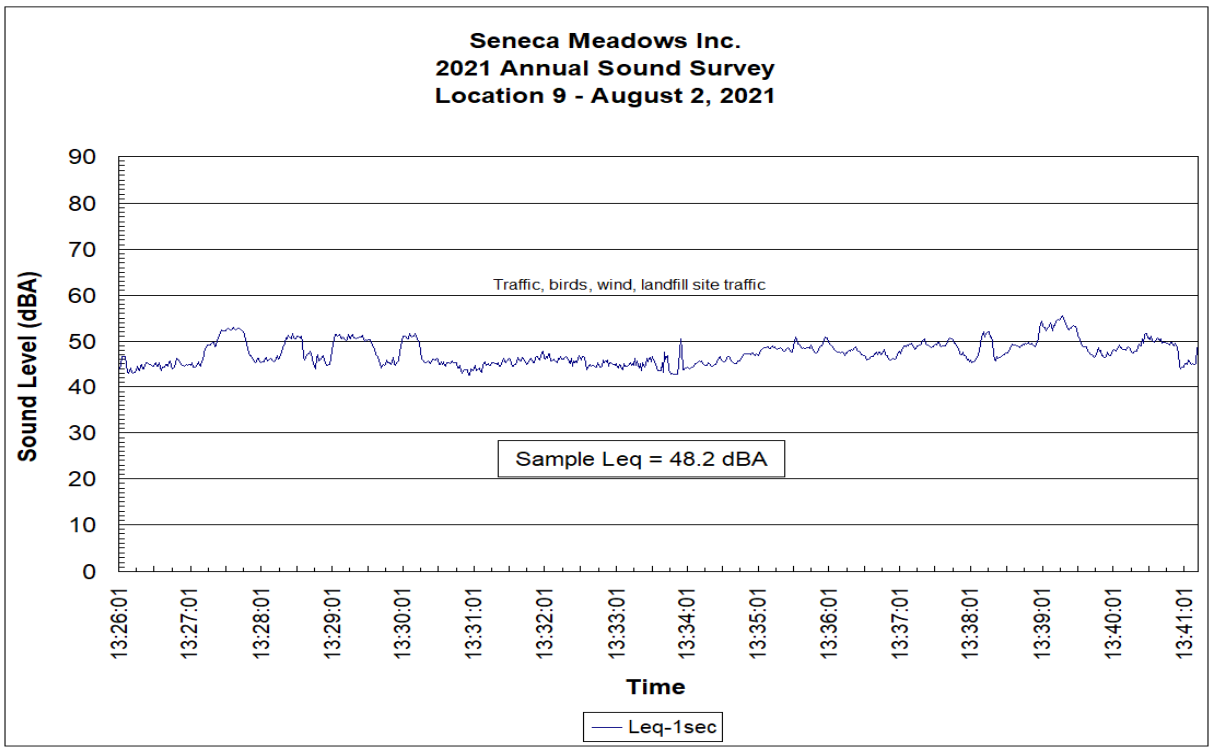
Location 6: Leq = 43.3 dBA
Traffic on Burgess Road, birds, wind, faint waste placement equipment.



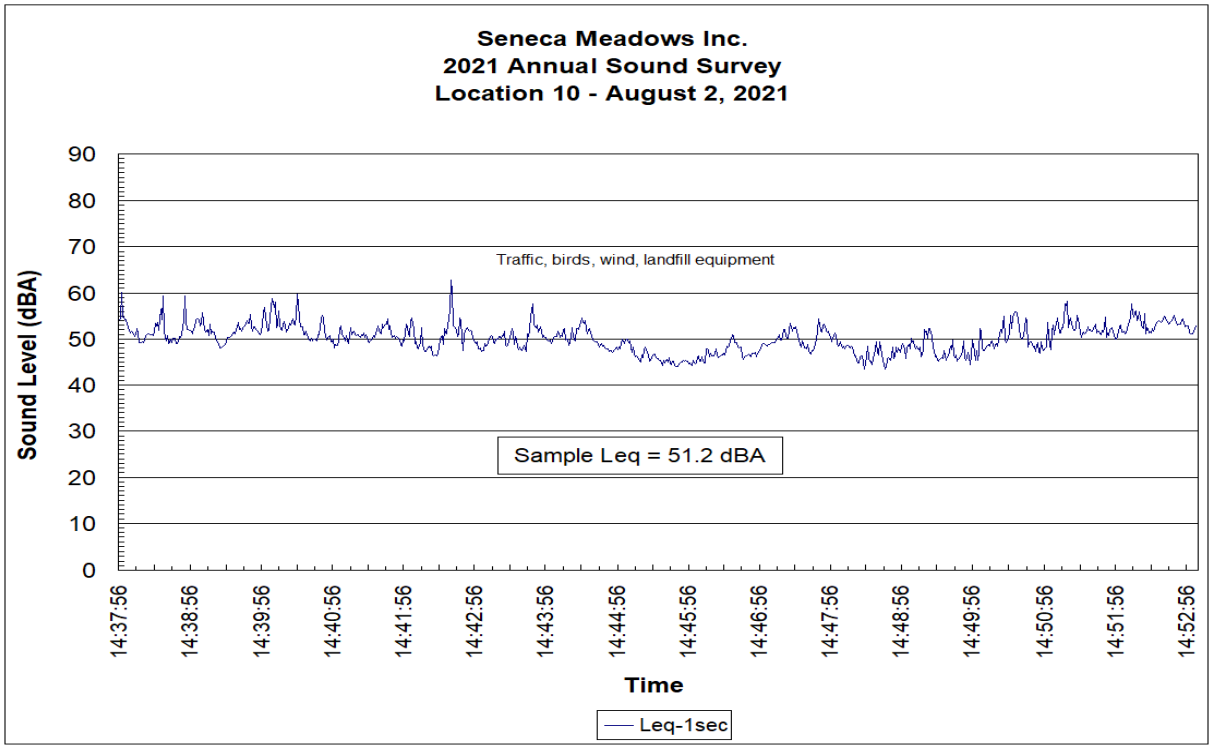
Location 7: Leq = 50.5 dBA
Traffic on North and Burgess Roads, birds, wind, faint landfill site traffic.



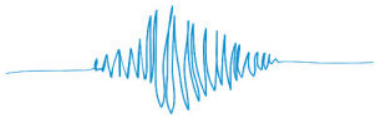
Location 8: Leq = 50.6 dBA
Traffic on North Road, wind, water pump at south retention pond filling water truck.



Location 9: Leq = 48.2 dBA
Traffic on North Road, birds, wind, landfill site traffic.



Location 10: Leq = 51.2 dBA
Traffic on Burgess Road, birds, landfill waste placement equipment at Cell 5.



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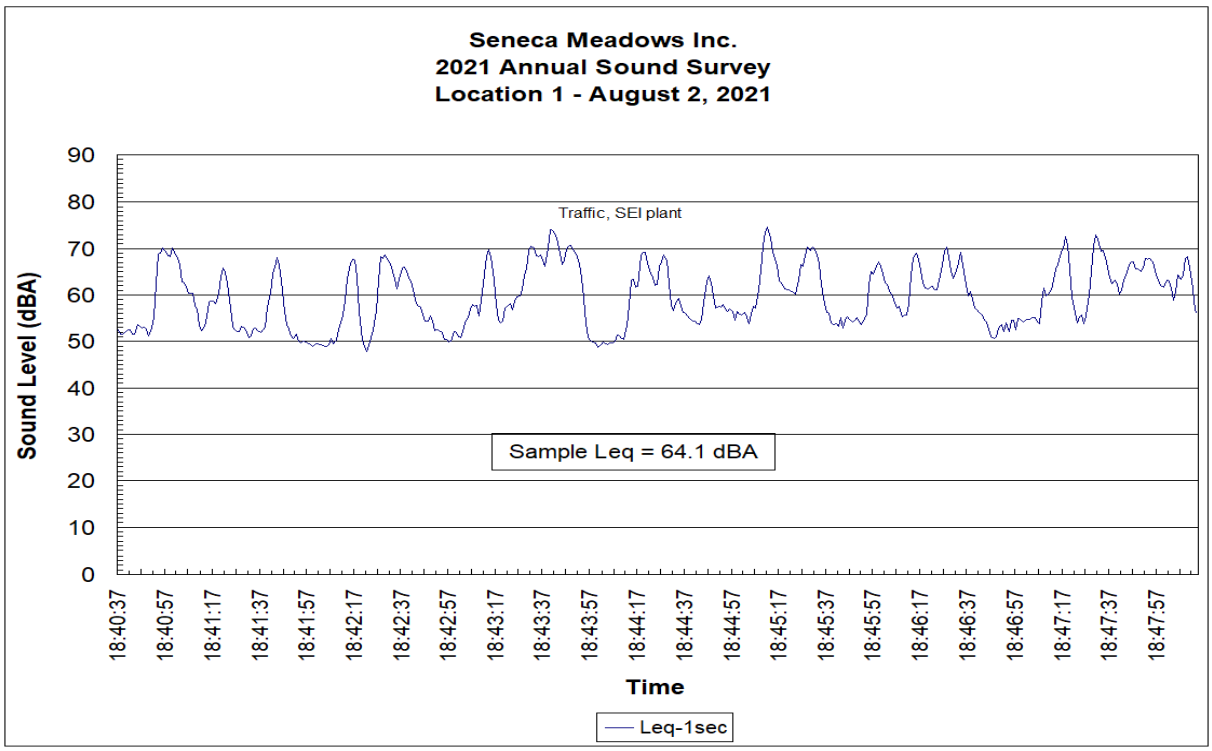
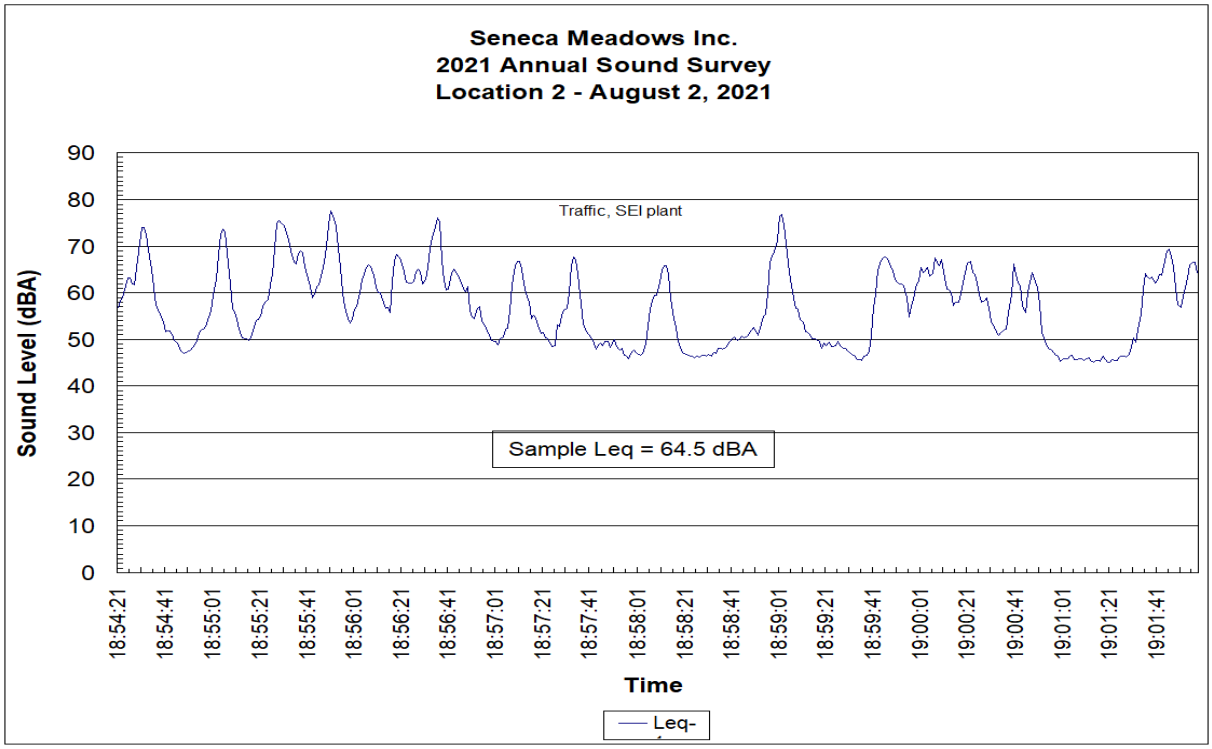
Sampling Sound Surveys

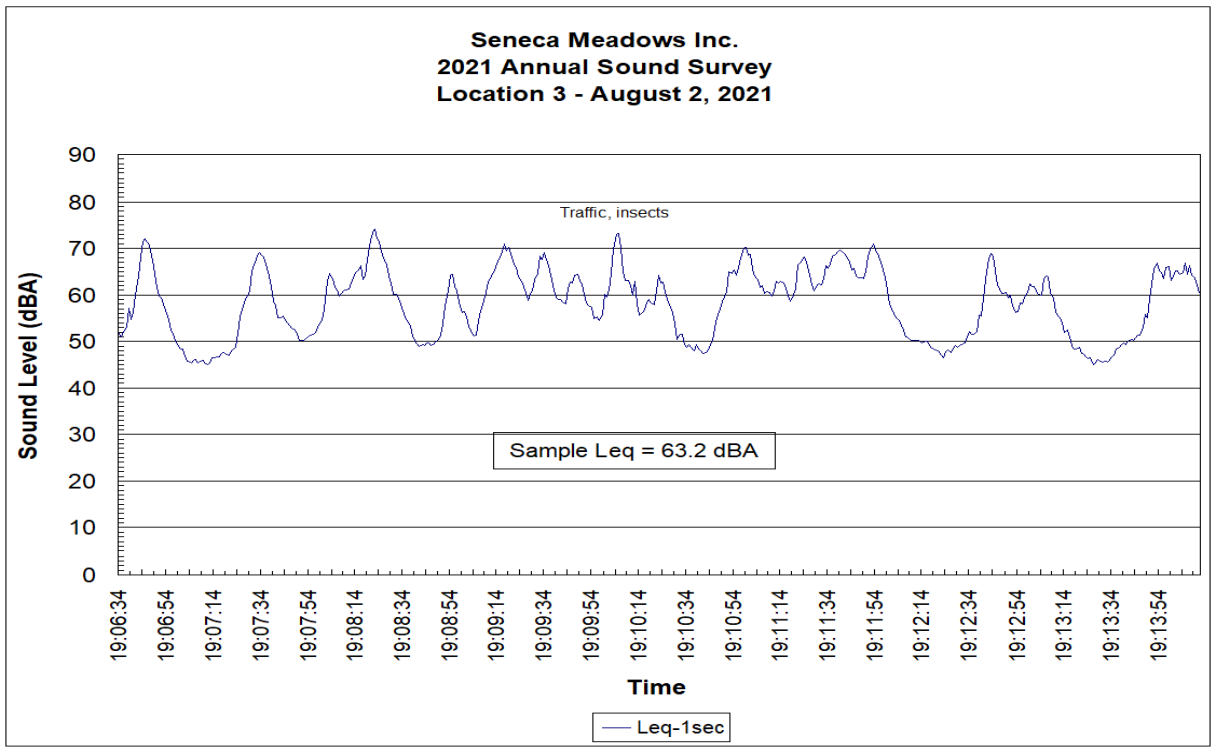
August 2, 2021
Afternoon to Evening Period



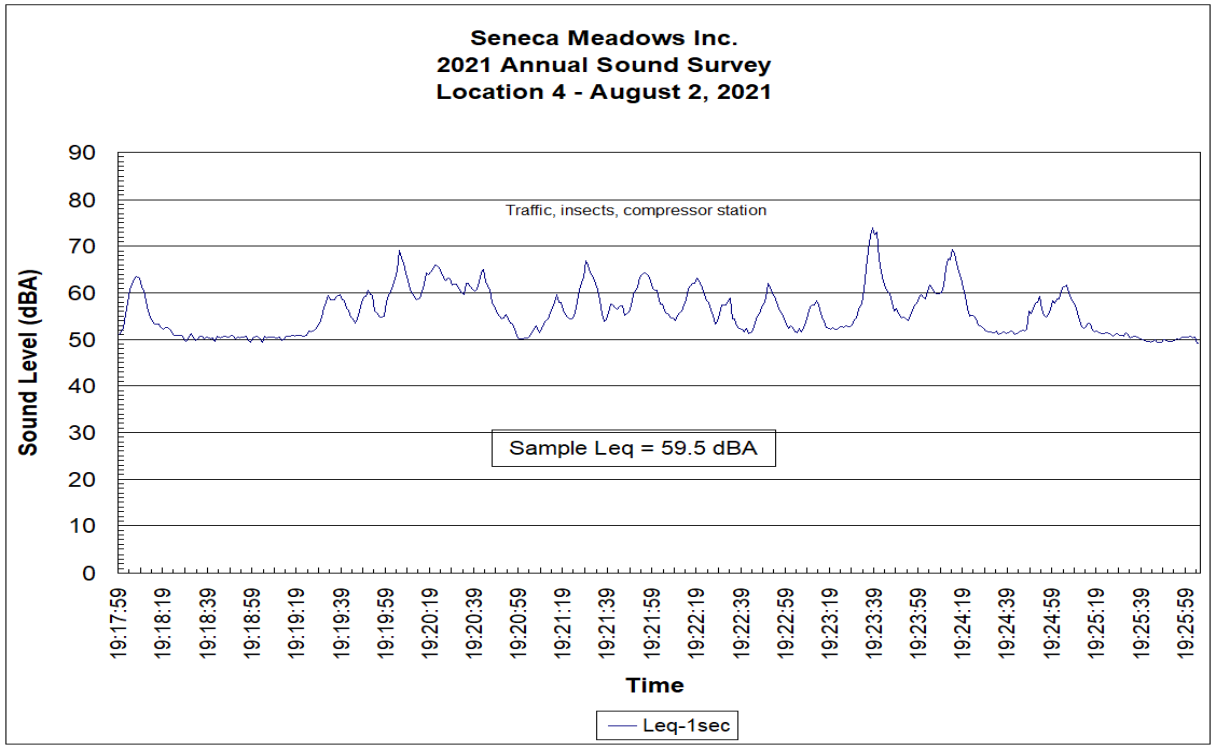
Location 1: Leq = 64.1 dBA
Traffic on Rt. 414, SEI plant.



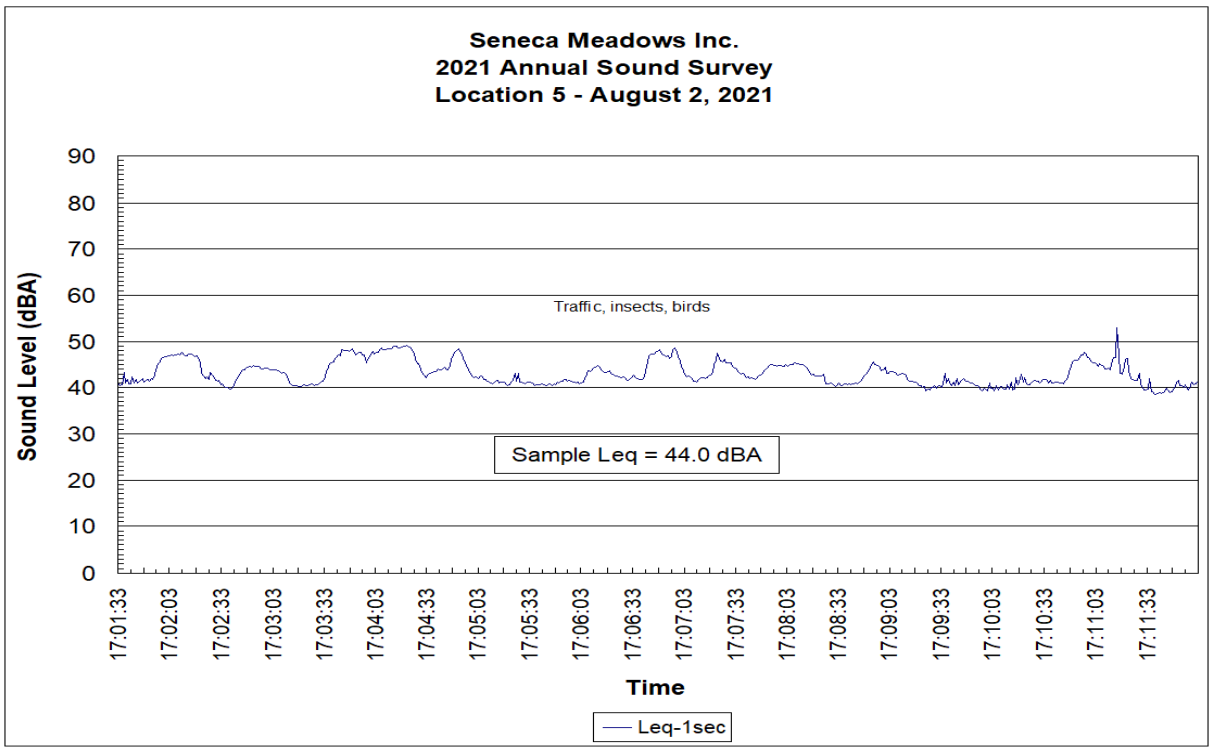
Location 2: Leq = 64.5 dBA
Traffic on Rt. 414, SEI plant.



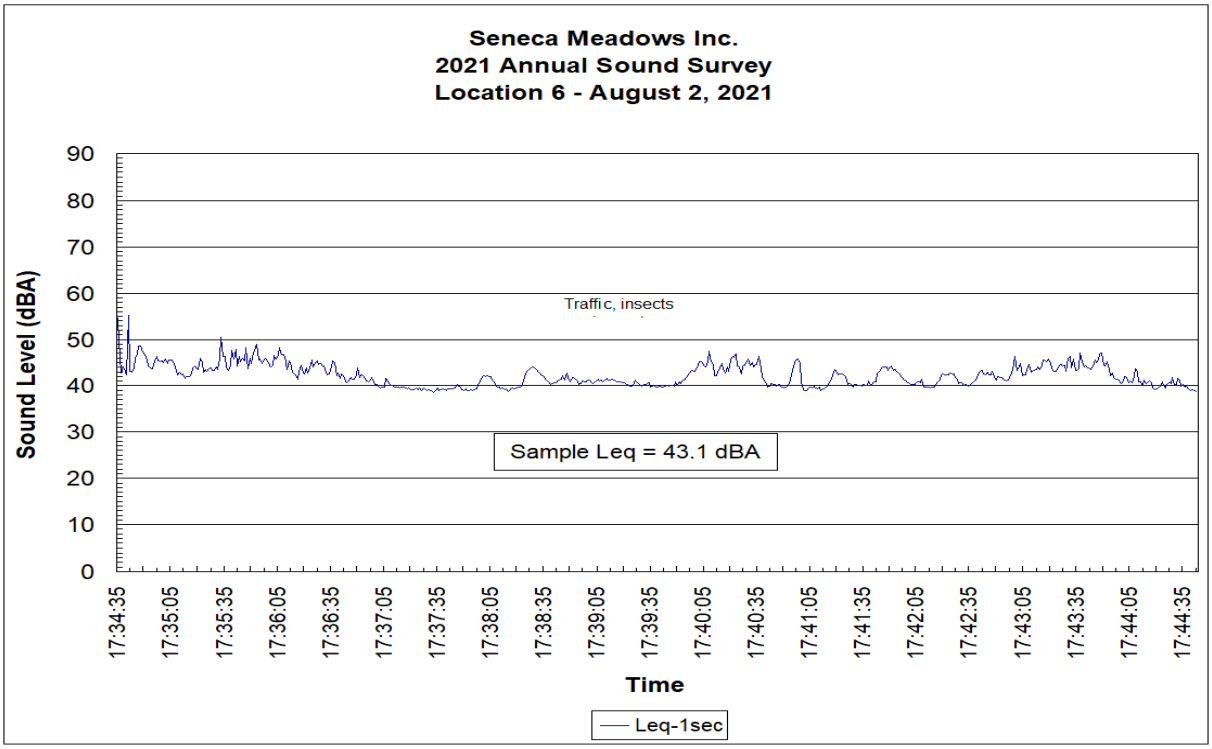
Location 3: Leq = 63.2 dBA
Traffic on Rt. 414, insects.



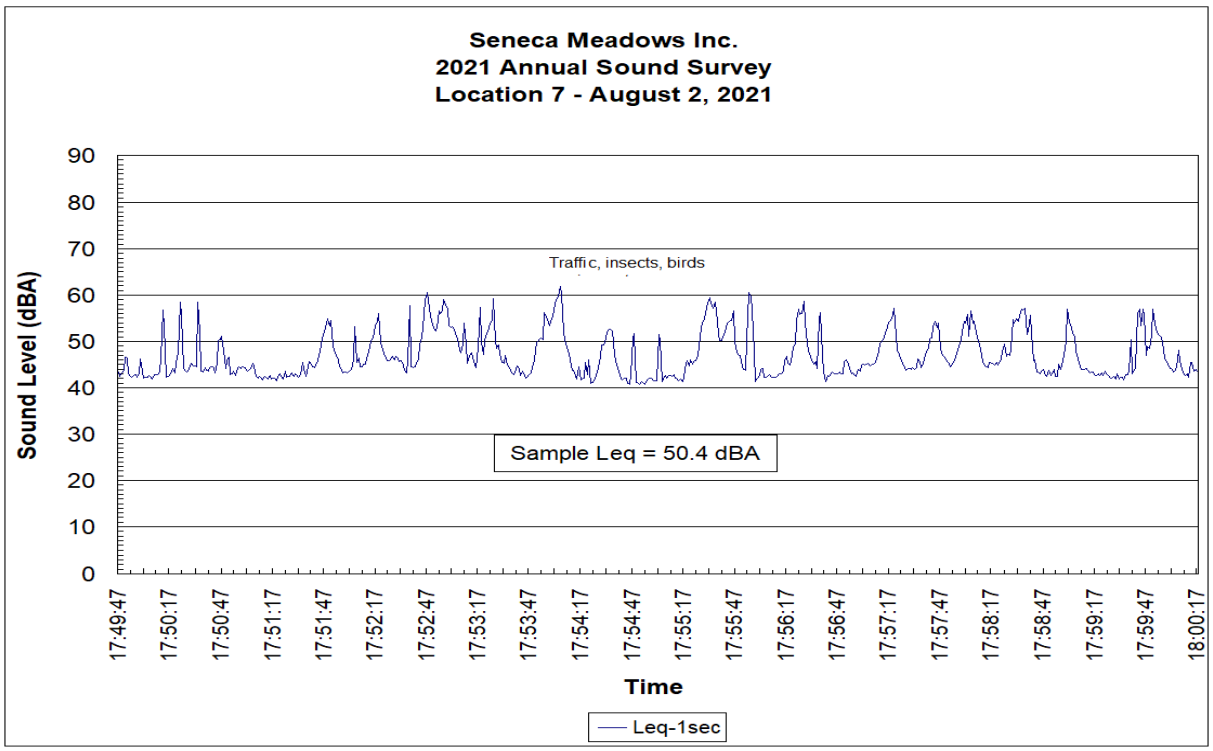
Location 4: Leq = 59.5 dBA
Traffic on Rt. 414, insects, gas compressor station.



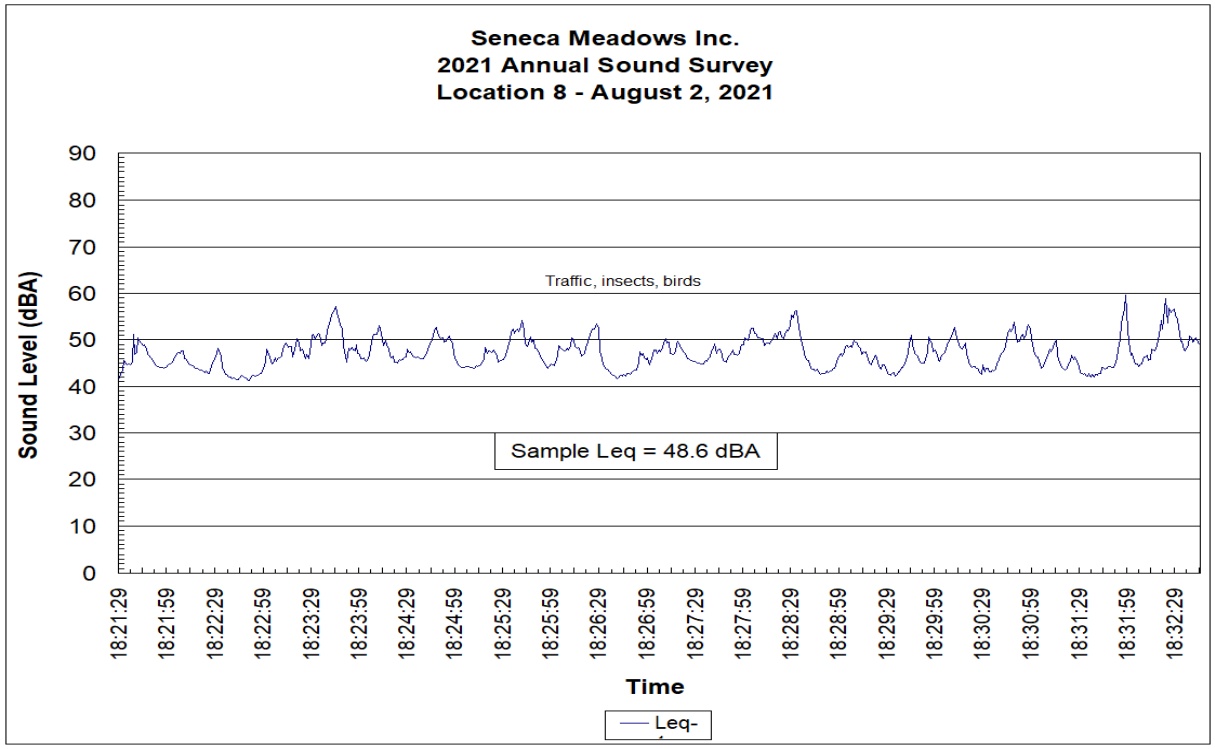
Location 5: Leq = 44.0 dBA
Traffic on Burgess Road and Rt. 414, insects, birds.



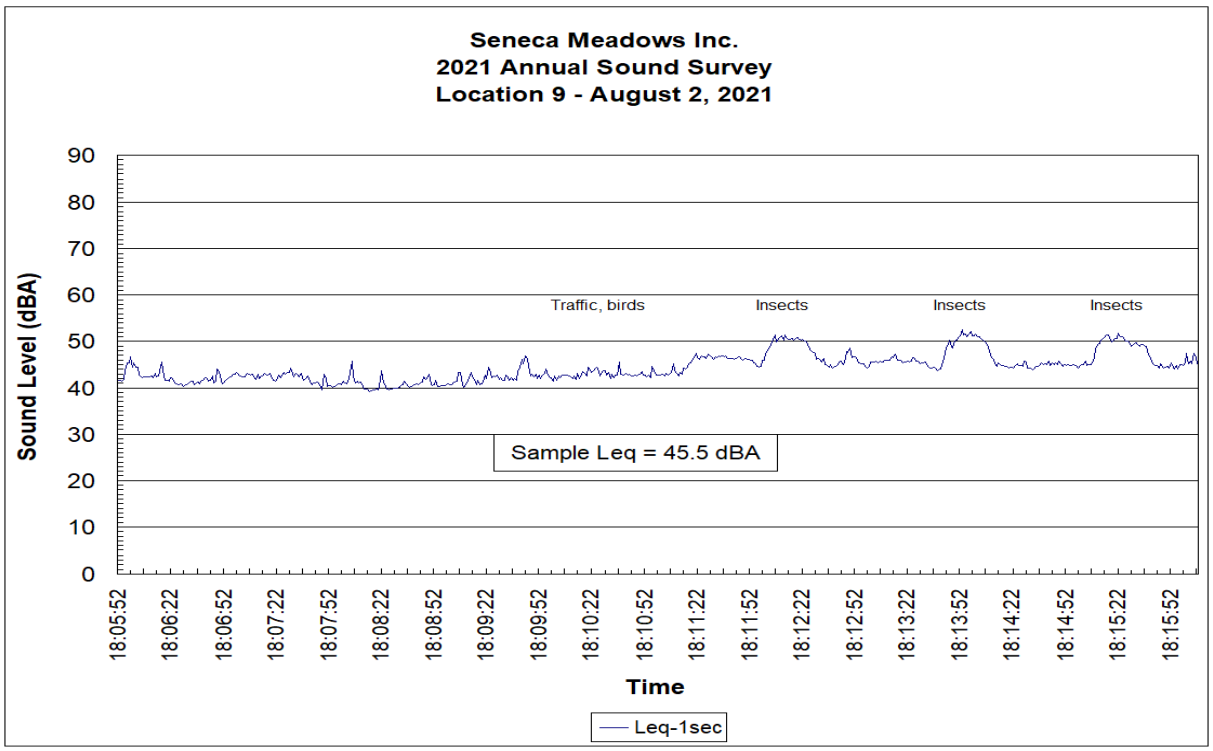
Location 6: Leq = 43.1 dBA
Traffic on Burgess Road, insects.



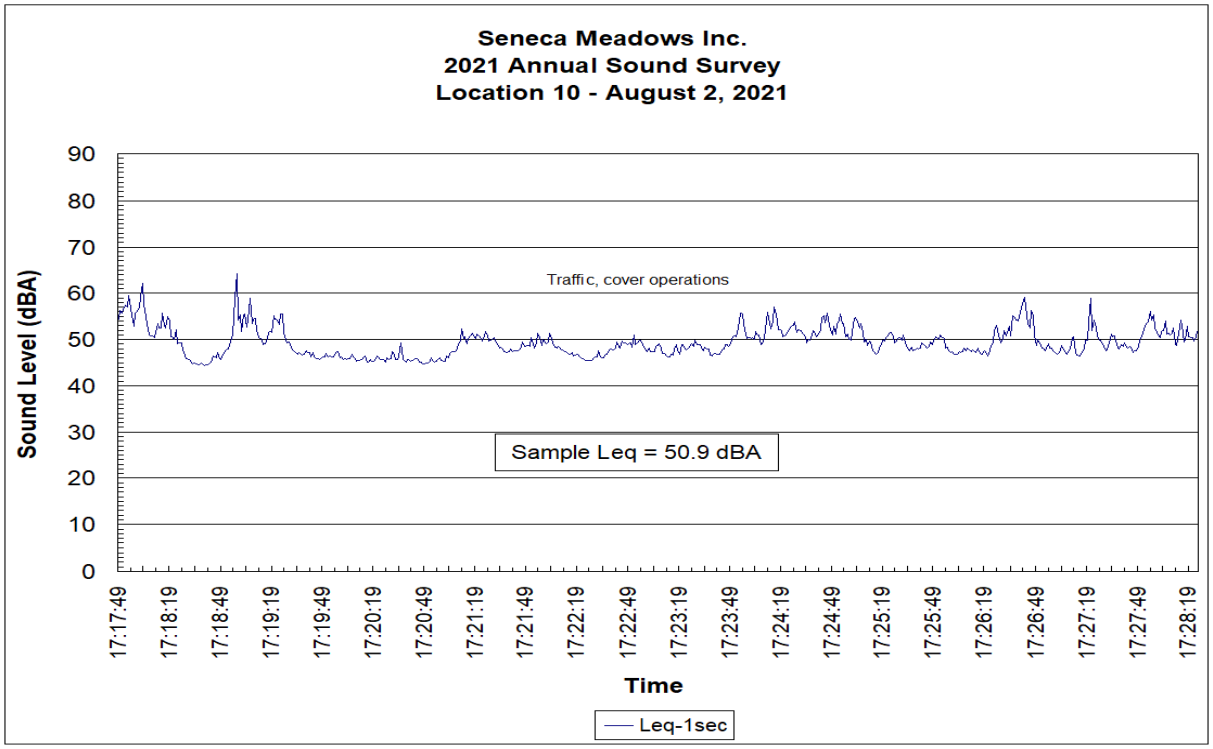
Location 7: Leq = 46.4 dBA
Birds, traffic on North and Burgess Roads, materials loading.



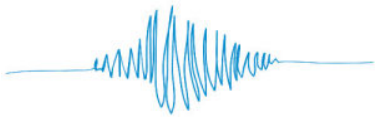
Location 8: Leq = 48.6 dBA
Traffic on North Road, insects, birds.



Location 9: Leq = 45.5 dBA
Traffic on North Road, birds, insects.



Location 10: Leq = 50.9 dBA
Traffic on Burgess Road, landfill cover operations at Cell 5.



AURORA ACOUSTICAL CONSULTANTS Inc.

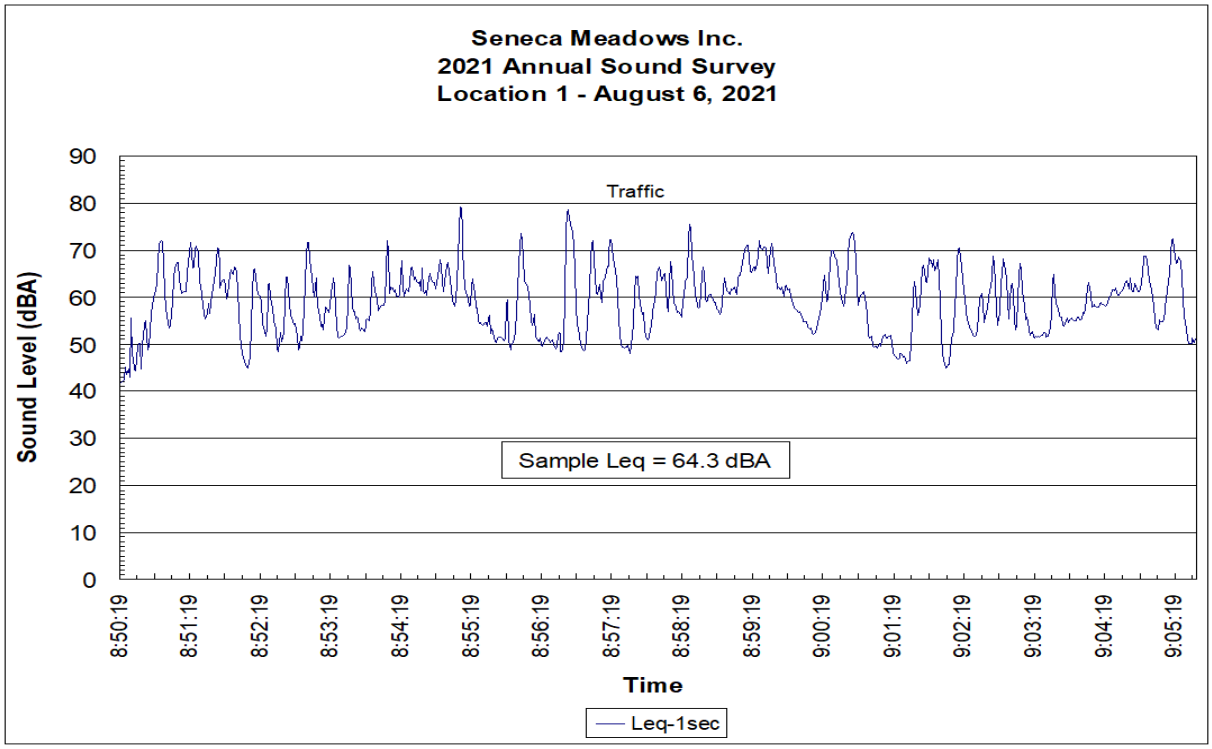
745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Appendix D

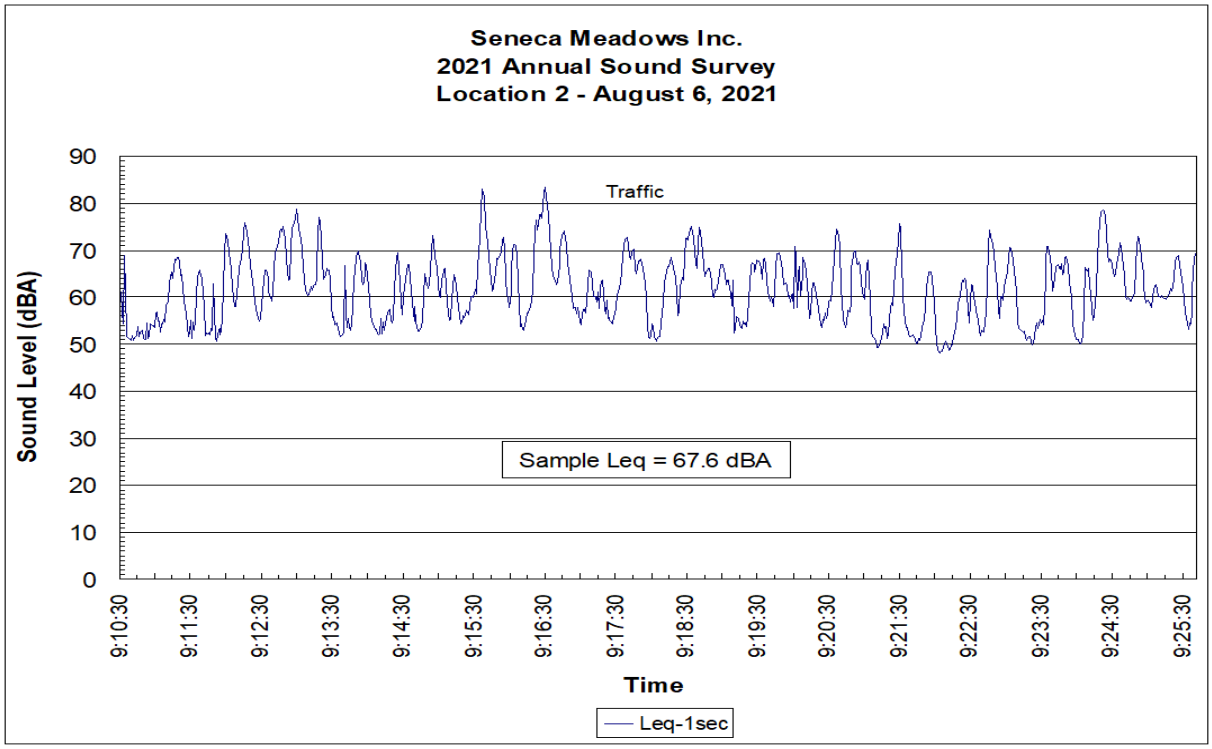
Sampling Sound Surveys

August 6, 2021

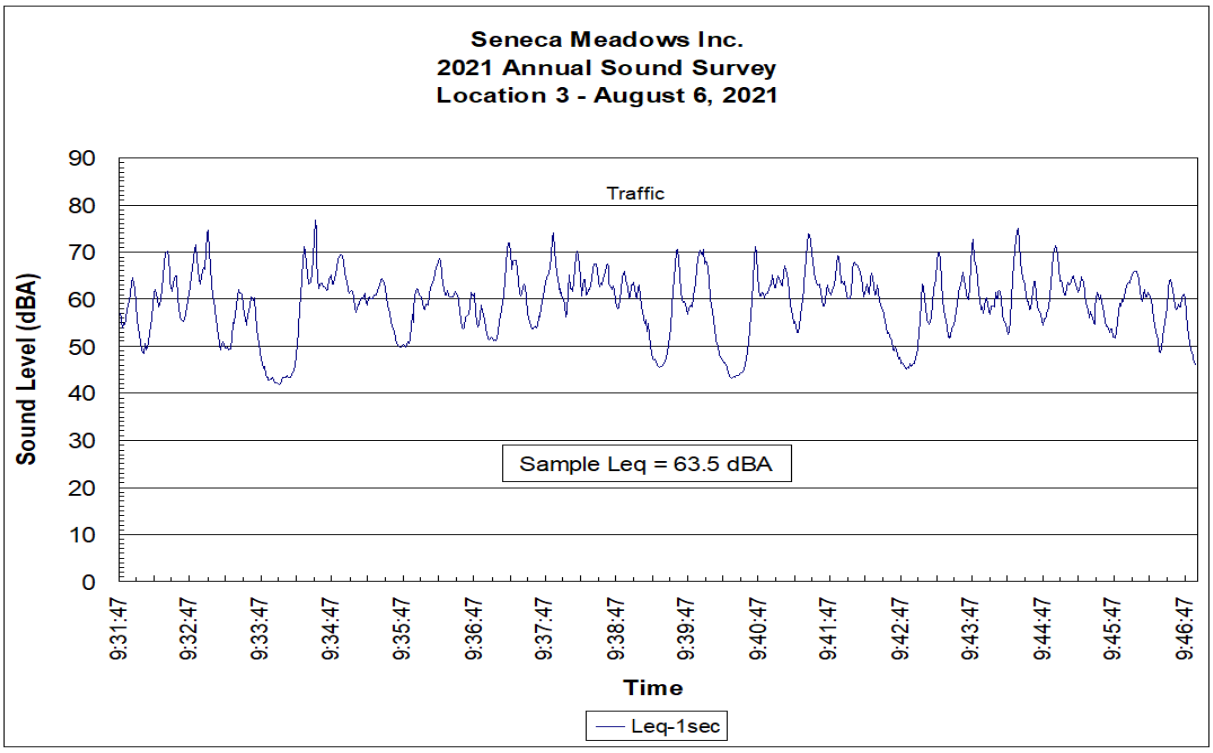
Morning Period



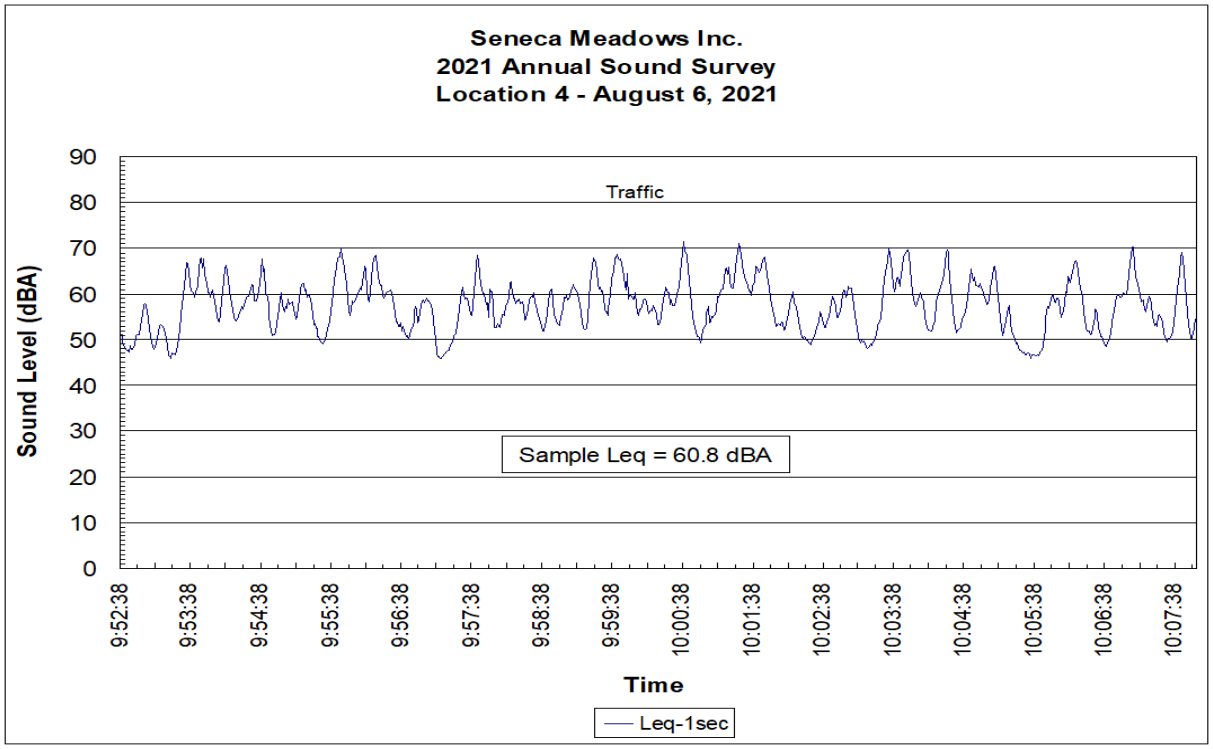
Location 1: Leq = 64.3 dBA
Traffic on Rt. 414. SEI plant audible between traffic.



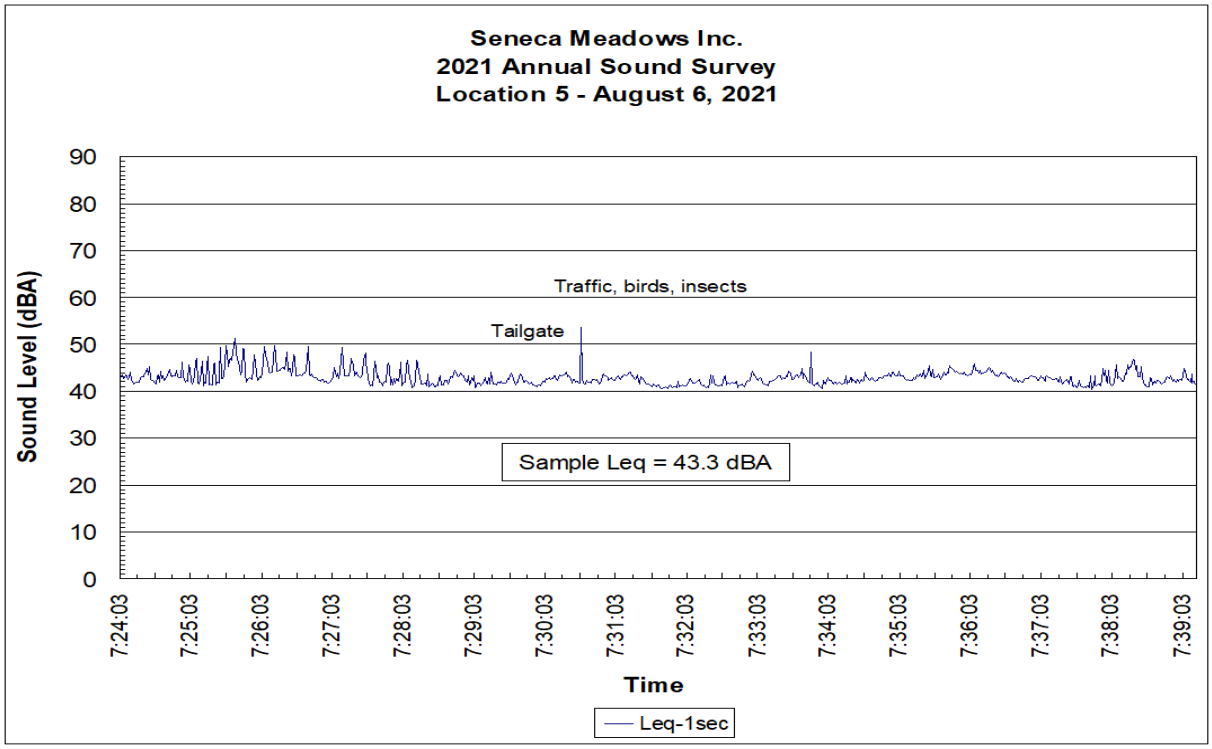
Location 2: Leq = 67.6 dBA
Traffic on Rt. 414, numerous jake brakes, very faint soil drill on top of Cell 7.



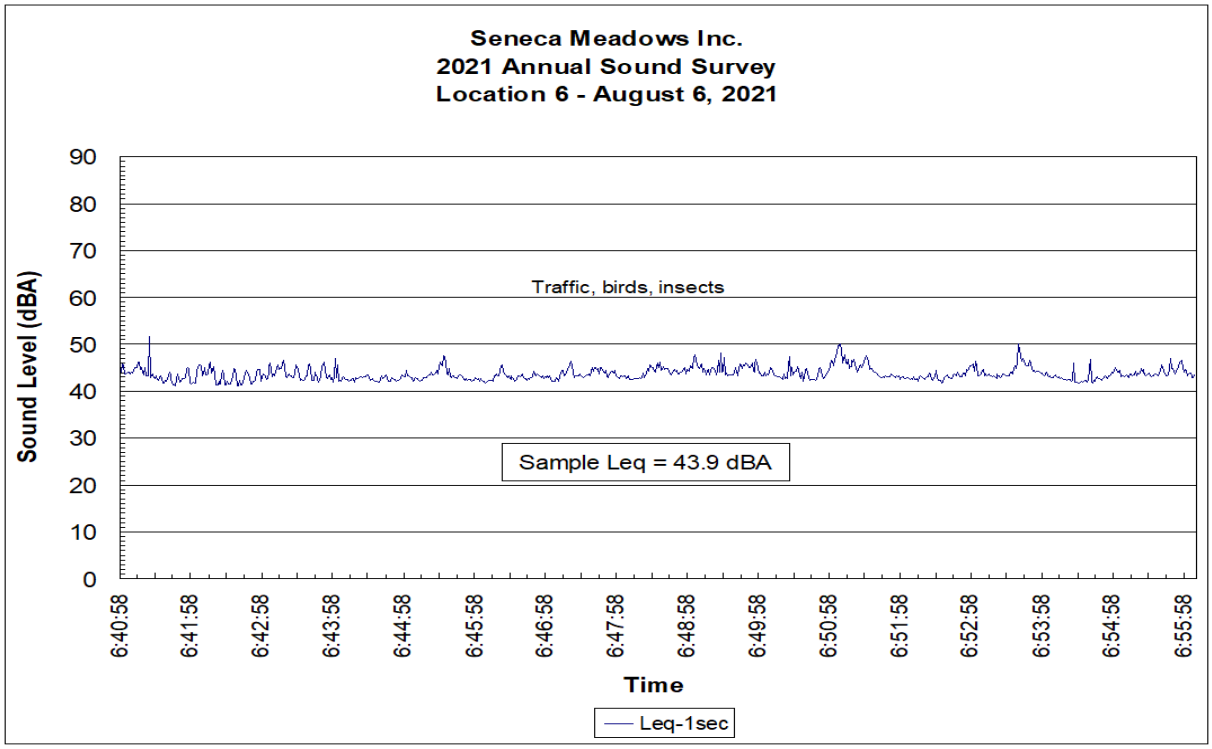
Location 3: Leq = 63.5 dBA
Traffic on Rt. 414, insects. SEI plant faintly audible between traffic.



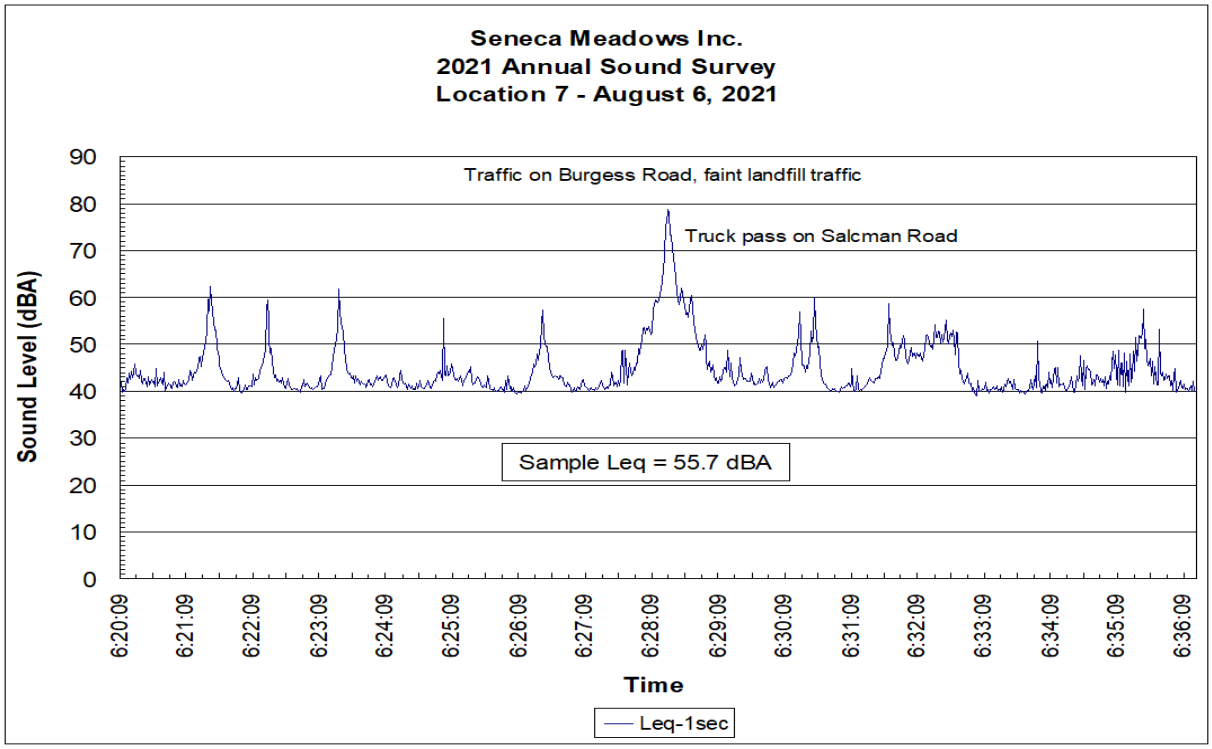
Location 4: Leq = 60.8 dBA
Traffic on Rt. 414, insects, birds. Compressor station faintly audible between traffic..



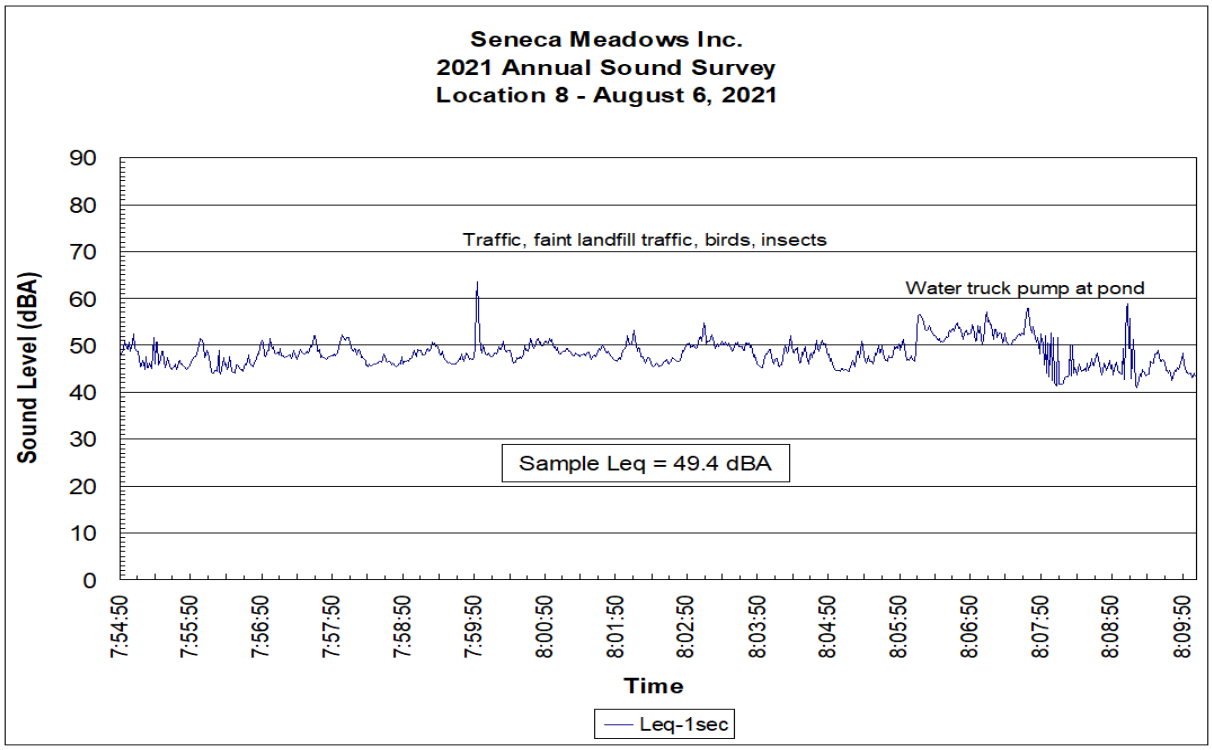
Location 5: Leq = 43.3 dBA
Traffic on Burgess Road and Rt. 414, birds, insects.



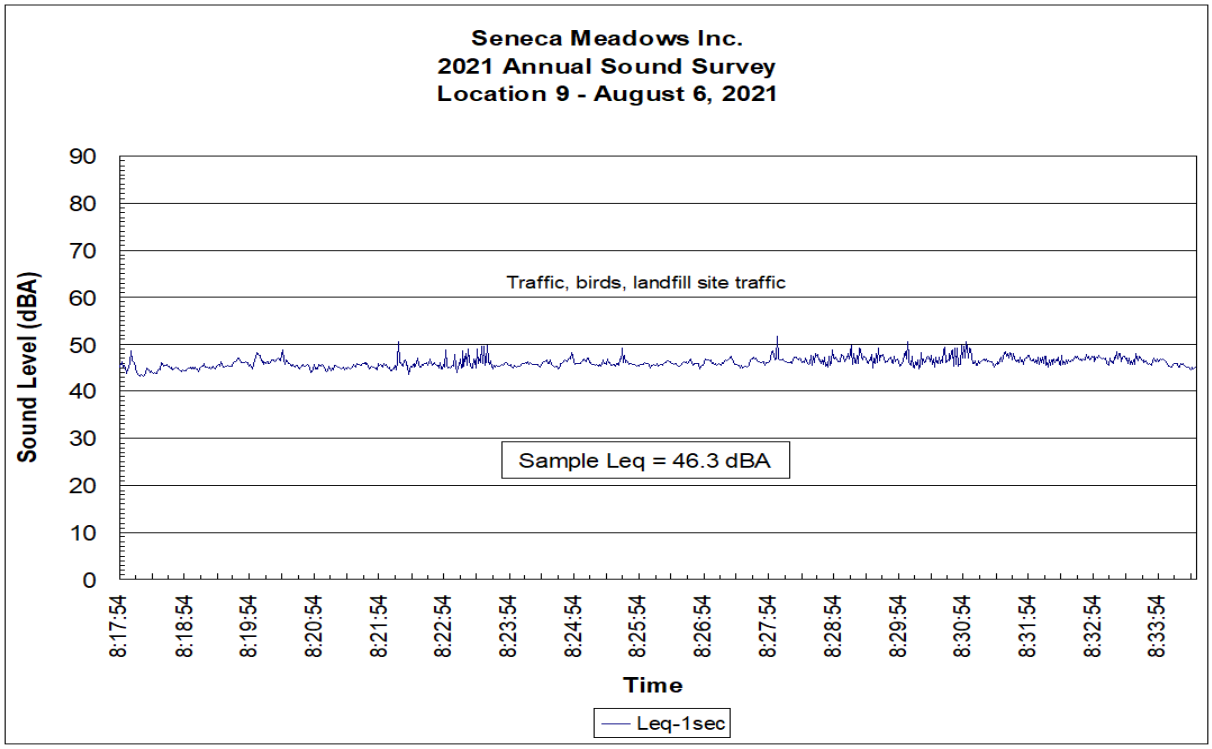
Location 6: Leq = 43.9 dBA
Traffic on Burgess Road, birds, insects.



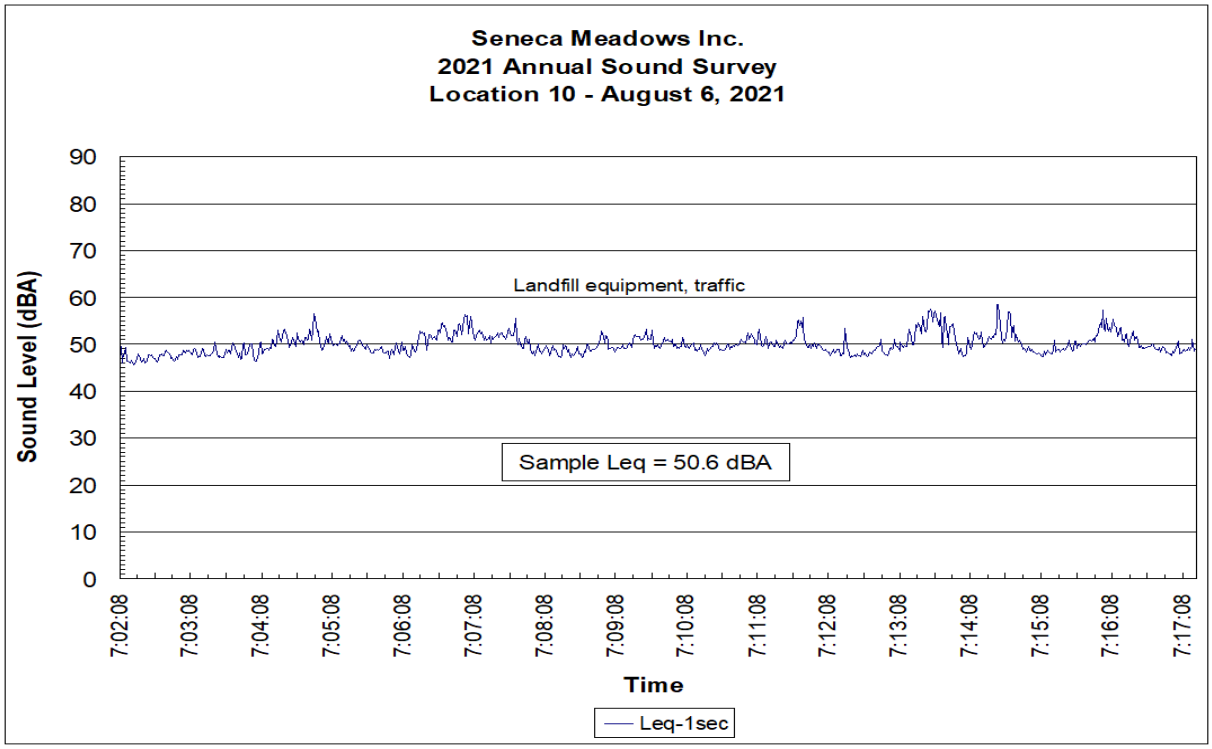
Location 7: Leq = 55.7 dBA
Traffic on Burgess Road, faint landfill traffic on Salcman Road. Dump truck pass on Salcman Road.



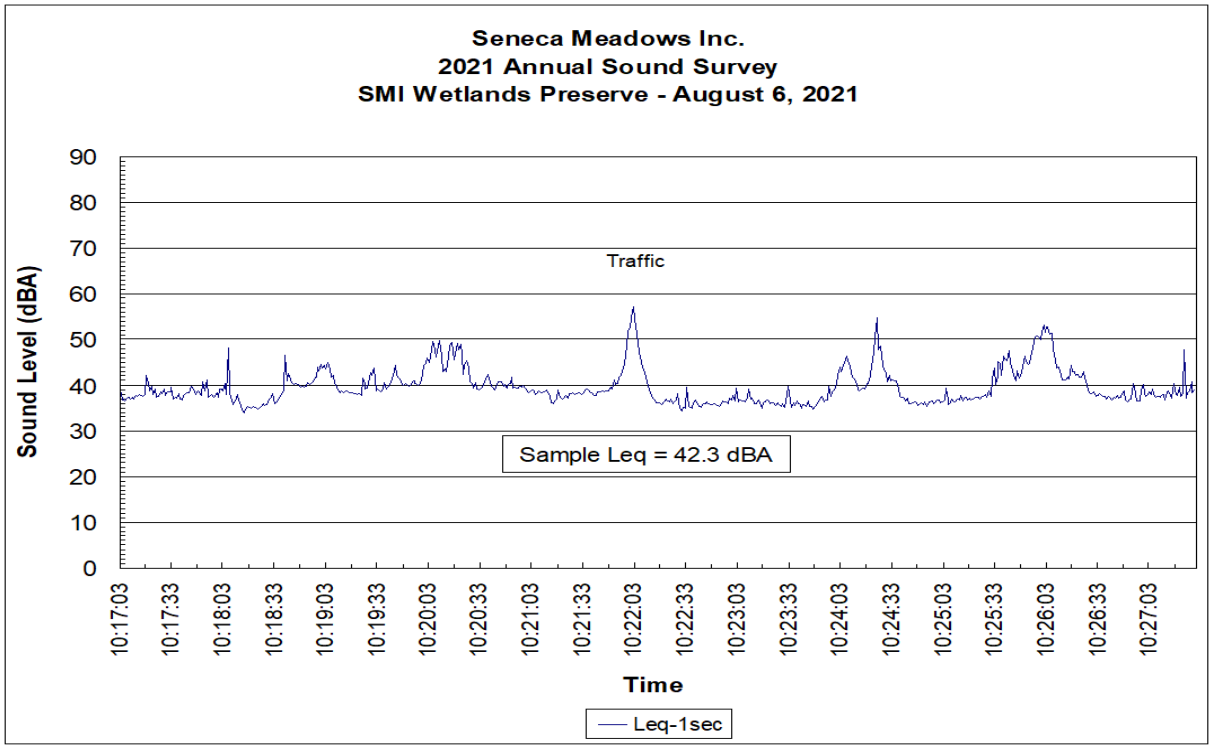
Location 8: Leq = 49.4 dBA
Traffic on North Road, faint landfill traffic on Salman Road, birds, insects. Water truck refilling by pump at south pond.



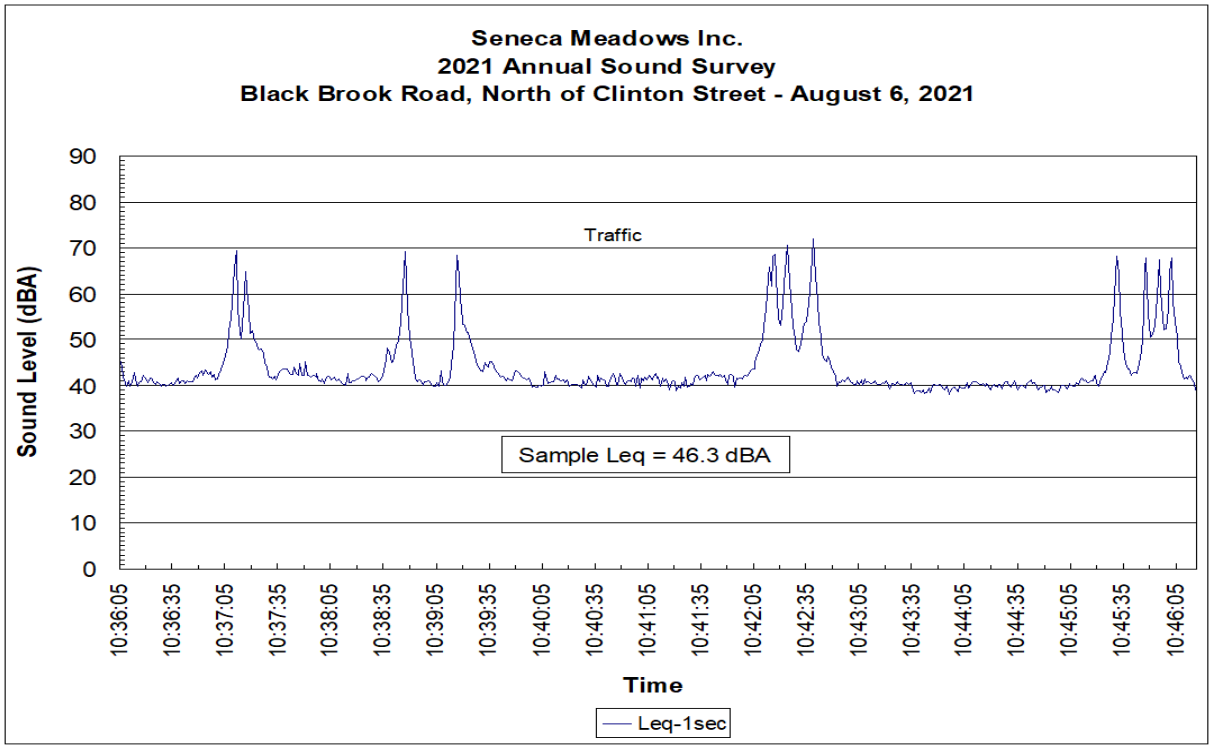
Location 9: Leq =46.3 dBA
Traffic on North Road, birds, landfill site traffic.



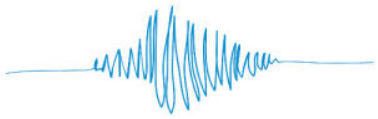
Location 10: Leq = 50.6 dBA
Landfill waste equipment and construction equipment at Cell 5 and SMI overlay, traffic on Burgess Road.



SMI Wetlands Preserve parking lot, Black Brook Road: Leq =42.3 dBA
Traffic on Black Brook Road, insects, birds.



Black Brook Road, north of Clinton Street: Leq = 46.3 dBA
Traffic on Black Brook Road, insects, birds, cooling tower fans at industry in Seneca Falls.



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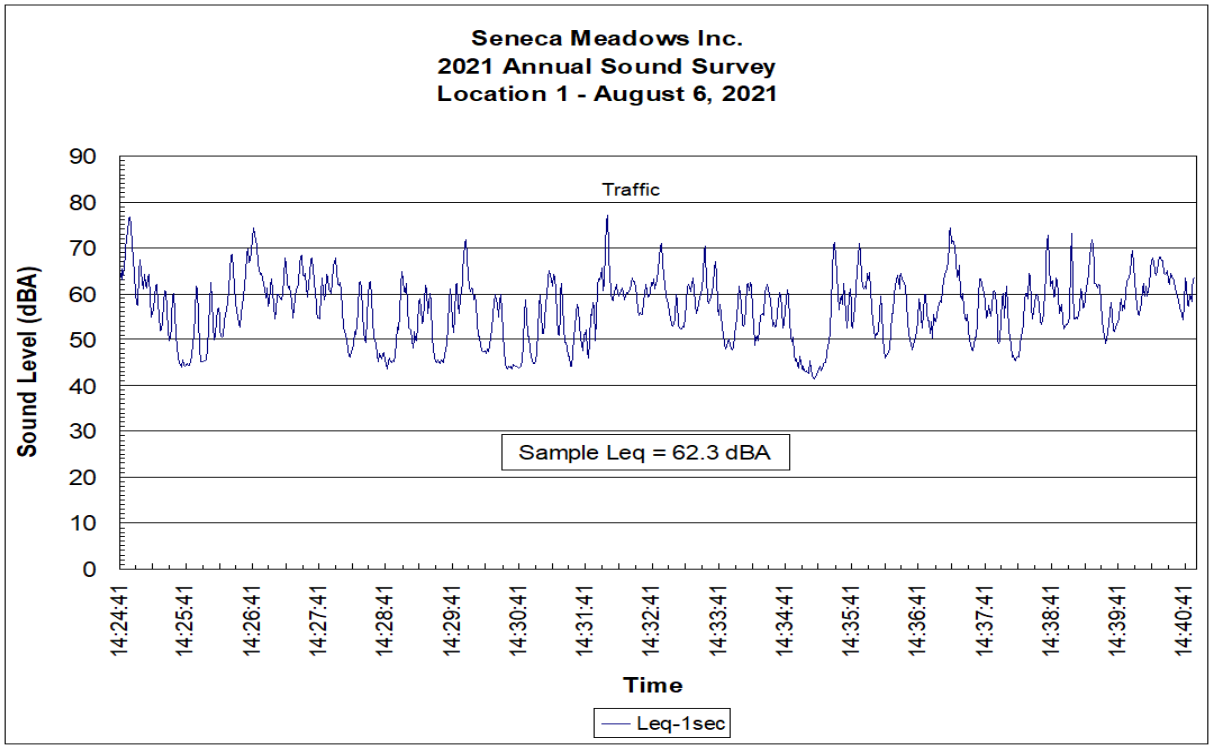
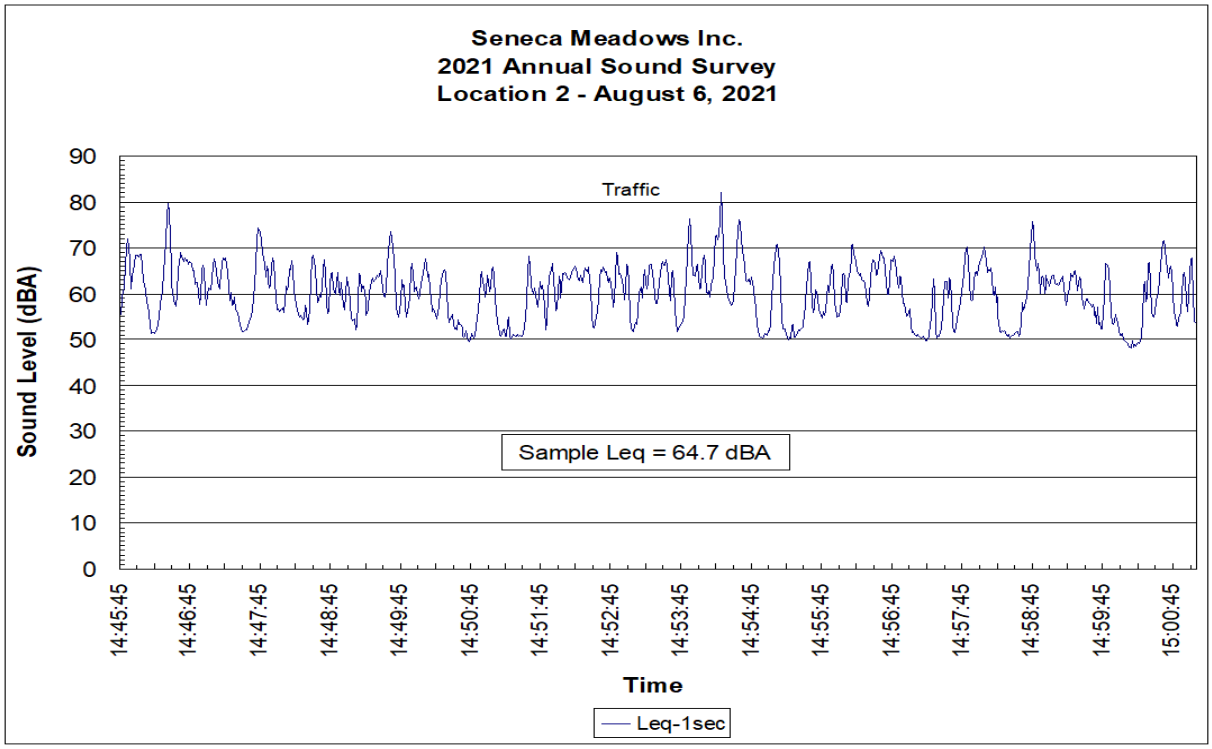
745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Sampling Sound Surveys

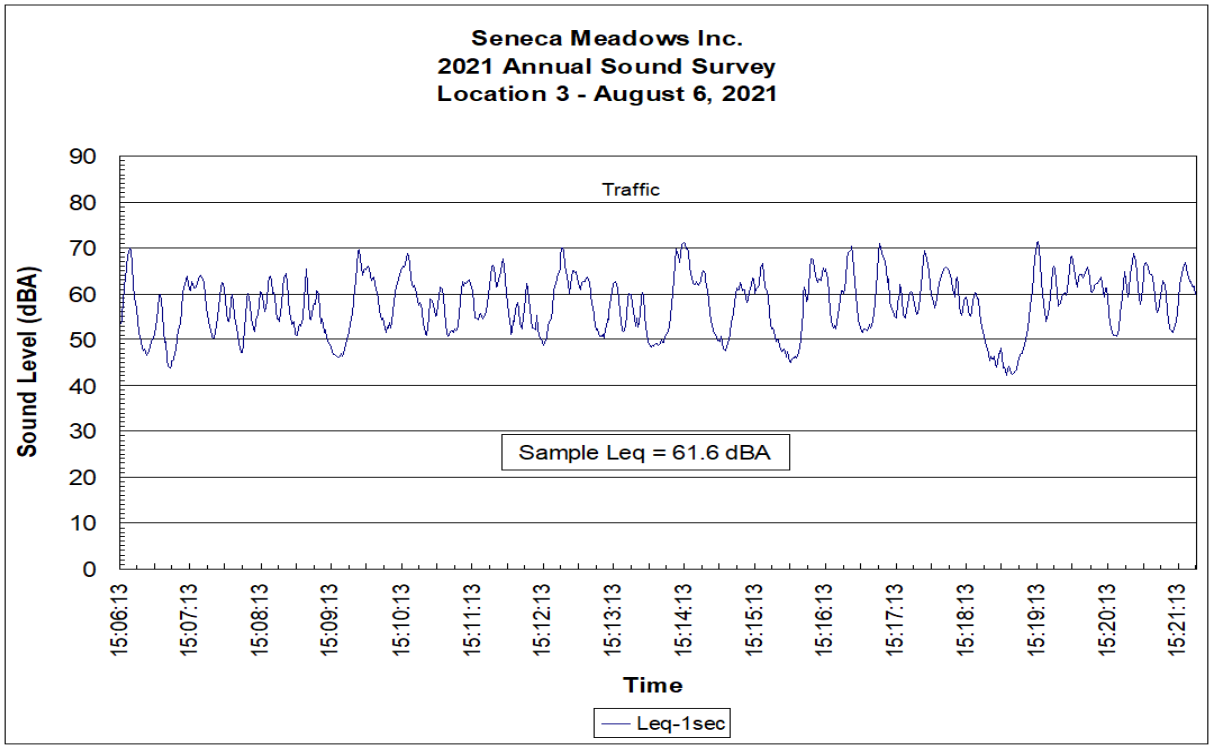
August 6, 2021
Mid-day to Afternoon Period



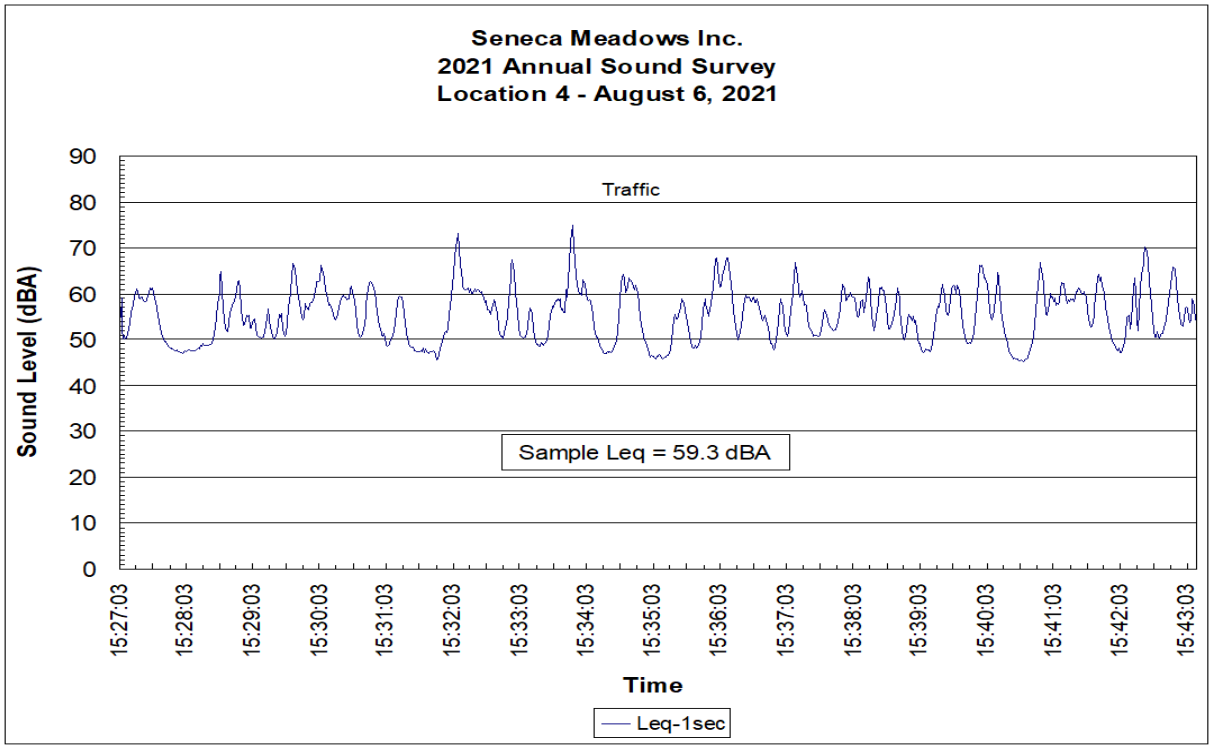
Location 1: Leq = 62.3 dBA
Traffic on Rt. 414, faint soil truck traffic on top of SELF.



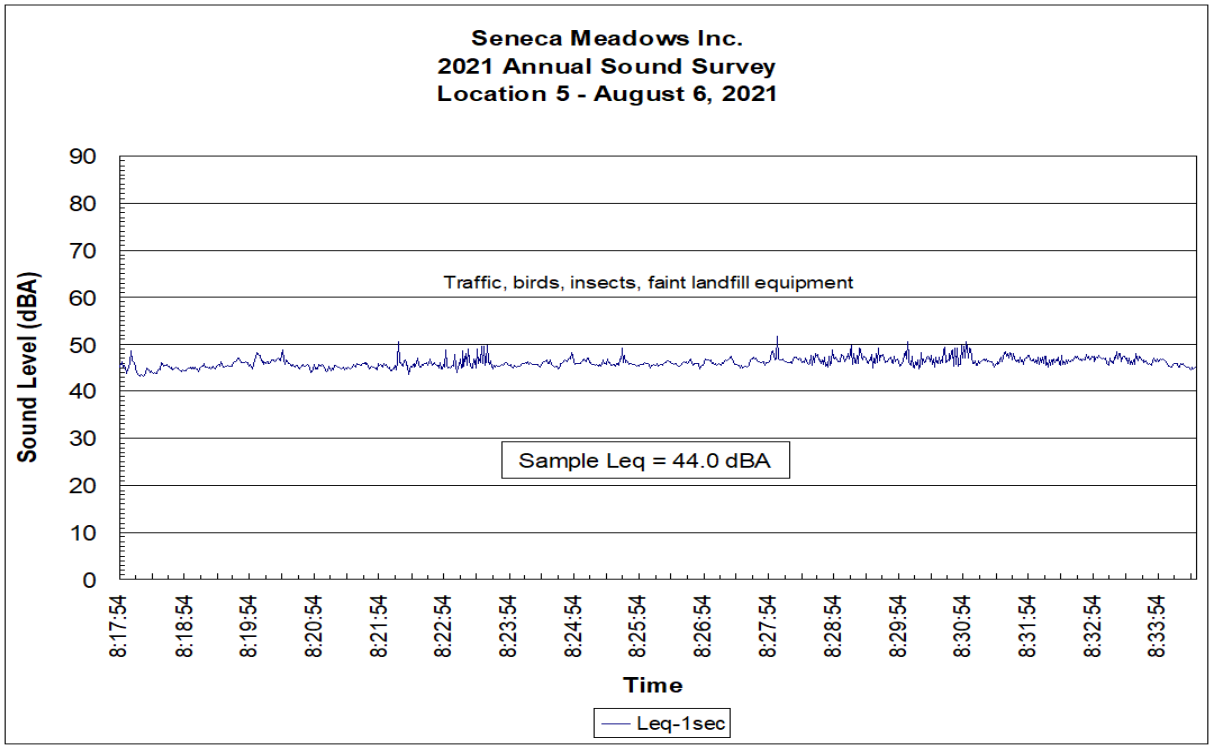
Location 2: Leq = 64.7 dBA
Traffic on Rt. 414, faint soil truck traffic on top of Cell 7, bulldozer placing soil on upper east face of berm.



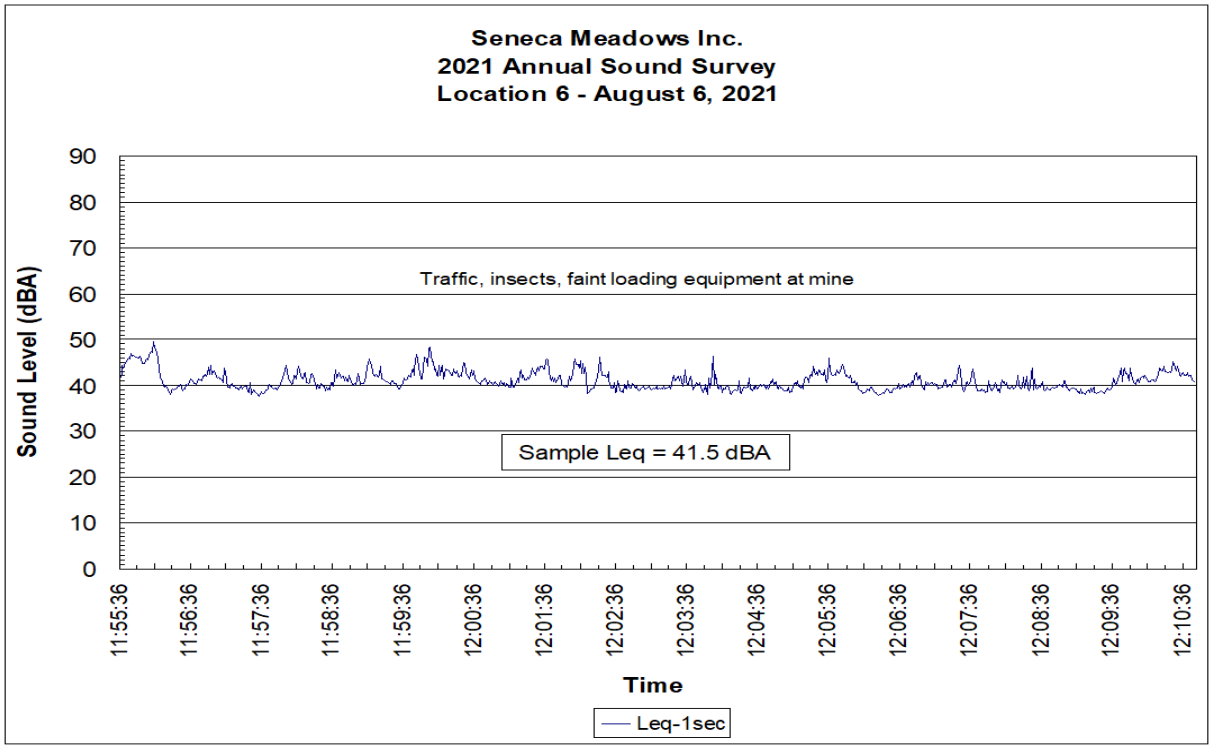
Location 3: Leq = 61.6 dBA
Traffic on Rt. 414, insects. SEI plant faintly audible between traffic.



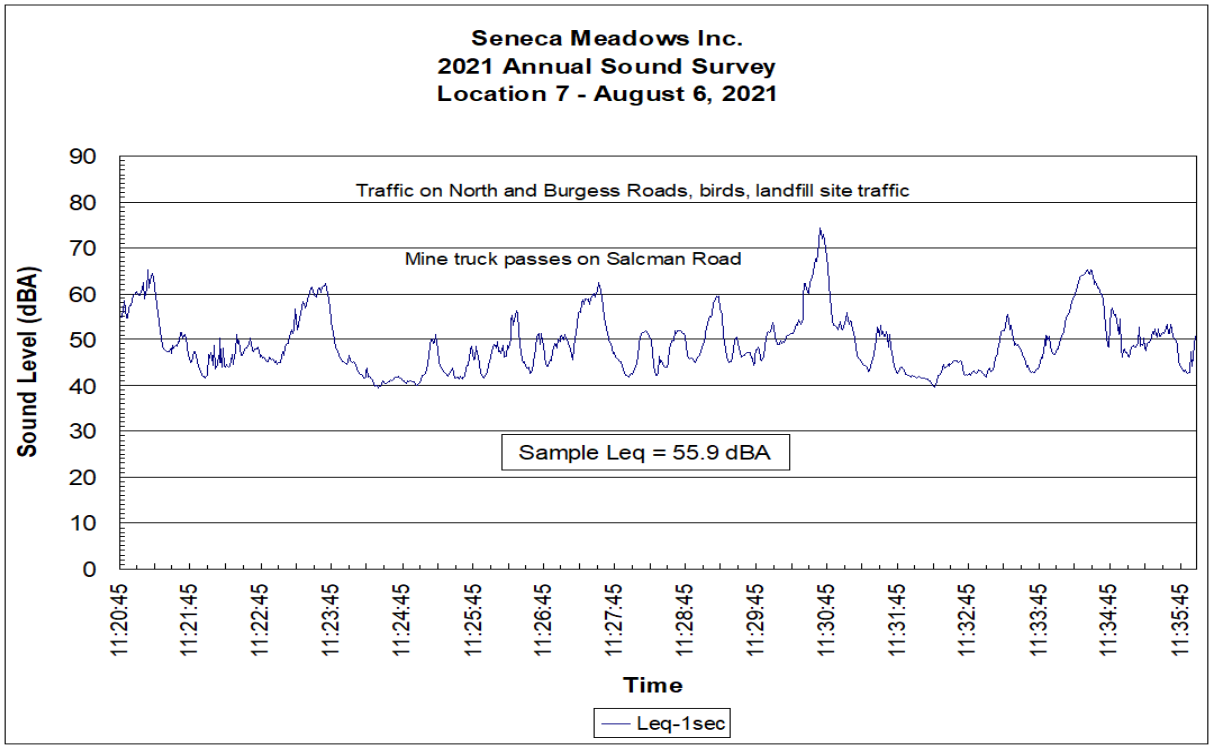
Location 4: Leq = 59.3 dBA
Traffic on Rt. 414, insects, birds. Compressor station faintly audible between traffic.



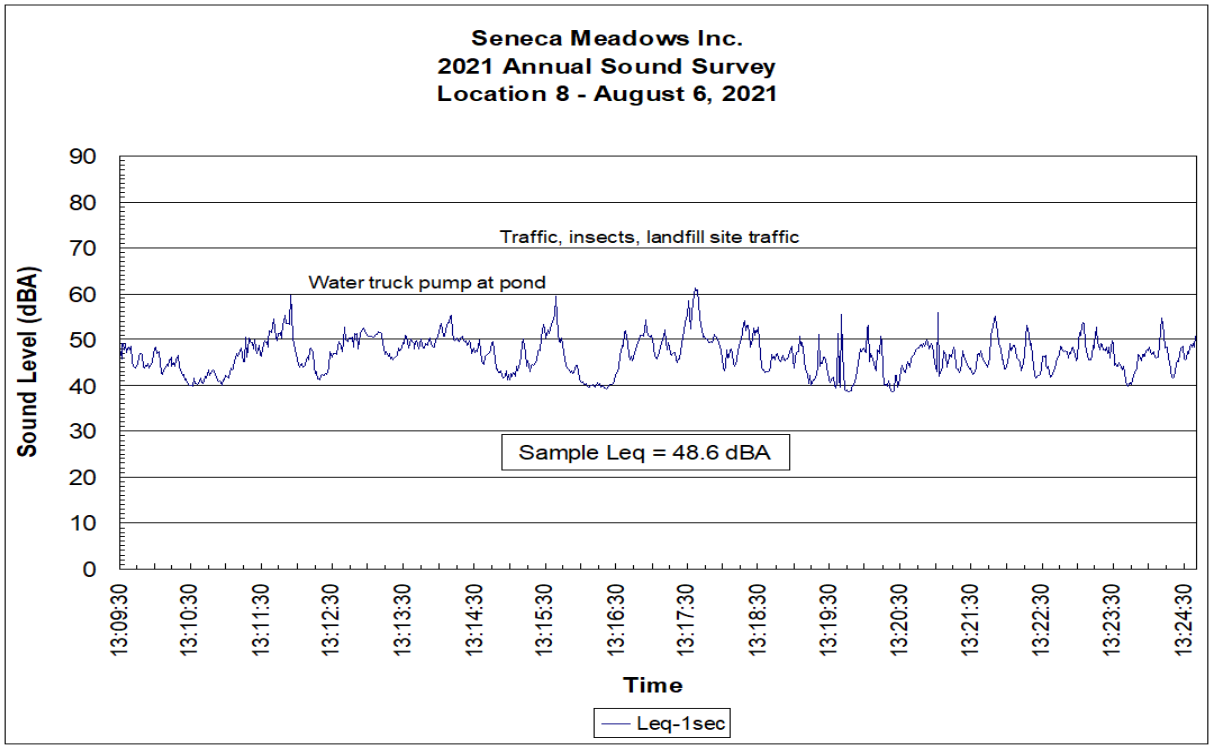
Location 5: Leq = 44.0 dBA
Traffic on Burgess Road and Rt. 414, birds, insects, faint landfill equipment.



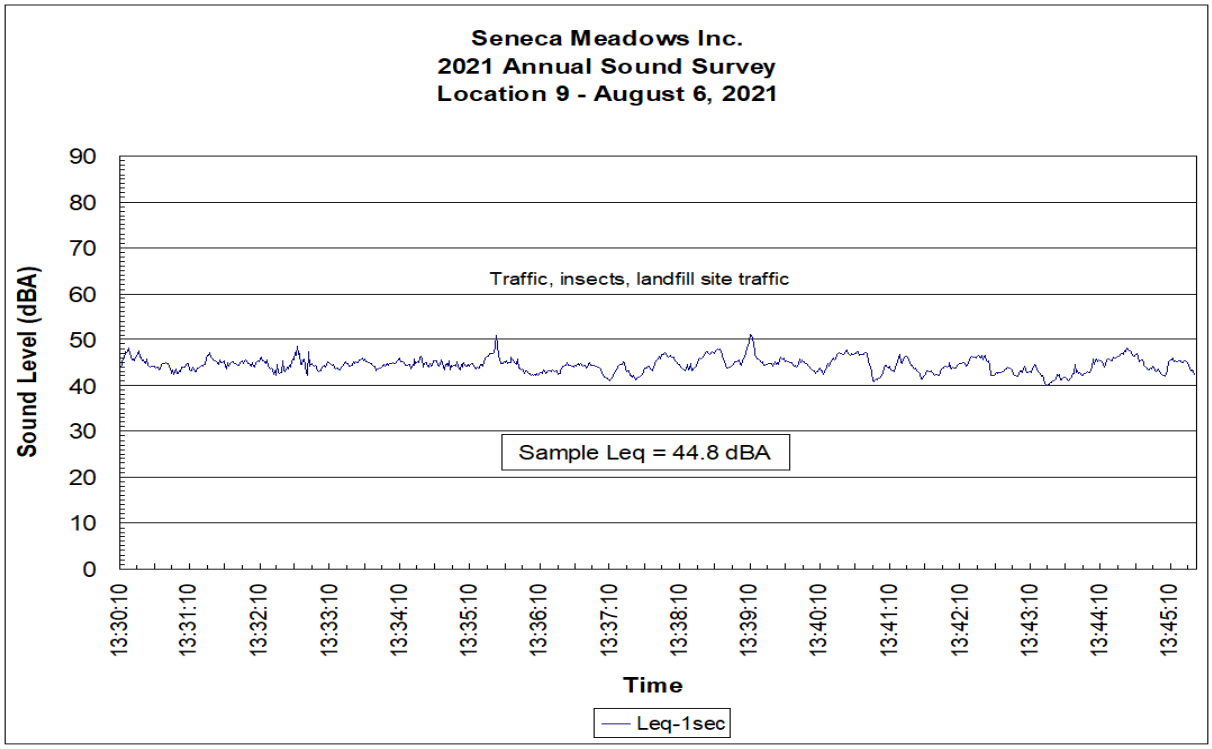
Location 6: Leq = 41.5 dBA
Traffic on Burgess Road, insects, birds, faint loading equipment at Meadowview soil mine.



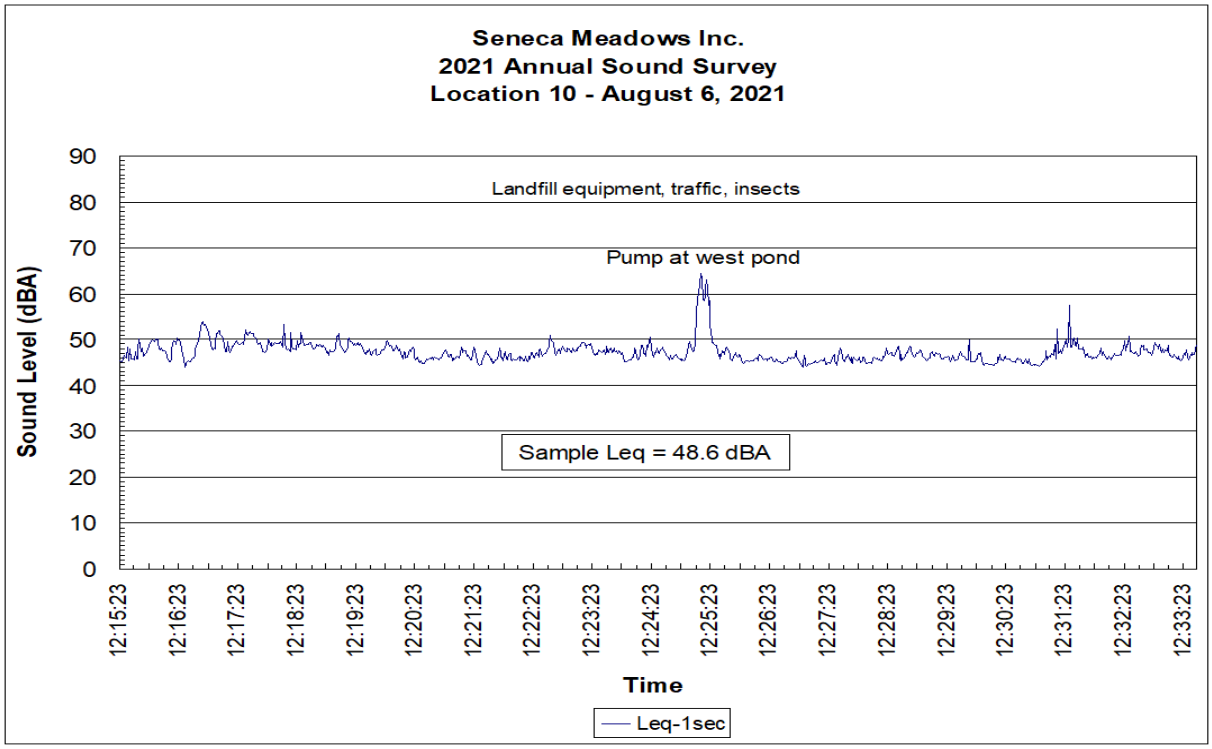
Location 7: Leq = 55.9 dBA
Traffic on North and Burgess Roads, birds, faint landfill site traffic, soil mine truck passes on Salman Road.



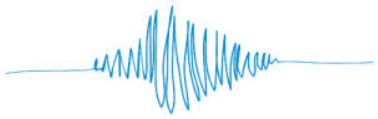
Location 8: Leq = 48.6 dBA
Traffic on North Road, landfill site traffic on Salman Road, water truck refilling by pump at south pond.



Location 9: Leq = 44.8 dBA
Traffic on North Road, insects, landfill site traffic on Salman Road.



Location 10: Leq = 48.6 dBA
Landfill equipment at Cell 5 + SMI overlay, traffic on Burgess Road, insects. Pump at west pond.



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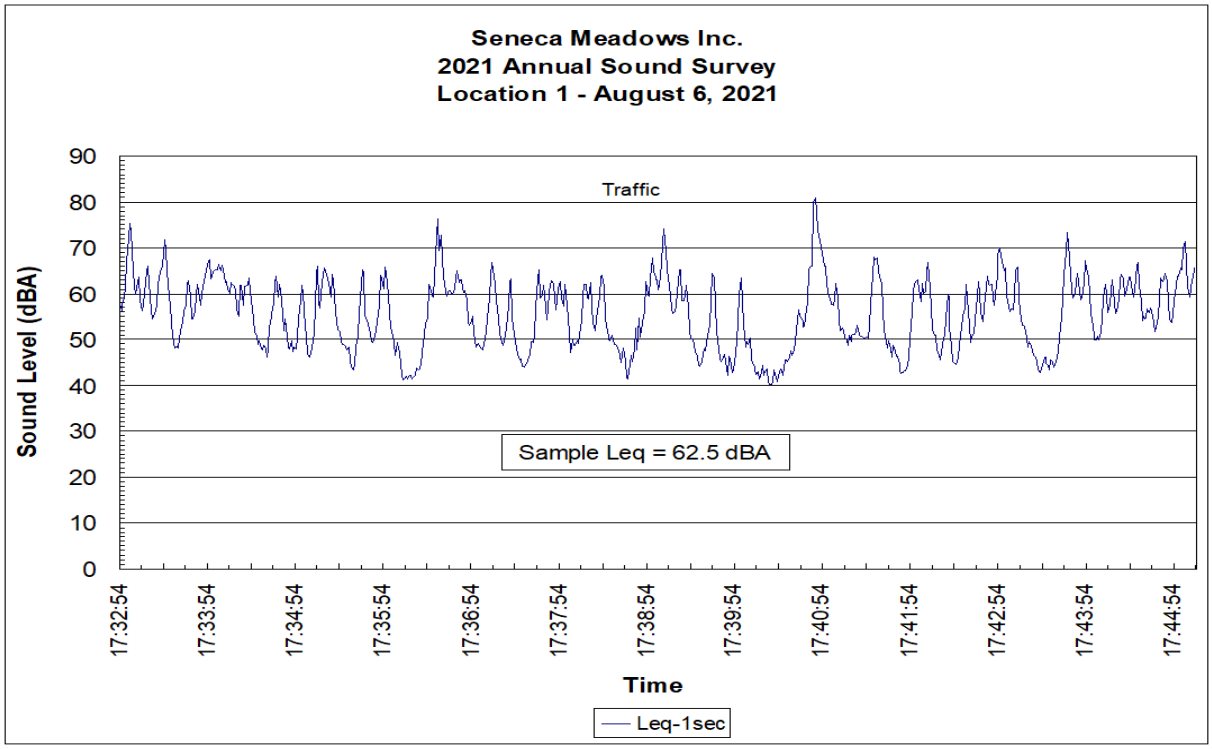
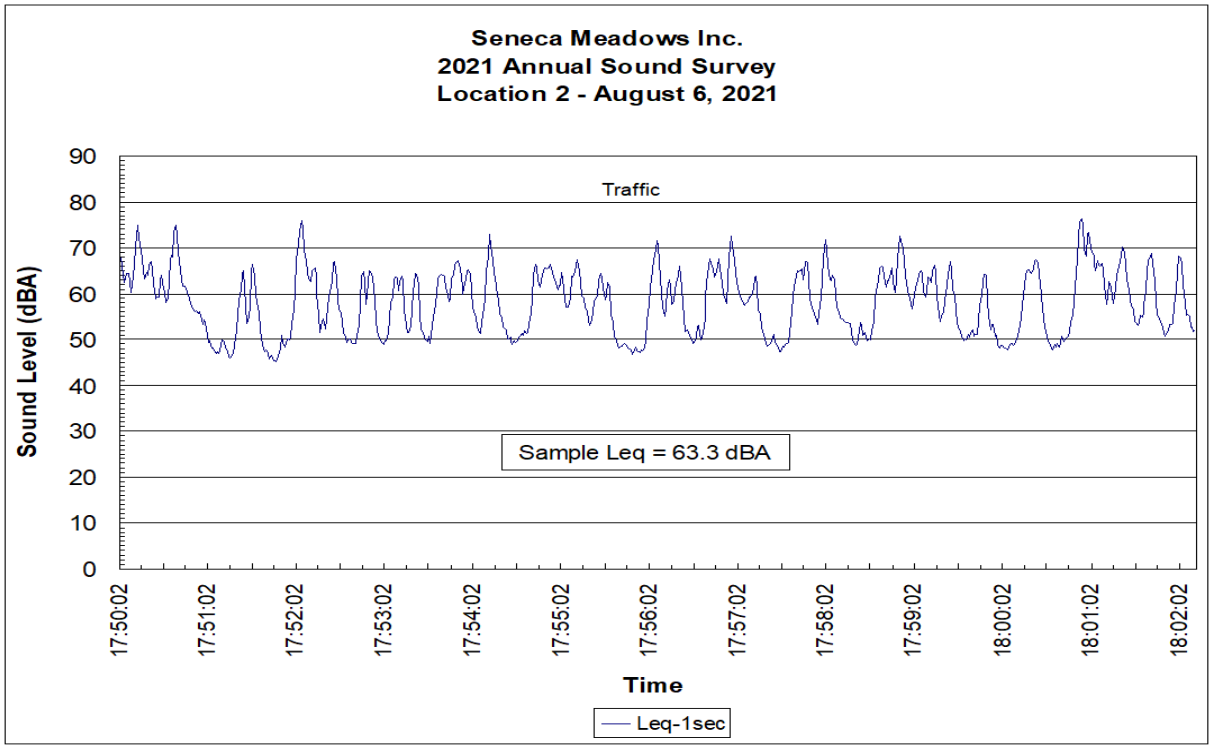
745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Sampling Sound Surveys

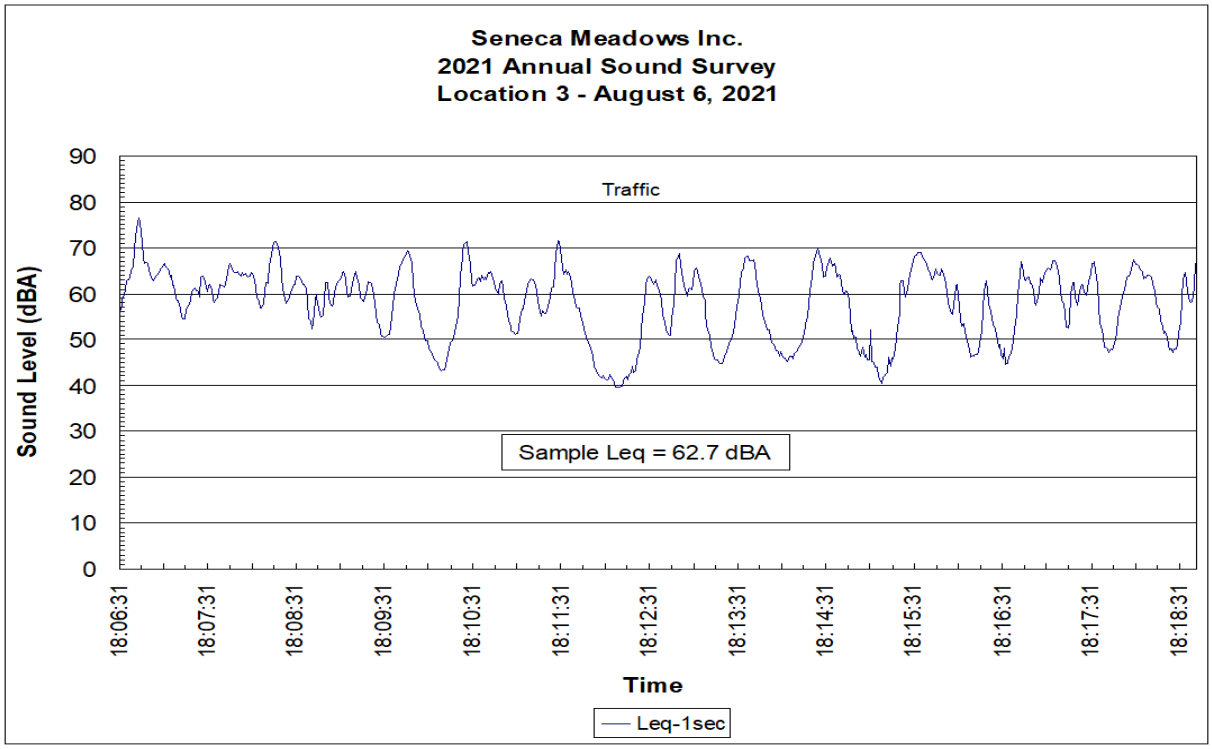
August 6, 2021
Afternoon to Evening Period



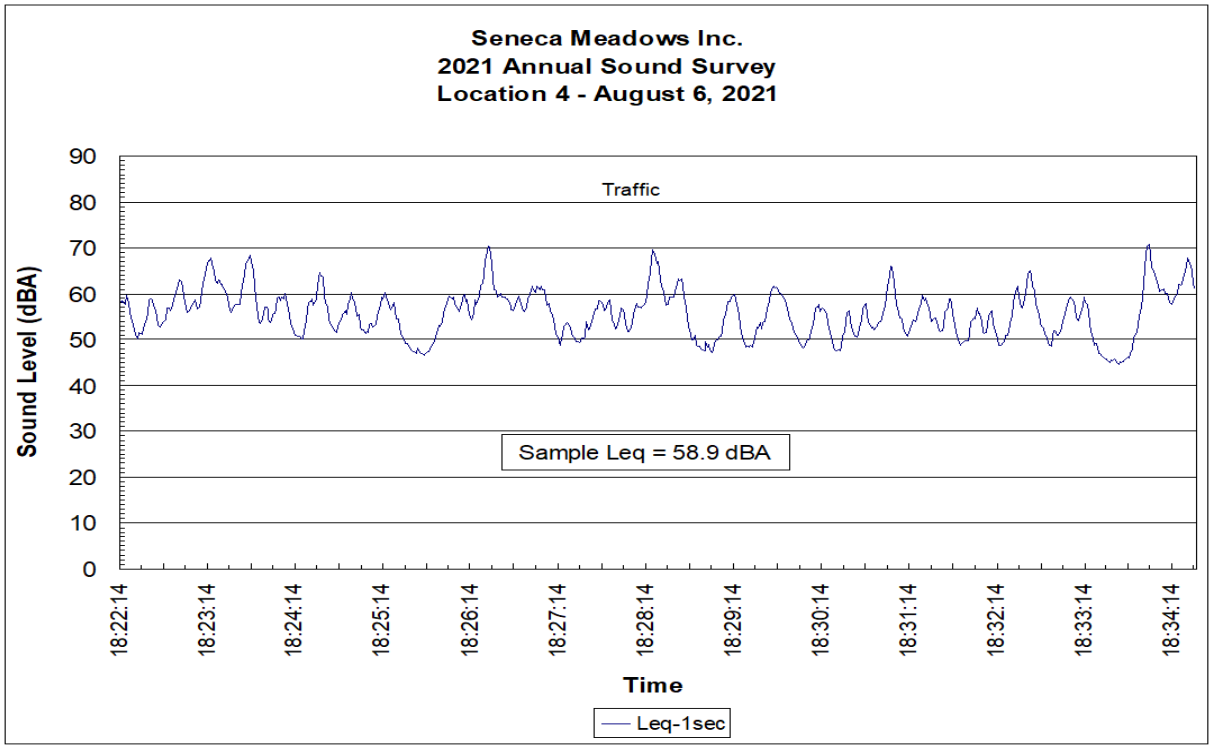
Location 1: Leq = 62.5 dBA
Traffic on Rt. 414. SEI plant audible between traffic passes.



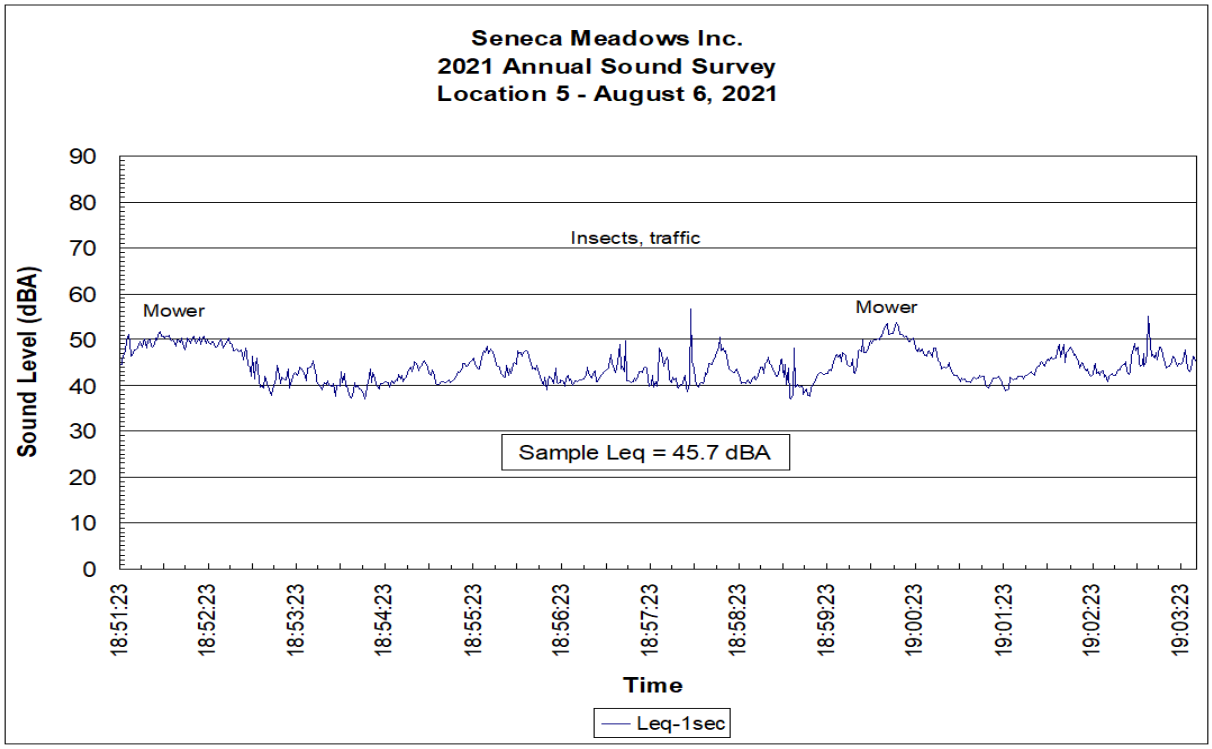
Location 2: Leq = 63.3 dBA
Traffic on Rt. 414. SEI plant audible between traffic passes.



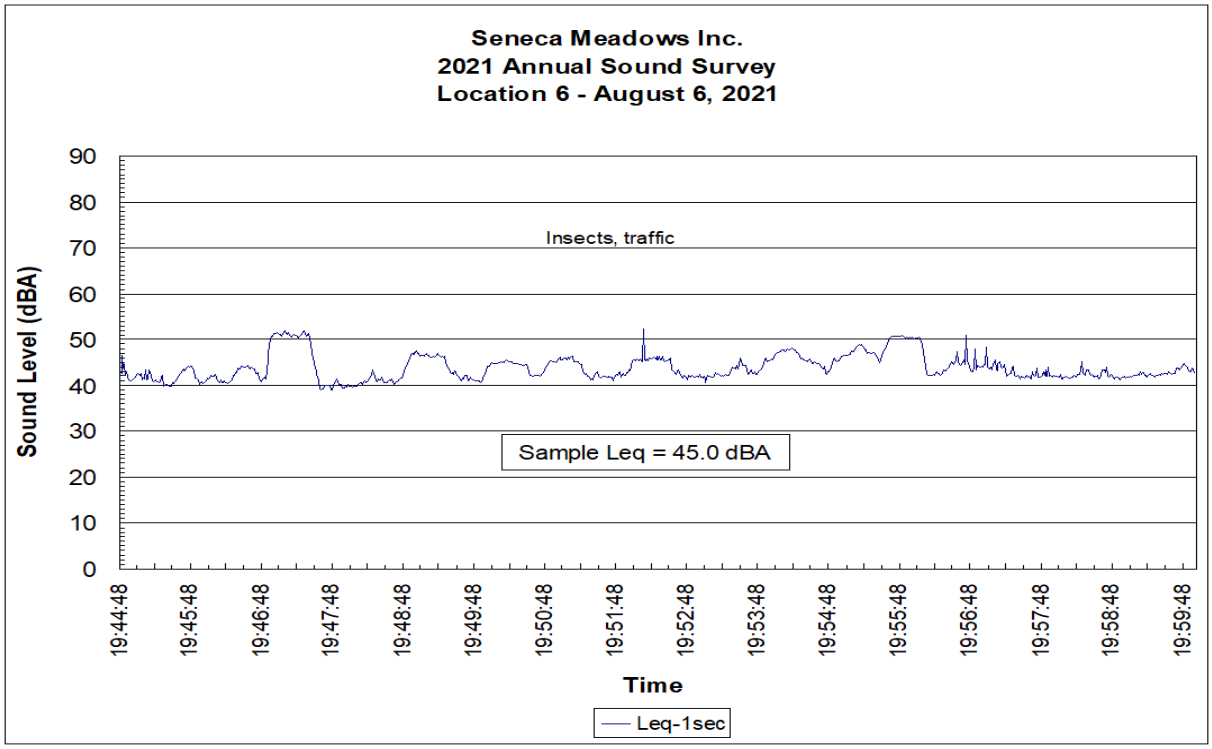
Location 3: Leq = 62.7 dBA
Traffic on Rt. 414. SEI plant audible between traffic passes.



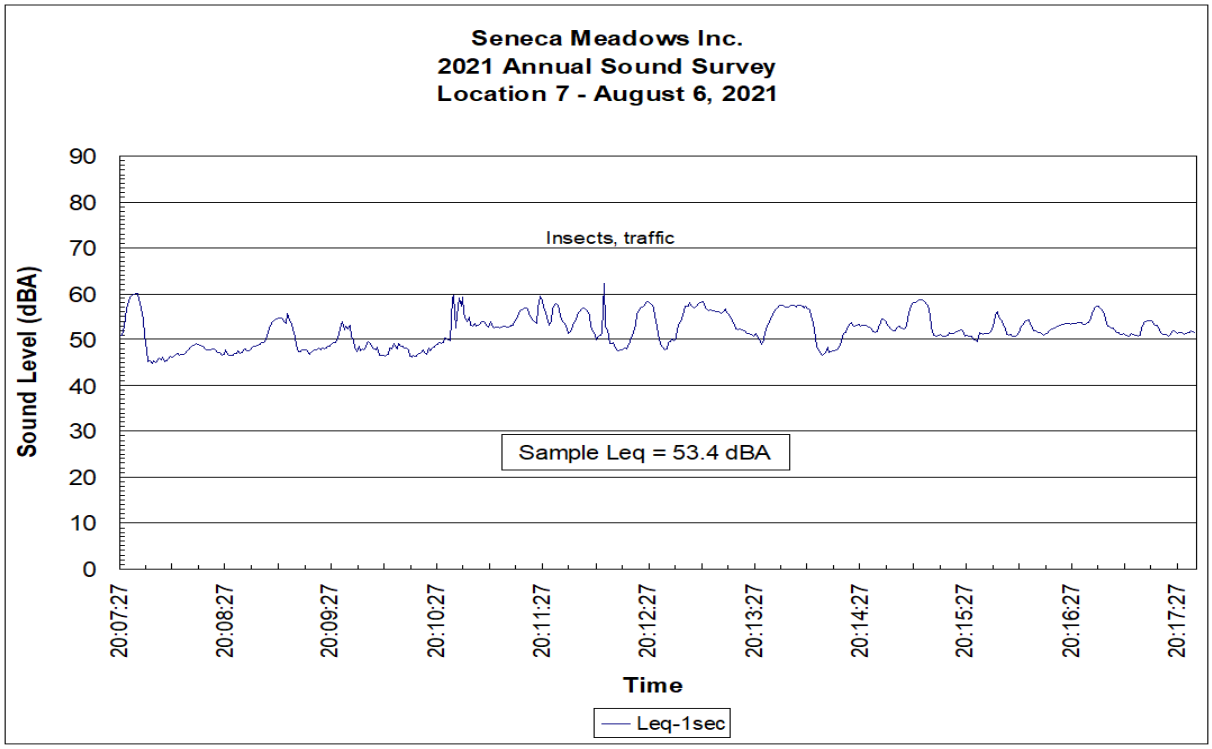
Location 4: Leq = 58.9 dBA
Traffic on Rt. 414. Compressor station audible between traffic.



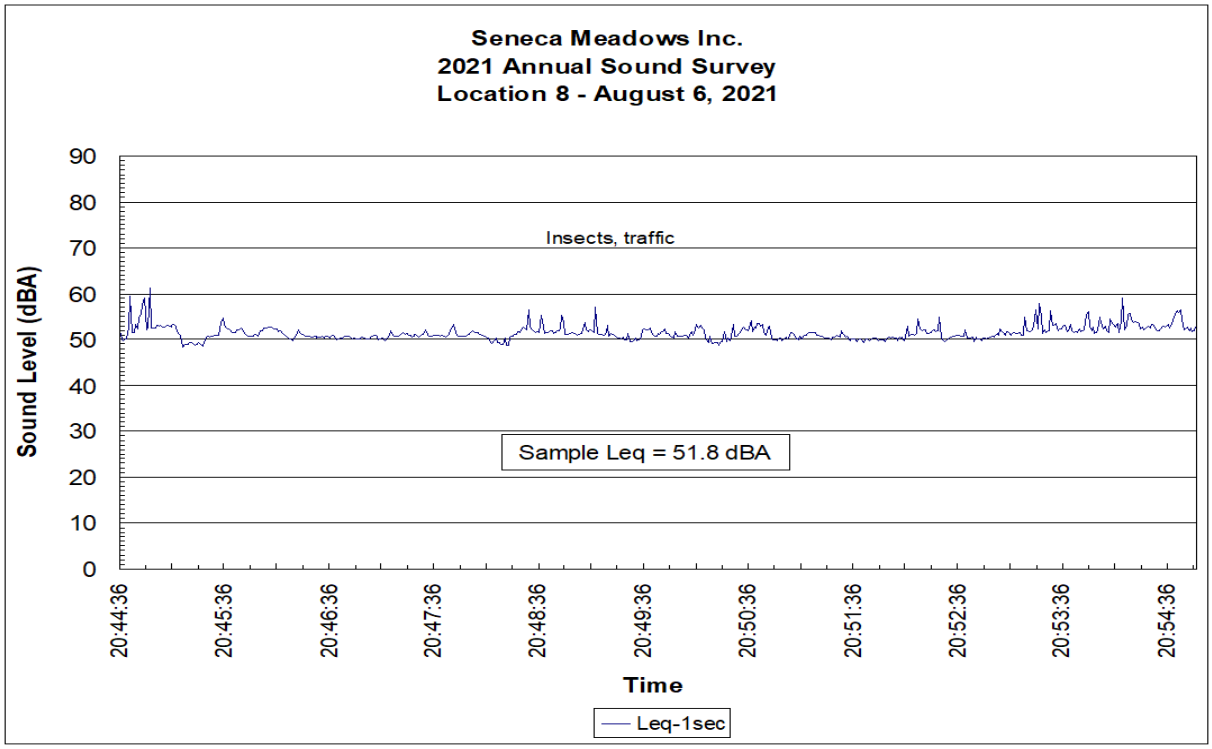
Location 5: Leq = 45.7 dBA
Insects, traffic on Burgess Road and Rt. 414, residential lawn mower.



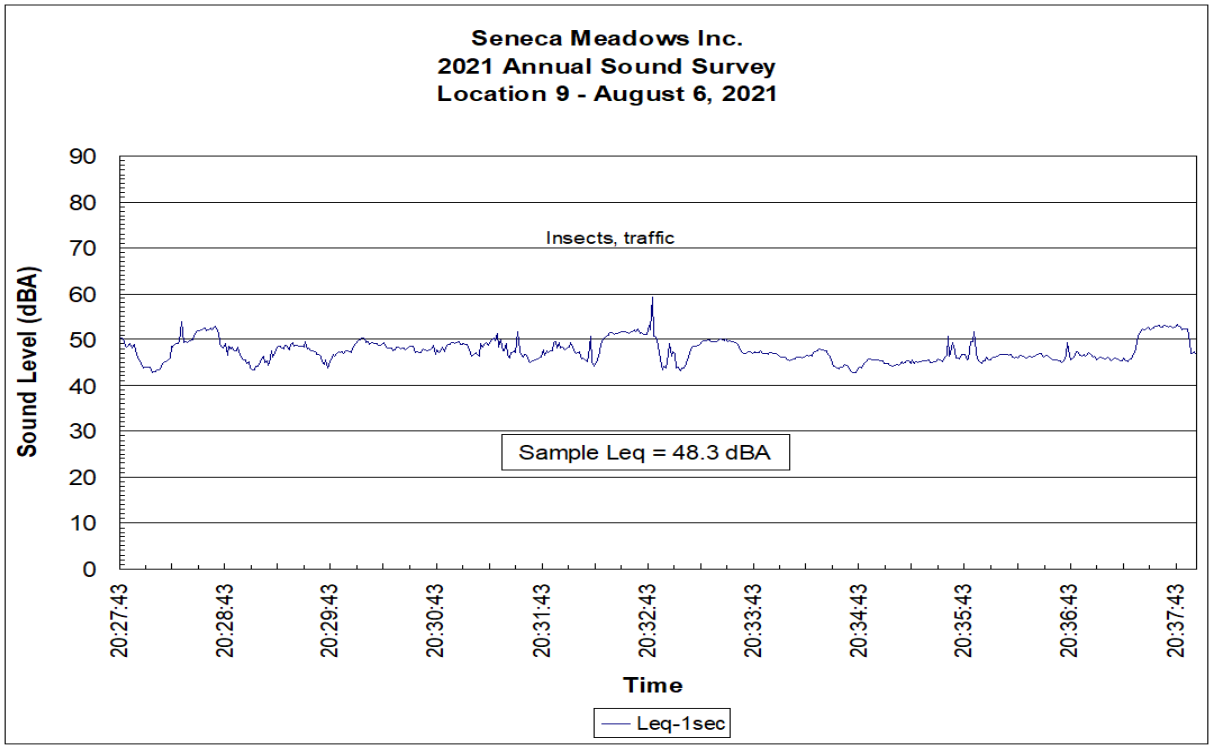
Location 6: Leq = 45.0 dBA
Insects, traffic on Burgess Road.



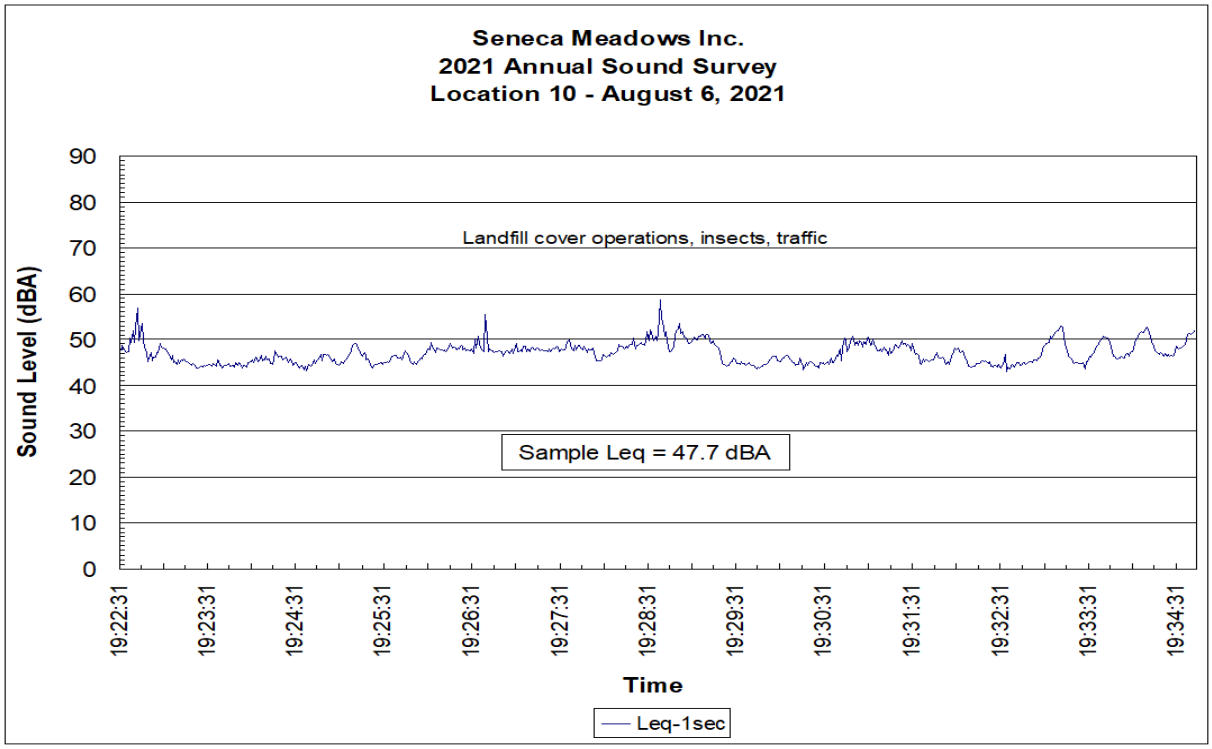
Location 7: Leq = 53.4 dBA
Insects, traffic on North and Burgess Roads.



Location 8: Leq = 51.8 dBA
Insects, traffic on North Road.



Location 9: Leq = 48.3 dBA
Insects, traffic on North Road.



Location 10: Leq = 47.7 dBA
Landfill soil cover operations at Cell 5 and SMI overlay, insects, traffic on Burgess Road.

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745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Appendix E

Detailed Weather Data

NOAA Weather Data
August 1 - August 7, 2021

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Daily Summary
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Temperature (F)							Degree Days (base 65F)		Sun (LST)		Weather	Precipitation (in)			Pressure (inHg)		Wind	Maximum Wind Speed = MPH / Direction = Degrees			
	Max	Min	Avg	Dep	ARH	ADP	AWB	Heat	Cool	Rise	Set	Weather Type	TLC	Snow Fall	Snow Depth	Avg Stn	Avg SL	Avg Speed	Peak Speed	Peak Dir	Sust. Speed	Sust. Dir
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	69	57	63	-8.2				2	0	0500	1929	TS RA FG BR	0.90			28.91		5.2	24	190	15	180
02	74	54	64	-7.1				1	0	0501	1928	RA	0.01			29.06		6.6	21	280	14	320
03	78	54	66	-5.0				0	1	0502	1926		0.00			29.15		4.4	17	210	12	220
04	80	56	68	-3.0				0	3	0503	1925	HZ	0.00			29.17		3.5	11	110	8	120
05	82	57	70	-0.9				0	5	0504	1924		0.00			29.16		3.1	11	100	8	130
06	86	59	73	2.2				0	8	0505	1923		0.00			29.15		5.2	18	230	14	230
07	85	67	76	5.4				0	11	0506	1921	TS RA FG BR	0.27			29.08		5.6	17	300	13	230
08	85	63	74	3.5				0	9	0507	1920	RA BR	0.03			29.08		4.4	26	210	20	210
09	88	70	79	8.6				0	14	0508	1919		0.00			29.13		5.9	15	090	12	210
10	87	67	77	6.7				0	12	0509	1917		0.00			29.05		7.8	25	210	17	210
11	90	74	82	11.8				0	17	0510	1916	TS RA	0.03			29.00		8.8	22	230	15	250
12	87	72	80	9.9				0	15	0511	1915	RA	0.07			29.00		6.8	20	230	15	220
13	88	69	79	9.1				0	14	0512	1913		0.00			29.07		7.2	18	190	14	200
14	78	57	68	-1.8				0	3	0513	1912	TS RA	0.07			29.18		3.8	17	310	13	310
15	73	54	64	-5.6				1	0	0515	1910		0.00			29.28		2.3	13	040	8	030
16	77	54*	66	-3.5				0	1	0516	1909	RA BR	0.10			29.23		2.3	14	170	12	160
17	81	67	74	4.7				0	9	0517	1907	TS RA FG BR	1.39			29.15		4.0	18	200	14	210
18	75	70	73	3.8				0	8	0518	1906	RA FG BR	3.17			29.16		4.7	26	030	15	030
19	81	69	75	6.0				0	10	0519	1904	RA BR	0.54			29.01		6.5	25	340	16	340
20	84	65	75	6.1				0	10	0520	1903	BR	0.02			29.00		1.8	13	030	8	080
21	79	69	74	5.3				0	9	0521	1901	RA BR HZ	0.10			28.97		1.1	8	270	6	240
22	85	66	76	7.5				0	11	0522	1859	RA BR	0.25			28.95		4.4	17	300	10	310
23	84	71	78	9.7				0	13	0523	1858	TS BR	0.03			28.91		5.1	25	260	17	280
24	86	67	77	8.8				0	12	0524	1856		0.00			29.05		3.6	15	340	9	320
25	90*	69	80	12.0				0	15	0525	1855	RA	T			29.14		4.4	20	210	15	220
26	85	73	79	11.2s				0s	14s	0526	1853								10	230	8	230
27	79	67	73	5.4				0	8	0527	1851	BR	0.00			29.18		2.9	13	340	9	340
28	85	63	74	6.6				0	9	0528	1850	RA	T			29.21		6.1	16	200	12	200
29	86	72	79	11.9				0	14	0530	1848	TS RA BR	0.13			29.13		8.5	21	210	16	210
30	83	66	75	8.1				0	10	0531	1846	RA	T			28.93		7.0	25	210	17	220
31	80	62	71	4.3				0	6	0532	1845		0.00			28.87		5.1	16	330	13	310
	83.0	67.2	75.1									Monthly Averages | Totals	0.13			29.07	30.02	4.9				
	4.0	7.9	6.0									Departure from Normal (1981-2010)	-2.68s									

Degree Days

	Monthly		Season-to-date	
	Total	Departure	Total	Departure
Heating	4	-18	11	
Cooling	264	114	694	

Number of days with...

	Temperature				Precipitation		Snow	Weather	
	Max		Min						
	>=90°	<=32°	<=32°	<=0°	>=0.01"	>=0.1"	>=1"	T-Storms	Heavy Fog
Heating									
Cooling	0s	0	0	0	1s	1s		2	

Date of 5-sec to 3-sec wind equipment change	Sea Level Pressure			Greatest...		
		Date	Time	24-Hr...		Snow Depth
2005-11-07	Maximum 30.21	28	0945	Precip	Snowfall	
	Minimum 29.78	31	1700	0.13		
				Date		
				29-30		

Station Augmentation

Name:N/A Lat: N/A Lon: N/A Elevation: N/A Distance: N/A Elements: N/A Equipment: N/A

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Precipitation
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	For Hour (LST) Ending at																							Date
	1 AM	2 AM	3 AM	4 AM	5 AM	6 AM	7 AM	8 AM	9 AM	10 AM	11 AM	NOON	1 PM	2 PM	3 PM	4 PM	5 PM	6 PM	7 PM	8 PM	9 PM	10 PM	11 PM	MID	
01										0.14	0.22	0.10	0.03	0.04	T			0.05	0.30	0.01		T	0.01	T	01
02	0.01																								02
03																									03
04																									04
05																									05
06																									06
07														T	0.10	0.17			T	T	T				07
08														0.01	0.02										08
09																									09
10																									10
11								0.03	T																11
12											T	0.04							0.03						12
13																									13
14	0.02	T					0.01	0.04																	14
15																									15
16																			T	0.01	T	0.06	0.02	0.01	16
17		T	0.03	0.03	T	T							T	0.37		0.15	0.22	0.38	0.21	T				T	17
18			0.01	0.01	T	T	0.39	0.12	0.02	T	0.01	0.01	0.03	0.14	0.02	0.05	0.07	0.28	0.32	0.28	0.61	0.64	0.10	0.06	18
19	0.09	0.08	0.08	0.14	0.03		0.01	0.02	0.01			T		0.08	T					T					19
20																	T	T					0.02		20
21	T	T	0.02	0.04	0.02	0.01	0.01				T				T	T									21
22																0.25									22
23															T						0.03				23
24																									24
25																						T	T		25
26	M	M	M	M	M	M	M	M	M	M															26
27																									27
28																						T	T		28
29																		0.13	T						29
30				T	T																				30
31																									31

Maximum Short Duration Precipitation

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (inches)	0.04	0.06	0.09	0.11	0.13	0.13	0.13s	0.13	0.13	0.13s	0.13	0.13s
Ending Date Time (yyyy-mm-dd hh:mi)	2021-08-29 17:20	2021-08-29 17:26	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28	2021-08-29 17:28

Hourly, daily, and monthly totals on the Daily Summary page and the Hourly Precipitation Table are shown as reported by the instrumentation at the site. However, NWS does not edit hourly values for its ASOS sites, but may edit the daily and monthly totals for selected sites which will be reflected on the Daily Summary page.

T = Trace
s = Suspect
* = Erroneous
blank = No precipitation observed
M = Missing

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
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Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	0053	7	BKN:07 100	10.00		57	13.9	55	12.8	53	11.7	87	3	200		28.95	8	+0.05	29.90	FM-15	0.00	29.91
01	0153	7	FEW:02 120	10.00		60	15.6	57	13.9	55	12.8	84	5	210		28.92			29.87	FM-15	0.00	29.88
01	0253	7	CLR:00	10.00		61	16.1	58	14.4	56	13.3	84	7	200		28.91			29.85	FM-15	0.00	29.87
01	0353	7	FEW:02 44 BKN:07 120	10.00		60	15.6	58	14.4	56	13.3	86	8	230		28.91	6	+0.04	29.85	FM-15	0.00	29.87
01	0453	7	FEW:02 100 BKN:07 120	10.00		61	16.1	58	14.4	55	12.8	81	7	210		28.91			29.86	FM-15	0.00	29.87
01	0553	7	CLR:00	10.00		61	16.1	58	14.4	55	12.8	81	9	230		28.91			29.86	FM-15	0.00	29.87
01	0653	7	CLR:00	10.00		64	17.8	59	15.0	56	13.3	75	10	220		28.91	8	0.00	29.85	FM-15	0.00	29.87
01	0753	7	FEW:02 60	10.00		67	19.4	61	16.1	57	13.9	71	8	210		28.90			29.84	FM-15	0.00	29.86
01	0853	7	BKN:07 60	10.00		69	20.6	62	16.7	57	13.9	66	7	210		28.89			29.84	FM-15	0.00	29.85
01	0942	7	SCT:04 43 BKN:07 50 OVC:08 60	10.00	VCTS:7 ||	68	20.0	61	16.1	57	13.9	68	7	200		28.88				FM-16		29.84
01	0950	7	SCT:04 33 BKN:07 41 OVC:08 48	10.00	TS:7 -RA:02 |RA TS TS |RA	66	18.9	61	16.1	57	13.9	73	8	220		28.90				FM-16	T	29.86
01	0953	7	SCT:04 33 OVC:08 46	9.00	TS:7 -RA:02 |RA TS TS |RA	67	19.4	62	16.7	58	14.4	73	10	220		28.90	3	-0.01	29.85	FM-15	0.14	29.86
01	0958	7	FEW:02 18 BKN:07 29 OVC:08 49	1.75	TS:7 +RA:02 |RA TS TS |RA	65	18.3	61	16.1	59	15.0	81	11	200		28.92				FM-16	0.12	29.88
01	1006	7	FEW:02 18 BKN:07 30 OVC:08 42	0.50	TS:7 +RA:02 FG:2 |FG RA TS |RA	63	17.2	61	16.1	60	15.6	90	14	180	24	28.92				FM-16	0.27	29.88
01	1018	7	SCT:04 28 BKN:07 40 OVC:08 80	2.00	TS:7 -RA:02 BR:1 |RA TS |RA	61	16.1	59	15.0	57	13.9	87	6	110		28.90				FM-16	0.35	29.86
01	1020	7	FEW:02 26 BKN:07 40 OVC:08 90	3.00	TS:7 -RA:02 BR:1 |RA TS |RA	61	16.1	59	15.0	57	13.9	87	5	150		28.90				FM-16	0.36	29.86
01	1046	7	FEW:02 60 OVC:08 90	10.00	VCTS:7 -RA:02 |RA |RA	62	16.7	60	15.6	59	15.0	90	5	250		28.91				FM-16	0.36	29.87
01	1053	7	FEW:02 55 OVC:08 90	10.00	VCTS:7 -RA:02 |RA |RA	63	17.2	61	16.1	60	15.6	90	5	240		28.91			29.86	FM-15	0.22	29.87
01	1111	7	FEW:02 55 SCT:04 70 OVC:08 90	6.00	-RA:02 BR:1 |RA |RA	63	17.2	62	16.7	61	16.1	93	5	210		28.92				FM-16	0.02	29.88
01	1124	7	SCT:04 39 BKN:07 50 OVC:08 90	2.00	+RA:02 BR:1 |RA |RA	62	16.7	61	16.1	61	16.1	96	6	230		28.91				FM-16	0.05	29.87
01	1132	7	FEW:02 39 BKN:07 75 OVC:08 95	2.50	VCTS:7 RA:02 BR:1 |RA |RA	62	16.7	61	16.1	61	16.1	96	7	240		28.91				FM-16	0.07	29.87
01	1140	7	FEW:02 36 SCT:04 50 OVC:08 85	5.00	VCTS:7 -RA:02 BR:1 |RA |RA	62	16.7	60	15.6	59	15.0	90	6	VRB		28.91				FM-16	0.08	29.87
01	1151	6	FEW:02 55 SCT:04 80 OVC:08 90	5.00	RA:02 BR:1 |RA |RA	63	17.2	61	16.1	59	15.0	88	6	200		28.91				FM-16		29.87
01	1153	7	FEW:02 70 OVC:08 90	5.00	RA:02 BR:1 |RA |RA	62	16.7	60	15.6	59	15.0	90	6	210		28.91			29.86	FM-15	0.10	29.87

01	1253	7	FEW:02 75 BKN:07 100 OVC:08 110	10.00	-RA:02 |RA |RA	63	17.2	62	16.7	62	16.7	97	5	250		28.89	8	+0.02	29.85	FM-15	0.03	29.85
01	1353	7	FEW:02 30 BKN:07 70 OVC:08 90	7.00	-RA:02 |RA |RA	63	17.2	62	16.7	62	16.7	97	8	180		28.90			29.85	FM-15	0.04	29.86
01	1453	7	CLR:00	10.00		64	17.8	63	17.2	63	17.2	96	3	VRB		28.88			29.83	FM-15	T	29.84
01	1553	7	CLR:00	10.00		64	17.8	64	17.8	64	17.8	100	3	VRB		28.89	5	0.00	29.84	FM-15	0.00	29.85
01	1606	7	SCT:04 9	10.00		65	18.3	65	18.3	65	18.3	100	0	000		28.89				FM-16		29.85
01	1625	7	BKN:07 9	10.00		65	18.3	64	17.8	64	17.8	97	3	140		28.89				FM-16		29.85
01	1634	7	SCT:04 9	10.00		65	18.3	65	18.3	65	18.3	100	0	000		28.89				FM-16		29.85
01	1653	7	SCT:04 10	10.00		66	18.9	66	18.9	66	18.9	100	3	200		28.89			29.84	FM-15	0.00	29.85
01	1750	7	FEW:02 10 BKN:07 19 OVC:08 90	5.00	-RA:02 |RA |RA	64	17.8	62	16.7	61	16.1	88	3	VRB		28.90				FM-16	0.01	29.86
01	1753	7	FEW:02 10 BKN:07 19 OVC:08 85	3.00	RA:02 BR:1 |RA |RA	64	17.8	62	16.7	61	16.1	90	0	000		28.90			29.85	FM-15	0.05	29.86
01	1755	7	SCT:04 12 BKN:07 19 OVC:08 90	2.00V	RA:02 BR:1 |RA |RA	64	17.8	62	16.7	61	16.1	90	0	000		28.90				FM-16	0.02	29.86
01	1801	7	FEW:02 12 BKN:07 50 OVC:08 70	1.25	+RA:02 BR:1 |RA |RA	64	17.8	62	16.7	61	16.1	90	0	000		28.90				FM-16	0.04	29.86
01	1807	7	SCT:04 17 BKN:07 55 OVC:08 85	2.50	-RA:02 BR:1 |RA |RA	64	17.8	62	16.7	61	16.1	90	3	150		28.90				FM-16	0.05	29.86
01	1814	7	SCT:04 15 BKN:07 50 OVC:08 70	7.00	-RA:02 |RA |RA	64	17.8	62	16.7	61	16.1	90	5	360		28.91				FM-16	0.06	29.87
01	1817	7	SCT:04 13 BKN:07 23 OVC:08 80	2.50	+RA:02 BR:1 |RA |RA	64	17.8	62	16.7	61	16.1	90	8	VRB		28.91				FM-16	0.18	29.87
01	1820	7	FEW:02 11 BKN:07 27 OVC:08 85	0.75	+RA:02 BR:1 |RA |RA	62	16.7	61	16.1	60	15.6	93	3	VRB		28.91				FM-16	0.26	29.87
01	1828	7	FEW:02 18 BKN:07 36 OVC:08 75	1.00	RA:02 BR:1 |RA |RA	61	16.1	60	15.6	59	15.0	93	3	030		28.92				FM-16	0.30	29.88
01	1832	7	FEW:02 18 BKN:07 36 OVC:08 55	2.50	RA:02 BR:1 |RA |RA	62	16.7	60	15.6	59	15.0	90	3	360		28.92				FM-16	0.31	29.88
01	1845	7	SCT:04 30 OVC:08 50	4.00	-RA:02 BR:1 |RA |RA	62	16.7	60	15.6	59	15.0	90	0	000		28.92				FM-16	0.33	29.88
01	1853	7	BKN:07 50 OVC:08 60	5.00	-RA:02 BR:1 |RA |RA	62	16.7	61	16.1	61	16.1	96	0	000		28.92	3	-0.03	29.87	FM-15	0.30	29.88
01	1953	7	SCT:04 36 SCT:04 46	10.00		61	16.1	61	16.1	61	16.1	100	5	240		28.93			29.88	FM-15	0.01	29.89
01	2053	7	BKN:07 65	10.00		61	16.1	61	16.1	61	16.1	100	0	000		28.95			29.90	FM-15	0.00	29.91
01	2153	7	FEW:02 50 BKN:07 80 OVC:08 100	8.00	-RA:02 |RA |RA	61	16.1	61	16.1	61	16.1	100	3	290		28.96	1	-0.04	29.91	FM-15	T	29.92
01	2253	7	FEW:02 29 BKN:07 38 BKN:07 47	10.00		61	16.1	61	16.1	61	16.1	100	3	270		28.96			29.91	FM-15	0.01	29.92
01	2353	7	OVC:08 85	10.00	-RA:02 |RA |RA	61	16.1	60	15.6	60	15.6	97	5	320		28.97			29.92	FM-15	T	29.93

U.S. Department of Commerce
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Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Remarks
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Remarks
01	0053	MET11108/01/21 00:53:02 METAR KPEO 010553Z 20003KT 10SM BKN100 14/12 A2991 RMK AO2 SLP124 T01390117 10194 20139 58016
01	0153	MET09308/01/21 01:53:02 METAR KPEO 010653Z 21004KT 10SM FEW120 16/13 A2988 RMK AO2 SLP115 T01560128
01	0253	MET09008/01/21 02:53:02 METAR KPEO 010753Z 20006KT 10SM CLR 16/13 A2987 RMK AO2 SLP110 T01610133
01	0353	MET10608/01/21 03:53:02 METAR KPEO 010853Z 23007KT 10SM FEW044 BKN120 16/13 A2987 RMK AO2 SLP109 T01560133 56013
01	0453	MET10008/01/21 04:53:02 METAR KPEO 010953Z 21006KT 10SM FEW100 BKN120 16/13 A2987 RMK AO2 SLP111 T01610128
01	0553	MET09008/01/21 05:53:02 METAR KPEO 011053Z 23008KT 10SM CLR 16/13 A2987 RMK AO2 SLP112 T01610128
01	0653	MET10808/01/21 06:53:02 METAR KPEO 011153Z 22009KT 10SM CLR 18/13 A2987 RMK AO2 SLP109 T01780133 10178 20139 58000
01	0753	MET09308/01/21 07:53:02 METAR KPEO 011253Z 21007KT 10SM FEW060 19/14 A2986 RMK AO2 SLP106 T01940139
01	0853	MET10408/01/21 08:53:02 METAR KPEO 011353Z 21006KT 10SM BKN060 21/14 A2985 RMK AO2 LTG DSNT W SLP105 T02060139
01	0942	MET12308/01/21 09:42:02 SPECI KPEO 011442Z 20006KT 10SM VCTS SCT043 BKN050 OVC060 20/14 A2984 RMK AO2 LTG DSNT SW AND W T02000139
01	0950	MET12508/01/21 09:50:02 SPECI KPEO 011450Z 22007KT 10SM -TSRA SCT033 BKN041 OVC048 19/14 A2986 RMK AO2 LTG DSNT W RAB44 TSB44 P0000
01	0953	MET14208/01/21 09:53:02 METAR KPEO 011453Z 22009KT 9SM -TSRA SCT033 OVC046 19/14 A2986 RMK AO2 RAB44 TSB44 PRESRR SLP109 P0000 60000 T01940144 53003
01	0958	MET12208/01/21 09:58:02 SPECI KPEO 011458Z 20010KT 1 3/4SM +TSRA FEW018 BKN029 OVC049 18/15 A2988 RMK AO2 PRESRR P0012 T01830150
01	1006	MET11908/01/21 10:06:02 SPECI KPEO 011506Z 18012G21KT 1/2SM +TSRA FG FEW018 BKN030 OVC042 17/16 A2988 RMK AO2 P0027 T01720156
01	1018	MET12808/01/21 10:18:02 SPECI KPEO 011518Z 11005KT 2SM -TSRA BR SCT028 BKN040 OVC080 16/14 A2986 RMK AO2 LTG DSNT NE-S P0035 T01610139
01	1020	MET12808/01/21 10:20:02 SPECI KPEO 011520Z 15004KT 3SM -TSRA BR FEW026 BKN040 OVC090 16/14 A2986 RMK AO2 LTG DSNT NE-S P0036 T01610139
01	1046	MET14508/01/21 10:46:02 SPECI KPEO 011546Z 25004KT 10SM VCTS -RA FEW060 OVC090 17/15 A2987 RMK AO2 LTG DSNT NE AND E AND SW TSE23B25E40 P0036 T01670150
01	1053	MET15208/01/21 10:53:02 METAR KPEO 011553Z 24004KT 10SM VCTS -RA FEW055 OVC090 17/16 A2987 RMK AO2 LTG DSNT NE AND E AND SW TSE23B25E40 SLP113 P0036 T01720156
01	1111	MET13008/01/21 11:11:02 SPECI KPEO 011611Z 21004KT 6SM -RA BR FEW055 SCT070 OVC090 17/16 A2988 RMK AO2 LTG DSNT NE AND E P0002 T01720161
01	1124	MET12908/01/21 11:24:02 SPECI KPEO 011624Z 23005KT 2SM +RA BR SCT039 BKN050 OVC090 17/16 A2987 RMK AO2 LTG DSNT E AND S P0005 T01670161
01	1132	MET13808/01/21 11:32:02 SPECI KPEO 011632Z 24006KT 2 1/2SM VCTS RA BR FEW039 BKN075 OVC095 17/16 A2987 RMK AO2 LTG DSNT S AND SW P0007 T01670161
01	1140	MET13508/01/21 11:40:02 SPECI KPEO 011640Z VRB05KT 5SM VCTS -RA BR FEW036 SCT050 OVC085 17/15 A2987 RMK AO2 LTG DSNT S AND SW P0008 T01670150
01	1151	MET12408/01/21 11:51:02 SPECI KPEO 011651Z 20005KT 5SM RA BR FEW055 SCT080 OVC090 17/15 A2987 RMK AO2 LTG DSNT S AND SW P0009 FIBI
01	1153	MET12908/01/21 11:53:02 METAR KPEO 011653Z 21005KT 5SM RA BR FEW070 OVC090 17/15 A2987 RMK AO2 LTG DSNT S AND SW SLP111 P0009 T01670150
01	1253	MET15508/01/21 12:53:02 METAR KPEO 011753Z 25004KT 10SM -RA FEW075 BKN100 OVC110 17/17 A2985 RMK AO2 LTG DSNT E-SW SLP107 P0004 60049 T01720167 10206 20161 58007
01	1353	MET12708/01/21 13:53:02 METAR KPEO 011853Z 18007KT 7SM -RA FEW030 BKN070 OVC090 17/17 A2986 RMK AO2 LTG DSNT S SLP108 P0004 T01720167
01	1453	MET10208/01/21 14:53:02 METAR KPEO 011953Z VRB03KT 10SM CLR 18/17 A2984 RMK AO2 RAE27 SLP103 P0000 T01780172
01	1553	MET10208/01/21 15:53:02 METAR KPEO 012053Z VRB03KT 10SM CLR 18/18 A2985 RMK AO2 SLP106 60004 T01780178 55001
01	1606	MET08608/01/21 16:06:02 SPECI KPEO 012106Z 00000KT 10SM SCT009 18/18 A2985 RMK AO2 T01830183
01	1625	MET08608/01/21 16:25:02 SPECI KPEO 012125Z 14003KT 10SM BKN009 18/18 A2985 RMK AO2 T01830178
01	1634	MET08608/01/21 16:34:02 SPECI KPEO 012134Z 00000KT 10SM SCT009 18/18 A2985 RMK AO2 T01830183
01	1653	MET09308/01/21 16:53:02 METAR KPEO 012153Z 20003KT 10SM SCT010 19/19 A2985 RMK AO2 SLP105 T01890189
01	1750	MET13508/01/21 17:50:02 SPECI KPEO 012250Z VRB03KT 5SM -RA FEW010 BKN019 OVC090 18/16 A2986 RMK AO2 LTG DSNT SW AND W RAB42 CIG 015V033 P0001
01	1753	MET14208/01/21 17:53:02 METAR KPEO 012253Z 00000KT 3SM RA BR FEW010 BKN019 OVC085 18/16 A2986 RMK AO2 LTG DSNT SW AND W RAB42 SLP108 P0001 T01780161
01	1755	MET13908/01/21 17:55:02 SPECI KPEO 012255Z 00000KT 2SM RA BR SCT012 BKN019 OVC090 18/16 A2986 RMK AO2 VIS 3/4V5 LTG DSNT SW AND W P0002 T01780161
01	1801	MET12708/01/21 18:01:02 SPECI KPEO 012301Z 00000KT 1 1/4SM +RA BR FEW012 BKN050 OVC070 18/16 A2986 RMK AO2 LTG DSNT W P0004 T01780161
01	1807	MET11608/01/21 18:07:02 SPECI KPEO 012307Z 15003KT 2 1/2SM -RA BR SCT017 BKN055 OVC085 18/16 A2986 RMK AO2 P0005 T01780161
01	1814	MET10908/01/21 18:14:02 SPECI KPEO 012314Z 36004KT 7SM -RA SCT015 BKN050 OVC070 18/16 A2987 RMK AO2 P0006 T01780161
01	1817	MET11608/01/21 18:17:02 SPECI KPEO 012317Z 36007KT 2 1/2SM +RA BR SCT013 BKN023 OVC080 18/16 A2987 RMK AO2 P0018 T01780161
01	1820	MET11408/01/21 18:20:02 SPECI KPEO 012320Z VRB03KT 3/4SM +RA BR FEW011 BKN027 OVC085 17/16 A2987 RMK AO2 P0026 T01670156
01	1828	MET11108/01/21 18:28:02 SPECI KPEO 012328Z 03003KT 1SM RA BR FEW018 BKN036 OVC075 16/15 A2988 RMK AO2 P0030 T01610150
01	1832	MET11508/01/21 18:32:02 SPECI KPEO 012332Z 36003KT 2 1/2SM RA BR FEW018 BKN036 OVC055 17/15 A2988 RMK AO2 P0031 T01670150
01	1845	MET10508/01/21 18:45:02 SPECI KPEO 012345Z 00000KT 4SM -RA BR SCT030 OVC050 17/15 A2988 RMK AO2 P0033 T01670150
01	1853	MET13608/01/21 18:53:02 METAR KPEO 012353Z 00000KT 5SM -RA BR BKN050 OVC060 17/16 A2988 RMK AO2 SLP116 P0033 60038 T01670161 10194 20161 53009
01	1953	MET11208/01/21 19:53:01 METAR KPEO 020053Z 24004KT 10SM SCT036 SCT046 16/16 A2989 RMK AO2 RAE38 SLP119 P0002 T01610161
01	2053	MET10408/01/21 20:53:01 METAR KPEO 020153Z 00000KT 10SM BKN065 16/16 A2991 RMK AO2 LTG DSNT W SLP126 T01610161
01	2153	MET13408/01/21 21:53:01 METAR KPEO 020253Z 29003KT 8SM -RA FEW050 BKN080 OVC100 16/16 A2992 RMK AO2 RAB41 SLP129 P0000 60002 T01610161 51013
01	2253	MET11908/01/21 22:53:02 METAR KPEO 020353Z 27003KT 10SM FEW029 BKN038 BKN047 16/16 A2992 RMK AO2 RAE10 SLP130 P0001 T01610161
01	2353	MET11908/01/21 23:53:02 METAR KPEO 020453Z 32004KT 10SM -RA OVC085 16/16 A2993 RMK AO2 RAB24 SLP133 P0000 T01610156 402060139

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
02	0014	7	SCT:04 8 BKN:07 12 OVC:08 85	10.00	-RA:02 |RA |RA	61	16.1	60	15.6	60	15.6	97	0	000		28.97				FM-16	T	29.93
02	0029	7	BKN:07 9 OVC:08 80	10.00	-RA:02 |RA |RA	61	16.1	59	15.0	58	14.4	90	0	000		28.97				FM-16	T	29.93
02	0048	7	FEW:02 9 SCT:04 47 BKN:07 75	10.00	-RA:02 |RA |RA	61	16.1	59	15.0	57	13.9	88	6	300		28.97				FM-16	0.01	29.94
02	0053	7	FEW:02 11 SCT:04 47 BKN:07 90	10.00		60	15.6	58	14.4	57	13.9	90	5	300		28.97	1	-0.01	29.93	FM-15	0.01	29.94
02	0153	7	BKN:07 32 OVC:08 48	10.00		60	15.6	58	14.4	57	13.9	90	5	300		28.97			29.93	FM-15	0.00	29.94
02	0253	7	OVC:08 42	10.00		60	15.6	58	14.4	57	13.9	90	6	290		28.99			29.95	FM-15	0.00	29.95
02	0353	7	CLR:00	10.00		60	15.6	58	14.4	57	13.9	90	5	VRB		29.00	3	-0.03	29.96	FM-15	0.00	29.97
02	0453	7	CLR:00	10.00		59	15.0	57	13.9	56	13.3	90	6	290		29.03			29.98	FM-15	0.00	29.99
02	0553	7	CLR:00	10.00		60	15.6	58	14.4	57	13.9	90	6	VRB		29.05			30.00	FM-15	0.00	30.01
02	0653	7	CLR:00	10.00		62	16.7	59	15.0	57	13.9	84	6	VRB		29.05	1	-0.05	30.01	FM-15	0.00	30.02
02	0753	7	FEW:02 13	10.00		64	17.8	60	15.6	57	13.9	78	10	320	20	29.07			30.03	FM-15	0.00	30.04
02	0853	7	CLR:00	10.00		66	18.9	60	15.6	56	13.3	70	10	290		29.08			30.04	FM-15	0.00	30.05
02	0953	7	CLR:00	10.00		69	20.6	61	16.1	56	13.3	63	5	270		29.10	3	-0.05	30.06	FM-15	0.00	30.07
02	1053	7	FEW:02 50	10.00		71	21.7	59	15.0	50	10.0	47	14	320		29.11			30.06	FM-15	0.00	30.08
02	1153	7	FEW:02 48 SCT:04 65	10.00		69	20.6	58	14.4	50	10.0	51	10	320	17	29.11			30.07	FM-15	0.00	30.08
02	1253	7	FEW:02 50	10.00		72	22.2	59	15.0	50	10.0	46	13	330	20	29.11	0	-0.01	30.06	FM-15	0.00	30.08
02	1353	7	FEW:02 55	10.00		72	22.2	59	15.0	48	8.9	43	11	310	21	29.11			30.06	FM-15	0.00	30.08
02	1453	7	CLR:00	10.00		73	22.8	58	14.4	47	8.3	40	8	VRB		29.11			30.06	FM-15	0.00	30.08
02	1553	7	CLR:00	10.00		73	22.8	58	14.4	47	8.3	40	10	310	21	29.11	6	0.00	30.06	FM-15	0.00	30.08
02	1653	7	CLR:00	10.00		73	22.8	58	14.4	46	7.8	38	9	320		29.11			30.07	FM-15	0.00	30.08
02	1753	7	CLR:00	10.00		71	21.7	57	13.9	46	7.8	41	6	310		29.12			30.07	FM-15	0.00	30.09
02	1853	7	CLR:00	10.00		68	20.0	57	13.9	48	8.9	49	3	310		29.13	3	-0.02	30.09	FM-15	0.00	30.10
02	1953	7	CLR:00	9.00		57	13.9	53	11.7	50	10.0	78	0	000		29.13			30.09	FM-15	0.00	30.10
02	2053	7	CLR:00	10.00		57	13.9	53	11.7	50	10.0	78	0	000		29.15			30.11	FM-15	0.00	30.12
02	2153	7	CLR:00	10.00		55	12.8	52	11.1	50	10.0	83	3	190		29.15	0	-0.02	30.11	FM-15	0.00	30.12
02	2253	7	CLR:00	10.00		57	13.9	54	12.2	52	11.1	83	0	000		29.15			30.11	FM-15	0.00	30.12
02	2353	7	CLR:00	10.00		57	13.9	55	12.8	53	11.7	87	7	210		29.17			30.14	FM-15	0.00	30.14

U.S. Department of Commerce
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Hourly Remarks
August 2021

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National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Remarks
02	0014	MET11008/02/21 00:14:02 SPECI KPEO 020514Z 00000KT 10SM -RA SCT008 BKN012 OVC085 16/16 A2993 RMK AO2 P0000 T01610156
02	0029	MET10308/02/21 00:29:02 SPECI KPEO 020529Z 00000KT 10SM -RA BKN009 OVC080 16/14 A2993 RMK AO2 P0000 T01610144
02	0048	MET10008/02/21 00:48:02 SPECI KPEO 020548Z 30005KT 10SM -RA FEW009 SCT047 BKN075 16/14 A2994 RMK AO2 P0001
02	0053	MET14308/02/21 00:53:02 METAR KPEO 020553Z 30004KT 10SM FEW011 SCT047 BKN090 16/14 A2994 RMK AO2 RAE53 SLP135 P0001 60004 T01560139 10172 20156 51005
02	0153	MET10008/02/21 01:53:02 METAR KPEO 020653Z 30004KT 10SM BKN032 OVC048 16/14 A2994 RMK AO2 SLP136 T01560139
02	0253	MET09308/02/21 02:53:02 METAR KPEO 020753Z 29005KT 10SM OVC042 16/14 A2995 RMK AO2 SLP141 T01560139
02	0353	MET09608/02/21 03:53:02 METAR KPEO 020853Z VRB04KT 10SM CLR 16/14 A2997 RMK AO2 SLP146 T01560139 53010
02	0453	MET09008/02/21 04:53:02 METAR KPEO 020953Z 29005KT 10SM CLR 15/13 A2999 RMK AO2 SLP151 T01500133
02	0553	MET09008/02/21 05:53:02 METAR KPEO 021053Z VRB05KT 10SM CLR 16/14 A3001 RMK AO2 SLP158 T01560139
02	0653	MET11408/02/21 06:53:02 METAR KPEO 021153Z VRB05KT 10SM CLR 17/14 A3002 RMK AO2 SLP163 70091 T01670139 10167 20150 51017
02	0753	MET09608/02/21 07:53:02 METAR KPEO 021253Z 32009G17KT 10SM FEW013 18/14 A3004 RMK AO2 SLP168 T01780139
02	0853	MET09008/02/21 08:53:02 METAR KPEO 021353Z 29009KT 10SM CLR 19/13 A3005 RMK AO2 SLP173 T01890133
02	0953	MET09808/02/21 09:53:02 METAR KPEO 021453Z 27004KT 10SM CLR 21/13 A3007 RMK AO2 SLP179 T02060133 53017 $
02	1053	MET09308/02/21 10:53:02 METAR KPEO 021553Z 32012KT 10SM FEW050 22/10 A3008 RMK AO2 SLP180 T02170100
02	1153	MET10308/02/21 11:53:02 METAR KPEO 021653Z 32009G15KT 10SM FEW048 SCT065 21/10 A3008 RMK AO2 SLP183 T02060100
02	1253	MET11408/02/21 12:53:02 METAR KPEO 021753Z 33011G17KT 10SM FEW050 22/10 A3008 RMK AO2 SLP181 T02220100 10228 20167 50003
02	1353	MET09608/02/21 13:53:02 METAR KPEO 021853Z 31010G18KT 10SM FEW055 22/09 A3008 RMK AO2 SLP180 T02220089
02	1453	MET09008/02/21 14:53:02 METAR KPEO 021953Z 30007KT 10SM CLR 23/08 A3008 RMK AO2 SLP180 T02280083
02	1553	MET09908/02/21 15:53:02 METAR KPEO 022053Z 31009G18KT 10SM CLR 23/08 A3008 RMK AO2 SLP180 T02280083 56001
02	1653	MET09008/02/21 16:53:02 METAR KPEO 022153Z 32008KT 10SM CLR 23/08 A3008 RMK AO2 SLP182 T02280078
02	1753	MET09008/02/21 17:53:02 METAR KPEO 022253Z 31005KT 10SM CLR 22/08 A3009 RMK AO2 SLP183 T02170078
02	1853	MET10808/02/21 18:53:02 METAR KPEO 022353Z 31003KT 10SM CLR 20/09 A3010 RMK AO2 SLP188 T02000089 10233 20200 53007
02	1953	MET08908/02/21 19:53:01 METAR KPEO 030053Z 00000KT 9SM CLR 14/10 A3010 RMK AO2 SLP191 T01390100
02	2053	MET09008/02/21 20:53:01 METAR KPEO 030153Z 00000KT 10SM CLR 14/10 A3012 RMK AO2 SLP197 T01390100
02	2153	MET09608/02/21 21:53:02 METAR KPEO 030253Z 19003KT 10SM CLR 13/10 A3012 RMK AO2 SLP196 T01280100 50007
02	2253	MET09008/02/21 22:53:02 METAR KPEO 030353Z 00000KT 10SM CLR 14/11 A3012 RMK AO2 SLP198 T01390111
02	2353	MET10008/02/21 23:53:02 METAR KPEO 030453Z 21006KT 10SM CLR 14/12 A3014 RMK AO2 SLP206 T01390117 402330122

U.S. Department of Commerce
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Local Climatological Data
Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
03	0053	7	CLR:00	10.00		56	13.3	54	12.2	52	11.1	87	5	230		29.16	0	-0.02	30.13	FM-15	0.00	30.13
03	0153	7	CLR:00	10.00		55	12.8	53	11.7	51	10.6	87	5	220		29.16			30.12	FM-15	0.00	30.13
03	0253	7	CLR:00	10.00		54	12.2	52	11.1	51	10.6	90	6	220		29.16			30.12	FM-15	0.00	30.13
03	0353	7	CLR:00	10.00		54	12.2	52	11.1	51	10.6	90	6	220		29.16	6	+0.01	30.12	FM-15	0.00	30.13
03	0453	7	CLR:00	10.00		54	12.2	52	11.1	51	10.6	90	6	230		29.17			30.13	FM-15	0.00	30.14
03	0553	7	CLR:00	10.00		55	12.8	53	11.7	52	11.1	90	7	220		29.17			30.14	FM-15	0.00	30.14
03	0653	7	CLR:00	10.00		59	15.0	56	13.3	53	11.7	81	9	230		29.17	1	-0.01	30.14	FM-15	0.00	30.14
03	0753	7	CLR:00	10.00		63	17.2	57	13.9	52	11.1	68	10	220		29.18			30.14	FM-15	0.00	30.15
03	0853	7	CLR:00	10.00		68	20.0	60	15.6	54	12.2	61	9	210		29.18			30.14	FM-15	0.00	30.15
03	0953	7	CLR:00	10.00		72	22.2	61	16.1	53	11.7	52	0	000		29.18	0	0.00	30.14	FM-15	0.00	30.15
03	1053	7	FEW:02 48 BKN:07 65	10.00		74	23.3	62	16.7	53	11.7	48	3	240		29.18			30.13	FM-15	0.00	30.15
03	1153	7	FEW:02 50 FEW:02 70	10.00		76	24.4	62	16.7	53	11.7	45	0	000		29.17			30.12	FM-15	0.00	30.14
03	1253	7	SCT:04 75	10.00		75	23.9	62	16.7	52	11.1	45	6	220		29.15	8	+0.03	30.11	FM-15	0.00	30.12
03	1353	7	FEW:02 55	10.00		75	23.9	62	16.7	53	11.7	46	3	VRB		29.14			30.09	FM-15	0.00	30.11
03	1453	7	CLR:00	10.00		77	25.0	63	17.2	53	11.7	43	5	270		29.12			30.08	FM-15	0.00	30.09
03	1553	7	FEW:02 55	10.00		76	24.4	62	16.7	53	11.7	45	3	030		29.12	6	+0.04	30.08	FM-15	0.00	30.09
03	1653	7	CLR:00	10.00		76	24.4	62	16.7	52	11.1	43	3	VRB		29.12			30.08	FM-15	0.00	30.09
03	1753	7	CLR:00	10.00		75	23.9	62	16.7	53	11.7	46	0	000		29.12			30.08	FM-15	0.00	30.09
03	1853	7	CLR:00	10.00		69	20.6	63	17.2	59	15.0	70	5	130		29.12	8	0.00	30.07	FM-15	0.00	30.09
03	1953	7	CLR:00	8.00		61	16.1	58	14.4	56	13.3	84	0	000		29.12			30.09	FM-15	0.00	30.09
03	2053	7	CLR:00	10.00		61	16.1	58	14.4	55	12.8	81	3	230		29.14			30.10	FM-15	0.00	30.11
03	2153	7	CLR:00	10.00		62	16.7	59	15.0	56	13.3	80	3	240		29.15	1	-0.04	30.11	FM-15	0.00	30.12
03	2253	7	CLR:00	10.00		61	16.1	59	15.0	57	13.9	87	3	230		29.15			30.11	FM-15	0.00	30.12
03	2353	7	CLR:00	10.00		59	15.0	57	13.9	56	13.3	90	5	250		29.15			30.11	FM-15	0.00	30.12

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151 Patton Avenue
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Date	Time (LST)	Remarks
03	0053	MET10808/03/21 00:53:02 METAR KPEO 030553Z 23004KT 10SM CLR 13/11 A3013 RMK AO2 SLP202 T01330111 10200 20122 50006
03	0153	MET09008/03/21 01:53:02 METAR KPEO 030653Z 22004KT 10SM CLR 13/11 A3013 RMK AO2 SLP199 T01280106
03	0253	MET09008/03/21 02:53:02 METAR KPEO 030753Z 22005KT 10SM CLR 12/11 A3013 RMK AO2 SLP201 T01220106
03	0353	MET09608/03/21 03:53:02 METAR KPEO 030853Z 22005KT 10SM CLR 12/11 A3013 RMK AO2 SLP200 T01220106 56002
03	0453	MET09008/03/21 04:53:02 METAR KPEO 030953Z 23005KT 10SM CLR 12/11 A3014 RMK AO2 SLP203 T01220106
03	0553	MET09008/03/21 05:53:02 METAR KPEO 031053Z 22006KT 10SM CLR 13/11 A3014 RMK AO2 SLP205 T01280111
03	0653	MET10808/03/21 06:53:02 METAR KPEO 031153Z 23008KT 10SM CLR 15/12 A3014 RMK AO2 SLP205 T01500117 10150 20122 51005
03	0753	MET09008/03/21 07:53:02 METAR KPEO 031253Z 22009KT 10SM CLR 17/11 A3015 RMK AO2 SLP208 T01720111
03	0853	MET09008/03/21 08:53:02 METAR KPEO 031353Z 21008KT 10SM CLR 20/12 A3015 RMK AO2 SLP208 T02000122
03	0953	MET09608/03/21 09:53:02 METAR KPEO 031453Z 00000KT 10SM CLR 22/12 A3015 RMK AO2 SLP206 T02220117 50001
03	1053	MET10008/03/21 10:53:02 METAR KPEO 031553Z 24003KT 10SM FEW048 BKN065 23/12 A3015 RMK AO2 SLP203 T02330117
03	1153	MET10008/03/21 11:53:02 METAR KPEO 031653Z 00000KT 10SM FEW050 FEW070 24/12 A3014 RMK AO2 SLP201 T02440117
03	1253	MET11108/03/21 12:53:02 METAR KPEO 031753Z 22005KT 10SM SCT075 24/11 A3012 RMK AO2 SLP196 T02390111 10244 20150 58009
03	1353	MET09308/03/21 13:53:02 METAR KPEO 031853Z VRB03KT 10SM FEW055 24/12 A3011 RMK AO2 SLP191 T02390117
03	1453	MET09008/03/21 14:53:02 METAR KPEO 031953Z 27004KT 10SM CLR 25/12 A3009 RMK AO2 SLP186 T02500117
03	1553	MET09908/03/21 15:53:02 METAR KPEO 032053Z 03003KT 10SM FEW055 24/12 A3009 RMK AO2 SLP185 T02440117 56012
03	1653	MET09008/03/21 16:53:02 METAR KPEO 032153Z VRB03KT 10SM CLR 24/11 A3009 RMK AO2 SLP185 T02440111
03	1753	MET09008/03/21 17:53:02 METAR KPEO 032253Z 00000KT 10SM CLR 24/12 A3009 RMK AO2 SLP186 T02390117
03	1853	MET10808/03/21 18:53:02 METAR KPEO 032353Z 13004KT 10SM CLR 21/15 A3009 RMK AO2 SLP184 T02060150 10256 20206 58000
03	1953	MET08908/03/21 19:53:01 METAR KPEO 040053Z 00000KT 8SM CLR 16/13 A3009 RMK AO2 SLP188 T01610133
03	2053	MET09008/03/21 20:53:01 METAR KPEO 040153Z 23003KT 10SM CLR 16/13 A3011 RMK AO2 SLP194 T01610128
03	2153	MET09608/03/21 21:53:02 METAR KPEO 040253Z 24003KT 10SM CLR 17/13 A3012 RMK AO2 SLP195 T01670133 51012
03	2253	MET09008/03/21 22:53:02 METAR KPEO 040353Z 23003KT 10SM CLR 16/14 A3012 RMK AO2 SLP195 T01610139
03	2353	MET10008/03/21 23:53:02 METAR KPEO 040453Z 25004KT 10SM CLR 15/13 A3012 RMK AO2 SLP197 T01500133 402560122

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
04	0053	7	CLR:00	10.00		60	15.6	58	14.4	57	13.9	90	3	210		29.15	8	0.00	30.11	FM-15	0.00	30.12
04	0153	7	CLR:00	10.00		59	15.0	57	13.9	56	13.3	90	3	230		29.15			30.10	FM-15	0.00	30.12
04	0253	7	CLR:00	10.00		59	15.0	57	13.9	56	13.3	90	6	240		29.15			30.11	FM-15	0.00	30.12
04	0353	7	CLR:00	10.00		58	14.4	56	13.3	55	12.8	90	5	230		29.16	3	-0.01	30.11	FM-15	0.00	30.13
04	0453	7	CLR:00	10.00		57	13.9	56	13.3	55	12.8	93	6	210		29.17			30.13	FM-15	0.00	30.14
04	0553	7	CLR:00	10.00		58	14.4	57	13.9	56	13.3	93	3	230		29.18			30.14	FM-15	0.00	30.15
04	0653	7	CLR:00	10.00		61	16.1	59	15.0	57	13.9	87	6	220		29.19	2	-0.03	30.15	FM-15	0.00	30.16
04	0753	7	CLR:00	10.00		62	16.7	59	15.0	57	13.9	84	5	220		29.21			30.17	FM-15	0.00	30.18
04	0853	7	CLR:00	10.00		68	20.0	62	16.7	58	14.4	70	5	260		29.20			30.16	FM-15	0.00	30.17
04	0953	7	CLR:00	10.00		72	22.2	62	16.7	56	13.3	57	0	000		29.21	1	-0.01	30.16	FM-15	0.00	30.18
04	1053	7	CLR:00	10.00		76	24.4	64	17.8	56	13.3	50	5	VRB		29.20			30.16	FM-15	0.00	30.17
04	1153	7	CLR:00	10.00		78	25.6	64	17.8	55	12.8	45	0	000		29.20			30.15	FM-15	0.00	30.17
04	1253	7	CLR:00	10.00		78	25.6	63	17.2	53	11.7	42	5	110		29.20	6	+0.01	30.15	FM-15	0.00	30.17
04	1353	7	CLR:00	10.00		78	25.6	63	17.2	52	11.1	40	6	110		29.18			30.14	FM-15	0.00	30.15
04	1453	7	CLR:00	10.00		78	25.6	63	17.2	53	11.7	42	5	VRB		29.17			30.12	FM-15	0.00	30.14
04	1553	7	CLR:00	10.00		79	26.1	63	17.2	53	11.7	41	6	100		29.17	6	+0.03	30.12	FM-15	0.00	30.14
04	1653	7	CLR:00	10.00		78	25.6	63	17.2	52	11.1	40	5	090		29.16			30.11	FM-15	0.00	30.13
04	1753	7	CLR:00	10.00		78	25.6	64	17.8	54	12.2	43	5	VRB		29.15			30.11	FM-15	0.00	30.12
04	1853	7	CLR:00	10.00		73	22.8	63	17.2	57	13.9	57	0	000		29.16	5	+0.01	30.11	FM-15	0.00	30.13
04	1921	7	CLR:00	2.00	HZ:7 |FU |HZ	67	19.4	62	16.7	58	14.4	73				29.16				FM-16		30.13
04	1928	7	CLR:00	3.00	HZ:7 |FU |HZ	66	18.9	61	16.1	58	14.4	75	0	000		29.16				FM-16		30.13
04	1953	7	CLR:00	10.00		64	17.8	60	15.6	57	13.9	78	0	000		29.17			30.13	FM-15	0.00	30.14
04	2053	7	CLR:00	10.00		61	16.1	59	15.0	57	13.9	87	0	000		29.18			30.14	FM-15	0.00	30.15
04	2153	7	CLR:00	10.00		61	16.1	59	15.0	57	13.9	87	3	230		29.18	1	-0.02	30.14	FM-15	0.00	30.15
04	2253	7	CLR:00	10.00		62	16.7	60	15.6	58	14.4	86	0	000		29.18			30.14	FM-15	0.00	30.15
04	2353	7	CLR:00	10.00		60	15.6	59	15.0	58	14.4	93	3	250		29.19			30.14	FM-15	0.00	30.16

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service
Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Remarks
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Remarks
04	0053	MET10808/04/21 00:53:02 METAR KPEO 040553Z 21003KT 10SM CLR 16/14 A3012 RMK AO2 SLP195 T01560139 10206 20144 58001
04	0153	MET09008/04/21 01:53:02 METAR KPEO 040653Z 23003KT 10SM CLR 15/13 A3012 RMK AO2 SLP194 T01500133
04	0253	MET09008/04/21 02:53:02 METAR KPEO 040753Z 24005KT 10SM CLR 15/13 A3012 RMK AO2 SLP196 T01500133
04	0353	MET09608/04/21 03:53:02 METAR KPEO 040853Z 23004KT 10SM CLR 14/13 A3013 RMK AO2 SLP198 T01440128 53004
04	0453	MET09008/04/21 04:53:02 METAR KPEO 040953Z 21005KT 10SM CLR 14/13 A3014 RMK AO2 SLP202 T01390128
04	0553	MET09008/04/21 05:53:02 METAR KPEO 041053Z 23003KT 10SM CLR 14/13 A3015 RMK AO2 SLP206 T01440133
04	0653	MET10808/04/21 06:53:02 METAR KPEO 041153Z 22005KT 10SM CLR 16/14 A3016 RMK AO2 SLP210 T01610139 10161 20133 52010
04	0753	MET09008/04/21 07:53:02 METAR KPEO 041253Z 22004KT 10SM CLR 17/14 A3018 RMK AO2 SLP216 T01670139
04	0853	MET09008/04/21 08:53:02 METAR KPEO 041353Z 26004KT 10SM CLR 20/14 A3017 RMK AO2 SLP214 T02000144
04	0953	MET09608/04/21 09:53:02 METAR KPEO 041453Z 00000KT 10SM CLR 22/13 A3018 RMK AO2 SLP214 T02220133 51005
04	1053	MET09008/04/21 10:53:02 METAR KPEO 041553Z VRB04KT 10SM CLR 24/13 A3017 RMK AO2 SLP212 T02440133
04	1153	MET09008/04/21 11:53:02 METAR KPEO 041653Z 00000KT 10SM CLR 26/13 A3017 RMK AO2 SLP211 T02560128
04	1253	MET10808/04/21 12:53:02 METAR KPEO 041753Z 11004KT 10SM CLR 26/12 A3017 RMK AO2 SLP210 T02560117 10261 20161 56004
04	1353	MET09008/04/21 13:53:02 METAR KPEO 041853Z 11005KT 10SM CLR 26/11 A3015 RMK AO2 SLP205 T02560111
04	1453	MET09008/04/21 14:53:02 METAR KPEO 041953Z VRB04KT 10SM CLR 26/12 A3014 RMK AO2 SLP200 T02560117
04	1553	MET09608/04/21 15:53:02 METAR KPEO 042053Z 10005KT 10SM CLR 26/12 A3014 RMK AO2 SLP199 T02610117 56010
04	1653	MET09008/04/21 16:53:02 METAR KPEO 042153Z 09004KT 10SM CLR 26/11 A3013 RMK AO2 SLP196 T02560111
04	1753	MET09008/04/21 17:53:02 METAR KPEO 042253Z VRB04KT 10SM CLR 26/12 A3012 RMK AO2 SLP196 T02560122
04	1853	MET10808/04/21 18:53:02 METAR KPEO 042353Z 00000KT 10SM CLR 23/14 A3013 RMK AO2 SLP198 T02280139 10267 20228 55002
04	1921	MET08508/04/21 19:21:01 SPECI KPEO 050021Z KT 2SM HZ CLR 19/14 A3013 RMK AO2 T01940144
04	1928	MET08508/04/21 19:28:01 SPECI KPEO 050028Z 00000KT 3SM HZ CLR 19/14 A3013 RMK AO2 T01890144
04	1953	MET09008/04/21 19:53:01 METAR KPEO 050053Z 00000KT 10SM CLR 18/14 A3014 RMK AO2 SLP203 T01780139
04	2053	MET09008/04/21 20:53:01 METAR KPEO 050153Z 00000KT 10SM CLR 16/14 A3015 RMK AO2 SLP207 T01610139
04	2153	MET09608/04/21 21:53:02 METAR KPEO 050253Z 23003KT 10SM CLR 16/14 A3015 RMK AO2 SLP206 T01610139 51008
04	2253	MET09008/04/21 22:53:02 METAR KPEO 050353Z 00000KT 10SM CLR 17/14 A3015 RMK AO2 SLP206 T01670144
04	2353	MET10008/04/21 23:53:02 METAR KPEO 050453Z 25003KT 10SM CLR 16/14 A3016 RMK AO2 SLP207 T01560144 402670133

U.S. Department of Commerce
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Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
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Local Climatological Data
Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
05	0053	7	CLR:00	10.00		61	16.1	59	15.0	58	14.4	90	3	220		29.18	8	+0.01	30.13	FM-15	0.00	30.15
05	0153	7	CLR:00	10.00		61	16.1	59	15.0	58	14.4	90	5	220		29.17			30.12	FM-15	0.00	30.14
05	0253	7	CLR:00	10.00		60	15.6	58	14.4	57	13.9	90	3	190		29.16			30.11	FM-15	0.00	30.13
05	0353	7	CLR:00	10.00		58	14.4	57	13.9	56	13.3	93	5	230		29.16	6	+0.02	30.11	FM-15	0.00	30.13
05	0453	7	CLR:00	10.00		59	15.0	57	13.9	56	13.3	90	3	210		29.17			30.12	FM-15	0.00	30.14
05	0553	7	CLR:00	10.00		59	15.0	58	14.4	57	13.9	93	5	230		29.18			30.13	FM-15	0.00	30.15
05	0653	7	CLR:00	10.00		62	16.7	60	15.6	58	14.4	86	5	240		29.19	1	-0.03	30.14	FM-15	0.00	30.16
05	0753	7	CLR:00	10.00		67	19.4	62	16.7	59	15.0	76	6	240		29.19			30.14	FM-15	0.00	30.16
05	0853	6	CLR:00	10.00		72	22.2	65	18.3	60	15.6	66	0	000		29.19			30.14	FM-15	0.00	30.16
05	0953	6	CLR:00	10.00		76	24.4	66	18.9	60	15.6	58	0	000		29.19	3	0.00	30.14	FM-15	0.00	30.16
05	1053	6	CLR:00	10.00		77	25.0	64	17.8	55	12.8	47	3	030		29.19			30.14	FM-15	0.00	30.16
05	1153	6	CLR:00	10.00		79	26.1	66	18.9	58	14.4	49	3	VRB		29.18			30.13	FM-15	0.00	30.15
05	1253	6	CLR:00	10.00		80	26.7	65	18.3	55	12.8	42	3	VRB		29.17	8	+0.02	30.12	FM-15	0.00	30.14
05	1353	6	CLR:00	10.00		80	26.7	64	17.8	53	11.7	39	3	VRB		29.16			30.11	FM-15	0.00	30.13
05	1410	4		10.00		81	27.2			54	12.2	39	0	000						FM-15		30.12
05	1453	6	CLR:00	10.00		81	27.2	65	18.3	54	12.2	39	5	VRB		29.15			30.10	FM-15	0.00	30.12
05	1553	6	CLR:00	10.00		80	26.7	65	18.3	56	13.3	44	5	120		29.14	6	+0.04	30.09	FM-15	0.00	30.11
05	1653	6	CLR:00	10.00		80	26.7	65	18.3	55	12.8	42	0	000		29.14			30.09	FM-15	0.00	30.11
05	1753	7	CLR:00	10.00		79	26.1	65	18.3	57	13.9	47	5	110		29.13			30.08	FM-15	0.00	30.10
05	1853	7	CLR:00	10.00		72	22.2	66	18.9	62	16.7	71	3	130		29.13	5	0.00	30.09	FM-15	0.00	30.10
05	1953	7	CLR:00	9.00		68	20.0	63	17.2	60	15.6	76	0	000		29.14			30.10	FM-15	0.00	30.11
05	2053	7	CLR:00	10.00		64	17.8	60	15.6	58	14.4	81	0	000		29.15			30.11	FM-15	0.00	30.12
05	2153	7	CLR:00	10.00		61	16.1	59	15.0	57	13.9	87	0	000		29.16	1	-0.02	30.11	FM-15	0.00	30.13
05	2253	7	CLR:00	10.00		64	17.8	62	16.7	60	15.6	87	5	240		29.17			30.12	FM-15	0.00	30.14
05	2353	7	FEW:02 75	10.00		63	17.2	61	16.1	59	15.0	87	5	240		29.18			30.13	FM-15	0.00	30.15

U.S. Department of Commerce
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151 Patton Avenue
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Date	Time (LST)	Remarks
05	0053	MET10808/05/21 00:53:02 METAR KPEO 050553Z 22003KT 10SM CLR 16/14 A3015 RMK AO2 SLP203 T01610144 10228 20156 58002
05	0153	MET09008/05/21 01:53:02 METAR KPEO 050653Z 22004KT 10SM CLR 16/14 A3014 RMK AO2 SLP199 T01610144
05	0253	MET09008/05/21 02:53:02 METAR KPEO 050753Z 19003KT 10SM CLR 16/14 A3013 RMK AO2 SLP198 T01560139
05	0353	MET09608/05/21 03:53:02 METAR KPEO 050853Z 23004KT 10SM CLR 14/13 A3013 RMK AO2 SLP197 T01440133 56006
05	0453	MET09008/05/21 04:53:02 METAR KPEO 050953Z 21003KT 10SM CLR 15/13 A3014 RMK AO2 SLP200 T01500133
05	0553	MET09008/05/21 05:53:02 METAR KPEO 051053Z 23004KT 10SM CLR 15/14 A3015 RMK AO2 SLP204 T01500139
05	0653	MET10808/05/21 06:53:02 METAR KPEO 051153Z 24004KT 10SM CLR 17/14 A3016 RMK AO2 SLP207 T01670144 10167 20139 51009
05	0753	MET09008/05/21 07:53:02 METAR KPEO 051253Z 24005KT 10SM CLR 19/15 A3016 RMK AO2 SLP208 T01940150
05	0853	MET10008/05/21 08:53:02 METAR KPEO 051353Z 00000KT 10SM CLR 22/16 A3016 RMK AO2 SLP208 T02220156 TSNO FIBI
05	0953	MET10608/05/21 09:53:02 METAR KPEO 051453Z 00000KT 10SM CLR 24/16 A3016 RMK AO2 SLP207 T02440156 53001 TSNO FIBI
05	1053	MET10008/05/21 10:53:02 METAR KPEO 051553Z 03003KT 10SM CLR 25/13 A3016 RMK AO2 SLP208 T02500128 TSNO FIBI
05	1153	MET10008/05/21 11:53:02 METAR KPEO 051653Z VRB03KT 10SM CLR 26/14 A3015 RMK AO2 SLP203 T02610144 TSNO FIBI
05	1253	MET11808/05/21 12:53:02 METAR KPEO 051753Z VRB03KT 10SM CLR 27/13 A3014 RMK AO2 SLP201 T02670128 10267 20167 58006 TSNO FIBI
05	1353	MET10008/05/21 13:53:02 METAR KPEO 051853Z VRB03KT 10SM CLR 27/12 A3013 RMK AO2 SLP196 T02670117 TSNO FIBI
05	1410	MET048METAR KPEO 051910Z 00000KT 10SM CLR 27/12 A3012=
05	1453	MET10008/05/21 14:53:02 METAR KPEO 051953Z VRB04KT 10SM CLR 27/12 A3012 RMK AO2 SLP192 T02720122 TSNO FIBI
05	1553	MET10608/05/21 15:53:02 METAR KPEO 052053Z 12004KT 10SM CLR 27/13 A3011 RMK AO2 SLP189 T02670133 56012 TSNO FIBI
05	1653	MET10008/05/21 16:53:02 METAR KPEO 052153Z 00000KT 10SM CLR 27/13 A3011 RMK AO2 SLP189 T02670128 TSNO FIBI
05	1753	MET09008/05/21 17:53:02 METAR KPEO 052253Z 11004KT 10SM CLR 26/14 A3010 RMK AO2 SLP187 T02610139
05	1853	MET10808/05/21 18:53:02 METAR KPEO 052353Z 13003KT 10SM CLR 22/17 A3010 RMK AO2 SLP189 T02220167 10278 20222 55001
05	1953	MET08908/05/21 19:53:01 METAR KPEO 060053Z 00000KT 9SM CLR 20/16 A3011 RMK AO2 SLP192 T02000156
05	2053	MET09008/05/21 20:53:01 METAR KPEO 060153Z 00000KT 10SM CLR 18/14 A3012 RMK AO2 SLP197 T01780144
05	2153	MET09608/05/21 21:53:01 METAR KPEO 060253Z 00000KT 10SM CLR 16/14 A3013 RMK AO2 SLP197 T01610139 51008
05	2253	MET09008/05/21 22:53:01 METAR KPEO 060353Z 24004KT 10SM CLR 18/16 A3014 RMK AO2 SLP201 T01780156
05	2353	MET10308/05/21 23:53:01 METAR KPEO 060453Z 24004KT 10SM FEW075 17/15 A3015 RMK AO2 SLP203 T01720150 402780139

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Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
06	0053	7	CLR:00	10.00		63	17.2	61	16.1	60	15.6	90	5	240		29.17	0	-0.01	30.13	FM-15	0.00	30.14
06	0153	7	CLR:00	10.00		62	16.7	60	15.6	59	15.0	90	0	000		29.17			30.12	FM-15	0.00	30.14
06	0253	7	CLR:00	10.00		60	15.6	58	14.4	57	13.9	90	0	000		29.16			30.12	FM-15	0.00	30.13
06	0353	7	CLR:00	10.00		62	16.7	60	15.6	58	14.4	86	3	210		29.16	6	+0.01	30.11	FM-15	0.00	30.13
06	0453	7	CLR:00	10.00		63	17.2	60	15.6	58	14.4	84	7	230		29.17			30.12	FM-15	0.00	30.14
06	0553	7	CLR:00	10.00		64	17.8	61	16.1	59	15.0	84	8	210		29.18			30.13	FM-15	0.00	30.15
06	0653	7	CLR:00	10.00		66	18.9	62	16.7	59	15.0	78	6	220		29.18	1	-0.02	30.14	FM-15	0.00	30.15
06	0753	7	CLR:00	10.00		70	21.1	64	17.8	60	15.6	71	7	220		29.19			30.14	FM-15	0.00	30.16
06	0853	7	CLR:00	10.00		74	23.3	66	18.9	61	16.1	64	8	210		29.19			30.15	FM-15	0.00	30.16
06	0953	7	CLR:00	10.00		77	25.0	66	18.9	60	15.6	56	5	VRB		29.20	1	-0.01	30.15	FM-15	0.00	30.17
06	1053	7	CLR:00	10.00		80	26.7	66	18.9	57	13.9	45	7	230		29.19			30.14	FM-15	0.00	30.16
06	1153	7	CLR:00	10.00		83	28.3	66	18.9	56	13.3	40	9	210		29.17			30.12	FM-15	0.00	30.14
06	1253	7	CLR:00	10.00		85	29.4	67	19.4	56	13.3	37	11	230		29.17	8	+0.03	30.11	FM-15	0.00	30.14
06	1353	7	CLR:00	10.00		85	29.4	67	19.4	56	13.3	37	7	230		29.16			30.10	FM-15	0.00	30.13
06	1453	7	CLR:00	10.00		85	29.4	67	19.4	57	13.9	39	6	270		29.14			30.09	FM-15	0.00	30.11
06	1553	7	CLR:00	10.00		86	30.0	68	20.0	58	14.4	39	5	230		29.13	8	+0.04	30.07	FM-15	0.00	30.10
06	1653	7	CLR:00	10.00		85	29.4	68	20.0	58	14.4	40	5	190		29.12			30.06	FM-15	0.00	30.09
06	1753	7	FEW:02 65	10.00		82	27.8	71	21.7	65	18.3	56	0	000		29.10			30.05	FM-15	0.00	30.07
06	1853	7	CLR:00	10.00		77	25.0	70	21.1	66	18.9	69	0	000		29.10	6	+0.03	30.04	FM-15	0.00	30.07
06	1953	7	FEW:02 85	10.00		74	23.3	68	20.0	64	17.8	71	5	180		29.09			30.04	FM-15	0.00	30.06
06	2053	7	SCT:04 70 BKN:07 85 OVC:08 110	10.00		73	22.8	69	20.6	67	19.4	81	3	230		29.10			30.05	FM-15	0.00	30.07
06	2153	7	FEW:02 65 SCT:04 95 SCT:04 120	10.00		75	23.9	68	20.0	64	17.8	69	5	210		29.10	3	-0.01	30.05	FM-15	0.00	30.07
06	2253	7	CLR:00	10.00		73	22.8	67	19.4	64	17.8	74	8	210		29.11			30.06	FM-15	0.00	30.08
06	2353	7	CLR:00	10.00		72	22.2	66	18.9	63	17.2	73	6	210		29.11			30.06	FM-15	0.00	30.08

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Local Climatological Data
Hourly Remarks
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Date	Time (LST)	Remarks
06	0053	MET10808/06/21 00:53:02 METAR KPEO 060553Z 24004KT 10SM CLR 17/16 A3014 RMK AO2 SLP202 T01720156 10222 20161 50005
06	0153	MET09008/06/21 01:53:02 METAR KPEO 060653Z 00000KT 10SM CLR 17/15 A3014 RMK AO2 SLP199 T01670150
06	0253	MET09008/06/21 02:53:02 METAR KPEO 060753Z 00000KT 10SM CLR 16/14 A3013 RMK AO2 SLP199 T01560139
06	0353	MET09608/06/21 03:53:02 METAR KPEO 060853Z 21003KT 10SM CLR 17/14 A3013 RMK AO2 SLP198 T01670144 56004
06	0453	MET09008/06/21 04:53:02 METAR KPEO 060953Z 23006KT 10SM CLR 17/14 A3014 RMK AO2 SLP200 T01720144
06	0553	MET09008/06/21 05:53:02 METAR KPEO 061053Z 21007KT 10SM CLR 18/15 A3015 RMK AO2 SLP204 T01780150
06	0653	MET10808/06/21 06:53:02 METAR KPEO 061153Z 22005KT 10SM CLR 19/15 A3015 RMK AO2 SLP205 T01890150 10189 20150 51007
06	0753	MET09008/06/21 07:53:02 METAR KPEO 061253Z 22006KT 10SM CLR 21/16 A3016 RMK AO2 SLP208 T02110156
06	0853	MET09008/06/21 08:53:02 METAR KPEO 061353Z 21007KT 10SM CLR 23/16 A3016 RMK AO2 SLP209 T02330161
06	0953	MET09608/06/21 09:53:02 METAR KPEO 061453Z VRB04KT 10SM CLR 25/16 A3017 RMK AO2 SLP209 T02500156 51003
06	1053	MET09008/06/21 10:53:02 METAR KPEO 061553Z 23006KT 10SM CLR 27/14 A3016 RMK AO2 SLP207 T02670139
06	1153	MET09008/06/21 11:53:02 METAR KPEO 061653Z 21008KT 10SM CLR 28/13 A3014 RMK AO2 SLP200 T02830133
06	1253	MET10808/06/21 12:53:02 METAR KPEO 061753Z 23010KT 10SM CLR 29/13 A3014 RMK AO2 SLP198 T02940133 10294 20194 58010
06	1353	MET09008/06/21 13:53:02 METAR KPEO 061853Z 23006KT 10SM CLR 29/13 A3013 RMK AO2 SLP194 T02940133
06	1453	MET09008/06/21 14:53:02 METAR KPEO 061953Z 27005KT 10SM CLR 29/14 A3011 RMK AO2 SLP190 T02940139
06	1553	MET09608/06/21 15:53:02 METAR KPEO 062053Z 23004KT 10SM CLR 30/14 A3010 RMK AO2 SLP184 T03000144 58013
06	1653	MET09008/06/21 16:53:02 METAR KPEO 062153Z 19004KT 10SM CLR 29/14 A3009 RMK AO2 SLP180 T02940144
06	1753	MET09308/06/21 17:53:02 METAR KPEO 062253Z 00000KT 10SM FEW065 28/18 A3007 RMK AO2 SLP176 T02780183
06	1853	MET10808/06/21 18:53:02 METAR KPEO 062353Z 00000KT 10SM CLR 25/19 A3007 RMK AO2 SLP174 T02500189 10300 20244 56010
06	1953	MET09308/06/21 19:53:01 METAR KPEO 070053Z 18004KT 10SM FEW085 23/18 A3006 RMK AO2 SLP173 T02330178
06	2053	MET10708/06/21 20:53:01 METAR KPEO 070153Z 23003KT 10SM SCT070 BKN085 OVC110 23/19 A3007 RMK AO2 SLP176 T02280194
06	2153	MET11308/06/21 21:53:01 METAR KPEO 070253Z 21004KT 10SM FEW065 SCT095 SCT120 24/18 A3007 RMK AO2 SLP175 T02390178 53002
06	2253	MET09008/06/21 22:53:02 METAR KPEO 070353Z 21007KT 10SM CLR 23/18 A3008 RMK AO2 SLP178 T02280178
06	2353	MET10008/06/21 23:53:02 METAR KPEO 070453Z 21005KT 10SM CLR 22/17 A3008 RMK AO2 SLP179 T02220172 403000150

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

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Hourly Observations
August 2021

Generated on 02/22/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Current Location: Elev: 877 ft. Lat: 42.6441° N Lon: -77.0529° W
Station: **PENN YAN AIRPORT, NY US WBAN: 72519454778 (KPEO)**

Date	Time (LST)	Station Type	Sky Conditions	Visibility	Weather Type (see documentation)	Dry Bulb Temp		Wet Bulb Temp		Dew Point Temp		Rel Hum %	Wind Speed (MPH)	Wind Dir (Deg)	Wind Gusts (MPH)	Station Press (inHg)	Press. Tend	Net 3-Hr Change (inHg)	Sea Level Press. (inHg)	Report Type	Precip Total (in)	Altimeter Setting (inHg)
					AU | AW | MW	(F)	(C)	(F)	(C)	(F)	(C)											
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
07	0053	7	CLR:00	10.00		70	21.1	66	18.9	64	17.8	82	6	230		29.10	0	0.00	30.05	FM-15	0.00	30.07
07	0153	7	CLR:00	10.00		71	21.7	66	18.9	63	17.2	76	8	210		29.09			30.04	FM-15	0.00	30.06
07	0253	7	CLR:00	10.00		69	20.6	66	18.9	64	17.8	84	7	220		29.08			30.03	FM-15	0.00	30.05
07	0353	7	CLR:00	10.00		69	20.6	66	18.9	64	17.8	84	8	220		29.09	5	+0.01	30.03	FM-15	0.00	30.06
07	0453	7	CLR:00	10.00		69	20.6	65	18.3	63	17.2	81	9	220		29.10			30.04	FM-15	0.00	30.07
07	0553	7	CLR:00	8.00		68	20.0	65	18.3	64	17.8	87	6	220		29.10			30.05	FM-15	0.00	30.07
07	0653	7	CLR:00	10.00		71	21.7	65	18.3	62	16.7	73	7	200		29.11	1	-0.02	30.06	FM-15	0.00	30.08
07	0753	7	CLR:00	10.00		74	23.3	68	20.0	64	17.8	71	6	210		29.11			30.06	FM-15	0.00	30.08
07	0853	7	CLR:00	10.00		77	25.0	69	20.6	64	17.8	64	6	220		29.10			30.04	FM-15	0.00	30.07
07	0953	7	CLR:00	10.00		79	26.1	69	20.6	64	17.8	60	6	200		29.10	6	+0.01	30.04	FM-15	0.00	30.07
07	1053	7	CLR:00	10.00		81	27.2	69	20.6	63	17.2	54	3	220		29.09			30.03	FM-15	0.00	30.06
07	1153	7	CLR:00	10.00		83	28.3	70	21.1	63	17.2	51	5	VRB		29.08			30.03	FM-15	0.00	30.05
07	1253	7	BKN:07 55 BKN:07 70	10.00		84	28.9	71	21.7	65	18.3	53	3	VRB		29.08	6	+0.01	30.02	FM-15	0.00	30.05
07	1353	7	FEW:02 60 FEW:02 95 SCT:04 120	10.00		83	28.3	70	21.1	63	17.2	51	0	000		29.07			30.01	FM-15	T	30.04
07	1453	7	SCT:04 38 BKN:07 50 BKN:07 60	3.00	+RA:02 |RA |RA	75	23.9	70	21.1	67	19.4	76	6	VRB		29.07			30.01	FM-15	0.10	30.04
07	1455	7	SCT:04 39 BKN:07 50 BKN:07 60	2.00	+RA:02 |RA |RA	74	23.3	70	21.1	68	20.0	82	8	310		29.07				FM-16	0.01	30.04
07	1500	7	BKN:07 41 BKN:07 50 BKN:07 80	1.00	TS:7 +RA:02 |RA TS TS |RA	72	22.2	68	20.0	66	18.9	82	9	VRB	17	29.07				FM-16	0.09	30.04
07	1508	7	SCT:04 31 BKN:07 40 OVC:08 55	0.50	TS:7 +RA:02 FG:2 |FG RA TS |RA	70	21.1	68	20.0	67	19.4	90	7	030		29.05				FM-16	0.22	30.02
07	1516	7	SCT:04 36 BKN:07 55 OVC:08 90	3.00	TS:7 -RA:02 BR:1 |RA TS |RA	72	22.2	69	20.6	68	20.0	87	8	030		29.06				FM-16	0.22	30.03
07	1526	7	SCT:04 33 BKN:07 60 OVC:08 75	3.00	+RA:02 BR:1 |RA |RA	72	22.2	69	20.6	68	20.0	87	10	020		29.06				FM-16	0.24	30.03
07	1553	7	SCT:04 50 SCT:04 75 BKN:07 100	10.00		74	23.3	71	21.7	69	20.6	85	0	000		29.06	6	+0.02	30.01	FM-15	0.17	30.03
07	1653	7	FEW:02 44 FEW:02 110	10.00		75	23.9	69	20.6	66	18.9	74	11	230		29.06			30.01	FM-15	0.00	30.03
07	1753	7	CLR:00	10.00		74	23.3	69	20.6	66	18.9	76	6	250		29.05			30.00	FM-15	0.00	30.02
07	1853	7	FEW:02 110	10.00	-RA:02 |RA |RA	72	22.2	69	20.6	67	19.4	84	8	230		29.07	3	-0.01	30.02	FM-15	T	30.04
07	1953	7	FEW:02 46 SCT:04 100 BKN:07 120	10.00	-RA:02 |RA |RA	71	21.7	68	20.0	66	18.9	84	9	180		29.07			30.01	FM-15	T	30.04
07	2053	7	CLR:00	10.00		71	21.7	68	20.0	67	19.4	87	6	220		29.08			30.03	FM-15	T	30.05
07	2153	7	CLR:00	9.00		71	21.7	68	20.0	67	19.4	87	3	210		29.08	3	-0.01	30.02	FM-15	0.00	30.05
07	2253	7	CLR:00	8.00		70	21.1	68	20.0	67	19.4	90	0	000		29.07			30.02	FM-15	0.00	30.04
07	2353	7	CLR:00	9.00		67	19.4	66	18.9	65	18.3	93	5	170		29.07			30.02	FM-15	0.00	30.04

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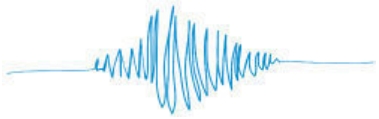
National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

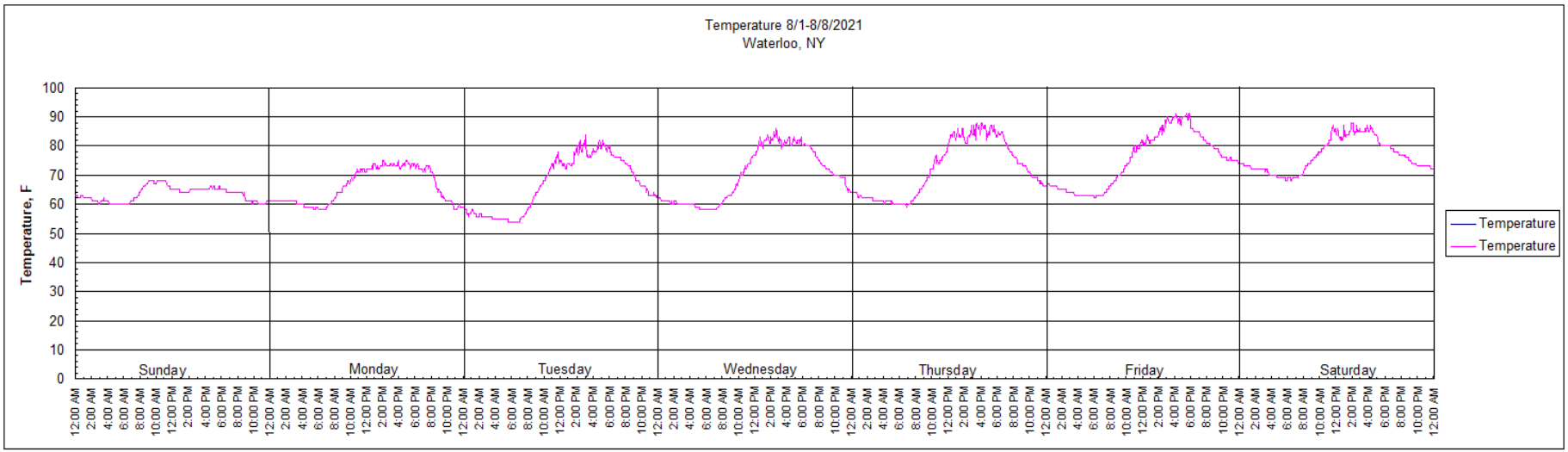
Date	Time (LST)	Remarks
07	0053	MET10808/07/21 00:53:02 METAR KPEO 070553Z 23005KT 10SM CLR 21/18 A3007 RMK AO2 SLP175 T02110178 10256 20211 50001
07	0153	MET09008/07/21 01:53:02 METAR KPEO 070653Z 21007KT 10SM CLR 22/17 A3006 RMK AO2 SLP172 T02170172
07	0253	MET09008/07/21 02:53:02 METAR KPEO 070753Z 22006KT 10SM CLR 21/18 A3005 RMK AO2 SLP170 T02060178
07	0353	MET09608/07/21 03:53:02 METAR KPEO 070853Z 22007KT 10SM CLR 21/18 A3006 RMK AO2 SLP170 T02060178 55005
07	0453	MET09008/07/21 04:53:02 METAR KPEO 070953Z 22008KT 10SM CLR 21/17 A3007 RMK AO2 SLP173 T02060172
07	0553	MET08908/07/21 05:53:02 METAR KPEO 071053Z 22005KT 8SM CLR 20/18 A3007 RMK AO2 SLP176 T02000178
07	0653	MET10808/07/21 06:53:02 METAR KPEO 071153Z 20006KT 10SM CLR 22/17 A3008 RMK AO2 SLP179 T02170167 10217 20200 51008
07	0753	MET09008/07/21 07:53:02 METAR KPEO 071253Z 21005KT 10SM CLR 23/18 A3008 RMK AO2 SLP178 T02330178
07	0853	MET09008/07/21 08:53:02 METAR KPEO 071353Z 22005KT 10SM CLR 25/18 A3007 RMK AO2 SLP173 T02500178
07	0953	MET09608/07/21 09:53:02 METAR KPEO 071453Z 20005KT 10SM CLR 26/18 A3007 RMK AO2 SLP173 T02610178 56005
07	1053	MET09008/07/21 10:53:02 METAR KPEO 071553Z 22003KT 10SM CLR 27/17 A3006 RMK AO2 SLP170 T02720172
07	1153	MET09008/07/21 11:53:02 METAR KPEO 071653Z VRB04KT 10SM CLR 28/17 A3005 RMK AO2 SLP168 T02830172
07	1253	MET12908/07/21 12:53:02 METAR KPEO 071753Z VRB03KT 10SM BKN055 BKN070 29/18 A3005 RMK AO2 LTG DSNT S SLP167 T02890183 10289 20217 56005
07	1353	MET11808/07/21 13:53:02 METAR KPEO 071853Z 00000KT 10SM FEW060 FEW095 SCT120 28/17 A3004 RMK AO2 LTG DSNT S SLP163 T02830172
07	1453	MET13008/07/21 14:53:02 METAR KPEO 071953Z VRB05KT 3SM +RA SCT038 BKN050 BKN060 24/19 A3004 RMK AO2 RAB1856E11B51 SLP164 P0003 T02390194
07	1455	MET10908/07/21 14:55:02 SPECI KPEO 071955Z 31007KT 2SM +RA SCT039 BKN050 BKN060 23/20 A3004 RMK AO2 P0001 T02330200
07	1500	MET12008/07/21 15:00:02 SPECI KPEO 072000Z 32008G15KT 1SM +TSRA BKN041 BKN050 BKN080 22/19 A3004 RMK AO2 TSB00 P0009 T02220189
07	1508	MET12208/07/21 15:08:02 SPECI KPEO 072008Z 03006KT 1/2SM +TSRA FG SCT031 BKN040 OVC055 21/19 A3002 RMK AO2 TSB00 P0022 T02110194
07	1516	MET13208/07/21 15:16:02 SPECI KPEO 072016Z 03007KT 3SM -TSRA BR SCT036 BKN055 OVC090 22/20 A3003 RMK AO2 LTG DSNT SW TSB00 P0022 T02220200
07	1526	MET13308/07/21 15:26:02 SPECI KPEO 072026Z 02009KT 3SM +RA BR SCT033 BKN060 OVC075 22/20 A3003 RMK AO2 LTG DSNT SW TSB00E20 P0024 T02220200
07	1553	MET15208/07/21 15:53:02 METAR KPEO 072053Z 00000KT 10SM SCT050 SCT075 BKN100 23/21 A3003 RMK AO2 LTG DSNT SW RAE51 TSB00E20 SLP161 P0024 60027 T02330206 56007
07	1653	MET10008/07/21 16:53:02 METAR KPEO 072153Z 23010KT 10SM FEW044 FEW110 24/19 A3003 RMK AO2 SLP163 T02390189
07	1753	MET10208/07/21 17:53:02 METAR KPEO 072253Z 25005KT 10SM CLR 23/19 A3002 RMK AO2 LTG DSNT NW SLP160 T02330189
07	1853	MET14408/07/21 18:53:02 METAR KPEO 072353Z 23007KT 10SM -RA FEW110 22/19 A3004 RMK AO2 LTG DSNT N RAB53 SLP166 P0000 60027 T02220194 10294 20211 53005
07	1953	MET13808/07/21 19:53:01 METAR KPEO 080053Z 18008KT 10SM -RA FEW046 SCT100 BKN120 22/19 A3004 RMK AO2 LTG DSNT SE RAE15B39 SLP164 P0000 T02170189
07	2053	MET10208/07/21 20:53:01 METAR KPEO 080153Z 22005KT 10SM CLR 22/19 A3005 RMK AO2 RAE02 SLP168 P0000 T02170194
07	2153	MET10108/07/21 21:53:01 METAR KPEO 080253Z 21003KT 9SM CLR 22/19 A3005 RMK AO2 SLP167 60000 T02170194 53002
07	2253	MET08908/07/21 22:53:01 METAR KPEO 080353Z 00000KT 8SM CLR 21/19 A3004 RMK AO2 SLP166 T02110194
07	2353	MET09908/07/21 23:53:01 METAR KPEO 080453Z 17004KT 9SM CLR 19/18 A3004 RMK AO2 SLP166 T01940183 402940194

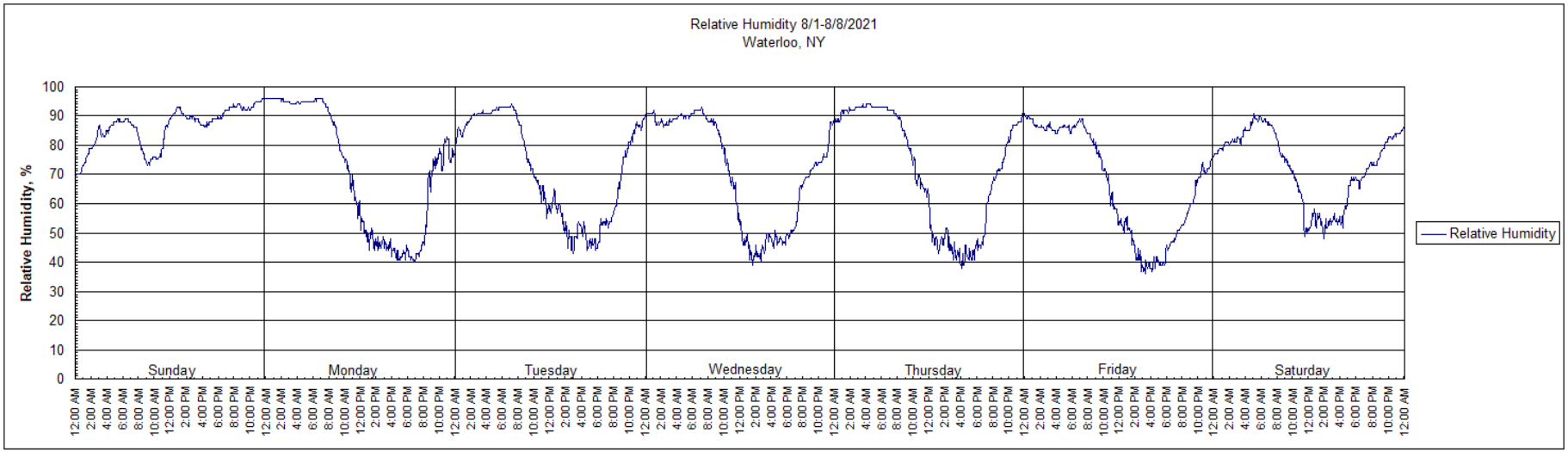


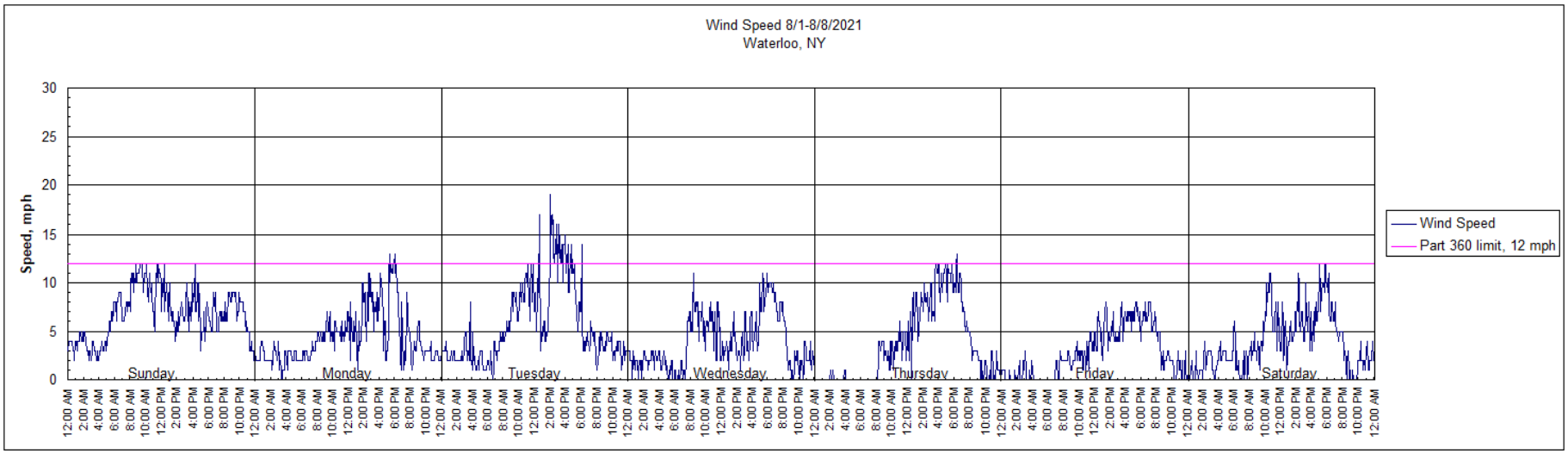
AURORA ACOUSTICAL CONSULTANTS Inc.

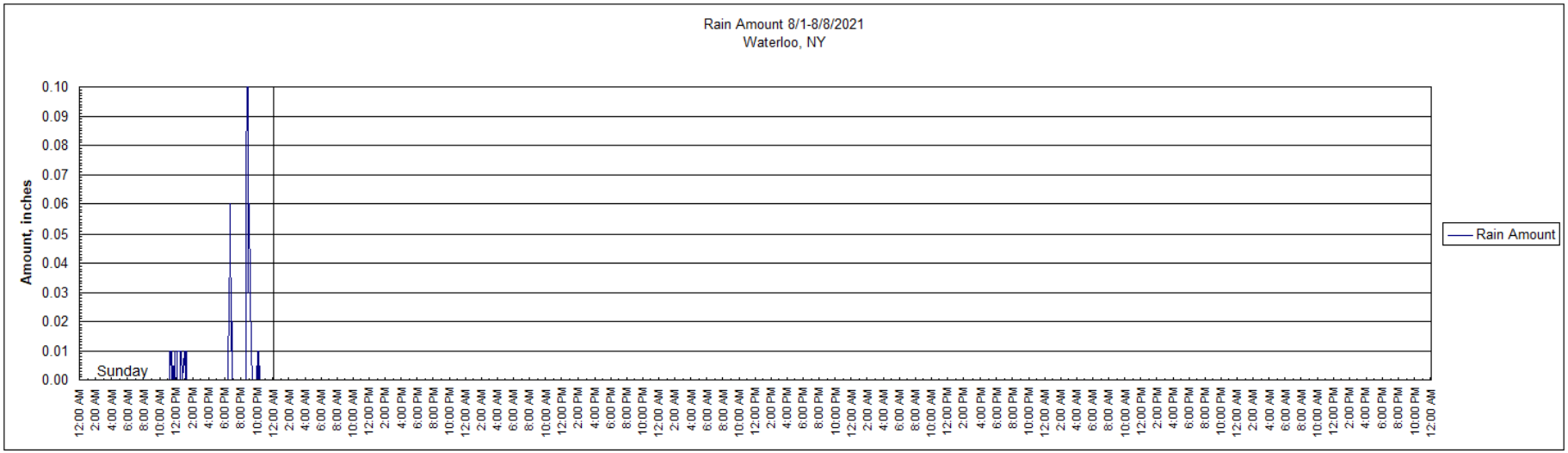
745 Warren Drive
East Aurora, New York 14052
716-655-2200
info@auroraacoustical.com

Local Weather Data
August 1 - August 7, 2021


Temperature 8/1-8/8/2021
Waterloo, NY
Temperature, F
100
90
80
70
60
50
40
30
20
10
0
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
12:00 AM
2:00 AM
4:00 AM
6:00 AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
4:00 PM
6:00 PM
8:00 PM
10:00 PM
Temperature
Temperature


Relative Humidity 8/1-8/8/2021
Waterloo, NY
Relative Humidity, %
100
90
80
70
60
50
40
30
20
10
0
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
12:00 AM
2:00 AM
4:00 AM
6:00 AM
8:00 AM
10:00 AM
12:00 PM
2:00 PM
4:00 PM
6:00 PM
8:00 PM
10:00 PM
Relative Humidity


Wind Speed 8/1-8/8/2021
Waterloo, NY
Speed, mph
30
25
20
15
10
5
0
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Wind Speed
Part 360 limit, 12 mph


Rain Amount 8/1-8/8/2021
Waterloo, NY
Amount, inches
0.10
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
Sunday
Rain Amount

New Seneca Meadows Weather Station																											
Date & Time	Barometer - in Hg	Temp - °F	High Temp - °F	Low Temp - °F	Hum - %	Dew Point - °F	Wet Bulb - °F	Wind Speed - mph	Wind Direction	Wind Run - mi	High Wind Speed - mph	High Wind Direction	Wind Chill - °F	Heat Index - °F	THW Index - °F	THSW Index - °F	Rain - in	Rain Rate - in/h	Solar Rad - W/m^2	Solar Energy - Ly	High Solar Rad - W/m^2	ET - in	UV Index	UV Dose - MEDs	High UV Index	Heating Degree Days	Cooling Degree Days
8/1/2021 12:00 AM	29.96	63	63	63	69	52	56	6	NE	0.5	11	NE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:05 AM	29.95	63	63	63	70	53	56	5	ENE	0.4	9	ENE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:10 AM	29.95	63	63	63	70	53	56	6	ENE	0.5	10	ENE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:15 AM	29.95	63	63	62	70	53	56	5	ENE	0.4	8	ENE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:20 AM	29.95	62	62	62	70	53	56	4	E	0.3	8	ESE	62	62	62	61	0	0	0	0	0	0	0	0	0	0.009	0
12:25 AM	29.95	62	62	62	70	53	56	4	E	0.3	7	E	62	62	62	61	0	0	0	0	0	0	0	0	0	0.009	0
12:30 AM	29.95	62	62	62	70	53	56	3	ENE	0.2	6	E	62	62	62	61	0	0	0	0	0	0	0	0	0	0.009	0
12:35 AM	29.95	62	63	62	70	53	56	4	E	0.3	7	E	62	62	62	61	0	0	0	0	0	0	0	0	0	0.009	0
12:40 AM	29.94	63	63	63	70	53	56	4	E	0.3	7	E	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:45 AM	29.94	63	63	63	71	53	56	4	ESE	0.3	7	ESE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:50 AM	29.94	63	63	63	72	54	57	3	ESE	0.2	5	SE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
12:55 AM	29.93	63	63	63	73	54	57	3	SE	0.2	4	SE	63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
1:00 AM	29.93	62	63	62	73	54	57	1	SE	0.1	3	SE	62	62	62	61	0	0	0	0	0	0	0	0	0	0.009	0
1:05 AM	29.93	62	62	62	73	54	57	1	SE	0.1	2	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.009	0
1:10 AM	29.93	62	62	62	74	54	57	0		0	1	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.009	0
1:15 AM	29.92	62	62	62	74	54	57	1	SE	0.1	2	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
1:20 AM	29.93	62	62	62	75	54	57	2	SE	0.2	3	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
1:25 AM	29.92	62	62	62	76	54	57	2	SE	0.2	3	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
1:30 AM	29.92	62	62	62	76	54	57	2	SE	0.2	3	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
1:35 AM	29.92	62	62	62	77	55	57	1	SE	0.1	2	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.011	0
1:40 AM	29.92	62	62	62	77	55	57	1	SE	0.1	2	SE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.011	0
1:45 AM	29.91	62	62	62	79	55	58	3	E	0.2	4	E	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
1:50 AM	29.92	62	62	62	79	56	58	2	ESE	0.2	4	ESE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
1:55 AM	29.92	62	62	62	79	56	58	2	ESE	0.2	4	S	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
2:00 AM	29.92	62	62	62	79	55	58	3	S	0.2	5	S	62	62	62	60	0	0	0	0	0	0	0	0	0	0.011	0
2:05 AM	29.92	61	62	61	79	55	57	4	S	0.3	5	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.012	0
2:10 AM	29.91	61	61	61	79	55	57	3	S	0.2	4	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
2:15 AM	29.91	61	61	61	80	55	57	4	S	0.3	5	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
2:20 AM	29.91	61	61	61	80	55	57	4	S	0.3	5	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
2:25 AM	29.91	61	61	61	80	55	57	3	S	0.2	4	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:30 AM	29.91	61	61	61	81	55	57	2	S	0.2	4	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:35 AM	29.9	61	61	61	81	55	57	2	S	0.2	4	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:40 AM	29.9	61	61	61	82	55	57	2	S	0.2	4	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:45 AM	29.9	61	61	60	83	55	57	3	S	0.2	6	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:50 AM	29.89	60	60	60	84	56	57	3	SSE	0.2	5	SSE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
2:55 AM	29.9	60	60	60	86	56	58	3	SSE	0.2	5	SSE	60	60	60	59	0	0	0	0	0	0	0	0	0	0.016	0
3:00 AM	29.89	60	61	60	87	57	58	3	SSE	0.2	7	SE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
3:05 AM	29.89	61	61	61	86	57	58	3	SSE	0.2	6	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
3:10 AM	29.89	61	61	61	85	56	58	5	SE	0.4	9	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
3:15 AM	29.89	61	61	61	84	56	58	6	SSE	0.5	11	SSE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.013	0
3:20 AM	29.89	61	61	61	83	56	58	6	SE	0.5	10	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.013	0
3:25 AM	29.88	61	62	61	84	57	58	7	SE	0.6	10	SE	61	62	61	60	0	0	0	0	0	0	0	0	0	0.012	0
3:30 AM	29.88	62	62	62	84	57	58	5	SE	0.4	9	SSE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.012	0
3:35 AM	29.88	61	62	61	83	56	58	4	SSE	0.3	8	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.012	0
3:40 AM	29.88	61	61	61	83	56	58	4	SSE	0.3	7	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.013	0
3:45 AM	29.88	61	61	61	83	56	58	5	SSE	0.4	8	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
3:50 AM	29.89	61	61	61	84	56	58	5	SE	0.4	9	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
3:55 AM	29.88	61	61	61	85	56	58	4	SSE	0.3	7	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
4:00 AM	29.88	61	61	61	85	56	58	4	SE	0.3	8	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
4:05 AM	29.88	61	61	61	84	56	58	5	SE	0.4	8	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:10 AM	29.88	60	61	60	85	56	58	7	SE	0.6	9	SE	60	61	60	58	0	0	0	0	0	0	0	0	0	0.016	0
4:15 AM	29.88	60	61	60	85	56	58	6	SE	0.5	9	SE	60	61	60	59	0	0	0	0	0	0	0	0	0	0.016	0

4:20 AM	29.88	60	60	60	86	56	58	5	SE	0.4	7	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.016	0
4:25 AM	29.88	60	60	60	86	56	58	5	SE	0.4	8	SE	60	60	60	59	0	0	0	0	0	0	0	0	0	0.016	0
4:30 AM	29.88	60	60	60	87	57	58	5	SE	0.4	8	SE	60	61	61	58	0	0	0	0	0	0	0	0	0	0.016	0
4:35 AM	29.88	60	60	60	87	56	58	5	SE	0.4	9	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.016	0
4:40 AM	29.88	60	60	60	87	56	58	5	SE	0.4	9	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
4:45 AM	29.88	60	60	60	87	56	57	5	SE	0.4	7	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
4:50 AM	29.88	60	60	60	88	56	58	6	SE	0.5	8	SE	59	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
4:55 AM	29.88	60	60	60	88	56	58	6	SE	0.5	9	SE	59	60	60	57	0	0	0	0	0	0	0	0	0	0.018	0
5:00 AM	29.88	60	60	60	88	57	58	6	SE	0.5	9	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.017	0
5:05 AM	29.88	60	60	60	88	57	58	6	SE	0.5	9	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.017	0
5:10 AM	29.88	60	60	60	88	56	58	6	SE	0.5	8	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.017	0
5:15 AM	29.88	60	60	60	88	56	58	5	SE	0.4	8	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
5:20 AM	29.88	60	60	60	89	57	58	5	SE	0.4	8	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
5:25 AM	29.88	60	60	60	89	57	58	6	SE	0.5	9	SE	59	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
5:30 AM	29.88	60	60	60	88	56	58	6	SE	0.5	9	SE	59	60	60	57	0	0	0	0	0	0	0	0	0	0.018	0
5:35 AM	29.88	60	60	60	89	57	58	5	SE	0.4	8	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.018	0
5:40 AM	29.88	60	60	60	88	56	58	5	SE	0.4	8	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:45 AM	29.88	60	60	60	88	56	58	5	SE	0.4	8	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:50 AM	29.88	60	60	60	88	57	58	6	SE	0.5	8	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.017	0
5:55 AM	29.88	60	60	60	88	56	58	7	SE	0.6	9	SE	59	60	59	57	0	0	0	0	0	0	0	0	0	0.017	0
6:00 AM	29.88	60	60	60	88	56	58	6	SE	0.5	9	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.017	0
6:05 AM	29.88	60	60	60	88	56	58	5	SE	0.4	8	SE	60	60	60	57	0	0	0	0	0	0	0	0	0	0.017	0
6:10 AM	29.88	60	60	60	88	56	58	5	SE	0.4	8	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
6:15 AM	29.88	60	60	60	89	57	58	5	SE	0.4	8	SE	60	60	60	58	0	0	3	0.02	5	0	0	0	0	0.017	0
6:20 AM	29.88	60	60	60	89	57	58	5	SE	0.4	8	SE	60	60	60	58	0	0	7	0.05	9	0	0	0	0	0.017	0
6:25 AM	29.88	60	60	60	89	57	58	5	SE	0.4	7	SE	60	60	60	58	0	0	10	0.07	11	0	0	0	0	0.017	0
6:30 AM	29.88	60	60	60	89	57	58	4	SE	0.3	7	SE	60	60	60	58	0	0	14	0.1	18	0	0	0	0	0.017	0
6:35 AM	29.88	60	60	60	89	57	58	4	SE	0.3	5	SE	60	60	60	58	0	0	21	0.15	23	0	0	0	0	0.017	0
6:40 AM	29.88	60	60	60	89	57	58	3	SE	0.2	5	SE	60	61	61	59	0	0	24	0.17	26	0	0	0	0	0.016	0
6:45 AM	29.88	60	61	60	88	57	58	3	SE	0.2	5	SE	60	61	61	59	0	0	29	0.21	30	0	0	0	0	0.016	0
6:50 AM	29.88	61	61	60	88	57	58	3	SE	0.2	7	SE	61	61	61	59	0	0	33	0.24	35	0	0	0	0	0.015	0
6:55 AM	29.88	61	61	61	88	57	58	3	SE	0.2	4	SE	61	61	61	59	0	0	28	0.2	32	0	0	0	0	0.015	0
7:00 AM	29.88	61	61	61	88	57	59	3	SE	0.2	5	SE	61	61	61	59	0	0	27	0.19	30	0	0	0	0	0.014	0
7:05 AM	29.88	61	61	61	87	57	59	3	SE	0.2	7	SE	61	61	61	61	0	0	35	0.25	37	0	0	0	0	0.013	0
7:10 AM	29.88	61	62	61	87	57	59	4	SE	0.3	7	SE	61	62	62	61	0	0	39	0.28	39	0	0	0	0	0.012	0
7:15 AM	29.88	62	62	62	87	58	59	4	SE	0.3	6	ESE	62	62	62	62	0	0	49	0.35	60	0	0	0	0	0.012	0
7:20 AM	29.88	62	62	62	87	58	59	4	SE	0.3	7	SE	62	62	62	62	0	0	76	0.54	98	0	0	0	0	0.011	0
7:25 AM	29.87	62	62	62	86	58	59	4	SE	0.3	8	SE	62	62	62	63	0	0	106	0.76	116	0	0	0	0	0.011	0
7:30 AM	29.87	62	62	62	86	58	59	4	SE	0.3	7	SE	62	62	62	64	0	0	115	0.82	128	0	0	0	0	0.01	0
7:35 AM	29.87	62	62	62	86	58	59	5	SE	0.4	8	SE	62	63	63	64	0	0	110	0.79	135	0	0	0	0	0.009	0
7:40 AM	29.88	62	62	62	86	58	60	4	SE	0.3	7	SE	62	63	63	63	0	0	94	0.67	97	0	0	0	0	0.009	0
7:45 AM	29.88	63	63	62	86	58	60	4	SE	0.3	7	SE	63	63	63	64	0	0	114	0.82	130	0	0	0	0	0.008	0
7:50 AM	29.88	63	63	63	85	58	60	4	SE	0.3	7	SE	63	63	63	65	0	0	192	1.38	227	0	1	0	1	0.007	0
7:55 AM	29.87	64	64	63	84	59	60	4	SSE	0.3	8	SE	64	64	64	67	0	0	216	1.55	234	0	1	0	1	0.005	0
8:00 AM	29.88	64	64	64	82	59	60	4	SSE	0.3	9	SE	64	65	65	68	0	0	210	1.51	230	0	1	0	1	0.003	0
8:05 AM	29.88	65	65	64	82	59	61	5	SSE	0.4	11	SE	65	65	65	67	0	0	191	1.37	211	0	1	0	1	0.001	0
8:10 AM	29.88	65	65	65	81	59	61	5	SSE	0.4	10	SE	65	65	65	68	0	0	187	1.34	207	0	1	0	1	0	0
8:15 AM	29.88	65	65	65	79	58	61	5	SSE	0.4	8	SE	65	66	66	68	0	0	147	1.05	160	0	1	0	1	0	0
8:20 AM	29.88	65	65	65	79	59	61	5	S	0.4	10	S	65	66	66	68	0	0	178	1.28	202	0	1	0	1	0	0.001
8:25 AM	29.88	66	66	65	78	58	61	6	SSE	0.5	10	SE	66	66	66	69	0	0	206	1.48	209	0	1	0	1	0	0.002
8:30 AM	29.88	66	66	66	79	59	61	5	SSE	0.4	9	SSE	66	66	66	70	0	0	201	1.44	206	0	1	0	1	0	0.002
8:35 AM	29.87	66	66	66	77	58	61	8	S	0.7	13	S	65	66	66	70	0	0	236	1.69	283	0	1	0	1	0	0.003
8:40 AM	29.88	66	66	66	77	59	61	6	S	0.5	10	S	66	67	67	70	0	0	255	1.83	309	0	1	0	1	0	0.004
8:45 AM	29.88	67	67	66	75	59	61	7	S	0.6	13	S	67	67	67	73	0	0	321	2.3	364	0	1	0	1	0	0.006
8:50 AM	29.87	67	67	67	75	59	61	10	S	0.8	17	SSE	65	68	66	70	0	0	283	2.03	309	0	1	0	1	0	0.007
8:55 AM	29.87	67	68	67	74	59	61	7	SSE	0.6	16	SSE	67	68	68	70	0	0	323	2.32	387	0	1	0	1	0	0.008
9:00 AM	29.86	68	68	68	74	59	62	7	S	0.6	13	SE	68	68	68	74	0	0	394	2.83	454	0.01	2	0.1	2	0	0.009

9:05 AM	29.86	68	68	68	73	59	61	7	S	0.6	12	SSE	68	68	68	79	0	0	484	3.47	515	0	2	0.1	2	0	0.009
9:10 AM	29.87	68	68	68	73	59	62	8	S	0.7	15	S	67	68	68	74	0	0	311	2.23	390	0	1	0	2	0	0.01
9:15 AM	29.86	68	68	68	74	59	62	8	S	0.7	12	SSE	67	68	68	72	0	0	237	1.7	243	0	1	0	1	0	0.01
9:20 AM	29.86	68	68	68	74	59	62	7	S	0.6	11	S	68	68	68	72	0	0	286	2.05	336	0	1	0	1	0	0.01
9:25 AM	29.86	68	68	68	73	59	62	8	S	0.7	12	S	67	68	68	71	0	0	215	1.54	243	0	1	0	1	0	0.01
9:30 AM	29.86	68	68	68	75	59	62	5	SSE	0.4	10	S	68	68	68	71	0	0	177	1.27	188	0	1	0	1	0	0.009
9:35 AM	29.86	68	68	68	75	59	62	6	S	0.5	9	S	68	68	68	71	0	0	153	1.1	158	0	1	0	1	0	0.009
9:40 AM	29.86	68	68	67	75	59	62	7	S	0.6	10	S	68	68	68	70	0	0	134	0.96	146	0	1	0	1	0	0.009
9:45 AM	29.86	67	67	67	75	59	62	6	S	0.5	10	S	67	68	68	69	0	0	112	0.8	114	0	1	0	1	0	0.008
9:50 AM	29.87	67	68	67	76	60	62	8	S	0.7	11	SW	67	68	67	68	0	0	117	0.84	125	0	1	0	1	0	0.008
9:55 AM	29.86	67	67	67	76	60	62	6	S	0.5	9	S	67	68	68	69	0	0	147	1.05	155	0	1	0	1	0	0.008
10:00 AM	29.86	67	67	67	76	60	62	6	S	0.5	9	S	67	68	68	70	0	0	148	1.06	149	0.01	1	0	1	0	0.008
10:05 AM	29.86	68	68	67	76	60	62	6	S	0.5	8	S	68	68	68	70	0	0	156	1.12	163	0	1	0	1	0	0.009
10:10 AM	29.86	68	68	68	76	60	62	5	S	0.4	9	S	68	68	68	71	0	0	181	1.3	186	0	1	0	1	0	0.009
10:15 AM	29.86	68	68	68	75	60	62	4	SSE	0.3	6	S	68	69	69	72	0	0	186	1.33	188	0	1	0	1	0	0.01
10:20 AM	29.86	68	68	68	75	60	62	5	S	0.4	9	SSE	68	69	69	72	0	0	182	1.3	188	0	1	0	1	0	0.011
10:25 AM	29.85	68	68	68	75	60	62	6	S	0.5	9	S	68	69	69	71	0	0	163	1.17	169	0	1	0	1	0	0.011
10:30 AM	29.85	68	68	68	75	60	62	5	S	0.4	7	S	68	69	69	71	0	0	147	1.05	155	0	1	0	1	0	0.011
10:35 AM	29.85	68	68	68	76	60	63	4	S	0.3	8	SSW	68	69	69	70	0	0	119	0.85	134	0	1	0	1	0	0.011
10:40 AM	29.85	68	68	68	76	60	63	3	SSE	0.2	7	SE	68	69	69	70	0	0	115	0.82	120	0	1	0	1	0	0.011
10:45 AM	29.86	68	68	68	77	61	63	2	SSE	0.2	5	SSE	68	69	69	70	0	0	111	0.8	116	0	1	0	1	0	0.011
10:50 AM	29.86	68	68	68	76	60	63	4	S	0.3	7	SSW	68	69	69	70	0	0	98	0.7	104	0	1	0	1	0	0.011
10:55 AM	29.86	68	68	68	78	61	63	4	SSW	0.3	6	SSW	68	69	69	69	0	0	83	0.6	90	0	0	0	1	0	0.01
11:00 AM	29.86	68	68	68	79	61	63	3	SSW	0.2	5	SW	68	69	69	69	0	0	66	0.47	72	0	0	0	0	0	0.01
11:05 AM	29.87	68	68	68	79	61	63	2	SW	0.2	4	SW	68	69	69	69	0	0	50	0.36	56	0	0	0	0	0	0.009
11:10 AM	29.87	68	68	67	82	62	64	3	WSW	0.2	4	SW	68	69	69	69	0	0	39	0.28	42	0	0	0	0	0	0.009
11:15 AM	29.87	67	67	67	82	62	63	3	WSW	0.2	4	WSW	67	68	68	67	0.01	0	33	0.24	35	0	0	0	0	0	0.008
11:20 AM	29.88	67	67	66	84	62	63	3	WSW	0.2	5	WSW	67	68	68	68	0.01	0.11	37	0.27	40	0	0	0	0	0	0.006
11:25 AM	29.88	66	66	66	86	62	63	4	WSW	0.3	8	WSW	66	67	67	67	0	0.11	43	0.31	44	0	0	0	0	0	0.005
11:30 AM	29.9	66	66	66	87	62	63	4	SSW	0.3	7	SW	66	67	67	67	0.01	0.11	42	0.3	44	0	0	0	0	0	0.003
11:35 AM	29.9	66	66	66	87	62	63	5	S	0.4	10	SSW	66	67	67	67	0	0.08	48	0.34	49	0	0	0	0	0	0.002
11:40 AM	29.88	66	66	65	86	61	63	6	SSW	0.5	8	SW	66	66	66	66	0	0.05	62	0.44	70	0	0	0	0	0	0.002
11:45 AM	29.89	65	66	65	88	62	63	4	S	0.3	7	SSW	65	66	66	66	0	0	70	0.5	72	0	0	0	0	0	0.001
11:50 AM	29.89	65	65	65	88	62	63	5	S	0.4	7	SW	65	66	66	66	0.01	0	59	0.42	63	0	0	0	0	0	0.001
11:55 AM	29.89	65	65	65	89	62	63	5	SSW	0.4	11	S	65	66	66	66	0	0	47	0.34	51	0	0	0	0	0	0.001
12:00 PM	29.88	65	65	65	89	62	63	5	WSW	0.4	8	WSW	65	66	66	66	0	0	54	0.39	60	0	0	0	0	0	0.001
12:05 PM	29.88	65	65	65	89	62	63	4	WSW	0.3	8	WSW	65	66	66	66	0	0	63	0.45	65	0	0	0	0	0	0
12:10 PM	29.88	65	65	65	90	62	63	5	WSW	0.4	10	W	65	66	66	66	0.01	0.04	71	0.51	76	0	0	0	1	0	0
12:15 PM	29.9	65	65	65	90	62	63	4	WSW	0.3	7	W	65	66	66	66	0.01	0.1	77	0.55	79	0	1	0	1	0	0
12:20 PM	29.88	65	65	65	90	62	63	4	WSW	0.3	7	WSW	65	66	66	66	0.01	0.11	77	0.55	77	0	1	0	1	0	0
12:25 PM	29.88	65	65	65	91	62	63	5	SW	0.4	8	WSW	65	66	66	66	0.01	0.12	72	0.52	74	0	1	0	1	0	0
12:30 PM	29.88	65	65	65	91	62	63	5	SW	0.4	8	SSW	65	66	66	66	0.01	0.12	65	0.47	69	0	0	0	0	0	0
12:35 PM	29.88	65	65	65	91	62	63	6	SSW	0.5	9	SSW	65	66	66	66	0	0.09	54	0.39	58	0	0	0	0	0.001	0
12:40 PM	29.88	65	65	65	91	62	63	5	S	0.4	8	S	65	66	66	66	0.01	0.09	51	0.37	51	0	0	0	0	0.001	0
12:45 PM	29.88	65	65	65	92	62	63	5	SSE	0.4	9	S	65	66	66	66	0	0.07	50	0.36	51	0	0	0	0	0.001	0
12:50 PM	29.88	65	65	64	93	63	63	4	S	0.3	8	S	65	66	66	66	0	0.05	46	0.33	47	0	0	0	0	0.001	0
12:55 PM	29.87	64	64	64	93	62	63	4	SSE	0.3	6	S	64	66	66	66	0.01	0.05	58	0.42	72	0	0	0	1	0.002	0
1:00 PM	29.87	64	64	64	93	62	63	4	SSE	0.3	7	S	64	65	65	65	0	0.04	115	0.82	141	0	1	0	1	0.002	0
1:05 PM	29.88	64	64	64	93	62	63	4	SSE	0.3	9	S	64	66	66	67	0.01	0.06	148	1.06	149	0	1	0	1	0.002	0
1:10 PM	29.89	64	64	64	93	62	63	5	SSE	0.4	9	S	64	65	65	67	0.01	0.09	143	1.03	146	0	1	0	1	0.002	0
1:15 PM	29.89	64	64	64	92	62	63	6	SE	0.5	10	S	64	65	65	67	0	0.09	171	1.23	190	0	1	0	2	0.003	0
1:20 PM	29.88	64	64	64	93	62	63	5	SSE	0.4	8	SE	64	65	65	68	0	0.06	213	1.53	223	0	2	0.1	2	0.003	0
1:25 PM	29.88	64	64	64	91	61	62	5	S	0.4	9	S	64	65	65	69	0	0.04	231	1.66	250	0	2	0.1	2	0.004	0
1:30 PM	29.89	64	64	64	91	61	62	8	S	0.7	14	S	63	65	64	69	0	0	275	1.97	281	0	2	0.1	2	0.005	0
1:35 PM	29.88	64	64	64	91	61	62	5	SSE	0.4	12	S	64	65	65	70	0	0	258	1.85	271	0	2	0.1	2	0.004	0
1:40 PM	29.88	64	64	64	90	61	62	5	SSE	0.4	9	S	64	65	65	70	0	0	256	1.84	262	0	2	0.1	2	0.003	0
1:45 PM	29.87	64	64	64	90	61	62	4	SSE	0.3	7	SE	64	65	65	69	0	0	245	1.76	258	0	2	0.1	2	0.003	0

1:50 PM	29.87	64	64	64	90	61	62	5	SE	0.4	7	S	64	65	65	69	0	0	206	1.48	225	0	2	0.1	2	0.003	0
1:55 PM	29.87	64	64	64	89	61	62	4	SE	0.3	8	SE	64	65	65	68	0	0	182	1.3	190	0	1	0	1	0.002	0
2:00 PM	29.87	64	65	64	89	61	62	3	SSE	0.2	5	S	64	65	65	69	0	0	221	1.58	241	0.01	2	0.1	2	0.002	0
2:05 PM	29.88	65	65	64	89	61	62	5	S	0.4	8	S	65	66	66	71	0	0	253	1.81	257	0	2	0.1	2	0.001	0
2:10 PM	29.87	65	65	64	89	61	62	3	SSE	0.2	7	SE	65	66	66	70	0	0	225	1.61	243	0	2	0.1	2	0.001	0
2:15 PM	29.88	65	65	65	89	61	63	5	SE	0.4	8	SE	65	66	66	68	0	0	149	1.07	176	0	1	0	2	0.001	0
2:20 PM	29.86	65	65	65	89	62	63	5	SE	0.4	8	SE	65	66	66	68	0	0	139	1	148	0	1	0	1	0	0
2:25 PM	29.87	65	65	65	90	62	63	4	SE	0.3	8	SE	65	66	66	68	0	0	153	1.1	156	0	1	0	1	0.001	0
2:30 PM	29.87	65	65	65	90	62	63	6	SE	0.5	9	SE	65	66	66	68	0	0	163	1.17	167	0	1	0	1	0	0
2:35 PM	29.87	65	65	65	89	61	63	6	SE	0.5	10	SE	65	66	66	67	0	0	159	1.14	165	0	1	0	1	0.001	0
2:40 PM	29.88	65	65	65	90	62	63	5	SE	0.4	10	SE	65	66	66	68	0	0	164	1.18	174	0	1	0	1	0.001	0
2:45 PM	29.87	65	65	64	90	62	63	4	SE	0.3	7	SE	65	66	66	69	0	0	175	1.25	179	0	1	0	1	0.001	0
2:50 PM	29.87	65	65	65	90	62	63	4	SSE	0.3	7	SE	65	66	66	69	0	0	223	1.6	262	0	2	0.1	2	0.001	0
2:55 PM	29.87	65	65	65	89	61	62	5	SE	0.4	8	SE	65	66	66	71	0	0	297	2.13	306	0	2	0.1	2	0.001	0
3:00 PM	29.88	65	65	65	88	61	62	5	SE	0.4	8	SE	65	66	66	72	0	0	311	2.23	313	0.01	2	0.1	2	0.001	0
3:05 PM	29.88	65	65	65	89	62	63	6	SE	0.5	9	SE	65	66	66	72	0	0	309	2.22	311	0	2	0.1	2	0	0
3:10 PM	29.88	65	65	65	89	62	63	4	SSE	0.3	8	S	65	66	66	72	0	0	286	2.05	299	0	2	0.1	2	0	0
3:15 PM	29.88	65	65	65	89	62	63	4	SE	0.3	8	SE	65	66	66	71	0	0	255	1.83	269	0	2	0.1	2	0	0
3:20 PM	29.89	65	65	65	89	62	63	6	SE	0.5	9	SE	65	66	66	70	0	0	209	1.5	234	0	1	0.1	2	0	0.001
3:25 PM	29.88	65	65	65	89	62	63	5	SE	0.4	8	SE	65	66	66	69	0	0	207	1.48	211	0	1	0	1	0	0.001
3:30 PM	29.88	65	65	65	88	62	63	6	SE	0.5	9	SE	65	66	66	70	0	0	216	1.55	223	0	1	0	1	0	0.001
3:35 PM	29.88	65	65	65	88	61	63	5	SSE	0.4	10	SE	65	66	66	70	0	0	237	1.7	246	0	2	0.1	2	0	0
3:40 PM	29.88	65	65	65	87	61	62	6	SSE	0.5	10	SE	65	66	66	70	0	0	252	1.81	253	0	2	0.1	2	0	0.001
3:45 PM	29.87	65	65	65	87	61	62	5	S	0.4	11	S	65	66	66	70	0	0	247	1.77	250	0	2	0.1	2	0	0.001
3:50 PM	29.87	65	65	65	87	61	62	6	S	0.5	10	SSE	65	66	66	70	0	0	207	1.48	232	0	1	0	2	0	0.001
3:55 PM	29.88	65	65	65	87	61	62	5	SSE	0.4	9	SE	65	66	66	68	0	0	127	0.91	155	0	1	0	1	0	0.001
4:00 PM	29.88	65	65	65	87	61	62	4	SE	0.3	7	SE	65	66	66	67	0	0	132	0.95	142	0.01	1	0	1	0	0.001
4:05 PM	29.88	65	65	65	87	61	63	4	SSE	0.3	6	SSE	65	66	66	68	0	0	143	1.03	174	0	1	0	1	0	0.001
4:10 PM	29.88	65	65	65	87	61	63	4	SSE	0.3	8	SE	65	66	66	68	0	0	200	1.43	207	0	1	0	1	0	0.001
4:15 PM	29.88	65	65	65	86	61	62	4	S	0.3	8	S	65	66	66	69	0	0	181	1.3	197	0	1	0	1	0	0.001
4:20 PM	29.88	65	66	65	87	61	63	4	SSE	0.3	8	SE	65	66	66	69	0	0	159	1.14	162	0	1	0	1	0	0.001
4:25 PM	29.88	65	66	65	87	61	63	4	SE	0.3	8	SE	65	66	66	68	0	0	147	1.05	162	0	1	0	1	0	0.001
4:30 PM	29.87	65	66	65	86	61	62	4	SSE	0.3	8	SE	65	66	66	69	0	0	218	1.56	239	0	1	0	1	0	0.001
4:35 PM	29.88	66	66	65	88	62	63	3	SSE	0.2	5	SE	66	67	67	71	0	0	244	1.75	246	0	1	0.1	1	0	0.002
4:40 PM	29.89	66	66	66	87	62	63	6	SE	0.5	9	SE	66	67	67	71	0	0	226	1.62	237	0	1	0	1	0	0.002
4:45 PM	29.88	66	66	65	87	62	63	6	SE	0.5	10	SE	66	66	66	69	0	0	192	1.38	209	0	1	0	1	0	0.002
4:50 PM	29.88	65	66	65	88	62	63	4	SE	0.3	7	SE	65	66	66	70	0	0	160	1.15	167	0	1	0	1	0	0.001
4:55 PM	29.88	66	66	66	88	62	63	4	SE	0.3	7	SE	66	67	67	68	0	0	116	0.83	130	0	1	0	1	0	0.002
5:00 PM	29.88	66	66	65	88	62	63	4	SSE	0.3	7	SSE	66	67	67	68	0	0	106	0.76	107	0	1	0	1	0	0.002
5:05 PM	29.87	66	66	65	88	62	63	4	SE	0.3	6	ESE	66	67	67	67	0	0	109	0.78	113	0	1	0	1	0	0.002
5:10 PM	29.87	65	65	65	88	62	63	3	SE	0.2	6	S	65	66	66	67	0	0	108	0.77	113	0	1	0	1	0	0.001
5:15 PM	29.86	65	65	65	89	62	63	3	SSE	0.2	6	S	65	66	66	67	0	0	112	0.8	114	0	1	0	1	0	0.001
5:20 PM	29.86	65	66	65	89	62	63	4	SE	0.3	7	SE	65	66	66	67	0	0	113	0.81	120	0	1	0	1	0	0.001
5:25 PM	29.86	65	65	65	89	62	63	4	SE	0.3	7	SE	65	66	66	68	0	0	132	0.95	137	0	1	0	1	0	0.001
5:30 PM	29.87	65	66	65	89	62	63	5	SE	0.4	7	SSE	65	66	66	68	0	0	138	0.99	139	0	1	0	1	0	0.001
5:35 PM	29.86	65	66	65	89	62	63	5	SE	0.4	7	SE	65	66	66	69	0	0	146	1.05	151	0	1	0	1	0	0.001
5:40 PM	29.88	66	66	65	89	62	63	5	SE	0.4	8	SE	66	67	67	69	0	0	143	1.03	148	0	1	0	1	0	0.002
5:45 PM	29.87	66	66	65	89	62	63	5	SE	0.4	8	SE	66	67	67	68	0	0	130	0.93	141	0	1	0	1	0	0.002
5:50 PM	29.88	65	66	65	89	62	63	5	SE	0.4	8	SE	65	66	66	67	0	0	106	0.76	116	0	0	0	0	0	0.001
5:55 PM	29.88	65	65	65	90	62	63	4	SE	0.3	8	SE	65	66	66	66	0	0	75	0.54	86	0	0	0	0	0	0.001
6:00 PM	29.87	65	65	65	89	62	63	4	SE	0.3	7	SE	65	66	66	66	0	0	91	0.65	111	0	0	0	0	0	0.001
6:05 PM	29.87	65	65	65	89	62	63	6	SE	0.5	8	SE	65	66	66	67	0	0	104	0.75	111	0	0	0	0	0	0.001
6:10 PM	29.87	65	65	65	89	62	63	6	SE	0.5	9	SE	65	66	66	67	0	0	90	0.65	97	0	0	0	0	0	0
6:15 PM	29.87	65	65	65	89	62	63	6	SSE	0.5	10	SSE	65	66	66	66	0	0	76	0.54	83	0	0	0	0	0	0
6:20 PM	29.87	65	65	65	90	62	63	5	SSE	0.4	9	S	65	66	66	66	0	0	49	0.35	65	0	0	0	0	0.001	0
6:25 PM	29.86	65	65	65	89	61	63	4	SSE	0.3	8	SE	65	66	66	65	0	0	27	0.19	32	0	0	0	0	0.001	0
6:30 PM	29.86	65	65	65	90	62	63	5	SSW	0.4	7	S	65	66	66	65	0.03	0.99	24	0.17	26	0	0	0	0	0.001	0

6:35 PM	29.88	64	65	64	91	62	63	3	S	0.2	6	S	64	66	66	64	0.04	0.97	20	0.14	21	0	0	0	0	0.002	0
6:40 PM	29.88	64	64	64	91	62	62	1	SE	0.1	3	SSE	64	65	65	64	0.06	1.07	19	0.14	21	0	0	0	0	0.003	0
6:45 PM	29.89	64	64	64	92	62	62	1	SE	0.1	3	SE	64	65	65	64	0.01	0.44	11	0.08	12	0	0	0	0	0.003	0
6:50 PM	29.88	64	64	64	92	62	63	2	SE	0.2	3	SE	64	65	65	64	0.02	0.22	11	0.08	12	0	0	0	0	0.003	0
6:55 PM	29.88	64	64	64	92	62	62	2	W	0.2	4	W	64	65	65	64	0	0.09	16	0.11	19	0	0	0	0	0.003	0
7:00 PM	29.89	64	64	64	92	62	62	2	WSW	0.2	6	W	64	65	65	64	0	0.05	17	0.12	18	0	0	0	0	0.003	0
7:05 PM	29.89	64	64	64	92	62	62	4	SSW	0.3	5	SSW	64	65	65	64	0	0.04	25	0.18	30	0	0	0	0	0.004	0
7:10 PM	29.89	64	64	64	92	61	62	4	SSW	0.3	5	S	64	65	65	64	0	0	29	0.21	32	0	0	0	0	0.005	0
7:15 PM	29.88	64	64	64	92	61	62	3	SSW	0.2	5	SW	64	65	65	64	0	0	25	0.18	25	0	0	0	0	0.005	0
7:20 PM	29.88	64	64	64	92	61	62	2	SSE	0.2	5	SSE	64	65	65	64	0	0	29	0.21	37	0	0	0	0	0.005	0
7:25 PM	29.89	64	64	64	93	62	62	2	SSE	0.2	5	SSE	64	65	65	65	0	0	63	0.45	72	0	0	0	0	0.005	0
7:30 PM	29.9	64	64	64	93	62	62	3	SSW	0.2	5	S	64	65	65	65	0	0	63	0.45	70	0	0	0	0	0.004	0
7:35 PM	29.89	64	64	64	93	62	62	3	S	0.2	5	SSW	64	65	65	65	0	0	87	0.62	95	0	0	0	0	0.005	0
7:40 PM	29.89	64	64	64	93	62	62	4	S	0.3	5	S	64	65	65	65	0	0	120	0.86	130	0	0	0	0	0.005	0
7:45 PM	29.89	64	64	64	93	62	62	3	S	0.2	5	S	64	65	65	66	0	0	123	0.88	130	0	0	0	0	0.004	0
7:50 PM	29.89	64	64	64	93	62	63	3	S	0.2	6	S	64	65	65	65	0	0	113	0.81	116	0	0	0	0	0.004	0
7:55 PM	29.9	64	64	64	94	62	63	2	S	0.2	4	SSE	64	65	65	65	0	0	91	0.65	100	0	0	0	0	0.004	0
8:00 PM	29.89	64	64	64	93	62	63	2	SSE	0.2	4	SSE	64	65	65	65	0	0	64	0.46	74	0	0	0	0	0.004	0
8:05 PM	29.89	64	64	64	93	62	62	3	SSE	0.2	5	SSE	64	65	65	64	0	0	35	0.25	47	0	0	0	0	0.005	0
8:10 PM	29.9	64	64	64	93	62	62	4	SSE	0.3	6	SSE	64	65	65	64	0	0	14	0.1	19	0	0	0	0	0.004	0
8:15 PM	29.9	64	64	64	93	62	62	4	S	0.3	6	SSW	64	65	65	63	0	0	6	0.04	9	0	0	0	0	0.005	0
8:20 PM	29.9	64	64	64	93	62	62	5	SSW	0.4	6	S	64	65	65	63	0	0	0	0	0	0	0	0	0	0.005	0
8:25 PM	29.9	64	64	64	94	62	62	4	S	0.3	5	SSW	64	65	65	63	0	0	0	0	0	0	0	0	0	0.005	0
8:30 PM	29.9	64	64	64	94	62	62	3	S	0.2	5	S	64	65	65	63	0	0	0	0	0	0	0	0	0	0.005	0
8:35 PM	29.9	64	64	63	94	62	62	4	SW	0.3	5	SSW	64	65	65	62	0	0	0	0	0	0	0	0	0	0.005	0
8:40 PM	29.9	63	64	63	94	62	62	3	SW	0.2	7	W	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
8:45 PM	29.9	64	64	63	94	62	62	4	N	0.3	9	WNW	64	65	65	62	0.17	5.43	0	0	0	0	0	0	0	0.005	0
8:50 PM	29.9	63	63	63	93	61	62	7	NW	0.6	10	NW	63	64	64	62	0.06	1.01	0	0	0	0	0	0	0	0.006	0
8:55 PM	29.91	62	63	62	92	60	61	9	WNW	0.8	12	NW	60	63	61	60	0.03	0.47	0	0	0	0	0	0	0	0.01	0
9:00 PM	29.9	61	62	61	92	59	60	8	W	0.7	10	W	60	62	61	59	0.06	1.09	0	0	0	0	0	0	0	0.012	0
9:05 PM	29.91	61	61	61	92	59	59	7	WNW	0.6	9	NW	60	62	61	59	0.03	0.72	0	0	0	0	0	0	0	0.014	0
9:10 PM	29.91	61	61	61	93	59	59	4	N	0.3	7	WNW	61	61	61	59	0.03	0.46	0	0	0	0	0	0	0	0.015	0
9:15 PM	29.91	61	61	61	93	59	60	6	NNE	0.5	10	NNE	61	61	61	59	0.01	0.34	0	0	0	0	0	0	0	0.014	0
9:20 PM	29.91	61	61	61	92	59	59	4	N	0.3	8	NNE	61	61	61	60	0	0.07	0	0	0	0	0	0	0	0.014	0
9:25 PM	29.92	61	61	61	92	59	60	1	N	0.1	3	N	61	62	62	60	0	0.04	0	0	0	0	0	0	0	0.013	0
9:30 PM	29.92	61	61	61	92	59	60	3	W	0.2	6	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
9:35 PM	29.92	61	61	61	92	58	59	4	W	0.3	7	W	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
9:40 PM	29.93	61	61	61	92	58	59	4	W	0.3	6	W	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
9:45 PM	29.93	60	61	60	93	58	59	3	W	0.2	6	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
9:50 PM	29.93	60	61	60	93	58	59	2	W	0.2	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
9:55 PM	29.93	61	61	61	92	59	59	1	W	0.1	3	W	61	61	61	60	0	0	0	0	0	0	0	0	0	0.014	0
10:00 PM	29.93	61	61	61	92	59	59	2	WNW	0.2	3	WNW	61	61	61	59	0.01	0	0	0	0	0	0	0	0	0.014	0
10:05 PM	29.93	61	61	61	92	58	59	3	W	0.2	6	W	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
10:10 PM	29.93	61	61	60	93	59	59	4	NNW	0.3	6	W	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
10:15 PM	29.93	61	61	61	93	59	60	3	WNW	0.2	4	NW	61	61	61	60	0.01	0.04	0	0	0	0	0	0	0	0.014	0
10:20 PM	29.93	61	61	61	93	59	60	2	W	0.2	4	W	61	61	61	59	0	0.04	0	0	0	0	0	0	0	0.014	0
10:25 PM	29.93	61	61	60	93	59	59	4	W	0.3	7	WSW	61	61	61	59	0	0.04	0	0	0	0	0	0	0	0.015	0
10:30 PM	29.93	60	60	60	94	59	59	3	W	0.2	6	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
10:35 PM	29.94	60	60	60	94	58	59	1	W	0.1	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0
10:40 PM	29.94	60	60	60	95	59	59	0		0	2	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0
10:45 PM	29.93	60	60	60	95	59	59	0		0	0		60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
10:50 PM	29.94	60	60	60	95	59	59	0		0	2	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
10:55 PM	29.94	60	60	60	95	59	59	2	W	0.2	3	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
11:00 PM	29.94	60	60	60	95	59	59	2	W	0.2	3	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
11:05 PM	29.94	60	60	60	95	59	59	2	W	0.2	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0
11:10 PM	29.94	60	60	60	95	59	59	3	WSW	0.2	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0
11:15 PM	29.94	60	60	60	95	59	59	3	W	0.2	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0

11:20 PM	29.94	60	60	60	95	59	59	2	W	0.2	3	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0
11:25 PM	29.94	60	60	60	95	59	59	2	W	0.2	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
11:30 PM	29.93	60	60	60	96	59	60	3	W	0.2	4	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
11:35 PM	29.93	61	61	60	96	59	60	3	W	0.2	3	W	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
11:40 PM	29.93	61	61	61	96	60	60	3	W	0.2	4	W	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
11:45 PM	29.94	61	61	61	96	60	60	3	W	0.2	4	W	61	61	61	60	0	0	0	0	0	0	0	0	0	0.015	0
11:50 PM	29.94	61	61	61	96	60	60	3	W	0.2	4	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.015	0
11:55 PM	29.94	61	61	61	96	60	60	2	W	0.2	4	NW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
8/2/2021 12:00 AM	29.94	61	61	61	96	60	60	4	WNW	0.3	8	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
12:05 AM	29.94	61	61	61	96	60	60	6	WNW	0.5	8	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
12:10 AM	29.94	61	61	61	96	60	61	7	WNW	0.6	9	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
12:15 AM	29.94	61	61	61	96	60	61	6	WNW	0.5	9	WNW	61	62	62	59	0	0	0	0	0	0	0	0	0	0.013	0
12:20 AM	29.94	61	61	61	96	60	61	6	WNW	0.5	10	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
12:25 AM	29.94	61	61	61	96	60	61	7	WNW	0.6	11	WNW	61	62	62	59	0	0	0	0	0	0	0	0	0	0.013	0
12:30 AM	29.94	61	61	61	96	60	61	5	NW	0.4	8	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.012	0
12:35 AM	29.94	61	61	61	96	60	61	7	WNW	0.6	10	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.012	0
12:40 AM	29.95	61	61	61	96	60	61	7	WNW	0.6	10	W	61	62	62	59	0	0	0	0	0	0	0	0	0	0.013	0
12:45 AM	29.94	61	61	61	96	60	60	6	WNW	0.5	9	NW	61	62	62	59	0	0	0	0	0	0	0	0	0	0.013	0
12:50 AM	29.95	61	61	61	96	60	60	4	W	0.3	7	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
12:55 AM	29.95	61	61	61	96	60	60	3	W	0.2	6	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
1:00 AM	29.95	61	61	61	96	60	60	3	W	0.2	4	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
1:05 AM	29.95	61	61	61	96	60	60	2	WNW	0.2	4	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
1:10 AM	29.95	61	61	61	96	60	60	3	WNW	0.2	4	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
1:15 AM	29.95	61	61	61	96	60	60	5	WNW	0.4	7	NW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
1:20 AM	29.95	61	61	61	96	60	60	4	WNW	0.3	7	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
1:25 AM	29.95	61	61	61	96	60	60	3	WNW	0.2	8	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
1:30 AM	29.95	61	61	61	96	60	60	6	WNW	0.5	10	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
1:35 AM	29.95	61	61	61	96	60	60	7	WNW	0.6	9	W	61	62	61	60	0	0	0	0	0	0	0	0	0	0.014	0
1:40 AM	29.95	61	61	61	96	60	60	5	NW	0.4	9	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
1:45 AM	29.95	61	61	61	96	60	60	6	NW	0.5	10	NW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
1:50 AM	29.95	61	61	61	96	60	60	8	WNW	0.7	11	WNW	60	62	61	59	0	0	0	0	0	0	0	0	0	0.013	0
1:55 AM	29.95	61	61	61	96	60	60	7	WNW	0.6	10	WNW	61	62	61	60	0	0	0	0	0	0	0	0	0	0.014	0
2:00 AM	29.95	61	61	61	95	60	60	6	WNW	0.5	12	W	61	62	62	59	0	0	0	0	0	0	0	0	0	0.014	0
2:05 AM	29.95	61	61	61	96	60	60	7	WNW	0.6	10	W	61	62	61	60	0	0	0	0	0	0	0	0	0	0.014	0
2:10 AM	29.95	61	61	61	96	60	60	4	WNW	0.3	9	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
2:15 AM	29.95	61	61	61	95	60	60	4	WNW	0.3	8	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
2:20 AM	29.95	61	61	61	95	60	60	4	WNW	0.3	7	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
2:25 AM	29.95	61	61	61	95	60	60	5	WNW	0.4	8	W	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
2:30 AM	29.95	61	61	61	95	60	60	4	WNW	0.3	6	WNW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
2:35 AM	29.95	61	61	61	95	60	60	4	NW	0.3	6	NW	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
2:40 AM	29.96	61	61	61	95	59	60	6	WNW	0.5	9	NW	61	62	61	60	0	0	0	0	0	0	0	0	0	0.014	0
2:45 AM	29.96	61	61	61	95	59	60	6	WNW	0.5	10	WNW	61	62	61	60	0	0	0	0	0	0	0	0	0	0.014	0
2:50 AM	29.96	61	61	61	95	59	60	7	WNW	0.6	10	WNW	60	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:55 AM	29.96	61	61	61	95	59	60	6	WNW	0.5	10	WNW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
3:00 AM	29.96	61	61	61	95	59	60	5	WNW	0.4	9	NW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
3:05 AM	29.96	61	61	61	95	59	60	4	WNW	0.3	7	WNW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
3:10 AM	29.96	61	61	61	94	59	60	6	WNW	0.5	10	NW	60	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
3:15 AM	29.96	61	61	60	94	59	59	6	WNW	0.5	9	WNW	60	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
3:20 AM	29.97	60	61	60	94	59	59	6	WNW	0.5	9	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
3:25 AM	29.96	60	60	60	94	59	59	5	NW	0.4	7	NW	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
3:30 AM	29.96	60	60	60	94	59	59	5	NW	0.4	8	NNW	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
3:35 AM	29.96	60	60	60	94	58	59	5	WNW	0.4	8	W	60	61	61	59	0	0	0	0	0	0	0	0	0	0.017	0
3:40 AM	29.96	60	60	60	94	58	59	5	NW	0.4	8	WNW	60	61	61	58	0	0	0	0	0	0	0	0	0	0.017	0
3:45 AM	29.96	60	60	60	94	58	59	5	WNW	0.4	8	WNW	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:50 AM	29.96	60	60	60	94	58	59	5	WNW	0.4	7	WNW	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:55 AM	29.97	60	60	60	95	58	59	5	WNW	0.4	7	WNW	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0

4:00 AM	29.97	60	60	60	95	58	59	5	WNW	0.4	8	WNW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:05 AM	29.97	60	60	60	95	58	59	6	WNW	0.5	8	WNW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:10 AM	29.97	60	60	59	95	58	59	5	WNW	0.4	9	WNW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:15 AM	29.97	59	60	59	94	58	58	4	WNW	0.3	7	WNW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:20 AM	29.97	59	59	59	94	58	58	5	NW	0.4	9	WNW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.02	0
4:25 AM	29.97	59	59	59	94	58	58	5	NW	0.4	7	NW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.02	0
4:30 AM	29.97	59	59	59	95	58	58	5	WNW	0.4	8	NW	59	60	60	58	0	0	0	0	0	0	0	0	0	0.02	0
4:35 AM	29.97	59	59	59	95	58	58	5	WNW	0.4	9	W	59	60	60	58	0	0	0	0	0	0	0	0	0	0.02	0
4:40 AM	29.98	59	59	59	95	58	58	3	WNW	0.2	6	WNW	59	60	60	57	0	0	0	0	0	0	0	0	0	0.02	0
4:45 AM	29.97	59	59	59	95	58	58	3	WNW	0.2	7	WNW	59	60	60	57	0	0	0	0	0	0	0	0	0	0.02	0
4:50 AM	29.98	59	59	59	95	58	58	5	WNW	0.4	8	WNW	59	60	59	57	0	0	0	0	0	0	0	0	0	0.02	0
4:55 AM	29.98	59	59	59	95	58	58	4	WNW	0.3	7	NW	59	60	60	57	0	0	0	0	0	0	0	0	0	0.02	0
5:00 AM	29.98	59	59	59	95	58	58	4	WNW	0.3	7	WNW	59	60	60	57	0	0	0	0	0	0	0	0	0	0.021	0
5:05 AM	29.98	59	59	59	95	57	58	3	WNW	0.2	5	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.021	0
5:10 AM	29.98	59	59	59	95	57	58	4	WNW	0.3	6	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:15 AM	29.99	59	59	59	95	57	58	3	WNW	0.2	5	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:20 AM	29.99	59	59	58	95	57	58	2	WNW	0.2	3	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:25 AM	29.99	58	58	58	95	57	57	1	WNW	0.1	2	WNW	58	59	59	57	0	0	0	0	0	0	0	0	0	0.023	0
5:30 AM	29.99	58	58	58	95	57	57	1	WNW	0.1	3	WNW	58	59	59	56	0	0	0	0	0	0	0	0	0	0.023	0
5:35 AM	29.99	58	58	58	95	57	57	3	WNW	0.2	7	WNW	58	59	59	57	0	0	0	0	0	0	0	0	0	0.023	0
5:40 AM	29.99	59	59	58	95	57	58	2	WNW	0.2	5	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:45 AM	29.99	59	59	59	95	57	58	4	WNW	0.3	7	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.021	0
5:50 AM	30	59	59	59	95	57	58	3	WNW	0.2	5	WNW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.021	0
5:55 AM	30	59	59	58	95	57	58	4	WNW	0.3	7	W	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
6:00 AM	30	58	58	58	95	57	57	2	WNW	0.2	4	WNW	58	59	59	56	0	0	0	0	0	0	0	0	0	0.023	0
6:05 AM	30.01	58	58	58	95	57	57	3	WNW	0.2	4	WNW	58	59	59	56	0	0	2	0.01	5	0	0	0	0	0.024	0
6:10 AM	30	58	58	58	95	57	57	4	WNW	0.3	6	W	58	59	59	56	0	0	6	0.04	7	0	0	0	0	0.024	0
6:15 AM	30	58	58	58	96	57	57	5	WNW	0.4	7	W	58	59	58	56	0	0	10	0.07	11	0	0	0	0	0.024	0
6:20 AM	30	58	58	58	95	57	57	5	WNW	0.4	7	W	58	59	58	56	0	0	12	0.09	14	0	0	0	0	0.024	0
6:25 AM	30.01	58	58	58	96	57	57	3	WNW	0.2	6	WNW	58	59	59	56	0	0	15	0.11	16	0	0	0	0	0.024	0
6:30 AM	30.01	58	58	58	96	57	57	4	WNW	0.3	7	WNW	58	59	59	56	0	0	18	0.13	19	0	0	0	0	0.024	0
6:35 AM	30.01	58	58	58	96	57	57	4	WNW	0.3	7	WNW	58	59	59	56	0	0	20	0.14	21	0	0	0	0	0.024	0
6:40 AM	30.01	58	58	58	96	57	57	5	W	0.4	8	W	58	59	58	56	0	0	30	0.22	40	0	0	0	0	0.024	0
6:45 AM	30.02	58	58	58	96	57	57	4	W	0.3	8	W	58	59	59	57	0	0	31	0.22	39	0	0	0	0	0.024	0
6:50 AM	30.01	58	58	58	96	57	58	3	W	0.2	6	W	58	59	59	58	0	0	63	0.45	70	0	0	0	0	0.023	0
6:55 AM	30.01	58	58	58	96	57	58	3	W	0.2	6	W	58	59	59	59	0	0	77	0.55	83	0	0	0	0	0.023	0
7:00 AM	30.02	59	59	59	96	58	58	6	WNW	0.5	9	W	58	59	59	59	0	0	90	0.65	97	0	0	0	0	0.022	0
7:05 AM	30.02	59	59	59	96	58	58	5	WNW	0.4	8	WNW	59	60	59	62	0	0	104	0.75	111	0	0	0	0	0.021	0
7:10 AM	30.02	60	60	59	96	58	59	6	WNW	0.5	9	WNW	59	60	60	62	0	0	119	0.85	125	0	0	0	0	0.019	0
7:15 AM	30.03	60	60	60	95	59	59	4	WNW	0.3	7	W	60	61	61	65	0	0	130	0.93	132	0	0	0	0	0.017	0
7:20 AM	30.04	60	60	60	95	58	59	8	WNW	0.7	13	WNW	58	60	59	63	0	0	135	0.97	137	0	0	0	0	0.018	0
7:25 AM	30.04	60	60	60	94	58	59	6	W	0.5	10	WNW	60	61	60	60	0	0	139	1	142	0	0	0	0	0.017	0
7:30 AM	30.04	60	60	60	94	58	59	8	W	0.7	14	W	59	61	59	61	0	0	149	1.07	155	0	0	0	0	0.017	0
7:35 AM	30.04	60	60	60	94	59	59	8	WNW	0.7	14	W	59	61	59	60	0	0	168	1.2	178	0	0	0	0	0.016	0
7:40 AM	30.04	61	61	60	93	59	59	8	W	0.7	12	WNW	59	61	60	62	0	0	189	1.36	199	0	0	0	1	0.015	0
7:45 AM	30.03	61	61	61	93	59	59	8	W	0.7	13	WSW	59	61	60	67	0	0	207	1.48	211	0	1	0	1	0.015	0
7:50 AM	30.04	61	61	61	93	59	60	9	WNW	0.8	13	W	59	62	60	63	0	0	214	1.53	216	0	1	0	1	0.014	0
7:55 AM	30.03	61	62	61	92	59	60	8	W	0.7	13	W	60	62	61	62	0	0	221	1.58	223	0	1	0	1	0.012	0
8:00 AM	30.04	62	62	62	91	59	60	8	W	0.7	12	WNW	60	62	61	65	0	0	227	1.63	230	0	1	0	1	0.012	0
8:05 AM	30.04	62	62	62	91	59	60	8	WNW	0.7	13	WNW	61	63	61	65	0	0	232	1.66	234	0	1	0	1	0.011	0
8:10 AM	30.05	62	62	62	91	60	60	9	W	0.8	14	WNW	60	63	61	64	0	0	224	1.61	230	0	1	0	1	0.01	0
8:15 AM	30.04	63	63	62	90	60	61	7	W	0.6	12	WNW	62	63	63	66	0	0	210	1.51	214	0	1	0	1	0.008	0
8:20 AM	30.04	64	64	63	90	61	61	7	WNW	0.6	10	WNW	63	64	64	67	0	0	225	1.61	243	0	1	0	1	0.005	0
8:25 AM	30.04	64	64	64	88	60	61	9	W	0.8	14	WNW	62	65	63	68	0	0	264	1.89	269	0	1	0	1	0.004	0
8:30 AM	30.05	64	64	64	88	60	61	8	WNW	0.7	13	WNW	63	64	64	68	0	0	255	1.83	262	0	1	0	1	0.005	0
8:35 AM	30.05	64	64	64	87	60	61	9	W	0.8	14	NW	62	65	63	67	0	0	266	1.91	276	0	1	0	1	0.004	0
8:40 AM	30.06	64	64	64	87	60	61	11	W	0.9	15	WNW	61	64	61	66	0	0	282	2.02	283	0	1	0.1	2	0.004	0

8:45 AM	30.05	64	64	64	88	60	62	9	W	0.8	13	WNW	63	65	63	66	0	0	287	2.06	290	0	2	0.1	2	0.003	0
8:50 AM	30.05	64	64	64	86	60	62	10	WNW	0.8	14	NW	62	65	63	67	0	0	301	2.16	309	0	2	0.1	2	0.002	0
8:55 AM	30.06	64	65	64	86	60	62	9	W	0.8	16	WNW	63	65	64	68	0	0	328	2.35	346	0	2	0.1	2	0.002	0
9:00 AM	30.06	65	66	65	84	60	62	7	W	0.6	12	WNW	65	66	66	71	0	0	370	2.65	390	0.01	2	0.1	2	0	0.001
9:05 AM	30.06	66	66	66	83	60	62	10	WNW	0.8	15	W	63	66	64	72	0	0	420	3.01	439	0	2	0.1	2	0	0.002
9:10 AM	30.06	66	66	66	82	60	62	9	W	0.8	16	NW	65	67	66	75	0	0	458	3.28	471	0	2	0.1	2	0	0.003
9:15 AM	30.06	66	66	66	81	60	62	13	WNW	1.1	17	WNW	62	67	63	75	0	0	485	3.48	490	0	2	0.1	2	0	0.004
9:20 AM	30.06	66	66	66	80	60	62	13	WNW	1.1	20	NW	62	67	63	73	0	0	507	3.64	524	0	2	0.1	2	0	0.004
9:25 AM	30.06	66	66	66	78	59	62	14	WNW	1.2	20	WNW	62	67	63	72	0	0	517	3.71	520	0	2	0.1	2	0	0.005
9:30 AM	30.06	67	67	66	78	60	62	11	W	0.9	18	NNW	64	67	65	74	0	0	528	3.79	534	0	2	0.1	3	0	0.006
9:35 AM	30.07	67	67	67	77	60	62	11	WNW	0.9	17	NNW	65	68	65	75	0	0	540	3.87	547	0	3	0.1	3	0	0.007
9:40 AM	30.07	68	68	67	77	60	62	10	W	0.8	16	WNW	65	68	66	76	0	0	553	3.97	559	0	3	0.1	3	0	0.009
9:45 AM	30.07	68	68	67	76	60	62	13	WNW	1.1	19	W	64	68	65	74	0	0	568	4.07	571	0	3	0.1	3	0	0.009
9:50 AM	30.07	67	67	67	76	59	62	14	WNW	1.2	19	W	63	68	64	73	0	0	580	4.16	585	0	3	0.1	3	0	0.008
9:55 AM	30.07	67	67	67	76	59	62	13	W	1.1	19	WNW	63	68	64	73	0	0	591	4.24	596	0	3	0.1	3	0	0.008
10:00 AM	30.07	68	69	67	75	60	62	10	WNW	0.8	16	W	66	69	67	76	0	0	604	4.33	608	0.01	3	0.1	3	0	0.01
10:05 AM	30.08	69	69	68	74	60	63	11	W	0.9	17	WNW	66	69	67	77	0	0	615	4.41	619	0	3	0.1	3	0	0.012
10:10 AM	30.08	69	69	69	75	61	63	12	WNW	1	17	WNW	66	70	67	77	0	0	626	4.49	631	0	4	0.1	4	0	0.013
10:15 AM	30.08	68	69	68	74	60	62	12	WNW	1	17	WNW	65	69	66	76	0	0	639	4.58	645	0	4	0.1	4	0	0.012
10:20 AM	30.08	69	69	68	72	59	62	11	WNW	0.9	16	WNW	66	69	67	76	0	0	650	4.66	654	0	4	0.1	4	0	0.012
10:25 AM	30.08	69	69	68	73	60	62	10	WNW	0.8	15	W	67	69	67	77	0	0	671	4.81	689	0	4	0.1	4	0	0.012
10:30 AM	30.08	69	69	69	71	59	62	11	WNW	0.9	15	NW	67	70	67	77	0	0	668	4.79	701	0	4	0.1	4	0	0.015
10:35 AM	30.08	70	70	69	71	60	63	8	W	0.7	13	WNW	69	70	69	79	0	0	710	5.09	717	0	4	0.2	4	0	0.016
10:40 AM	30.08	71	71	70	69	60	63	8	W	0.7	13	WSW	70	71	70	82	0	0	735	5.27	758	0	4	0.2	5	0	0.021
10:45 AM	30.09	71	72	71	66	59	63	9	W	0.8	13	W	70	71	70	81	0	0	747	5.36	773	0	5	0.2	5	0	0.021
10:50 AM	30.09	72	72	71	64	59	62	11	NNW	0.9	18	NW	69	72	69	79	0	0	768	5.51	779	0	5	0.2	5	0	0.023
10:55 AM	30.08	71	71	70	70	60	63	11	NNW	0.9	16	N	68	71	68	78	0	0	770	5.52	777	0	5	0.2	5	0	0.02
11:00 AM	30.08	71	71	70	66	59	62	11	NNW	0.9	18	NW	68	71	68	77	0	0	797	5.71	816	0.02	4	0.1	5	0	0.02
11:05 AM	30.09	71	72	70	67	59	63	9	WNW	0.8	18	W	69	71	70	78	0	0	378	2.71	833	0	4	0.2	5	0	0.021
11:10 AM	30.09	71	72	71	68	60	63	8	W	0.7	16	WNW	70	71	70	78	0	0	640	4.59	795	0	5	0.2	6	0	0.021
11:15 AM	30.09	72	72	71	61	58	62	11	NW	0.9	18	NW	69	72	69	80	0	0	787	5.64	789	0	6	0.2	6	0	0.024
11:20 AM	30.09	72	72	71	61	58	62	15	NNW	1.2	20	N	68	72	68	78	0	0	792	5.68	793	0	6	0.2	6	0	0.024
11:25 AM	30.09	71	72	71	62	57	61	11	NNW	0.9	18	N	68	71	68	78	0	0	800	5.74	809	0	6	0.2	6	0	0.021
11:30 AM	30.09	72	72	71	60	57	61	15	NNW	1.2	22	NNW	67	71	67	77	0	0	824	5.91	831	0	6	0.2	6	0	0.023
11:35 AM	30.09	72	72	71	59	56	61	13	NNW	1.1	22	NNW	68	71	68	78	0	0	812	5.82	817	0	6	0.2	6	0	0.023
11:40 AM	30.09	72	72	71	55	54	59	13	N	1.1	19	N	68	71	67	76	0	0	824	5.91	833	0	6	0.2	6	0	0.023
11:45 AM	30.09	71	71	71	57	55	60	14	NNW	1.2	18	N	67	70	67	76	0	0	898	6.44	990	0	7	0.2	7	0	0.021
11:50 AM	30.09	71	71	71	60	56	61	12	NNW	1	18	N	68	71	68	76	0	0	902	6.47	912	0	7	0.2	7	0	0.021
11:55 AM	30.09	71	71	71	61	57	61	9	NW	0.8	15	N	70	71	69	77	0	0	546	3.91	925	0	5	0.2	7	0	0.021
12:00 PM	30.1	72	72	71	51	53	58	12	NNW	1	18	NW	69	71	68	78	0	0	710	5.09	865	0.02	6	0.2	7	0	0.024
12:05 PM	30.09	72	72	72	56	55	60	12	NNW	1	16	NNW	69	71	68	78	0	0	857	6.14	868	0	7	0.2	7	0	0.023
12:10 PM	30.1	72	72	72	54	54	59	13	NNW	1.1	21	NW	68	71	68	77	0	0	871	6.25	891	0	7	0.2	7	0	0.024
12:15 PM	30.1	72	72	72	55	55	60	11	NNW	0.9	18	NW	69	71	69	79	0	0	879	6.3	886	0	6	0.2	7	0	0.024
12:20 PM	30.1	72	73	72	54	55	59	12	NNW	1	17	NNW	69	72	69	78	0	0	661	4.74	916	0	6	0.2	7	0	0.025
12:25 PM	30.1	72	72	71	54	54	59	13	NNW	1.1	21	NNW	68	71	67	78	0	0	939	6.73	939	0	6	0.2	7	0	0.023
12:30 PM	30.1	72	72	71	50	52	57	16	NNW	1.3	21	NNW	67	70	66	75	0	0	904	6.48	930	0	7	0.3	7	0	0.023
12:35 PM	30.1	72	72	72	51	53	58	15	WNW	1.2	23	W	68	71	67	75	0	0	896	6.42	909	0	7	0.3	7	0	0.024
12:40 PM	30.1	73	73	72	49	52	58	14	NNW	1.2	19	NNW	69	72	68	75	0	0	905	6.49	942	0	7	0.2	7	0	0.026
12:45 PM	30.1	72	72	72	51	53	58	13	NNW	1.1	20	NW	69	71	68	76	0	0	929	6.66	953	0	7	0.3	8	0	0.024
12:50 PM	30.1	74	74	72	50	54	59	11	W	0.9	24	W	71	73	71	82	0	0	970	6.96	976	0	8	0.3	8	0	0.03
12:55 PM	30.1	74	75	74	47	53	59	14	W	1.2	26	WNW	71	74	70	81	0	0	980	7.03	1000	0	7	0.2	8	0	0.033
1:00 PM	30.1	74	74	74	50	54	59	11	W	0.9	20	WNW	72	74	71	80	0	0	968	6.94	983	0.03	7	0.3	8	0	0.031
1:05 PM	30.11	74	74	74	44	51	57	12	NNW	1	22	NNW	71	73	70	81	0	0	998	7.16	1048	0	6	0.2	8	0	0.031
1:10 PM	30.1	72	73	72	47	51	57	15	NNW	1.2	18	N	68	71	67	75	0	0	343	2.46	860	0	5	0.2	7	0	0.026
1:15 PM	30.1	72	73	72	49	52	58	13	WNW	1.1	20	SW	69	71	68	77	0	0	941	6.75	958	0	7	0.3	8	0	0.025
1:20 PM	30.1	73	73	72	52	54	59	15	NNW	1.2	20	NNW	69	72	68	78	0	0	739	5.3	991	0	5	0.2	7	0	0.026
1:25 PM	30.1	72	72	72	50	52	58	13	NW	1.1	17	NW	69	71	68	76	0	0	657	4.71	1063	0	5	0.2	7	0	0.025

1:30 PM	30.1	72	72	72	49	52	57	14	NNW	1.2	20	NNW	68	71	67	77	0	0	913	6.55	914	0	6	0.2	7	0	0.024
1:35 PM	30.1	72	73	72	51	53	58	14	NNW	1.2	20	NW	68	71	68	77	0	0	922	6.61	923	0	7	0.2	7	0	0.025
1:40 PM	30.1	73	73	73	45	50	57	15	NNW	1.2	20	NNW	69	72	68	77	0	0	938	6.73	951	0	7	0.3	7	0	0.028
1:45 PM	30.1	73	73	72	47	51	57	14	NNW	1.2	19	WNW	69	72	68	77	0	0	882	6.32	889	0	7	0.2	7	0	0.026
1:50 PM	30.11	73	73	72	44	50	56	16	NNW	1.3	22	NNW	69	72	68	76	0	0	872	6.25	877	0	7	0.2	7	0	0.027
1:55 PM	30.11	73	73	73	48	52	58	14	NNW	1.2	23	NNW	69	72	69	76	0	0	893	6.4	923	0	7	0.2	7	0	0.028
2:00 PM	30.1	75	76	73	46	53	58	11	WNW	0.9	17	NNW	72	74	72	80	0	0	876	6.28	911	0.03	7	0.2	7	0	0.034
2:05 PM	30.1	75	76	75	47	54	59	14	WNW	1.2	20	W	72	75	72	82	0	0	851	6.1	856	0	7	0.2	7	0	0.036
2:10 PM	30.1	74	75	74	44	51	57	15	NNW	1.2	22	NNW	71	74	70	79	0	0	851	6.1	853	0	7	0.2	7	0	0.033
2:15 PM	30.1	73	74	73	49	53	58	16	NNW	1.3	24	NW	69	73	68	77	0	0	858	6.15	861	0	7	0.2	7	0	0.028
2:20 PM	30.11	74	74	73	45	51	57	14	WNW	1.2	21	W	70	73	70	78	0	0	852	6.11	854	0	7	0.2	7	0	0.031
2:25 PM	30.1	74	74	74	47	52	58	16	NNW	1.3	21	WNW	70	74	69	79	0	0	837	6	846	0	6	0.2	6	0	0.031
2:30 PM	30.1	73	74	73	46	51	57	16	NNW	1.3	25	NNW	69	72	68	76	0	0	834	5.98	840	0	6	0.2	6	0	0.028
2:35 PM	30.1	73	73	73	45	50	56	17	NNW	1.4	25	NNW	68	72	67	75	0	0	871	6.25	889	0	6	0.2	6	0	0.027
2:40 PM	30.1	73	73	72	45	50	56	17	NNW	1.4	23	NNW	68	72	67	74	0	0	826	5.92	842	0	6	0.2	6	0	0.026
2:45 PM	30.1	73	73	73	47	51	57	16	NNW	1.3	22	N	68	72	68	76	0	0	814	5.84	817	0	6	0.2	6	0	0.027
2:50 PM	30.1	73	74	73	48	52	58	15	WNW	1.2	20	W	69	72	68	77	0	0	805	5.77	809	0	6	0.2	6	0	0.028
2:55 PM	30.1	74	74	74	49	54	59	12	WNW	1	19	W	71	74	71	80	0	0	811	5.82	814	0	5	0.2	6	0	0.031
3:00 PM	30.1	74	74	73	47	52	58	16	NNW	1.3	24	N	70	74	69	78	0	0	806	5.78	819	0.03	6	0.2	6	0	0.031
3:05 PM	30.1	73	73	73	45	51	57	16	N	1.3	20	N	69	72	68	76	0	0	783	5.61	789	0	6	0.2	6	0	0.028
3:10 PM	30.1	73	73	73	47	52	57	15	NNW	1.2	23	N	69	72	68	77	0	0	773	5.54	784	0	6	0.2	6	0	0.028
3:15 PM	30.1	73	74	73	46	51	57	15	NNW	1.2	23	N	69	73	69	77	0	0	762	5.46	766	0	5	0.2	5	0	0.029
3:20 PM	30.1	74	74	74	44	50	57	12	NW	1	20	NNW	71	73	70	79	0	0	754	5.41	756	0	5	0.2	5	0	0.03
3:25 PM	30.1	74	74	73	45	51	57	16	NNW	1.3	22	NW	69	73	69	78	0	0	745	5.34	751	0	5	0.2	5	0	0.03
3:30 PM	30.1	73	73	73	46	51	57	14	NNW	1.2	22	NNW	69	72	68	76	0	0	736	5.28	740	0	5	0.2	5	0	0.027
3:35 PM	30.1	73	73	72	44	50	56	15	NNW	1.2	21	NNW	69	72	68	78	0	0	725	5.2	729	0	5	0.2	5	0	0.027
3:40 PM	30.1	73	74	73	45	51	57	13	NNW	1.1	20	NNW	70	72	69	79	0	0	716	5.13	721	0	5	0.2	5	0	0.028
3:45 PM	30.1	73	74	73	46	51	57	13	NNW	1.1	19	NNW	70	73	69	79	0	0	707	5.07	712	0	5	0.2	5	0	0.029
3:50 PM	30.1	74	74	73	48	53	58	11	NNW	0.9	17	NNW	71	73	71	81	0	0	697	5	701	0	4	0.2	5	0	0.03
3:55 PM	30.1	75	75	74	42	50	57	13	NNW	1.1	21	NNW	72	74	71	81	0	0	686	4.92	689	0	4	0.2	4	0	0.034
4:00 PM	30.11	74	75	73	44	51	57	14	NNW	1.2	20	NNW	70	73	69	78	0	0	675	4.84	679	0.03	4	0.1	4	0	0.031
4:05 PM	30.1	72	73	72	44	49	56	14	NNW	1.2	19	N	69	71	68	75	0	0	665	4.77	670	0	4	0.1	4	0	0.026
4:10 PM	30.1	72	72	72	44	49	56	14	N	1.2	19	N	69	71	67	76	0	0	655	4.7	659	0	4	0.1	4	0	0.025
4:15 PM	30.1	72	73	72	45	50	56	14	NNW	1.2	21	NNW	69	71	67	78	0	0	643	4.61	649	0	4	0.1	4	0	0.026
4:20 PM	30.1	73	73	72	44	49	56	13	NNW	1.1	21	NNW	69	71	68	77	0	0	633	4.54	636	0	4	0.1	4	0	0.026
4:25 PM	30.1	73	74	73	45	51	57	14	NNW	1.2	20	N	70	72	69	77	0	0	622	4.46	626	0	4	0.1	4	0	0.029
4:30 PM	30.1	74	74	73	42	49	56	11	W	0.9	20	WNW	71	73	70	81	0	0	609	4.37	613	0	3	0.1	4	0	0.031
4:35 PM	30.1	74	74	74	41	49	55	11	NNW	0.9	17	N	71	73	70	80	0	0	596	4.27	603	0	3	0.1	3	0	0.031
4:40 PM	30.1	73	74	73	44	50	56	12	NNW	1	17	WNW	70	72	70	80	0	0	581	4.17	587	0	3	0.1	3	0	0.029
4:45 PM	30.1	74	75	74	44	51	57	10	NW	0.8	19	NNW	72	73	71	81	0	0	569	4.08	573	0	3	0.1	3	0	0.031
4:50 PM	30.11	75	76	75	41	50	56	10	WNW	0.8	15	W	73	74	72	81	0	0	557	3.99	561	0	3	0.1	3	0	0.035
4:55 PM	30.1	75	75	75	41	50	56	10	W	0.8	16	W	73	74	72	81	0	0	544	3.9	548	0	3	0.1	3	0	0.034
5:00 PM	30.1	75	75	74	42	50	56	11	NW	0.9	17	NNW	72	74	71	81	0	0	530	3.8	538	0.02	3	0.1	3	0	0.033
5:05 PM	30.1	74	74	74	41	49	56	12	NW	1	17	NNW	71	73	70	79	0	0	515	3.69	520	0	3	0.1	3	0	0.032
5:10 PM	30.1	74	74	74	42	49	56	9	NW	0.8	16	WNW	72	73	71	80	0	0	502	3.6	508	0	2	0.1	2	0	0.031
5:15 PM	30.1	74	74	73	42	49	56	12	NNW	1	16	N	71	73	70	79	0	0	487	3.49	492	0	2	0.1	2	0	0.031
5:20 PM	30.1	73	73	72	43	49	55	13	NNW	1.1	17	NNW	69	72	68	78	0	0	472	3.38	480	0	2	0.1	2	0	0.027
5:25 PM	30.1	72	72	72	43	49	55	13	NNW	1.1	19	NNW	69	71	67	76	0	0	457	3.28	462	0	2	0.1	2	0	0.025
5:30 PM	30.1	73	74	72	44	50	56	12	WNW	1	19	W	70	72	69	78	0	0	444	3.18	450	0	2	0.1	2	0	0.028
5:35 PM	30.1	74	75	73	43	50	57	8	W	0.7	13	NW	73	73	72	81	0	0	429	3.08	436	0	2	0.1	2	0	0.032
5:40 PM	30.1	74	75	74	43	51	57	12	NW	1	17	NW	72	74	71	80	0	0	415	2.98	420	0	2	0.1	2	0	0.033
5:45 PM	30.1	74	74	73	41	48	55	13	NNW	1.1	18	NNW	70	72	69	77	0	0	401	2.88	406	0	2	0.1	2	0	0.03
5:50 PM	30.1	73	74	72	46	51	57	8	NNW	0.7	12	NNW	72	72	71	79	0	0	385	2.76	390	0	2	0.1	2	0	0.027
5:55 PM	30.1	74	74	73	44	50	57	9	NW	0.8	13	NNW	72	73	71	79	0	0	371	2.66	378	0	1	0.1	1	0	0.03
6:00 PM	30.1	73	73	72	44	50	56	11	NNW	0.9	16	NNW	70	72	69	77	0	0	357	2.56	362	0.02	1	0	1	0	0.027
6:05 PM	30.1	72	72	72	44	49	55	10	NNW	0.8	14	NW	70	71	69	76	0	0	343	2.46	350	0	1	0	1	0	0.025
6:10 PM	30.11	73	74	72	42	49	55	8	WNW	0.7	14	NW	72	72	71	78	0	0	326	2.34	334	0	1	0	1	0	0.028

6:15 PM	30.11	74	74	73	42	49	56	8	W	0.7	13	WNW	73	72	71	79	0	0	311	2.23	316	0	1	0	1	0	0.03
6:20 PM	30.1	74	75	74	42	50	56	7	NW	0.6	12	NW	74	73	73	80	0	0	296	2.12	302	0	1	0	1	0	0.032
6:25 PM	30.11	73	74	73	41	48	55	9	NNW	0.8	14	NNW	72	72	71	78	0	0	282	2.02	287	0	1	0	1	0	0.029
6:30 PM	30.11	72	73	72	42	48	55	9	NNW	0.8	12	NNW	71	71	69	75	0	0	267	1.91	274	0	1	0	1	0	0.025
6:35 PM	30.11	72	72	72	42	48	54	9	NNW	0.8	13	N	70	70	69	75	0	0	251	1.8	257	0	1	0	1	0	0.024
6:40 PM	30.11	72	72	72	41	47	54	8	NNW	0.7	11	NNW	71	71	70	74	0	0	238	1.71	243	0	1	0	1	0	0.025
6:45 PM	30.11	72	72	72	41	47	54	10	NNW	0.8	14	NNW	70	70	68	74	0	0	223	1.6	229	0	1	0	1	0	0.024
6:50 PM	30.11	72	72	72	40	46	53	10	NNW	0.8	13	NW	70	70	68	72	0	0	207	1.48	213	0	1	0	1	0	0.023
6:55 PM	30.11	71	71	71	40	46	53	10	NNW	0.8	14	NNW	69	69	67	72	0	0	190	1.36	197	0	1	0	1	0	0.022
7:00 PM	30.11	71	71	71	42	47	54	9	NNW	0.8	12	NNW	70	69	68	71	0	0	172	1.23	178	0.01	0	0	0	0	0.022
7:05 PM	30.11	72	72	71	43	48	54	8	NNW	0.7	12	NNW	71	70	69	72	0	0	154	1.1	160	0	0	0	0	0	0.023
7:10 PM	30.11	71	72	71	43	48	54	7	NNW	0.6	12	NNW	71	70	70	72	0	0	138	0.99	144	0	0	0	0	0	0.022
7:15 PM	30.11	72	73	72	43	48	55	6	NW	0.5	9	NNW	72	71	71	74	0	0	122	0.87	130	0	0	0	0	0	0.025
7:20 PM	30.11	73	73	73	43	49	56	5	NW	0.4	9	NNW	73	72	72	74	0	0	105	0.75	111	0	0	0	0	0	0.027
7:25 PM	30.11	73	73	73	42	49	55	4	NW	0.3	7	WNW	73	72	72	71	0	0	91	0.65	97	0	0	0	0	0	0.028
7:30 PM	30.11	73	73	73	43	49	56	4	NW	0.3	6	WNW	73	72	72	71	0	0	78	0.56	83	0	0	0	0	0	0.028
7:35 PM	30.12	73	73	72	44	49	56	4	NW	0.3	7	NW	73	71	71	70	0	0	65	0.47	70	0	0	0	0	0	0.026
7:40 PM	30.12	72	73	72	44	49	56	3	NNW	0.2	5	NNW	72	71	71	71	0	0	53	0.38	58	0	0	0	0	0	0.026
7:45 PM	30.12	73	73	72	46	51	57	2	NW	0.2	3	WNW	73	72	72	69	0	0	42	0.3	46	0	0	0	0	0	0.026
7:50 PM	30.12	72	72	72	46	50	56	2	NW	0.2	4	NW	72	71	71	69	0	0	32	0.23	35	0	0	0	0	0	0.026
7:55 PM	30.12	71	72	71	47	50	56	3	NW	0.2	5	NW	71	70	70	67	0	0	24	0.17	26	0	0	0	0	0	0.022
8:00 PM	30.12	71	71	71	47	49	56	3	NW	0.2	4	NW	71	69	69	67	0	0	18	0.13	19	0	0	0	0	0	0.02
8:05 PM	30.11	71	71	71	46	49	55	2	NNW	0.2	3	NNW	71	69	69	67	0	0	15	0.11	16	0	0	0	0	0	0.02
8:10 PM	30.12	71	71	71	46	49	55	1	NNW	0.1	3	NW	71	69	69	67	0	0	13	0.09	14	0	0	0	0	0	0.021
8:15 PM	30.12	70	71	69	53	52	58	0		0	1	NNW	70	69	69	66	0	0	11	0.08	12	0	0	0	0	0	0.018
8:20 PM	30.12	69	69	69	50	49	55	1	NNW	0.1	2	NNW	69	67	67	65	0	0	8	0.06	9	0	0	0	0	0	0.014
8:25 PM	30.11	69	69	68	54	51	57	1	NNW	0.1	3	NW	69	68	68	66	0	0	6	0.04	7	0	0	0	0	0	0.013
8:30 PM	30.12	67	68	67	61	53	58	1	NNW	0.1	2	NNW	67	67	67	64	0	0	1	0.01	5	0	0	0	0	0	0.008
8:35 PM	30.12	66	67	65	67	55	58	2	WSW	0.2	3	WSW	66	66	66	63	0	0	0	0	0	0	0	0	0	0	0.003
8:40 PM	30.12	65	65	65	70	55	58	1	WSW	0.1	2	WSW	65	65	65	63	0	0	0	0	0	0	0	0	0	0	0
8:45 PM	30.11	65	65	64	71	55	58	0		0	1	WSW	65	64	64	63	0	0	0	0	0	0	0	0	0	0.001	0
8:50 PM	30.12	64	65	64	67	53	57	0		0	0		64	64	64	62	0	0	0	0	0	0	0	0	0	0.002	0
8:55 PM	30.12	65	65	65	64	52	56	0		0	0		65	64	64	62	0	0	0	0	0	0	0	0	0	0	0
9:00 PM	30.11	65	65	64	67	54	57	0		0	0		65	64	64	62	0	0	0	0	0	0	0	0	0	0.001	0
9:05 PM	30.12	64	64	64	71	55	58	0		0	0		64	64	64	63	0	0	0	0	0	0	0	0	0	0.002	0
9:10 PM	30.11	64	64	64	71	55	58	0		0	0		64	64	64	62	0	0	0	0	0	0	0	0	0	0.002	0
9:15 PM	30.12	63	64	63	75	55	58	0		0	0		63	63	63	61	0	0	0	0	0	0	0	0	0	0.006	0
9:20 PM	30.12	62	63	62	74	54	57	0		0	0		62	62	62	60	0	0	0	0	0	0	0	0	0	0.009	0
9:25 PM	30.12	63	63	62	72	53	57	0		0	0		63	62	62	61	0	0	0	0	0	0	0	0	0	0.008	0
9:30 PM	30.12	62	62	62	76	55	57	1	WSW	0.1	2	WSW	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
9:35 PM	30.13	62	62	62	75	54	57	1	WSW	0.1	2	WSW	62	62	62	60	0	0	0	0	0	0	0	0	0	0.01	0
9:40 PM	30.12	62	62	61	73	53	56	2	WSW	0.2	3	WSW	62	61	61	59	0	0	0	0	0	0	0	0	0	0.011	0
9:45 PM	30.12	61	61	61	74	53	56	2	SSW	0.2	3	WSW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.013	0
9:50 PM	30.12	61	61	61	77	54	57	1	SSW	0.1	2	SSW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.013	0
9:55 PM	30.12	61	61	61	75	53	56	1	SSW	0.1	2	SSW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.012	0
10:00 PM	30.12	61	61	61	78	54	57	1	SSW	0.1	2	SSW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.013	0
10:05 PM	30.13	61	61	61	79	55	57	1	SSW	0.1	2	SSW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.013	0
10:10 PM	30.13	61	61	61	77	54	56	1	SSW	0.1	2	SSW	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
10:15 PM	30.13	61	61	61	77	54	56	0		0	1	SSW	61	60	60	59	0	0	0	0	0	0	0	0	0	0.015	0
10:20 PM	30.13	61	61	61	71	51	55	1	SSW	0.1	1	SSW	61	60	60	58	0	0	0	0	0	0	0	0	0	0.015	0
10:25 PM	30.13	61	61	61	71	52	55	0		0	1	SSW	61	60	60	59	0	0	0	0	0	0	0	0	0	0.014	0
10:30 PM	30.13	61	61	61	74	53	56	0		0	0		61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
10:35 PM	30.13	61	61	60	80	54	57	0		0	0		61	60	60	58	0	0	0	0	0	0	0	0	0	0.015	0
10:40 PM	30.13	60	60	60	81	54	56	0		0	0		60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
10:45 PM	30.12	59	60	59	82	54	56	1	SSW	0.1	2	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.02	0
10:50 PM	30.12	58	59	58	81	53	55	1	SSW	0.1	2	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.023	0
10:55 PM	30.12	58	58	58	82	53	55	1	SSW	0.1	2	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.023	0

11:00 PM	30.12	58	58	58	83	53	55	1	SSW	0.1	2	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.024	0
11:05 PM	30.13	58	58	58	82	52	54	0		0	1	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
11:10 PM	30.13	58	58	58	82	52	54	0		0	2	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
11:15 PM	30.13	58	59	58	76	51	54	0		0	2	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.023	0
11:20 PM	30.13	59	60	59	74	51	54	0		0	2	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.02	0
11:25 PM	30.13	60	60	60	74	51	54	0		0	1	SSW	60	59	59	57	0	0	0	0	0	0	0	0	0	0.019	0
11:30 PM	30.13	60	60	60	74	51	54	0		0	1	SSW	60	59	59	57	0	0	0	0	0	0	0	0	0	0.019	0
11:35 PM	30.13	59	60	59	77	52	55	0		0	1	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.02	0
11:40 PM	30.13	59	59	59	79	52	55	0		0	2	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.021	0
11:45 PM	30.13	59	59	59	78	52	54	0		0	2	SSW	59	58	58	57	0	0	0	0	0	0	0	0	0	0.022	0
11:50 PM	30.13	59	59	59	76	51	54	0		0	1	SSW	59	58	58	57	0	0	0	0	0	0	0	0	0	0.021	0
11:55 PM	30.14	59	59	59	77	52	54	0		0	1	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.02	0
8/3/2021 12:00 AM	30.14	59	59	59	77	52	54	1	SSW	0.1	2	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.021	0
12:05 AM	30.14	59	59	59	79	53	55	1	SSW	0.1	2	SSW	59	59	59	57	0	0	0	0	0	0	0	0	0	0.02	0
12:10 AM	30.14	58	59	58	82	53	55	2	SSW	0.2	3	SSW	58	58	58	56	0	0	0	0	0	0	0	0	0	0.023	0
12:15 AM	30.15	58	58	58	83	53	55	2	SSW	0.2	4	S	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
12:20 AM	30.15	58	58	57	85	53	55	1	S	0.1	4	S	58	57	57	55	0	0	0	0	0	0	0	0	0	0.026	0
12:25 AM	30.15	57	57	57	86	53	54	2	SSE	0.2	5	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.028	0
12:30 AM	30.15	57	57	56	86	52	54	0		0	2	SSE	57	56	56	55	0	0	0	0	0	0	0	0	0	0.029	0
12:35 AM	30.15	56	57	56	85	52	54	0		0	1	SSE	56	56	56	55	0	0	0	0	0	0	0	0	0	0.03	0
12:40 AM	30.16	57	57	57	85	52	54	0		0	1	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.028	0
12:45 AM	30.16	57	57	57	84	52	54	1	SSE	0.1	2	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.027	0
12:50 AM	30.15	57	57	57	83	52	54	0		0	1	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.027	0
12:55 AM	30.15	57	58	57	83	52	54	0		0	2	SSE	57	57	57	56	0	0	0	0	0	0	0	0	0	0.027	0
1:00 AM	30.15	58	58	58	84	53	55	1	SSE	0.1	3	SSE	58	57	57	56	0	0	0	0	0	0	0	0	0	0.026	0
1:05 AM	30.16	58	58	58	85	53	55	1	SSE	0.1	3	SSE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
1:10 AM	30.16	58	58	57	85	53	55	2	SSE	0.2	4	SSE	58	57	57	55	0	0	0	0	0	0	0	0	0	0.026	0
1:15 AM	30.16	57	57	57	86	53	55	2	SSE	0.2	4	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.027	0
1:20 AM	30.16	57	57	57	87	53	55	2	SSE	0.2	3	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.028	0
1:25 AM	30.16	57	57	56	87	53	54	2	SSE	0.2	4	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.029	0
1:30 AM	30.15	57	57	56	88	53	54	3	SSE	0.2	4	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.029	0
1:35 AM	30.15	56	57	56	87	53	54	3	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.03	0
1:40 AM	30.15	56	56	56	88	53	54	2	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.03	0
1:45 AM	30.15	56	56	56	88	53	54	2	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.03	0
1:50 AM	30.15	56	56	56	88	53	54	2	SSE	0.2	4	SSE	56	56	56	55	0	0	0	0	0	0	0	0	0	0.03	0
1:55 AM	30.15	56	57	56	89	53	55	2	SSE	0.2	4	SSE	56	57	57	55	0	0	0	0	0	0	0	0	0	0.03	0
2:00 AM	30.15	57	57	56	89	53	55	1	SSE	0.1	3	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.029	0
2:05 AM	30.15	57	57	56	90	54	55	1	SSE	0.1	3	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.029	0
2:10 AM	30.15	57	57	56	90	54	55	1	SSE	0.1	3	SSE	57	57	57	55	0	0	0	0	0	0	0	0	0	0.029	0
2:15 AM	30.15	56	57	56	90	54	55	1	SSE	0.1	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.03	0
2:20 AM	30.14	56	56	56	90	54	55	1	SSE	0.1	2	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.03	0
2:25 AM	30.14	56	56	56	91	54	55	1	SSE	0.1	2	SSE	56	57	57	54	0	0	0	0	0	0	0	0	0	0.03	0
2:30 AM	30.14	56	56	56	91	54	55	2	SSE	0.2	3	SSE	56	57	57	55	0	0	0	0	0	0	0	0	0	0.03	0
2:35 AM	30.14	56	57	56	90	54	55	2	SSE	0.2	4	SSE	56	57	57	54	0	0	0	0	0	0	0	0	0	0.03	0
2:40 AM	30.14	56	56	56	90	53	54	2	SSE	0.2	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.031	0
2:45 AM	30.14	56	56	56	90	53	54	2	SSE	0.2	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.031	0
2:50 AM	30.14	56	56	56	91	53	54	3	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.032	0
2:55 AM	30.14	56	56	56	91	53	54	2	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.032	0
3:00 AM	30.14	56	56	56	91	53	54	2	SSE	0.2	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.031	0
3:05 AM	30.14	56	56	56	91	53	54	3	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.031	0
3:10 AM	30.14	56	56	56	91	53	54	2	SSE	0.2	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.032	0
3:15 AM	30.14	56	56	56	91	53	54	1	SSE	0.1	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.032	0
3:20 AM	30.14	56	56	56	91	53	54	2	SSE	0.2	4	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.032	0
3:25 AM	30.14	56	56	56	91	53	54	1	SSE	0.1	3	SSE	56	56	56	54	0	0	0	0	0	0	0	0	0	0.032	0
3:30 AM	30.14	56	56	55	92	53	54	2	SSE	0.2	4	SSE	56	56	56	53	0	0	0	0	0	0	0	0	0	0.033	0
3:35 AM	30.14	55	55	55	91	53	54	3	SSE	0.2	4	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.034	0

3:40 AM	30.14	55	55	55	91	53	54	3	SSE	0.2	6	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.034	0
3:45 AM	30.14	55	55	55	91	53	54	3	SSE	0.2	4	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.034	0
3:50 AM	30.14	55	55	55	91	53	54	4	SE	0.3	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.034	0
3:55 AM	30.14	55	55	55	91	52	53	3	SE	0.2	4	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:00 AM	30.14	55	55	55	91	52	53	3	SE	0.2	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:05 AM	30.14	55	55	55	91	52	53	4	SE	0.3	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:10 AM	30.14	55	55	55	91	52	53	4	SE	0.3	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:15 AM	30.14	55	55	55	91	52	53	3	SE	0.2	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:20 AM	30.14	55	55	55	91	52	53	4	SE	0.3	7	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:25 AM	30.14	55	55	55	91	52	53	3	SE	0.2	4	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:30 AM	30.14	55	55	55	91	52	53	3	SE	0.2	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:35 AM	30.14	55	55	55	91	52	53	4	SE	0.3	7	SE	54	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
4:40 AM	30.14	55	55	55	91	52	53	4	SE	0.3	5	SE	54	55	54	53	0	0	0	0	0	0	0	0	0	0.036	0
4:45 AM	30.14	55	55	55	92	52	53	3	SE	0.2	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.036	0
4:50 AM	30.14	55	55	55	92	52	53	2	SE	0.2	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.036	0
4:55 AM	30.15	55	55	55	92	52	53	1	SSE	0.1	4	S	55	55	55	53	0	0	0	0	0	0	0	0	0	0.036	0
5:00 AM	30.15	55	55	55	92	53	54	1	SSE	0.1	4	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
5:05 AM	30.15	55	55	55	92	53	54	1	SSE	0.1	2	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
5:10 AM	30.15	55	55	55	92	53	54	1	SSE	0.1	4	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
5:15 AM	30.14	55	55	55	93	53	54	2	SSE	0.2	4	SSE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
5:20 AM	30.15	55	55	55	93	53	54	2	SE	0.2	5	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.034	0
5:25 AM	30.15	55	55	55	92	53	54	4	SE	0.3	7	SE	55	55	55	53	0	0	0	0	0	0	0	0	0	0.035	0
5:30 AM	30.15	55	55	55	92	52	53	4	SE	0.3	5	SE	54	55	54	53	0	0	0	0	0	0	0	0	0	0.036	0
5:35 AM	30.15	54	55	54	93	53	53	3	SE	0.2	5	SE	54	55	55	52	0	0	0	0	0	0	0	0	0	0.036	0
5:40 AM	30.15	54	54	54	93	52	53	4	SE	0.3	5	SE	54	54	54	52	0	0	0	0	0	0	0	0	0	0.037	0
5:45 AM	30.15	54	54	54	93	52	53	4	SE	0.3	7	SE	53	54	54	52	0	0	0	0	0	0	0	0	0	0.038	0
5:50 AM	30.15	54	54	54	93	52	53	4	SE	0.3	7	SE	53	54	53	52	0	0	0	0	0	0	0	0	0	0.039	0
5:55 AM	30.15	54	54	54	93	52	52	4	SE	0.3	7	SE	53	54	53	52	0	0	0	0	0	0	0	0	0	0.04	0
6:00 AM	30.15	54	54	54	93	52	52	4	SE	0.3	5	SE	53	54	53	52	0	0	0	0	0	0	0	0	0	0.04	0
6:05 AM	30.15	54	54	54	93	52	53	4	SE	0.3	7	SE	53	54	53	52	0	0	4	0.03	5	0	0	0	0	0.039	0
6:10 AM	30.15	54	54	54	93	52	53	4	SE	0.3	7	SE	53	54	54	52	0	0	7	0.05	7	0	0	0	0	0.039	0
6:15 AM	30.15	54	54	54	93	52	53	3	SE	0.2	5	SE	54	54	54	52	0	0	9	0.06	11	0	0	0	0	0.039	0
6:20 AM	30.15	54	54	54	93	52	53	3	SE	0.2	5	SE	54	54	54	52	0	0	11	0.08	12	0	0	0	0	0.039	0
6:25 AM	30.15	54	54	54	93	52	53	4	SE	0.3	7	SE	53	54	54	52	0	0	13	0.09	14	0	0	0	0	0.039	0
6:30 AM	30.16	54	54	54	93	52	53	4	SE	0.3	7	SE	53	54	54	52	0	0	16	0.11	16	0	0	0	0	0.038	0
6:35 AM	30.16	54	54	54	93	52	53	5	SE	0.4	7	SE	53	54	53	52	0	0	18	0.13	18	0	0	0	0	0.038	0
6:40 AM	30.16	54	54	54	93	52	53	3	SE	0.2	6	ESE	54	54	54	52	0	0	21	0.15	25	0	0	0	0	0.038	0
6:45 AM	30.15	54	54	54	93	52	53	3	SE	0.2	5	SE	54	54	54	52	0	0	36	0.26	62	0	0	0	0	0.038	0
6:50 AM	30.15	54	54	54	93	52	53	3	SE	0.2	5	SE	54	55	55	52	0	0	69	0.49	74	0	0	0	0	0.037	0
6:55 AM	30.15	54	55	54	93	53	53	3	SE	0.2	7	SE	54	55	55	54	0	0	81	0.58	86	0	0	0	0	0.036	0
7:00 AM	30.16	55	55	54	93	53	53	4	SE	0.3	7	SE	54	55	54	54	0	0	93	0.67	98	0	0	0	0	0.036	0
7:05 AM	30.15	55	55	55	93	53	54	4	SE	0.3	5	SE	55	55	55	55	0	0	107	0.77	113	0	0	0	0	0.035	0
7:10 AM	30.16	55	56	55	94	54	54	4	SE	0.3	8	SE	55	55	55	59	0	0	122	0.87	128	0	0	0	0	0.034	0
7:15 AM	30.15	56	56	56	93	54	54	5	SE	0.4	9	SE	55	56	55	59	0	0	133	0.95	135	0	0	0	0	0.032	0
7:20 AM	30.16	56	56	56	93	54	54	5	SE	0.4	9	SE	55	56	55	59	0	0	137	0.98	137	0	0	0	0	0.032	0
7:25 AM	30.15	56	56	56	93	54	55	5	SE	0.4	9	SE	55	56	56	56	0	0	140	1	142	0	0	0	0	0.031	0
7:30 AM	30.15	56	56	56	92	54	55	5	SE	0.4	8	SE	56	57	56	56	0	0	150	1.08	156	0	0	0	0	0.03	0
7:35 AM	30.16	57	57	56	92	54	55	4	SE	0.3	8	SE	57	57	57	57	0	0	169	1.21	179	0	0	0	1	0.029	0
7:40 AM	30.16	57	57	57	92	55	56	6	SE	0.5	8	SE	56	57	56	58	0	0	193	1.38	200	0	1	0	1	0.028	0
7:45 AM	30.16	57	58	57	91	55	56	5	SE	0.4	8	SE	57	58	57	64	0	0	207	1.48	211	0	1	0	1	0.026	0
7:50 AM	30.16	58	58	58	91	55	56	6	SE	0.5	9	SE	57	58	57	59	0	0	213	1.53	216	0	1	0	1	0.026	0
7:55 AM	30.16	58	58	58	90	55	56	7	SE	0.6	10	SSE	57	58	57	59	0	0	219	1.57	223	0	1	0	1	0.025	0
8:00 AM	30.17	58	58	58	88	55	56	6	SE	0.5	9	SE	58	58	58	59	0	0	227	1.63	230	0	1	0	1	0.023	0
8:05 AM	30.17	59	59	58	88	55	56	6	SE	0.5	10	ESE	58	59	58	61	0	0	231	1.66	232	0	1	0	1	0.022	0
8:10 AM	30.17	59	59	59	87	55	56	8	SE	0.7	10	SE	57	59	57	61	0	0	220	1.58	227	0	1	0	1	0.021	0
8:15 AM	30.15	59	60	59	87	55	57	6	SE	0.5	10	SE	59	59	59	62	0	0	206	1.48	211	0	1	0	1	0.02	0
8:20 AM	30.16	60	60	60	87	56	57	4	SE	0.3	7	SE	60	60	60	63	0	0	225	1.61	248	0	1	0	1	0.018	0

8:25 AM	30.17	60	60	60	85	56	57	3	SE	0.2	7	SE	60	60	60	64	0	0	261	1.87	264	0	1	0	1	0.017	0
8:30 AM	30.17	61	61	60	83	56	57	3	SE	0.2	6	SE	61	61	61	65	0	0	249	1.79	253	0	1	0	1	0.015	0
8:35 AM	30.17	61	62	61	83	56	58	4	SE	0.3	9	SE	61	61	61	66	0	0	263	1.89	274	0	1	0.1	2	0.012	0
8:40 AM	30.17	62	62	62	82	57	58	5	SE	0.4	9	SE	62	62	62	67	0	0	282	2.02	285	0	2	0.1	2	0.01	0
8:45 AM	30.17	62	63	62	81	57	59	5	SE	0.4	8	SE	62	63	63	67	0	0	287	2.06	290	0	2	0.1	2	0.009	0
8:50 AM	30.16	63	63	63	80	57	59	4	SSE	0.3	8	S	63	63	63	68	0	0	299	2.14	306	0	2	0.1	2	0.007	0
8:55 AM	30.16	63	64	63	79	57	59	5	S	0.4	8	SE	63	64	64	69	0	0	323	2.32	336	0	2	0.1	2	0.006	0
9:00 AM	30.17	64	64	64	77	57	59	4	SSE	0.3	9	SSE	64	64	64	69	0	0	361	2.59	378	0.01	2	0.1	2	0.003	0
9:05 AM	30.17	64	64	64	75	56	59	5	SSE	0.4	9	SE	64	64	64	70	0	0	410	2.94	429	0	2	0.1	2	0.002	0
9:10 AM	30.17	64	65	64	75	56	59	6	SSW	0.5	10	S	64	64	64	72	0	0	452	3.24	464	0	2	0.1	2	0.002	0
9:15 AM	30.17	64	65	64	74	56	59	7	S	0.6	11	S	64	64	64	76	0	0	476	3.41	480	0	2	0.1	2	0.002	0
9:20 AM	30.17	65	65	65	75	57	60	5	S	0.4	8	S	65	65	65	77	0	0	489	3.51	496	0	2	0.1	2	0	0
9:25 AM	30.17	66	66	66	73	57	60	6	SSW	0.5	9	SSW	66	66	66	77	0	0	505	3.62	512	0	3	0.1	3	0	0.003
9:30 AM	30.17	66	66	66	74	57	60	6	SSW	0.5	10	SSW	66	66	66	77	0	0	518	3.71	520	0	3	0.1	3	0	0.002
9:35 AM	30.17	66	66	66	73	57	60	6	SE	0.5	9	SE	66	66	66	78	0	0	528	3.79	534	0	3	0.1	3	0	0.004
9:40 AM	30.17	66	67	66	71	57	60	5	S	0.4	8	SE	66	67	67	78	0	0	540	3.87	545	0	3	0.1	3	0	0.005
9:45 AM	30.17	67	67	67	72	57	60	5	SSW	0.4	9	SE	67	67	67	79	0	0	553	3.97	557	0	3	0.1	3	0	0.006
9:50 AM	30.17	67	68	67	72	58	61	4	SE	0.3	8	SE	67	68	68	80	0	0	566	4.06	571	0	3	0.1	3	0	0.008
9:55 AM	30.17	68	68	68	71	58	61	6	S	0.5	10	S	68	68	68	79	0	0	579	4.15	582	0	3	0.1	3	0	0.01
10:00 AM	30.18	68	68	68	69	57	60	4	SSE	0.3	8	SSE	68	68	68	80	0	0	591	4.24	594	0.01	4	0.1	4	0	0.01
10:05 AM	30.18	68	68	68	69	58	61	5	SE	0.4	9	SE	68	68	68	80	0	0	601	4.31	605	0	4	0.1	4	0	0.011
10:10 AM	30.18	69	69	68	69	58	61	4	SSE	0.3	8	SE	69	69	69	80	0	0	608	4.36	610	0	4	0.1	4	0	0.013
10:15 AM	30.18	69	69	69	68	58	61	5	S	0.4	9	SSE	69	69	69	81	0	0	623	4.47	629	0	4	0.1	4	0	0.015
10:20 AM	30.17	69	69	69	69	58	62	4	S	0.3	6	SSE	69	69	69	82	0	0	636	4.56	642	0	4	0.1	4	0	0.014
10:25 AM	30.17	70	71	69	67	58	62	3	S	0.2	5	SSW	70	70	70	83	0	0	647	4.64	650	0	4	0.1	4	0	0.017
10:30 AM	30.17	70	71	70	67	59	62	6	S	0.5	9	S	70	70	70	82	0	0	658	4.72	663	0	4	0.2	4	0	0.018
10:35 AM	30.17	70	70	70	68	59	62	5	S	0.4	9	SSW	70	70	70	83	0	0	670	4.8	677	0	4	0.2	4	0	0.018
10:40 AM	30.17	72	73	71	65	59	63	4	WSW	0.3	10	WSW	72	72	72	86	0	0	682	4.89	686	0	5	0.2	5	0	0.023
10:45 AM	30.18	72	73	72	66	60	64	5	SW	0.4	9	SW	72	73	73	85	0	0	691	4.95	698	0	5	0.2	5	0	0.025
10:50 AM	30.17	72	73	71	66	60	63	4	SSW	0.3	8	SSW	72	72	72	84	0	0	700	5.02	705	0	5	0.2	5	0	0.024
10:55 AM	30.17	74	75	72	60	59	63	4	WSW	0.3	9	WSW	74	74	74	88	0	0	710	5.09	714	0	5	0.2	5	0	0.031
11:00 AM	30.17	74	75	74	62	61	64	4	WSW	0.3	10	WSW	74	75	75	87	0	0	721	5.17	726	0.02	5	0.2	5	0	0.033
11:05 AM	30.17	73	74	72	66	61	64	7	SSW	0.6	11	S	73	73	73	85	0	0	731	5.24	733	0	5	0.2	5	0	0.026
11:10 AM	30.17	72	72	72	66	60	63	7	SSW	0.6	11	SSW	72	72	72	84	0	0	739	5.3	742	0	6	0.2	6	0	0.024
11:15 AM	30.17	73	74	72	61	58	62	1	SW	0.1	8	WSW	73	73	73	88	0	0	746	5.35	749	0	6	0.2	6	0	0.027
11:20 AM	30.16	75	75	74	62	61	64	1	SSE	0.1	3	SSE	75	75	75	87	0	0	757	5.43	763	0	6	0.2	6	0	0.034
11:25 AM	30.18	74	75	73	64	61	64	5	SSW	0.4	9	SW	74	74	74	89	0	0	766	5.49	768	0	6	0.2	6	0	0.03
11:30 AM	30.17	76	77	75	60	61	65	4	W	0.3	12	WSW	76	77	77	89	0	0	777	5.57	798	0	6	0.2	6	0	0.039
11:35 AM	30.17	76	77	75	59	61	65	4	WSW	0.3	12	WSW	76	76	76	90	0	0	796	5.71	798	0	6	0.2	6	0	0.038
11:40 AM	30.17	78	79	77	55	61	65	2	W	0.2	7	NW	78	79	79	90	0	0	813	5.83	835	0	6	0.2	6	0	0.046
11:45 AM	30.16	76	78	76	58	61	65	2	SW	0.2	6	W	76	77	77	88	0	0	524	3.76	865	0	5	0.2	7	0	0.04
11:50 AM	30.17	75	76	74	58	60	64	7	SSW	0.6	11	SW	75	76	76	87	0	0	887	6.36	907	0	7	0.2	7	0	0.036
11:55 AM	30.17	74	74	74	60	59	63	3	SSW	0.2	7	SSW	74	74	74	87	0	0	809	5.8	1000	0	5	0.2	7	0	0.031
12:00 PM	30.17	75	75	74	59	59	63	5	SE	0.4	14	WSW	75	75	75	88	0	0	871	6.25	1058	0.02	6	0.2	7	0	0.033
12:05 PM	30.17	75	75	74	58	59	63	7	S	0.6	14	WSW	75	75	75	88	0	0	796	5.71	1067	0	5	0.2	6	0	0.034
12:10 PM	30.17	75	75	74	57	58	63	5	SW	0.4	11	SW	75	75	75	83	0	0	249	1.79	271	0	2	0.1	2	0	0.033
12:15 PM	30.16	73	74	73	60	59	63	5	S	0.4	12	SW	73	74	74	77	0	0	188	1.35	213	0	2	0.1	2	0	0.029
12:20 PM	30.16	73	74	73	60	58	62	5	WSW	0.4	10	WSW	73	73	73	76	0	0	133	0.95	151	0	1	0	1	0	0.028
12:25 PM	30.16	74	74	74	61	60	64	5	W	0.4	8	WSW	74	74	74	76	0	0	104	0.75	114	0	1	0	1	0	0.031
12:30 PM	30.16	74	74	73	63	60	64	8	WNW	0.7	10	WNW	73	74	73	74	0	0	78	0.56	88	0	1	0	1	0	0.03
12:35 PM	30.16	72	73	72	65	60	63	6	WNW	0.5	8	WNW	72	73	73	72	0	0	69	0.49	69	0	1	0	1	0	0.026
12:40 PM	30.15	72	72	72	64	59	63	5	WNW	0.4	7	WNW	72	72	72	72	0	0	71	0.51	76	0	1	0	1	0	0.024
12:45 PM	30.16	72	73	72	60	57	61	4	W	0.3	6	W	72	72	72	73	0	0	83	0.6	88	0	1	0	1	0	0.024
12:50 PM	30.16	73	74	73	59	58	62	2	NNW	0.2	4	NNW	73	73	73	74	0	0	95	0.68	100	0	1	0	1	0	0.027
12:55 PM	30.16	74	74	74	57	58	62	2	WNW	0.2	4	WNW	74	74	74	76	0	0	109	0.78	116	0	1	0	1	0	0.032
1:00 PM	30.16	74	74	74	58	58	63	1	WNW	0.1	3	WNW	74	74	74	76	0	0	125	0.9	132	0.01	1	0	1	0	0.032
1:05 PM	30.16	74	74	74	58	58	62	0		0	2	NW	74	74	74	77	0	0	145	1.04	156	0	1	0.1	2	0	0.031

1:10 PM	30.16	74	74	73	59	58	63	1	SW	0.1	2	SW	74	74	74	76	0	0	172	1.23	183	0	2	0.1	2	0	0.03
1:15 PM	30.16	73	73	73	60	58	62	1	SW	0.1	2	SW	73	73	73	76	0	0	216	1.55	244	0	2	0.1	2	0	0.027
1:20 PM	30.16	73	73	73	59	58	62	1	SW	0.1	2	SW	73	73	73	77	0	0	282	2.02	306	0	3	0.1	3	0	0.027
1:25 PM	30.16	73	74	73	58	58	62	1	SW	0.1	2	SW	73	73	73	80	0	0	346	2.48	357	0	4	0.1	6	0	0.028
1:30 PM	30.15	74	75	74	56	58	62	2	SE	0.2	3	SSE	74	74	74	82	0	0	409	2.93	410	0	4	0.1	6	0	0.032
1:35 PM	30.15	74	74	74	57	58	62	2	SE	0.2	4	SE	74	74	74	82	0	0	434	3.11	478	0	4	0.2	5	0	0.031
1:40 PM	30.15	74	75	74	55	57	62	2	SSE	0.2	4	SSE	74	74	74	83	0	0	478	3.43	478	0	7	0.2	8	0	0.032
1:45 PM	30.15	78	79	75	51	58	63	1	E	0.1	6	ESE	78	78	78	89	0	0	596	4.27	596	0	6	0.2	8	0	0.044
1:50 PM	30.16	77	78	76	54	59	64	4	E	0.3	8	ESE	77	77	77	87	0	0	596	4.27	596	0	7	0.3	8	0	0.042
1:55 PM	30.14	80	81	77	50	59	64	2	E	0.2	5	ESE	80	80	80	91	0	0	968	6.94	1018	0	8	0.3	8	0	0.05
2:00 PM	30.15	78	79	76	52	59	63	3	SSE	0.2	8	SE	78	78	78	88	0	0	923	6.62	932	0.02	7	0.2	7	0	0.044
2:05 PM	30.14	77	77	76	54	59	63	2	S	0.2	4	S	77	77	77	90	0	0	963	6.91	997	0	7	0.3	7	0	0.04
2:10 PM	30.14	78	79	77	52	59	63	2	SSW	0.2	5	SW	78	78	78	91	0	0	943	6.76	949	0	7	0.3	7	0	0.044
2:15 PM	30.14	81	82	79	46	58	63	2	N	0.2	7	N	81	81	81	92	0	0	925	6.63	935	0	7	0.2	7	0	0.055
2:20 PM	30.14	82	82	81	45	58	64	4	WNW	0.3	10	W	82	81	81	94	0	0	431	3.09	909	0	4	0.2	7	0	0.058
2:25 PM	30.14	80	82	78	51	60	65	6	NNW	0.5	11	WNW	80	80	80	81	0	0	185	1.33	195	0	3	0.1	3	0	0.051
2:30 PM	30.14	78	78	77	48	56	62	3	NW	0.2	5	NW	78	77	77	83	0	0	478	3.43	969	0	4	0.2	6	0	0.044
2:35 PM	30.14	78	79	78	49	57	63	3	WNW	0.2	8	W	78	78	78	83	0	0	214	1.53	239	0	3	0.1	3	0	0.046
2:40 PM	30.14	78	79	78	49	58	63	5	WNW	0.4	9	WNW	78	78	78	83	0	0	290	2.08	290	0	5	0.2	6	0	0.047
2:45 PM	30.13	81	82	79	44	57	63	3	WNW	0.2	7	W	81	81	81	92	0	0	881	6.32	907	0	6	0.2	6	0	0.057
2:50 PM	30.14	80	82	78	49	59	64	3	SSW	0.2	5	WSW	80	80	80	89	0	0	848	6.08	853	0	6	0.2	6	0	0.052
2:55 PM	30.13	80	83	78	45	57	62	2	NNW	0.2	6	SW	80	79	79	95	0	0	843	6.04	847	0	6	0.2	6	0	0.051
3:00 PM	30.13	84	84	83	43	59	64	2	WSW	0.2	4	WSW	84	83	83	95	0	0	850	6.09	867	0.02	6	0.2	6	0	0.065
3:05 PM	30.13	81	83	79	45	58	63	3	WNW	0.2	8	WNW	81	81	81	82	0	0	188	1.35	193	0	3	0.1	4	0	0.056
3:10 PM	30.13	77	79	76	49	56	62	1	SW	0.1	6	ESE	77	77	77	78	0	0	161	1.15	181	0	3	0.1	3	0	0.042
3:15 PM	30.12	76	77	76	49	56	61	2	ESE	0.2	4	ESE	76	76	76	79	0	0	168	1.2	195	0	2	0.1	3	0	0.04
3:20 PM	30.13	77	78	77	48	56	61	3	SSW	0.2	7	W	77	77	77	80	0	0	204	1.46	221	0	3	0.1	5	0	0.043
3:25 PM	30.12	76	77	76	53	58	63	6	SE	0.5	10	SE	76	77	77	88	0	0	836	5.99	842	0	5	0.2	5	0	0.04
3:30 PM	30.13	76	77	76	54	59	63	5	SE	0.4	9	ESE	76	77	77	89	0	0	837	6	838	0	5	0.2	5	0	0.04
3:35 PM	30.12	77	77	77	54	59	64	6	ESE	0.5	11	SE	77	77	77	87	0	0	561	4.02	844	0	4	0.1	5	0	0.042
3:40 PM	30.12	76	77	76	53	58	63	8	ESE	0.7	11	ESE	75	76	75	87	0	0	823	5.9	826	0	5	0.2	5	0	0.039
3:45 PM	30.12	77	78	76	53	58	63	6	E	0.5	10	E	77	77	77	90	0	0	820	5.88	823	0	4	0.2	5	0	0.041
3:50 PM	30.11	78	79	77	53	59	64	5	SE	0.4	11	SE	78	78	78	90	0	0	829	5.94	837	0	4	0.1	4	0	0.045
3:55 PM	30.12	78	78	77	52	59	63	4	SE	0.3	8	ESE	78	78	78	92	0	0	840	6.02	842	0	5	0.2	5	0	0.044
4:00 PM	30.11	79	80	78	49	58	63	5	E	0.4	9	E	79	79	79	91	0	0	676	4.85	838	0.02	4	0.1	5	0	0.049
4:05 PM	30.12	78	79	78	50	58	63	6	ESE	0.5	9	ESE	78	78	78	91	0	0	766	5.49	775	0	4	0.1	4	0	0.047
4:10 PM	30.11	78	79	78	53	60	64	6	ESE	0.5	10	ESE	78	78	78	90	0	0	753	5.4	770	0	4	0.1	4	0	0.045
4:15 PM	30.11	78	78	78	54	60	64	4	ESE	0.3	8	ESE	78	78	78	91	0	0	761	5.46	773	0	4	0.1	4	0	0.044
4:20 PM	30.1	78	78	77	52	59	63	6	ESE	0.5	9	ESE	78	78	78	90	0	0	723	5.18	733	0	4	0.1	4	0	0.044
4:25 PM	30.12	79	80	77	48	57	62	3	E	0.2	6	ENE	79	78	78	92	0	0	688	4.93	698	0	4	0.1	4	0	0.047
4:30 PM	30.11	80	81	79	48	58	64	4	ESE	0.3	8	ESE	80	80	80	91	0	0	666	4.78	671	0	4	0.1	4	0	0.052
4:35 PM	30.11	79	80	78	47	57	62	4	ENE	0.3	7	ENE	79	78	78	92	0	0	661	4.74	661	0	3	0.1	3	0	0.048
4:40 PM	30.11	81	82	80	44	57	63	4	ENE	0.3	8	ENE	81	81	81	94	0	0	656	4.7	663	0	3	0.1	3	0	0.057
4:45 PM	30.1	82	82	82	45	59	64	5	NE	0.4	10	NE	82	82	82	94	0	0	659	4.73	663	0	3	0.1	3	0	0.059
4:50 PM	30.1	81	82	80	46	58	63	7	NE	0.6	10	NE	81	81	81	92	0	0	620	4.45	636	0	3	0.1	3	0	0.055
4:55 PM	30.1	79	80	79	47	57	63	6	NNE	0.5	9	NNE	79	79	79	89	0	0	600	4.3	610	0	3	0.1	3	0	0.05
5:00 PM	30.11	79	80	79	48	58	63	4	NNE	0.3	9	N	79	79	79	92	0	0	559	4.01	578	0.02	3	0.1	3	0	0.05
5:05 PM	30.11	81	82	80	45	57	63	3	NNE	0.2	6	NNE	81	80	80	93	0	0	520	3.73	533	0	3	0.1	3	0	0.055
5:10 PM	30.11	82	82	81	46	59	64	2	ENE	0.2	4	ENE	82	81	81	92	0	0	492	3.53	501	0	2	0.1	2	0	0.058
5:15 PM	30.11	80	81	79	48	58	63	3	SE	0.2	7	SE	80	80	80	90	0	0	475	3.41	480	0	2	0.1	2	0	0.051
5:20 PM	30.11	80	81	79	46	57	63	3	SW	0.2	7	SSW	80	80	80	91	0	0	466	3.34	468	0	2	0.1	2	0	0.052
5:25 PM	30.11	80	80	80	46	57	63	2	ENE	0.2	4	NE	80	79	79	90	0	0	458	3.28	461	0	2	0.1	2	0	0.052
5:30 PM	30.11	79	80	79	47	57	63	2	ENE	0.2	4	ENE	79	79	79	90	0	0	445	3.19	452	0	2	0.1	2	0	0.05
5:35 PM	30.11	79	79	78	48	57	62	3	SSE	0.2	7	SW	79	78	78	89	0	0	426	3.05	434	0	2	0.1	2	0	0.047
5:40 PM	30.11	78	79	78	48	57	62	1	SSE	0.1	5	NE	78	78	78	89	0	0	393	2.82	417	0	2	0.1	2	0	0.046
5:45 PM	30.11	80	80	79	44	56	61	3	E	0.2	7	E	80	79	79	89	0	0	386	2.77	396	0	2	0.1	2	0	0.051
5:50 PM	30.11	80	80	79	45	56	62	1	SE	0.1	3	ESE	80	79	79	89	0	0	374	2.68	380	0	1	0.1	2	0	0.051

5:55 PM	30.11	79	80	79	45	56	61	3	N	0.2	4	NNW	79	78	78	89	0	0	358	2.57	367	0	1	0.1	1	0	0.049
6:00 PM	30.11	80	80	78	46	57	62	3	ESE	0.2	6	S	80	79	79	88	0	0	343	2.46	348	0.01	1	0	1	0	0.051
6:05 PM	30.11	78	78	78	47	56	61	2	SSE	0.2	4	SSW	78	77	77	86	0	0	328	2.35	332	0	1	0	1	0	0.045
6:10 PM	30.11	78	79	78	47	56	62	3	SSE	0.2	6	SSW	78	78	78	87	0	0	310	2.22	320	0	1	0	1	0	0.046
6:15 PM	30.11	77	78	77	53	59	63	3	SE	0.2	6	SE	77	77	77	86	0	0	294	2.11	302	0	1	0	1	0	0.043
6:20 PM	30.11	77	77	77	53	58	63	5	SE	0.4	10	SE	77	77	77	86	0	0	277	1.99	283	0	1	0	1	0	0.041
6:25 PM	30.11	77	77	76	55	59	64	4	SE	0.3	7	SE	77	77	77	85	0	0	264	1.89	269	0	1	0	1	0	0.041
6:30 PM	30.11	77	77	76	53	58	63	6	SE	0.5	9	SE	77	77	77	85	0	0	255	1.83	258	0	1	0	1	0	0.04
6:35 PM	30.11	76	76	76	53	58	63	4	SE	0.3	10	SE	76	76	76	85	0	0	240	1.72	250	0	1	0	1	0	0.04
6:40 PM	30.11	76	76	76	54	58	63	5	ESE	0.4	8	ESE	76	76	76	84	0	0	218	1.56	227	0	1	0	1	0	0.039
6:45 PM	30.11	76	76	76	54	59	63	5	SE	0.4	9	ESE	76	77	77	79	0	0	194	1.39	207	0	1	0	1	0	0.04
6:50 PM	30.11	76	76	76	53	58	62	6	SE	0.5	8	SE	76	76	76	82	0	0	183	1.31	195	0	1	0	1	0	0.039
6:55 PM	30.11	76	76	76	54	58	63	4	SE	0.3	8	SE	76	76	76	77	0	0	108	0.77	169	0	0	0	1	0	0.038
7:00 PM	30.1	76	76	76	53	57	62	6	ESE	0.5	9	ESE	76	76	76	77	0	0	156	1.12	163	0.01	0	0	0	0	0.037
7:05 PM	30.11	76	76	76	55	58	63	4	ESE	0.3	7	ESE	76	76	76	76	0	0	105	0.75	137	0	0	0	0	0	0.037
7:10 PM	30.11	76	76	76	54	58	62	4	ESE	0.3	7	ESE	76	76	76	76	0	0	124	0.89	130	0	0	0	0	0	0.037
7:15 PM	30.11	76	76	76	53	57	62	5	ESE	0.4	8	ESE	76	76	76	79	0	0	110	0.79	114	0	0	0	0	0	0.037
7:20 PM	30.11	76	76	75	52	57	62	5	ESE	0.4	8	ESE	76	76	76	79	0	0	96	0.69	102	0	0	0	0	0	0.036
7:25 PM	30.1	75	75	75	54	58	62	4	E	0.3	7	ESE	75	76	76	76	0	0	82	0.59	86	0	0	0	0	0	0.036
7:30 PM	30.1	75	75	75	54	58	62	4	E	0.3	6	E	75	75	75	75	0	0	70	0.5	74	0	0	0	0	0	0.036
7:35 PM	30.1	75	75	75	54	58	62	3	E	0.2	6	E	75	75	75	75	0	0	60	0.43	63	0	0	0	0	0	0.036
7:40 PM	30.1	75	75	75	54	57	62	4	ESE	0.3	7	E	75	75	75	74	0	0	50	0.36	54	0	0	0	0	0	0.035
7:45 PM	30.1	75	75	75	55	58	62	4	E	0.3	6	ESE	75	75	75	74	0	0	41	0.29	44	0	0	0	0	0	0.034
7:50 PM	30.1	75	75	75	56	58	62	3	E	0.2	6	E	75	75	75	74	0	0	33	0.24	37	0	0	0	0	0	0.034
7:55 PM	30.1	74	75	74	57	58	62	3	E	0.2	4	E	74	75	75	73	0	0	25	0.18	28	0	0	0	0	0	0.033
8:00 PM	30.1	74	74	74	57	58	62	3	E	0.2	4	E	74	74	74	73	0	0	21	0.15	23	0	0	0	0	0	0.032
8:05 PM	30.1	74	74	74	58	58	62	3	ESE	0.2	4	ESE	74	74	74	73	0	0	18	0.13	19	0	0	0	0	0	0.031
8:10 PM	30.1	74	74	74	58	58	62	2	ESE	0.2	3	ESE	74	74	74	72	0	0	14	0.1	16	0	0	0	0	0	0.03
8:15 PM	30.1	73	74	73	59	58	62	2	ESE	0.2	3	ESE	73	74	74	72	0	0	11	0.08	12	0	0	0	0	0	0.029
8:20 PM	30.1	73	73	73	59	58	62	2	ESE	0.2	3	ESE	73	73	73	71	0	0	8	0.06	9	0	0	0	0	0	0.028
8:25 PM	30.11	73	73	73	59	58	62	2	ESE	0.2	3	ESE	73	73	73	71	0	0	5	0.04	7	0	0	0	0	0	0.028
8:30 PM	30.11	73	73	72	64	60	63	1	ESE	0.1	2	ESE	73	73	73	71	0	0	1	0.01	5	0	0	0	0	0	0.027
8:35 PM	30.1	72	72	72	67	61	64	0		0	1	ESE	72	72	72	71	0	0	0	0	0	0	0	0	0	0	0.025
8:40 PM	30.1	72	72	71	65	59	63	0		0	1	ESE	72	72	72	70	0	0	0	0	0	0	0	0	0	0	0.023
8:45 PM	30.11	71	72	71	67	60	63	0		0	1	ESE	71	72	72	70	0	0	0	0	0	0	0	0	0	0	0.022
8:50 PM	30.11	71	71	71	65	59	62	0		0	1	ESE	71	71	71	69	0	0	0	0	0	0	0	0	0	0	0.022
8:55 PM	30.12	71	71	71	70	61	64	0		0	1	ESE	71	71	71	69	0	0	0	0	0	0	0	0	0	0	0.02
9:00 PM	30.11	70	70	70	70	60	63	0		0	1	ESE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.018
9:05 PM	30.11	70	70	69	72	60	63	0		0	2	ESE	70	70	70	68	0	0	0	0	0	0	0	0	0	0	0.016
9:10 PM	30.12	69	69	68	74	60	63	1	ESE	0.1	2	ESE	69	69	69	67	0	0	0	0	0	0	0	0	0	0	0.013
9:15 PM	30.12	68	68	68	76	60	63	1	ESE	0.1	2	ESE	68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.011
9:20 PM	30.12	68	68	68	76	60	63	0		0	0		68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.011
9:25 PM	30.12	68	68	68	76	61	63	0		0	0		68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.012
9:30 PM	30.12	68	68	68	78	61	63	0		0	0		68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.011
9:35 PM	30.12	68	68	68	76	60	63	0		0	0		68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.011
9:40 PM	30.12	68	68	68	78	61	63	0		0	0		68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.011
9:45 PM	30.12	67	68	67	79	60	62	0		0	2	ESE	67	68	68	66	0	0	0	0	0	0	0	0	0	0	0.007
9:50 PM	30.12	66	67	66	79	60	62	1	ESE	0.1	2	ESE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.005
9:55 PM	30.12	66	66	66	81	60	62	1	ESE	0.1	2	ESE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
10:00 PM	30.13	66	66	66	81	60	62	1	ESE	0.1	2	ESE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
10:05 PM	30.12	66	66	66	81	60	62	0		0	0		66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
10:10 PM	30.13	66	66	66	80	60	62	0		0	1	ESE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
10:15 PM	30.12	66	66	66	83	61	62	0		0	1	ESE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
10:20 PM	30.13	66	66	66	81	60	62	0		0	0		66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
10:25 PM	30.13	66	66	65	83	60	62	0		0	1	ESE	66	66	66	64	0	0	0	0	0	0	0	0	0	0	0.002
10:30 PM	30.13	65	65	64	85	60	61	0		0	1	ESE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
10:35 PM	30.13	64	65	64	84	59	61	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0

10:40 PM	30.13	65	65	64	84	60	61	1	ESE	0.1	2	ESE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
10:45 PM	30.14	64	64	63	87	60	61	1	ESE	0.1	2	ESE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
10:50 PM	30.13	63	64	63	87	59	61	0		0	0		63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
10:55 PM	30.15	63	63	63	88	60	61	0		0	0		63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:00 PM	30.13	63	63	63	87	59	61	1	ESE	0.1	2	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:05 PM	30.13	63	63	63	87	59	61	1	ESE	0.1	3	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:10 PM	30.13	63	63	63	86	59	60	1	ESE	0.1	2	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:15 PM	30.13	63	63	63	87	59	60	1	ESE	0.1	2	ESE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
11:20 PM	30.13	63	63	63	87	59	61	2	ESE	0.2	2	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:25 PM	30.13	63	63	63	86	59	60	2	ESE	0.2	3	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:30 PM	30.14	64	64	63	85	59	61	1	ESE	0.1	2	ESE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
11:35 PM	30.13	63	64	63	87	59	61	0		0	1	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
11:40 PM	30.13	63	63	63	88	59	61	0		0	1	ESE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.007	0
11:45 PM	30.13	63	63	62	89	59	61	2	ESE	0.2	3	ESE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.008	0
11:50 PM	30.13	62	62	62	89	59	60	1	SSE	0.1	2	SSE	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
11:55 PM	30.13	63	63	62	89	59	60	2	SSW	0.2	3	SSE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.008	0
8/4/2021 12:00 AM	30.13	62	63	62	90	59	60	2	SSW	0.2	4	SSW	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
12:05 AM	30.13	62	62	62	91	59	60	2	S	0.2	3	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
12:10 AM	30.13	62	62	62	90	59	60	3	SSE	0.2	5	SSE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.012	0
12:15 AM	30.13	62	62	61	91	59	60	2	SE	0.2	4	SSE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.012	0
12:20 AM	30.13	61	62	61	91	59	60	2	SE	0.2	3	SE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
12:25 AM	30.13	61	61	61	91	58	59	2	SE	0.2	2	SE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
12:30 AM	30.13	61	61	61	91	58	59	1	SE	0.1	2	SE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
12:35 AM	30.14	61	61	61	91	58	59	1	SE	0.1	2	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
12:40 AM	30.13	61	61	61	91	58	59	1	SE	0.1	2	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.014	0
12:45 AM	30.14	61	61	61	91	58	59	1	SE	0.1	2	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.014	0
12:50 AM	30.14	61	61	61	91	58	59	1	SE	0.1	2	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.014	0
12:55 AM	30.14	61	61	61	91	58	59	1	SE	0.1	2	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.014	0
1:00 AM	30.14	61	61	61	91	58	59	1	SE	0.1	2	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
1:05 AM	30.14	61	61	60	92	58	59	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
1:10 AM	30.14	61	61	60	90	58	59	1	SE	0.1	2	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
1:15 AM	30.13	61	61	61	88	57	59	1	SE	0.1	4	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
1:20 AM	30.14	61	61	61	88	57	59	1	SE	0.1	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.014	0
1:25 AM	30.13	61	61	61	87	57	58	2	SE	0.2	4	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
1:30 AM	30.13	61	61	60	87	57	58	1	SE	0.1	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
1:35 AM	30.13	60	61	60	88	57	58	1	SE	0.1	3	SE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
1:40 AM	30.13	61	61	60	88	57	58	1	SE	0.1	2	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
1:45 AM	30.13	60	60	60	87	57	58	1	SE	0.1	2	SE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
1:50 AM	30.13	60	60	60	88	57	58	1	SE	0.1	2	SE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
1:55 AM	30.13	60	61	60	88	57	58	1	SE	0.1	2	SE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
2:00 AM	30.13	61	61	61	88	57	58	1	SE	0.1	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:05 AM	30.13	61	61	61	89	57	59	1	SE	0.1	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:10 AM	30.13	61	61	60	88	57	58	2	SE	0.2	4	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:15 AM	30.12	61	61	60	87	57	58	2	SE	0.2	4	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
2:20 AM	30.13	60	60	60	86	56	58	2	SE	0.2	3	SE	60	60	60	59	0	0	0	0	0	0	0	0	0	0.016	0
2:25 AM	30.13	60	60	60	87	56	58	1	SE	0.1	2	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.016	0
2:30 AM	30.13	60	60	60	87	56	58	1	SE	0.1	2	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.016	0
2:35 AM	30.12	60	60	60	87	56	58	1	SE	0.1	3	SE	60	60	60	59	0	0	0	0	0	0	0	0	0	0.016	0
2:40 AM	30.13	60	60	60	88	57	58	1	SE	0.1	2	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
2:45 AM	30.13	60	60	60	87	56	58	1	SE	0.1	2	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
2:50 AM	30.13	60	60	60	87	56	58	2	SE	0.2	3	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
2:55 AM	30.13	60	60	60	87	56	57	2	SE	0.2	3	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
3:00 AM	30.13	60	60	60	88	56	58	1	SE	0.1	3	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
3:05 AM	30.13	60	60	60	89	57	58	0		0	2	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
3:10 AM	30.13	60	60	60	88	56	58	2	SE	0.2	4	SE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
3:15 AM	30.13	60	60	60	88	57	58	3	SSE	0.2	5	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0

3:20 AM	30.13	60	60	60	88	56	58	2	SE	0.2	5	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:25 AM	30.13	60	60	60	88	56	58	2	SSE	0.2	4	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
3:30 AM	30.14	60	60	60	89	57	58	1	SSE	0.1	3	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:35 AM	30.14	60	60	60	89	57	58	2	SSE	0.2	3	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
3:40 AM	30.14	60	60	60	89	57	58	2	SSE	0.2	4	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:45 AM	30.14	60	60	60	89	57	58	3	S	0.2	4	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:50 AM	30.14	60	60	60	89	56	58	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
3:55 AM	30.14	60	60	60	89	56	58	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
4:00 AM	30.14	60	60	60	89	56	58	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
4:05 AM	30.14	60	60	60	89	56	58	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
4:10 AM	30.15	60	60	60	90	57	58	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
4:15 AM	30.15	60	60	60	90	57	58	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.018	0
4:20 AM	30.15	60	60	60	90	57	58	1	S	0.1	2	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:25 AM	30.15	60	60	59	90	57	58	2	S	0.2	3	S	60	60	60	57	0	0	0	0	0	0	0	0	0	0.019	0
4:30 AM	30.15	60	60	60	90	57	58	2	S	0.2	4	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:35 AM	30.15	59	60	59	91	57	58	2	SE	0.2	4	SSE	59	60	60	58	0	0	0	0	0	0	0	0	0	0.019	0
4:40 AM	30.15	59	59	59	90	56	57	3	SE	0.2	5	SE	59	60	60	57	0	0	0	0	0	0	0	0	0	0.02	0
4:45 AM	30.15	59	59	59	90	56	57	2	SSE	0.2	3	SSE	59	59	59	57	0	0	0	0	0	0	0	0	0	0.02	0
4:50 AM	30.15	59	59	59	90	56	57	2	SE	0.2	3	SE	59	59	59	57	0	0	0	0	0	0	0	0	0	0.021	0
4:55 AM	30.14	59	59	59	89	56	57	2	SE	0.2	3	SE	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:00 AM	30.14	59	59	59	90	56	57	2	SE	0.2	4	SE	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:05 AM	30.15	59	59	58	89	55	57	3	SE	0.2	4	SE	59	59	59	57	0	0	0	0	0	0	0	0	0	0.022	0
5:10 AM	30.15	58	59	58	90	56	57	3	SE	0.2	5	SE	58	59	59	56	0	0	0	0	0	0	0	0	0	0.023	0
5:15 AM	30.14	58	58	58	90	55	57	3	SE	0.2	4	SE	58	59	59	56	0	0	0	0	0	0	0	0	0	0.023	0
5:20 AM	30.15	58	58	58	90	55	57	3	SE	0.2	4	SE	58	59	59	57	0	0	0	0	0	0	0	0	0	0.023	0
5:25 AM	30.15	58	58	58	90	55	57	3	SE	0.2	4	SE	58	59	59	56	0	0	0	0	0	0	0	0	0	0.023	0
5:30 AM	30.15	58	58	58	90	55	56	3	SE	0.2	5	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.023	0
5:35 AM	30.15	58	58	58	89	55	56	3	SE	0.2	4	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.024	0
5:40 AM	30.15	58	58	58	90	55	56	3	SE	0.2	5	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.024	0
5:45 AM	30.16	58	58	58	90	55	56	3	SE	0.2	4	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
5:50 AM	30.16	58	58	58	91	55	56	1	SE	0.1	3	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
5:55 AM	30.15	58	58	58	91	55	56	1	SE	0.1	2	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.026	0
6:00 AM	30.15	58	58	58	91	55	56	1	SE	0.1	3	SE	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
6:05 AM	30.16	58	58	58	91	55	56	3	SSE	0.2	6	S	58	58	58	56	0	0	0	0	0	0	0	0	0	0.025	0
6:10 AM	30.16	58	58	58	91	55	56	2	SSE	0.2	4	SSE	58	58	58	56	0	0	4	0.03	5	0	0	0	0	0.025	0
6:15 AM	30.16	58	58	58	92	55	56	2	SSE	0.2	4	SSE	58	58	58	56	0	0	7	0.05	9	0	0	0	0	0.025	0
6:20 AM	30.16	58	58	58	92	55	56	2	SSE	0.2	4	SSE	58	58	58	56	0	0	9	0.06	11	0	0	0	0	0.025	0
6:25 AM	30.16	58	58	58	92	55	56	1	SSE	0.1	4	SSE	58	58	58	56	0	0	12	0.09	12	0	0	0	0	0.025	0
6:30 AM	30.16	58	58	58	92	55	56	2	SE	0.2	5	SSE	58	58	58	56	0	0	16	0.11	18	0	0	0	0	0.025	0
6:35 AM	30.16	58	58	58	92	55	56	3	SE	0.2	5	SE	58	58	58	56	0	0	19	0.14	21	0	0	0	0	0.026	0
6:40 AM	30.17	58	58	58	92	55	56	3	SE	0.2	4	SE	58	58	58	56	0	0	21	0.15	21	0	0	0	0	0.025	0
6:45 AM	30.16	58	58	58	92	55	56	3	SE	0.2	5	SE	58	58	58	56	0	0	29	0.21	35	0	0	0	0	0.025	0
6:50 AM	30.17	58	58	58	92	55	56	3	SE	0.2	5	SE	58	58	58	56	0	0	41	0.29	49	0	0	0	0	0.025	0
6:55 AM	30.17	58	58	58	92	55	56	3	SE	0.2	4	SE	58	58	58	57	0	0	57	0.41	72	0	0	0	0	0.025	0
7:00 AM	30.17	58	58	58	92	55	56	3	SE	0.2	4	SE	58	58	58	57	0	0	77	0.55	83	0	0	0	0	0.025	0
7:05 AM	30.17	58	58	58	92	56	56	3	SE	0.2	4	SE	58	58	58	58	0	0	89	0.64	91	0	0	0	0	0.025	0
7:10 AM	30.17	58	58	58	93	56	57	3	SE	0.2	5	SE	58	59	59	61	0	0	101	0.72	105	0	0	0	0	0.024	0
7:15 AM	30.17	58	59	58	92	56	57	3	SE	0.2	5	SE	58	59	59	59	0	0	105	0.75	114	0	0	0	0	0.023	0
7:20 AM	30.17	59	59	58	91	56	57	3	SSE	0.2	5	SE	59	59	59	59	0	0	117	0.84	123	0	0	0	0	0.022	0
7:25 AM	30.17	59	59	59	91	56	57	3	SSE	0.2	5	SE	59	59	59	59	0	0	118	0.85	128	0	0	0	0	0.021	0
7:30 AM	30.17	59	59	59	90	56	57	3	SSE	0.2	5	SE	59	59	59	60	0	0	129	0.92	146	0	0	0	0	0.02	0
7:35 AM	30.17	60	60	59	90	57	58	3	SE	0.2	5	SE	60	60	60	61	0	0	158	1.13	165	0	0	0	0	0.019	0
7:40 AM	30.16	60	60	60	90	57	58	3	SE	0.2	6	ESE	60	60	60	61	0	0	177	1.27	188	0	1	0	1	0.018	0
7:45 AM	30.17	60	60	60	89	57	58	2	SE	0.2	4	SE	60	60	60	62	0	0	185	1.33	193	0	1	0	1	0.017	0
7:50 AM	30.17	60	60	60	89	57	58	3	SE	0.2	5	SE	60	60	60	62	0	0	184	1.32	206	0	1	0	1	0.017	0
7:55 AM	30.18	60	61	60	88	57	58	4	SE	0.3	7	SE	60	61	61	63	0	0	201	1.44	213	0	1	0	1	0.016	0
8:00 AM	30.19	61	61	60	88	57	58	3	S	0.2	7	SE	61	61	61	63	0	0	204	1.46	216	0	1	0	1	0.015	0

8:05 AM	30.19	61	61	61	88	58	59	4	SE	0.3	8	SE	61	62	62	65	0	0	217	1.56	221	0	1	0	1	0.013	0
8:10 AM	30.19	61	62	61	88	58	59	5	SE	0.4	9	SE	61	62	62	65	0	0	184	1.32	199	0	1	0	1	0.012	0
8:15 AM	30.19	62	62	61	88	58	59	4	SE	0.3	7	ESE	62	62	62	64	0	0	175	1.25	190	0	1	0	1	0.012	0
8:20 AM	30.19	62	62	62	89	59	60	3	SE	0.2	7	SE	62	62	62	65	0	0	160	1.15	209	0	1	0	1	0.011	0
8:25 AM	30.18	62	62	62	88	59	60	3	SE	0.2	5	SSE	62	63	63	65	0	0	175	1.25	204	0	1	0	1	0.01	0
8:30 AM	30.19	62	62	62	88	59	60	4	SE	0.3	6	ESE	62	63	63	65	0	0	178	1.28	229	0	1	0	1	0.009	0
8:35 AM	30.2	62	63	62	89	59	60	4	SE	0.3	5	SE	62	63	63	66	0	0	175	1.25	204	0	1	0	1	0.009	0
8:40 AM	30.19	63	63	63	87	59	60	3	SE	0.2	8	SE	63	63	63	65	0	0	171	1.23	230	0	1	0	1	0.008	0
8:45 AM	30.2	63	63	63	87	59	60	4	SE	0.3	7	ESE	63	63	63	64	0	0	128	0.92	148	0	1	0	1	0.008	0
8:50 AM	30.2	63	63	63	88	59	60	4	SE	0.3	7	SE	63	63	63	66	0	0	147	1.05	195	0	1	0	1	0.008	0
8:55 AM	30.19	63	63	63	88	59	60	4	SE	0.3	8	SE	63	63	63	66	0	0	176	1.26	239	0	1	0	1	0.008	0
9:00 AM	30.2	63	63	63	87	59	60	3	SE	0.2	7	SE	63	63	63	66	0	0	194	1.39	292	0	1	0.1	2	0.007	0
9:05 AM	30.21	63	64	63	86	59	60	3	SSE	0.2	5	SSE	63	64	64	67	0	0	279	2	406	0	2	0.1	2	0.006	0
9:10 AM	30.2	64	64	63	85	59	60	4	S	0.3	7	SE	64	64	64	68	0	0	270	1.94	313	0	2	0.1	2	0.005	0
9:15 AM	30.2	64	64	64	85	59	61	5	SE	0.4	8	SE	64	64	64	69	0	0	431	3.09	431	0	2	0.1	2	0.004	0
9:20 AM	30.2	64	64	64	84	59	61	5	S	0.4	10	S	64	65	65	71	0	0	360	2.58	383	0	2	0.1	2	0.003	0
9:25 AM	30.2	64	65	64	83	59	61	4	SSE	0.3	7	S	64	65	65	72	0	0	420	3.01	475	0	2	0.1	2	0.002	0
9:30 AM	30.2	65	66	65	84	60	62	3	SE	0.2	6	S	65	66	66	73	0	0	384	2.75	422	0	2	0.1	2	0	0
9:35 AM	30.2	65	66	65	82	60	61	3	SE	0.2	5	SSW	65	66	66	73	0	0	457	3.28	496	0	3	0.1	3	0	0.001
9:40 AM	30.2	66	67	65	80	60	62	1	SW	0.1	4	SW	66	67	67	76	0	0	483	3.46	578	0	3	0.1	3	0	0.003
9:45 AM	30.2	67	67	66	79	60	62	2	S	0.2	4	SSW	67	68	68	76	0	0	520	3.73	599	0	3	0.1	3	0	0.006
9:50 AM	30.2	66	67	66	80	60	62	2	S	0.2	3	SSW	66	67	67	78	0	0	569	4.08	594	0	3	0.1	3	0	0.005
9:55 AM	30.2	67	68	66	79	60	62	1	SSE	0.1	3	SSW	67	68	68	77	0	0	486	3.48	536	0	3	0.1	4	0	0.006
10:00 AM	30.2	68	68	68	77	61	63	2	SSE	0.2	4	SSE	68	69	69	81	0	0	620	4.45	652	0.01	4	0.1	4	0	0.01
10:05 AM	30.2	68	68	68	79	61	63	1	S	0.1	3	S	68	69	69	81	0	0	616	4.42	652	0	4	0.1	4	0	0.009
10:10 AM	30.2	69	70	68	75	61	63	1	S	0.1	2	S	69	70	70	80	0	0	464	3.33	526	0	3	0.1	3	0	0.014
10:15 AM	30.2	71	71	70	73	62	64	0		0	1	SW	71	71	71	80	0	0	518	3.71	563	0	4	0.1	4	0	0.02
10:20 AM	30.2	70	71	70	74	61	64	2	SE	0.2	4	ESE	70	71	71	79	0	0	476	3.41	555	0	4	0.1	4	0	0.018
10:25 AM	30.2	70	70	70	75	62	64	1	SE	0.1	4	E	70	71	71	83	0	0	641	4.6	652	0	4	0.1	4	0	0.017
10:30 AM	30.2	70	71	70	73	61	64	1	ESE	0.1	3	SSE	70	71	71	83	0	0	700	5.02	715	0	4	0.1	5	0	0.019
10:35 AM	30.2	71	71	70	71	61	64	1	SSE	0.1	2	ESE	71	71	71	84	0	0	652	4.68	652	0	4	0.1	5	0	0.02
10:40 AM	30.2	71	72	71	71	61	64	1	ESE	0.1	3	ESE	71	71	71	84	0	0	671	4.81	698	0	4	0.2	5	0	0.02
10:45 AM	30.2	73	74	72	67	61	65	2	SE	0.2	4	SE	73	74	74	86	0	0	719	5.16	754	0	5	0.2	5	0	0.028
10:50 AM	30.2	72	72	72	68	61	64	2	SSE	0.2	4	SSE	72	72	72	84	0	0	564	4.04	682	0	4	0.2	5	0	0.024
10:55 AM	30.2	72	72	72	66	60	63	2	S	0.2	4	S	72	72	72	85	0	0	673	4.83	745	0	5	0.2	5	0	0.024
11:00 AM	30.21	72	73	72	69	62	65	2	SSE	0.2	3	SE	72	73	73	85	0	0	611	4.38	635	0.02	5	0.2	5	0	0.026
11:05 AM	30.21	73	73	72	68	62	65	2	SSE	0.2	4	SE	73	74	74	87	0	0	729	5.23	756	0	5	0.2	5	0	0.027
11:10 AM	30.2	74	74	74	67	62	65	2	S	0.2	4	S	74	75	75	87	0	0	747	5.36	759	0	6	0.2	6	0	0.03
11:15 AM	30.21	74	74	73	65	61	64	3	SE	0.2	7	ESE	74	74	74	87	0	0	740	5.31	765	0	5	0.2	6	0	0.03
11:20 AM	30.2	74	74	74	65	61	65	2	SE	0.2	5	SE	74	75	75	88	0	0	755	5.41	763	0	6	0.2	6	0	0.031
11:25 AM	30.2	74	75	74	67	63	66	3	S	0.2	6	S	74	75	75	88	0	0	743	5.33	766	0	6	0.2	6	0	0.032
11:30 AM	30.2	75	75	75	61	61	64	4	ESE	0.3	8	SE	75	75	75	89	0	0	754	5.41	779	0	6	0.2	6	0	0.034
11:35 AM	30.2	76	76	75	60	61	64	3	SE	0.2	5	SE	76	76	76	89	0	0	760	5.45	782	0	6	0.2	6	0	0.036
11:40 AM	30.21	76	76	76	59	60	64	3	SSE	0.2	6	ESE	76	76	76	89	0	0	783	5.61	798	0	6	0.2	6	0	0.038
11:45 AM	30.2	76	77	76	55	59	63	4	E	0.3	7	ESE	76	76	76	88	0	0	736	5.28	816	0	6	0.2	6	0	0.039
11:50 AM	30.2	77	78	77	54	59	64	4	E	0.3	8	SE	77	77	77	90	0	0	796	5.71	809	0	6	0.2	6	0	0.042
11:55 AM	30.2	77	78	77	57	61	65	4	E	0.3	7	ESE	77	78	78	90	0	0	772	5.54	805	0	6	0.2	6	0	0.043
12:00 PM	30.2	77	78	77	53	59	64	4	ESE	0.3	9	ESE	77	78	78	90	0	0	805	5.77	812	0.02	6	0.2	6	0	0.043
12:05 PM	30.2	77	78	77	54	59	64	5	ESE	0.4	9	SE	77	78	78	91	0	0	807	5.79	812	0	6	0.2	6	0	0.043
12:10 PM	30.2	78	79	78	52	59	64	5	ESE	0.4	10	ESE	78	79	79	90	0	0	810	5.81	833	0	6	0.2	7	0	0.047
12:15 PM	30.2	78	79	77	50	58	63	5	E	0.4	9	ENE	78	78	78	91	0	0	819	5.87	833	0	7	0.2	7	0	0.044
12:20 PM	30.19	79	80	78	49	58	63	6	E	0.5	9	ESE	79	79	79	91	0	0	832	5.97	835	0	7	0.2	7	0	0.049
12:25 PM	30.2	80	81	79	46	57	63	5	E	0.4	9	E	80	80	80	91	0	0	829	5.94	835	0	7	0.2	7	0	0.052
12:30 PM	30.19	80	81	80	48	59	64	5	ENE	0.4	10	E	80	80	80	92	0	0	832	5.97	835	0	7	0.2	7	0	0.053
12:35 PM	30.2	80	82	80	46	58	63	4	ENE	0.3	8	ENE	80	80	80	94	0	0	833	5.97	835	0	7	0.2	7	0	0.054
12:40 PM	30.19	83	84	82	46	60	65	4	NE	0.3	8	ENE	83	83	83	96	0	0	835	5.99	838	0	7	0.2	7	0	0.062
12:45 PM	30.19	81	83	80	49	60	65	5	E	0.4	10	E	81	81	81	92	0	0	838	6.01	840	0	7	0.2	7	0	0.056

12:50 PM	30.19	80	80	80	47	58	63	4	E	0.3	8	E	80	80	80	92	0	0	838	6.01	838	0	7	0.3	7	0	0.052
12:55 PM	30.19	80	81	80	49	60	64	3	ESE	0.2	8	ESE	80	81	81	92	0	0	838	6.01	840	0	7	0.3	7	0	0.054
1:00 PM	30.2	79	80	78	50	59	64	6	ESE	0.5	10	ESE	79	79	79	90	0	0	835	5.99	842	0.03	7	0.3	7	0	0.048
1:05 PM	30.19	81	83	78	45	58	63	3	NE	0.2	6	NE	81	81	81	96	0	0	838	6.01	838	0	7	0.3	7	0	0.057
1:10 PM	30.19	82	83	81	46	59	64	4	E	0.3	9	E	82	82	82	93	0	0	839	6.02	842	0	7	0.3	7	0	0.059
1:15 PM	30.19	82	84	81	41	56	62	2	ENE	0.2	7	NE	82	81	81	96	0	0	841	6.03	846	0	7	0.3	7	0	0.058
1:20 PM	30.2	82	84	82	44	58	64	5	NNE	0.4	10	NNE	82	82	82	94	0	0	835	5.99	842	0	7	0.3	7	0	0.06
1:25 PM	30.19	82	83	82	43	58	63	4	NNE	0.3	8	N	82	82	82	93	0	0	860	6.17	874	0	7	0.3	7	0	0.061
1:30 PM	30.2	82	84	80	41	56	62	3	NNE	0.2	6	NE	82	81	81	96	0	0	849	6.09	856	0	7	0.3	7	0	0.059
1:35 PM	30.2	84	85	83	41	58	63	3	NE	0.2	7	NE	84	83	83	96	0	0	846	6.07	847	0	7	0.3	7	0	0.066
1:40 PM	30.19	83	84	82	39	55	62	4	E	0.3	9	E	83	82	82	94	0	0	846	6.07	849	0	7	0.3	7	0	0.062
1:45 PM	30.19	83	84	82	42	57	63	6	N	0.5	11	NNE	83	82	82	93	0	0	827	5.93	835	0	7	0.2	7	0	0.062
1:50 PM	30.19	81	82	80	43	56	62	4	NNE	0.3	8	NNE	81	80	80	92	0	0	828	5.94	842	0	6	0.2	7	0	0.055
1:55 PM	30.19	81	81	81	42	56	62	5	NE	0.4	11	NE	81	80	80	92	0	0	834	5.98	847	0	7	0.2	7	0	0.056
2:00 PM	30.2	83	84	81	43	58	63	2	ENE	0.2	7	E	83	82	82	94	0	0	817	5.86	824	0.03	6	0.2	7	0	0.061
2:05 PM	30.18	82	82	81	46	59	64	5	NE	0.4	9	N	82	81	81	93	0	0	826	5.92	837	0	7	0.2	7	0	0.057
2:10 PM	30.18	82	83	81	42	57	63	4	ENE	0.3	8	E	82	81	81	93	0	0	605	4.34	842	0	5	0.2	7	0	0.06
2:15 PM	30.19	82	83	82	43	58	63	3	NE	0.2	8	ENE	82	82	82	95	0	0	828	5.94	842	0	6	0.2	7	0	0.06
2:20 PM	30.19	84	85	83	42	59	64	2	NE	0.2	5	ENE	84	84	84	98	0	0	818	5.87	824	0	7	0.2	7	0	0.066
2:25 PM	30.19	85	86	83	42	59	65	4	E	0.3	9	E	85	85	85	96	0	0	808	5.79	810	0	6	0.2	7	0	0.07
2:30 PM	30.18	83	84	82	43	58	63	4	E	0.3	9	E	83	82	82	96	0	0	813	5.83	821	0	6	0.2	6	0	0.061
2:35 PM	30.18	84	85	84	42	59	64	2	NNE	0.2	5	NE	84	84	84	97	0	0	817	5.86	826	0	6	0.2	6	0	0.067
2:40 PM	30.18	86	87	85	40	59	64	1	ENE	0.1	4	ENE	86	85	85	97	0	0	815	5.84	823	0	6	0.2	6	0	0.072
2:45 PM	30.18	85	86	84	43	60	65	4	E	0.3	8	N	85	85	85	97	0	0	814	5.84	817	0	6	0.2	6	0	0.07
2:50 PM	30.18	83	84	82	46	60	65	5	E	0.4	9	E	83	83	83	94	0	0	793	5.69	807	0	6	0.2	6	0	0.061
2:55 PM	30.18	82	82	81	45	58	64	4	E	0.3	10	E	82	81	81	93	0	0	799	5.73	810	0	6	0.2	6	0	0.058
3:00 PM	30.18	81	82	81	45	58	63	3	E	0.2	8	E	81	81	81	94	0	0	824	5.91	847	0.03	6	0.2	6	0	0.057
3:05 PM	30.18	83	83	82	43	58	64	2	ENE	0.2	5	NE	83	82	82	93	0	0	447	3.21	830	0	5	0.2	6	0	0.062
3:10 PM	30.18	82	83	82	45	58	64	2	N	0.2	4	NNE	82	82	82	93	0	0	806	5.78	807	0	5	0.2	6	0	0.059
3:15 PM	30.18	82	82	80	46	59	64	4	ESE	0.3	10	ESE	82	81	81	82	0	0	135	0.97	156	0	4	0.1	5	0	0.058
3:20 PM	30.17	79	80	79	50	59	64	4	ESE	0.3	7	ESE	79	79	79	81	0	0	280	2.01	805	0	4	0.1	5	0	0.05
3:25 PM	30.17	80	80	79	50	59	64	5	ESE	0.4	11	ESE	80	80	80	92	0	0	835	5.99	847	0	5	0.2	5	0	0.051
3:30 PM	30.17	80	80	80	50	60	64	4	SE	0.3	10	SE	80	80	80	92	0	0	828	5.94	840	0	5	0.2	5	0	0.051
3:35 PM	30.17	80	80	80	50	60	65	7	ESE	0.6	10	ESE	80	80	80	93	0	0	698	5	698	0	4	0.1	5	0	0.053
3:40 PM	30.17	82	84	80	47	60	65	4	ENE	0.3	9	ESE	82	82	82	96	0	0	313	2.24	313	0	4	0.1	5	0	0.059
3:45 PM	30.17	82	83	81	50	61	66	5	NE	0.4	10	E	82	82	82	86	0	0	239	1.71	262	0	3	0.1	3	0	0.058
3:50 PM	30.17	81	82	81	49	60	65	6	NE	0.5	11	NE	81	82	82	86	0	0	218	1.56	232	0	3	0.1	4	0	0.057
3:55 PM	30.15	81	81	80	49	60	65	5	NE	0.4	9	ENE	81	81	81	84	0	0	196	1.41	200	0	3	0.1	4	0	0.055
4:00 PM	30.16	81	81	81	48	60	65	4	NNE	0.3	7	NNE	81	81	81	90	0	0	690	4.95	701	0.02	4	0.1	4	0	0.057
4:05 PM	30.16	82	82	81	48	60	65	3	ENE	0.2	7	NNE	82	82	82	95	0	0	655	4.7	673	0	4	0.1	4	0	0.059
4:10 PM	30.16	83	83	82	46	60	65	3	NE	0.2	6	NE	83	83	83	95	0	0	643	4.61	647	0	4	0.1	4	0	0.062
4:15 PM	30.17	83	84	83	45	60	65	5	ENE	0.4	10	NE	83	83	83	96	0	0	622	4.46	631	0	4	0.1	4	0	0.063
4:20 PM	30.16	83	83	82	45	59	65	4	NE	0.3	6	ENE	83	83	83	95	0	0	616	4.42	621	0	4	0.1	4	0	0.062
4:25 PM	30.15	81	83	80	50	61	65	5	E	0.4	7	E	81	81	81	92	0	0	580	4.16	610	0	4	0.1	4	0	0.056
4:30 PM	30.16	80	80	80	51	61	65	3	SE	0.2	5	SE	80	81	81	93	0	0	607	4.35	613	0	3	0.1	4	0	0.053
4:35 PM	30.16	80	81	80	49	59	64	4	ESE	0.3	8	ESE	80	80	80	92	0	0	591	4.24	598	0	3	0.1	3	0	0.053
4:40 PM	30.16	80	81	80	49	59	64	3	ESE	0.2	9	ESE	80	80	80	92	0	0	589	4.22	598	0	3	0.1	3	0	0.053
4:45 PM	30.16	82	84	81	46	60	65	2	ENE	0.2	9	NNE	82	82	82	96	0	0	562	4.03	578	0	3	0.1	3	0	0.06
4:50 PM	30.16	83	84	82	47	61	65	6	NNE	0.5	10	NE	83	83	83	93	0	0	540	3.87	548	0	3	0.1	3	0	0.062
4:55 PM	30.16	82	82	81	47	59	64	5	NE	0.4	9	NNE	82	82	82	94	0	0	535	3.84	541	0	3	0.1	3	0	0.058
5:00 PM	30.15	82	82	82	48	60	65	4	NE	0.3	9	NE	82	82	82	88	0	0	112	0.8	139	0.02	2	0.1	2	0	0.058
5:05 PM	30.15	81	82	80	48	59	64	4	NE	0.3	7	NE	81	81	81	81	0	0	113	0.81	149	0	2	0.1	2	0	0.055
5:10 PM	30.16	81	82	80	49	60	65	3	NNE	0.2	8	NNE	81	81	81	85	0	0	430	3.08	462	0	2	0.1	2	0	0.056
5:15 PM	30.15	81	81	81	48	59	64	3	NNE	0.2	7	NE	81	81	81	92	0	0	460	3.3	487	0	2	0.1	2	0	0.056
5:20 PM	30.15	82	82	81	47	60	65	4	N	0.3	7	NNE	82	82	82	93	0	0	440	3.15	450	0	2	0.1	2	0	0.058
5:25 PM	30.15	82	83	81	46	59	64	3	NE	0.2	7	NNE	82	82	82	94	0	0	426	3.05	429	0	2	0.1	2	0	0.06
5:30 PM	30.15	82	82	82	47	60	65	5	N	0.4	8	N	82	82	82	93	0	0	424	3.04	425	0	2	0.1	2	0	0.059

5:35 PM	30.15	81	82	81	47	59	64	4	NNE	0.3	8	NNW	81	81	81	91	0	0	414	2.97	418	0	2	0.1	2	0	0.056
5:40 PM	30.15	82	83	80	47	59	64	2	NNE	0.2	6	ENE	82	82	82	93	0	0	403	2.89	408	0	2	0.1	2	0	0.058
5:45 PM	30.15	83	83	82	46	60	65	6	NE	0.5	14	NE	83	83	83	92	0	0	393	2.82	403	0	2	0.1	2	0	0.062
5:50 PM	30.15	81	82	81	48	60	65	6	NE	0.5	11	NE	81	81	81	91	0	0	363	2.6	371	0	1	0.1	1	0	0.057
5:55 PM	30.15	80	81	80	50	60	65	8	NE	0.7	11	NE	80	81	80	89	0	0	336	2.41	350	0	1	0	1	0	0.054
6:00 PM	30.15	80	80	80	50	60	64	5	NE	0.4	9	NNE	80	80	80	88	0	0	299	2.14	320	0.01	1	0	1	0	0.052
6:05 PM	30.15	80	80	80	50	60	65	4	NE	0.3	8	NNE	80	80	80	85	0	0	288	2.07	288	0	1	0	1	0	0.053
6:10 PM	30.15	81	81	80	49	60	65	4	NE	0.3	6	ENE	81	81	81	91	0	0	290	2.08	299	0	1	0	1	0	0.055
6:15 PM	30.15	81	82	81	48	60	65	6	NE	0.5	11	NE	81	81	81	85	0	0	269	1.93	278	0	1	0	1	0	0.056
6:20 PM	30.15	80	81	80	49	60	64	6	NE	0.5	10	NE	80	81	81	88	0	0	255	1.83	258	0	1	0	1	0	0.054
6:25 PM	30.15	80	80	80	51	60	65	4	NE	0.3	8	NE	80	81	81	84	0	0	245	1.76	250	0	1	0	1	0	0.053
6:30 PM	30.15	80	80	80	51	61	65	5	NE	0.4	11	NE	80	81	81	89	0	0	231	1.66	237	0	1	0	1	0	0.053
6:35 PM	30.14	80	80	80	51	60	65	5	NE	0.4	10	NNE	80	81	81	83	0	0	218	1.56	223	0	1	0	1	0	0.053
6:40 PM	30.15	80	80	80	50	60	64	6	NE	0.5	9	NE	80	80	80	87	0	0	206	1.48	209	0	1	0	1	0	0.052
6:45 PM	30.15	80	80	80	51	60	65	5	NE	0.4	8	NNE	80	80	80	86	0	0	192	1.38	199	0	1	0	1	0	0.051
6:50 PM	30.14	80	80	80	51	60	65	5	NE	0.4	7	NE	80	80	80	86	0	0	175	1.25	183	0	1	0	1	0	0.051
6:55 PM	30.14	80	80	79	51	60	65	4	NNE	0.3	8	NNE	80	80	80	81	0	0	157	1.13	163	0	0	0	1	0	0.051
7:00 PM	30.14	79	80	79	52	60	65	6	NNE	0.5	10	N	79	80	80	84	0	0	143	1.03	148	0.01	0	0	0	0	0.05
7:05 PM	30.14	79	79	79	53	60	65	5	NNE	0.4	9	N	79	79	79	80	0	0	129	0.92	134	0	0	0	0	0	0.049
7:10 PM	30.14	79	79	78	54	61	65	7	NNE	0.6	9	N	79	79	79	83	0	0	113	0.81	120	0	0	0	0	0	0.048
7:15 PM	30.14	78	78	78	54	60	65	6	NNE	0.5	10	NE	78	79	79	79	0	0	98	0.7	102	0	0	0	0	0	0.047
7:20 PM	30.14	78	78	78	55	61	65	6	NNE	0.5	9	NNE	78	79	79	82	0	0	86	0.62	90	0	0	0	0	0	0.046
7:25 PM	30.15	78	78	78	59	62	66	7	NNE	0.6	11	N	78	79	79	78	0	0	76	0.54	79	0	0	0	0	0	0.045
7:30 PM	30.15	78	78	77	62	63	67	7	N	0.6	11	N	78	78	78	77	0	0	67	0.48	70	0	0	0	0	0	0.043
7:35 PM	30.15	77	77	77	65	64	67	7	N	0.6	10	NNE	77	78	78	76	0	0	55	0.39	60	0	0	0	0	0	0.041
7:40 PM	30.15	76	77	76	66	64	67	8	NNE	0.7	12	NNE	75	77	77	76	0	0	46	0.33	49	0	0	0	0	0	0.04
7:45 PM	30.15	76	76	76	66	64	67	9	NNE	0.8	14	N	74	77	75	74	0	0	37	0.27	40	0	0	0	0	0	0.038
7:50 PM	30.15	76	76	76	65	63	66	8	NNE	0.7	12	NNE	75	76	75	74	0	0	30	0.22	33	0	0	0	0	0	0.037
7:55 PM	30.14	75	76	75	66	63	66	9	NNE	0.8	13	NNE	74	76	75	74	0	0	24	0.17	26	0	0	0	0	0	0.036
8:00 PM	30.14	75	75	75	66	63	66	8	NNE	0.7	13	NE	74	76	75	74	0	0	19	0.14	21	0	0	0	0	0	0.034
8:05 PM	30.14	75	75	74	67	63	66	6	NNE	0.5	9	NNE	75	76	76	73	0	0	16	0.11	18	0	0	0	0	0	0.033
8:10 PM	30.14	74	74	74	68	63	66	7	NNE	0.6	10	NNE	74	75	75	73	0	0	13	0.09	14	0	0	0	0	0	0.032
8:15 PM	30.15	74	74	74	68	63	66	6	NNE	0.5	9	NNE	74	75	75	74	0	0	10	0.07	11	0	0	0	0	0	0.031
8:20 PM	30.15	74	74	74	69	63	66	6	NNE	0.5	9	NNE	74	75	75	73	0	0	7	0.05	9	0	0	0	0	0	0.03
8:25 PM	30.15	73	74	73	69	63	65	6	NNE	0.5	9	NNE	73	74	74	73	0	0	2	0.01	5	0	0	0	0	0	0.029
8:30 PM	30.15	73	73	73	69	62	65	7	NNE	0.6	11	NE	73	74	74	73	0	0	0	0	0	0	0	0	0	0	0.028
8:35 PM	30.15	73	73	73	69	62	65	7	NNE	0.6	11	NE	73	74	74	71	0	0	0	0	0	0	0	0	0	0	0.028
8:40 PM	30.15	73	73	73	69	62	65	8	NNE	0.7	10	NNE	72	74	73	71	0	0	0	0	0	0	0	0	0	0	0.027
8:45 PM	30.15	73	73	73	69	62	65	8	NNE	0.7	10	NNE	72	73	73	72	0	0	0	0	0	0	0	0	0	0	0.027
8:50 PM	30.15	72	73	72	70	62	65	7	NNE	0.6	10	ENE	72	73	73	72	0	0	0	0	0	0	0	0	0	0	0.026
8:55 PM	30.15	72	72	72	71	62	65	7	NNE	0.6	11	N	72	73	73	70	0	0	0	0	0	0	0	0	0	0	0.025
9:00 PM	30.15	72	72	72	71	62	65	7	NNE	0.6	9	N	72	73	73	70	0	0	0	0	0	0	0	0	0	0	0.025
9:05 PM	30.15	72	72	72	71	62	65	7	NNE	0.6	10	NNE	72	73	73	70	0	0	0	0	0	0	0	0	0	0	0.024
9:10 PM	30.16	72	72	72	72	62	65	6	NNE	0.5	9	N	72	72	72	70	0	0	0	0	0	0	0	0	0	0	0.023
9:15 PM	30.15	72	72	71	72	62	65	5	NNE	0.4	8	NNE	72	72	72	70	0	0	0	0	0	0	0	0	0	0	0.023
9:20 PM	30.15	71	71	71	72	62	64	5	NNE	0.4	8	NNE	71	72	72	70	0	0	0	0	0	0	0	0	0	0	0.022
9:25 PM	30.16	71	71	71	73	62	65	4	NNE	0.3	7	NNE	71	72	72	70	0	0	0	0	0	0	0	0	0	0	0.021
9:30 PM	30.16	71	71	71	74	62	65	4	NNE	0.3	7	N	71	72	72	69	0	0	0	0	0	0	0	0	0	0	0.02
9:35 PM	30.16	71	71	71	74	62	64	4	NNE	0.3	6	NNE	71	71	71	69	0	0	0	0	0	0	0	0	0	0	0.019
9:40 PM	30.16	71	71	70	73	62	64	4	NNE	0.3	8	NNE	71	71	71	69	0	0	0	0	0	0	0	0	0	0	0.019
9:45 PM	30.16	70	70	70	74	62	64	5	NNE	0.4	9	NNE	70	71	71	69	0	0	0	0	0	0	0	0	0	0	0.019
9:50 PM	30.16	70	70	70	73	61	64	5	NNE	0.4	9	NNE	70	71	71	69	0	0	0	0	0	0	0	0	0	0	0.018
9:55 PM	30.16	70	70	70	74	62	64	4	NNE	0.3	8	NNE	70	71	71	69	0	0	0	0	0	0	0	0	0	0	0.018
10:00 PM	30.16	70	70	70	74	62	64	4	NNE	0.3	8	NNE	70	71	71	69	0	0	0	0	0	0	0	0	0	0	0.018
10:05 PM	30.16	70	70	70	74	61	64	4	NNE	0.3	7	NNE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.018
10:10 PM	30.16	70	70	70	74	61	64	4	NNE	0.3	7	N	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.017
10:15 PM	30.17	70	70	70	74	61	64	3	NNE	0.2	6	NE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.017

10:20 PM	30.16	70	70	70	74	61	64	3	N	0.2	6	NE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.017
10:25 PM	30.16	70	70	70	74	61	64	1	NNE	0.1	3	NNE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.017
10:30 PM	30.17	70	70	70	75	62	64	1	NNE	0.1	2	NNE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.017
10:35 PM	30.16	70	70	69	77	62	64	1	NNE	0.1	3	ENE	70	71	71	68	0	0	0	0	0	0	0	0	0	0	0.016
10:40 PM	30.16	69	69	69	76	61	64	1	ENE	0.1	2	ENE	69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.014
10:45 PM	30.16	69	69	69	76	61	63	1	NNE	0.1	3	NNE	69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.014
10:50 PM	30.17	69	69	69	76	61	63	2	NNE	0.2	3	NNE	69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.014
10:55 PM	30.16	69	69	69	76	61	63	2	NE	0.2	7	NNE	69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.014
11:00 PM	30.16	69	69	69	76	61	63	2	NNE	0.2	3	NNE	69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.014
11:05 PM	30.17	69	69	69	76	61	63	1	NNE	0.1	3	NNE	69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.014
11:10 PM	30.17	69	69	68	79	62	64	1	NNE	0.1	3	W	69	70	70	67	0	0	0	0	0	0	0	0	0	0	0.013
11:15 PM	30.16	67	68	66	82	61	63	1	W	0.1	2	W	67	68	68	65	0	0	0	0	0	0	0	0	0	0	0.007
11:20 PM	30.16	66	66	66	84	61	63	1	W	0.1	2	W	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
11:25 PM	30.17	65	66	65	86	61	62	2	W	0.2	3	W	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
11:30 PM	30.17	65	65	64	88	61	62	2	W	0.2	3	W	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
11:35 PM	30.17	64	64	64	88	61	62	2	WSW	0.2	4	SW	64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0
11:40 PM	30.17	65	65	64	87	61	62	0		0	2	WSW	65	66	66	64	0	0	0	0	0	0	0	0	0	0.001	0
11:45 PM	30.18	65	65	64	87	61	62	1	WSW	0.1	2	WSW	65	66	66	63	0	0	0	0	0	0	0	0	0	0.001	0
11:50 PM	30.17	64	65	64	88	61	62	1	WSW	0.1	2	WSW	64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0
11:55 PM	30.17	64	64	64	88	60	62	0		0	1	WSW	64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
8/5/2021 12:00 AM	30.17	64	64	64	89	61	62	2	WSW	0.2	3	WSW	64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
12:05 AM	30.16	64	64	64	89	61	62	0		0	2	WSW	64	65	65	63	0	0	0	0	0	0	0	0	0	0.004	0
12:10 AM	30.17	64	64	64	88	60	61	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.004	0
12:15 AM	30.16	64	64	64	88	60	62	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
12:20 AM	30.16	64	64	64	89	61	62	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
12:25 AM	30.17	64	64	64	88	61	62	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0
12:30 AM	30.16	64	65	64	88	61	62	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0
12:35 AM	30.16	64	65	64	89	61	62	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0
12:40 AM	30.17	64	64	64	88	61	62	0		0	0		64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
12:45 AM	30.16	63	64	63	89	60	61	0		0	0		63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
12:50 AM	30.17	62	63	62	91	60	61	0		0	0		62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
12:55 AM	30.17	62	62	62	92	60	61	0		0	0		62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
1:00 AM	30.17	63	63	62	92	60	61	0		0	0		63	63	63	62	0	0	0	0	0	0	0	0	0	0.008	0
1:05 AM	30.16	63	63	63	91	60	61	1	NNE	0.1	5	NE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.008	0
1:10 AM	30.16	63	63	63	91	60	61	3	SSE	0.2	6	SSE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.007	0
1:15 AM	30.16	63	63	63	92	61	61	2	SSE	0.2	4	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.007	0
1:20 AM	30.16	62	63	62	92	60	61	3	SSE	0.2	4	SSE	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
1:25 AM	30.16	62	62	62	92	60	61	3	SSE	0.2	4	SSE	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
1:30 AM	30.16	62	62	62	92	60	61	1	SSE	0.1	3	SSE	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
1:35 AM	30.15	62	62	62	92	60	61	1	SSE	0.1	3	SSE	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
1:40 AM	30.15	62	62	62	92	60	61	2	S	0.2	3	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
1:45 AM	30.15	62	62	62	91	60	60	2	S	0.2	3	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
1:50 AM	30.16	62	62	62	92	59	60	0		0	1	S	62	62	62	61	0	0	0	0	0	0	0	0	0	0.011	0
1:55 AM	30.16	62	62	62	93	60	60	1	S	0.1	1	S	62	62	62	61	0	0	0	0	0	0	0	0	0	0.011	0
2:00 AM	30.16	62	62	62	92	60	60	0		0	1	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.011	0
2:05 AM	30.15	62	62	62	92	59	60	0		0	1	S	62	62	62	61	0	0	0	0	0	0	0	0	0	0.011	0
2:10 AM	30.16	62	62	62	92	60	60	0		0	0		62	63	63	61	0	0	0	0	0	0	0	0	0	0.011	0
2:15 AM	30.16	62	62	62	92	60	61	0		0	0		62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
2:20 AM	30.16	62	62	62	92	60	61	1	S	0.1	1	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
2:25 AM	30.16	62	62	62	92	60	61	0		0	1	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
2:30 AM	30.15	62	62	62	92	60	60	2	S	0.2	3	S	62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
2:35 AM	30.15	62	62	62	92	59	60	2	SSE	0.2	4	SSE	62	62	62	60	0	0	0	0	0	0	0	0	0	0.011	0
2:40 AM	30.15	61	62	61	93	59	60	1	SSE	0.1	4	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.012	0
2:45 AM	30.15	61	61	61	93	59	60	0		0	1	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
2:50 AM	30.15	61	61	61	93	59	60	0		0	1	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
2:55 AM	30.15	61	61	61	93	59	60	0		0	1	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0

3:00 AM	30.15	61	61	61	93	59	60	1	SSE	0.1	2	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
3:05 AM	30.15	61	61	61	93	59	60	2	S	0.2	4	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.013	0
3:10 AM	30.15	61	61	61	93	59	60	1	S	0.1	2	S	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:15 AM	30.15	61	61	61	93	59	60	1	SSE	0.1	3	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:20 AM	30.15	61	61	61	93	59	60	1	SSE	0.1	2	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:25 AM	30.15	61	61	61	93	59	60	1	SSE	0.1	2	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:30 AM	30.15	61	61	61	93	59	60	1	SSE	0.1	2	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:35 AM	30.15	61	61	61	94	59	60	1	SSE	0.1	3	SSE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:40 AM	30.15	61	61	61	93	59	60	2	SE	0.2	4	SE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:45 AM	30.15	61	61	61	93	59	60	2	SE	0.2	3	SE	61	62	62	60	0	0	0	0	0	0	0	0	0	0.014	0
3:50 AM	30.15	61	61	61	93	59	60	2	SE	0.2	4	SE	61	61	61	60	0	0	0	0	0	0	0	0	0	0.014	0
3:55 AM	30.15	61	61	61	93	59	59	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:00 AM	30.15	61	61	60	93	59	59	1	SE	0.1	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:05 AM	30.14	60	61	60	94	59	59	1	SE	0.1	3	SE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
4:10 AM	30.15	61	61	60	94	59	59	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:15 AM	30.15	61	61	61	94	59	60	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:20 AM	30.14	61	61	61	94	59	60	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:25 AM	30.14	61	61	61	94	59	60	1	SE	0.1	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:30 AM	30.14	61	61	61	94	59	60	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:35 AM	30.14	61	61	61	94	59	59	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:40 AM	30.14	61	61	61	93	59	59	1	SE	0.1	2	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:45 AM	30.14	61	61	61	93	59	59	2	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:50 AM	30.15	61	61	61	93	59	59	3	SE	0.2	3	SE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
4:55 AM	30.14	61	61	60	93	59	59	3	S	0.2	5	S	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
5:00 AM	30.14	60	61	60	93	58	59	2	S	0.2	4	SSE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
5:05 AM	30.14	61	61	61	93	59	59	1	SSE	0.1	3	SSE	61	61	61	59	0	0	0	0	0	0	0	0	0	0.015	0
5:10 AM	30.14	60	61	60	93	58	59	1	SSE	0.1	3	SSE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
5:15 AM	30.14	60	60	60	93	58	59	1	SSE	0.1	2	SSE	60	61	61	59	0	0	0	0	0	0	0	0	0	0.016	0
5:20 AM	30.14	60	60	60	93	58	59	1	SSE	0.1	2	SSE	60	61	61	58	0	0	0	0	0	0	0	0	0	0.017	0
5:25 AM	30.14	60	60	60	93	58	59	1	SSE	0.1	4	SSE	60	61	61	58	0	0	0	0	0	0	0	0	0	0.017	0
5:30 AM	30.15	60	60	60	93	58	59	2	SSE	0.2	4	SSE	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:35 AM	30.14	60	60	60	93	58	59	2	SSE	0.2	5	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:40 AM	30.14	60	60	60	93	58	59	3	S	0.2	5	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:45 AM	30.14	60	60	60	93	58	59	3	S	0.2	4	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:50 AM	30.14	60	60	60	93	58	59	2	S	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
5:55 AM	30.15	60	60	60	93	58	59	2	SSE	0.2	3	S	60	60	60	58	0	0	0	0	0	0	0	0	0	0.017	0
6:00 AM	30.15	60	60	60	93	58	59	2	SSE	0.2	4	SE	60	61	61	58	0	0	0	0	0	0	0	0	0	0.017	0
6:05 AM	30.15	60	60	60	93	58	59	2	SSE	0.2	4	SSE	60	60	60	58	0	0	1	0.01	5	0	0	0	0	0.017	0
6:10 AM	30.15	60	60	60	93	58	59	2	SSE	0.2	5	SSE	60	60	60	58	0	0	6	0.04	7	0	0	0	0	0.017	0
6:15 AM	30.15	60	60	60	93	58	59	2	SSE	0.2	5	S	60	60	60	58	0	0	8	0.06	9	0	0	0	0	0.018	0
6:20 AM	30.15	60	60	60	93	58	58	2	SSE	0.2	4	SSE	60	60	60	58	0	0	12	0.09	12	0	0	0	0	0.018	0
6:25 AM	30.15	60	60	60	93	58	58	3	SE	0.2	4	SSE	60	60	60	58	0	0	15	0.11	16	0	0	0	0	0.018	0
6:30 AM	30.16	60	60	60	93	58	58	3	SE	0.2	7	SE	60	60	60	58	0	0	18	0.13	19	0	0	0	0	0.018	0
6:35 AM	30.16	60	60	60	93	58	58	4	SE	0.3	7	SE	60	60	60	58	0	0	21	0.15	23	0	0	0	0	0.019	0
6:40 AM	30.16	60	60	60	93	57	58	4	SE	0.3	5	SE	60	60	60	58	0	0	25	0.18	26	0	0	0	0	0.019	0
6:45 AM	30.16	60	60	59	92	57	58	3	SE	0.2	5	SE	60	60	60	59	0	0	43	0.31	51	0	0	0	0	0.019	0
6:50 AM	30.16	59	59	59	92	57	58	3	SE	0.2	5	SE	59	60	60	58	0	0	56	0.4	60	0	0	0	0	0.02	0
6:55 AM	30.17	59	59	59	92	57	58	3	SE	0.2	5	SE	59	60	60	59	0	0	66	0.47	70	0	0	0	0	0.02	0
7:00 AM	30.17	60	60	59	92	57	58	2	SE	0.2	4	SE	60	60	60	59	0	0	77	0.55	81	0	0	0	0	0.019	0
7:05 AM	30.17	60	60	60	92	57	58	3	SE	0.2	5	SE	60	60	60	60	0	0	90	0.65	97	0	0	0	0	0.019	0
7:10 AM	30.17	60	60	60	92	58	58	3	SE	0.2	4	SE	60	60	60	62	0	0	102	0.73	105	0	0	0	0	0.018	0
7:15 AM	30.17	60	60	60	92	58	59	3	SE	0.2	5	SE	60	61	61	64	0	0	109	0.78	111	0	0	0	0	0.017	0
7:20 AM	30.17	60	60	60	92	58	59	4	SE	0.3	5	SE	60	61	61	61	0	0	113	0.81	114	0	0	0	0	0.016	0
7:25 AM	30.18	61	61	60	92	58	59	4	SE	0.3	7	ESE	61	61	61	61	0	0	120	0.86	125	0	0	0	0	0.015	0
7:30 AM	30.17	61	61	61	92	59	59	4	SE	0.3	7	SE	61	61	61	63	0	0	137	0.98	146	0	0	0	0	0.014	0
7:35 AM	30.17	61	61	61	91	58	59	4	SE	0.3	8	SE	61	62	62	63	0	0	156	1.12	163	0	0	0	0	0.014	0
7:40 AM	30.17	61	61	61	91	59	60	4	SE	0.3	7	SE	61	62	62	64	0	0	173	1.24	178	0	0	0	1	0.013	0

7:45 AM	30.18	62	62	62	91	59	60	3	SE	0.2	5	SSE	62	62	62	65	0	0	182	1.3	185	0	1	0	1	0.011	0
7:50 AM	30.18	62	62	62	90	59	60	2	SSE	0.2	4	SSE	62	62	62	65	0	0	190	1.36	193	0	1	0	1	0.011	0
7:55 AM	30.18	62	62	62	90	59	60	2	SSE	0.2	4	SSE	62	63	63	65	0	0	197	1.41	200	0	1	0	1	0.01	0
8:00 AM	30.18	63	63	62	90	60	61	2	SSW	0.2	4	SSE	63	63	63	67	0	0	203	1.46	204	0	1	0	1	0.008	0
8:05 AM	30.18	63	63	63	89	60	61	2	S	0.2	4	SW	63	64	64	67	0	0	202	1.45	204	0	1	0	1	0.007	0
8:10 AM	30.18	63	63	63	89	60	61	3	S	0.2	7	S	63	64	64	67	0	0	194	1.39	199	0	1	0	1	0.006	0
8:15 AM	30.18	63	63	63	90	60	61	3	SSW	0.2	5	SSE	63	64	64	66	0	0	192	1.38	207	0	1	0	1	0.006	0
8:20 AM	30.18	64	64	63	89	60	61	3	SSE	0.2	5	S	64	64	64	68	0	0	230	1.65	243	0	1	0	1	0.005	0
8:25 AM	30.18	64	64	64	88	61	62	3	SSE	0.2	5	S	64	65	65	69	0	0	236	1.69	243	0	1	0	1	0.003	0
8:30 AM	30.18	65	65	64	87	61	62	3	SE	0.2	6	S	65	66	66	70	0	0	235	1.69	243	0	1	0	1	0	0
8:35 AM	30.18	65	66	65	85	61	62	4	SW	0.3	6	SW	65	66	66	70	0	0	257	1.84	264	0	1	0.1	1	0	0.001
8:40 AM	30.18	65	65	65	85	61	62	5	S	0.4	6	S	65	66	66	70	0	0	265	1.9	267	0	2	0.1	2	0	0.001
8:45 AM	30.18	65	65	65	85	61	62	3	SSE	0.2	5	S	65	66	66	70	0	0	273	1.96	279	0	2	0.1	2	0	0.001
8:50 AM	30.18	66	66	65	85	61	63	3	SE	0.2	6	S	66	67	67	71	0	0	292	2.09	301	0	2	0.1	2	0	0.002
8:55 AM	30.18	66	66	66	83	61	63	3	S	0.2	5	S	66	67	67	72	0	0	318	2.28	330	0	2	0.1	2	0	0.004
9:00 AM	30.18	66	66	66	84	61	63	3	SE	0.2	7	SE	66	67	67	74	0	0	360	2.58	381	0.01	2	0.1	2	0	0.004
9:05 AM	30.18	67	67	66	82	61	63	2	SE	0.2	4	SE	67	68	68	75	0	0	402	2.88	415	0	2	0.1	2	0	0.006
9:10 AM	30.18	67	68	67	83	62	63	3	SW	0.2	5	SW	67	68	68	76	0	0	431	3.09	439	0	2	0.1	2	0	0.007
9:15 AM	30.18	68	68	67	81	62	63	4	SSW	0.3	6	S	68	69	69	79	0	0	448	3.21	454	0	2	0.1	2	0	0.009
9:20 AM	30.18	68	68	67	80	61	63	2	S	0.2	4	SSW	68	69	69	80	0	0	460	3.3	464	0	2	0.1	2	0	0.009
9:25 AM	30.18	69	70	68	79	62	64	2	SW	0.2	4	SW	69	70	70	81	0	0	474	3.4	480	0	2	0.1	2	0	0.014
9:30 AM	30.18	69	70	69	79	62	64	2	S	0.2	4	SW	69	70	70	81	0	0	488	3.5	494	0	3	0.1	3	0	0.015
9:35 AM	30.17	69	70	69	78	62	64	2	S	0.2	4	S	69	70	70	81	0	0	499	3.58	504	0	3	0.1	3	0	0.015
9:40 AM	30.18	70	70	70	78	63	65	1	SSE	0.1	3	SSE	70	71	71	82	0	0	511	3.66	515	0	3	0.1	3	0	0.017
9:45 AM	30.18	70	71	70	79	63	65	1	SSE	0.1	2	SSE	70	71	71	83	0	0	523	3.75	527	0	3	0.1	3	0	0.017
9:50 AM	30.18	72	72	71	75	63	66	1	SSW	0.1	3	SSW	72	73	73	83	0	0	536	3.84	541	0	3	0.1	3	0	0.023
9:55 AM	30.18	72	72	72	74	63	65	1	WSW	0.1	3	WSW	72	73	73	84	0	0	546	3.91	550	0	3	0.1	3	0	0.024
10:00 AM	30.18	72	73	72	73	63	66	1	W	0.1	3	W	72	73	73	82	0	0	533	3.82	563	0.01	3	0.1	3	0	0.025
10:05 AM	30.17	72	72	71	76	64	66	2	SE	0.2	3	SE	72	73	73	84	0	0	568	4.07	573	0	3	0.1	4	0	0.023
10:10 AM	30.18	72	73	71	75	64	66	1	SE	0.1	2	SE	72	73	73	86	0	0	581	4.17	585	0	4	0.1	4	0	0.025
10:15 AM	30.18	75	76	73	69	64	67	2	WNW	0.2	4	WNW	75	76	76	89	0	0	591	4.24	594	0	4	0.1	4	0	0.035
10:20 AM	30.18	75	76	75	67	64	67	3	NNW	0.2	5	WSW	75	76	76	88	0	0	603	4.32	608	0	4	0.1	4	0	0.036
10:25 AM	30.18	76	77	74	67	64	67	2	WNW	0.2	5	WNW	76	77	77	90	0	0	614	4.4	617	0	4	0.1	4	0	0.036
10:30 AM	30.19	77	78	76	66	65	68	1	SW	0.1	3	W	77	78	78	89	0	0	629	4.51	633	0	4	0.1	4	0	0.041
10:35 AM	30.19	74	75	74	70	64	67	1	SE	0.1	4	WSW	74	75	75	89	0	0	638	4.57	642	0	4	0.1	4	0	0.032
10:40 AM	30.18	75	75	74	70	64	67	2	SSW	0.2	4	WSW	75	76	76	89	0	0	649	4.65	652	0	4	0.2	4	0	0.034
10:45 AM	30.19	75	75	74	70	64	67	3	SSW	0.2	5	S	75	76	76	88	0	0	657	4.71	663	0	4	0.2	4	0	0.033
10:50 AM	30.19	74	74	74	68	63	66	2	SSE	0.2	3	SSE	74	75	75	88	0	0	668	4.79	670	0	5	0.2	5	0	0.032
10:55 AM	30.19	74	75	74	65	62	65	2	SE	0.2	4	S	74	75	75	88	0	0	674	4.83	682	0	5	0.2	5	0	0.033
11:00 AM	30.18	75	75	75	67	63	66	2	SE	0.2	4	S	75	76	76	89	0	0	683	4.9	686	0.02	5	0.2	5	0	0.034
11:05 AM	30.18	75	75	75	67	63	66	2	SSE	0.2	4	SSE	75	76	76	89	0	0	691	4.95	693	0	5	0.2	5	0	0.035
11:10 AM	30.19	75	76	75	66	63	66	2	SE	0.2	3	SE	75	76	76	89	0	0	701	5.03	705	0	5	0.2	5	0	0.036
11:15 AM	30.19	76	76	76	65	64	67	2	SE	0.2	4	SE	76	77	77	90	0	0	707	5.07	712	0	5	0.2	5	0	0.039
11:20 AM	30.19	76	76	76	65	63	67	2	SE	0.2	4	SE	76	77	77	90	0	0	717	5.14	721	0	5	0.2	5	0	0.038
11:25 AM	30.19	76	77	76	65	64	67	2	ESE	0.2	3	SE	76	77	77	91	0	0	727	5.21	729	0	5	0.2	5	0	0.04
11:30 AM	30.19	77	77	77	64	64	67	2	SE	0.2	4	SE	77	78	78	91	0	0	734	5.26	737	0	6	0.2	6	0	0.041
11:35 AM	30.2	77	77	76	65	64	67	3	S	0.2	4	SSW	77	78	78	90	0	0	740	5.31	745	0	6	0.2	6	0	0.041
11:40 AM	30.19	77	77	77	64	64	67	3	SSW	0.2	5	S	77	78	78	90	0	0	743	5.33	745	0	6	0.2	6	0	0.041
11:45 AM	30.18	78	78	77	62	63	67	2	SSE	0.2	4	SSE	78	78	78	91	0	0	747	5.36	751	0	6	0.2	6	0	0.043
11:50 AM	30.18	78	78	77	65	65	68	2	SSE	0.2	5	SSE	78	79	79	91	0	0	753	5.4	756	0	6	0.2	6	0	0.044
11:55 AM	30.18	79	80	78	62	64	68	2	SE	0.2	4	SE	79	80	80	93	0	0	757	5.43	759	0	6	0.2	6	0	0.047
12:00 PM	30.18	80	80	79	62	65	69	4	W	0.3	12	WSW	80	81	81	93	0	0	754	5.41	756	0.02	6	0.2	6	0	0.051
12:05 PM	30.18	82	83	80	56	64	68	3	WSW	0.2	9	W	82	83	83	96	0	0	764	5.48	766	0	6	0.2	6	0	0.058
12:10 PM	30.18	82	84	81	52	63	67	2	NNW	0.2	8	NW	82	83	83	97	0	0	767	5.5	773	0	6	0.2	6	0	0.06
12:15 PM	30.18	83	84	83	53	64	68	4	NNW	0.3	8	WNW	83	85	85	97	0	0	775	5.56	780	0	6	0.2	6	0	0.063
12:20 PM	30.18	84	85	83	49	63	67	2	N	0.2	5	NNW	84	85	85	99	0	0	777	5.57	782	0	6	0.2	6	0	0.066
12:25 PM	30.18	84	85	83	47	61	66	6	NW	0.5	11	NW	84	84	84	96	0	0	795	5.7	798	0	6	0.2	6	0	0.065

12:30 PM	30.17	83	83	82	50	62	67	5	WNW	0.4	11	W	83	84	84	96	0	0	798	5.72	800	0	6	0.2	6	0	0.062
12:35 PM	30.17	84	84	83	47	61	66	5	W	0.4	10	W	84	84	84	98	0	0	799	5.73	805	0	6	0.2	6	0	0.065
12:40 PM	30.17	85	85	84	46	62	67	2	W	0.2	7	WSW	85	85	85	98	0	0	805	5.77	809	0	7	0.2	7	0	0.068
12:45 PM	30.17	85	86	84	46	62	67	2	WNW	0.2	7	W	85	86	86	97	0	0	803	5.76	807	0	6	0.2	7	0	0.071
12:50 PM	30.17	84	84	83	48	62	67	3	NNE	0.2	8	N	84	84	84	96	0	0	802	5.75	805	0	7	0.2	7	0	0.065
12:55 PM	30.17	82	83	81	49	61	66	5	NNW	0.4	10	NNW	82	82	82	94	0	0	801	5.74	805	0	7	0.2	7	0	0.058
1:00 PM	30.17	82	83	81	47	60	65	3	SSW	0.2	5	NNE	82	82	82	94	0	0	807	5.79	812	0.03	7	0.2	7	0	0.059
1:05 PM	30.16	84	85	81	46	61	66	3	N	0.2	9	NW	84	84	84	98	0	0	807	5.79	810	0	7	0.2	7	0	0.065
1:10 PM	30.16	85	86	84	43	60	65	6	NW	0.5	10	NW	85	84	84	98	0	0	811	5.82	812	0	7	0.2	7	0	0.068
1:15 PM	30.17	86	86	84	43	61	66	4	NE	0.3	8	N	86	86	86	97	0	0	804	5.76	809	0	6	0.2	6	0	0.072
1:20 PM	30.16	83	84	82	45	60	65	5	NNE	0.4	9	NE	83	83	83	97	0	0	812	5.82	814	0	6	0.2	7	0	0.063
1:25 PM	30.16	83	84	82	47	60	65	4	NE	0.3	8	NNE	83	83	83	95	0	0	815	5.84	816	0	7	0.2	7	0	0.061
1:30 PM	30.17	84	86	82	47	62	66	2	ENE	0.2	4	ESE	84	85	85	96	0	0	815	5.84	817	0	7	0.2	7	0	0.066
1:35 PM	30.16	83	84	82	49	62	67	4	NNW	0.3	8	N	83	84	84	97	0	0	821	5.89	830	0	6	0.2	7	0	0.062
1:40 PM	30.16	84	85	83	48	62	67	3	NNW	0.2	6	ENE	84	85	85	98	0	0	839	6.02	853	0	7	0.2	7	0	0.066
1:45 PM	30.16	86	87	84	46	62	67	1	NE	0.1	3	SSW	86	86	86	101	0	0	874	6.27	886	0	6	0.2	6	0	0.072
1:50 PM	30.16	86	87	84	46	63	68	4	N	0.3	7	NNE	86	87	87	97	0	0	891	6.39	896	0	6	0.2	6	0	0.073
1:55 PM	30.16	83	84	82	48	62	66	4	N	0.3	9	NNW	83	84	84	86	0	0	158	1.13	163	0	3	0.1	4	0	0.064
2:00 PM	30.16	83	84	82	48	61	66	1	NE	0.1	4	NNW	83	83	83	85	0	0	132	0.95	142	0.02	3	0.1	3	0	0.062
2:05 PM	30.16	81	82	80	52	62	66	2	E	0.2	4	E	81	81	81	82	0	0	302	2.17	809	0	4	0.1	6	0	0.055
2:10 PM	30.15	81	81	80	51	61	66	4	E	0.3	8	E	81	81	81	91	0	0	809	5.8	810	0	6	0.2	6	0	0.055
2:15 PM	30.15	81	81	81	52	62	66	4	E	0.3	8	ESE	81	81	81	93	0	0	812	5.82	814	0	6	0.2	6	0	0.055
2:20 PM	30.16	81	81	81	51	61	66	3	ESE	0.2	7	ESE	81	82	82	94	0	0	809	5.8	812	0	6	0.2	6	0	0.056
2:25 PM	30.16	83	84	81	46	60	65	2	SW	0.2	4	SW	83	83	83	97	0	0	728	5.22	828	0	5	0.2	6	0	0.062
2:30 PM	30.15	84	86	84	44	60	65	2	SW	0.2	7	WSW	84	85	85	99	0	0	807	5.79	810	0	6	0.2	6	0	0.068
2:35 PM	30.15	83	86	82	49	62	67	4	SW	0.3	7	SW	83	84	84	94	0	0	807	5.79	807	0	6	0.2	6	0	0.063
2:40 PM	30.15	84	87	82	44	60	65	3	W	0.2	6	W	84	84	84	100	0	0	800	5.74	805	0	6	0.2	6	0	0.067
2:45 PM	30.14	87	88	87	44	63	68	4	WSW	0.3	9	WSW	87	88	88	100	0	0	804	5.76	821	0	6	0.2	6	0	0.078
2:50 PM	30.15	85	87	83	46	62	67	5	N	0.4	9	NNE	85	85	85	95	0	0	834	5.98	840	0	6	0.2	6	0	0.069
2:55 PM	30.15	84	85	83	45	60	65	3	N	0.2	5	N	84	84	84	95	0	0	845	6.06	856	0	5	0.2	6	0	0.066
3:00 PM	30.15	84	86	83	45	61	66	2	NNE	0.2	7	W	84	85	85	98	0	0	814	5.84	830	0.02	5	0.2	5	0	0.067
3:05 PM	30.15	87	88	87	41	61	66	3	NW	0.2	8	WNW	87	87	87	100	0	0	753	5.4	765	0	5	0.2	5	0	0.077
3:10 PM	30.15	85	88	83	46	62	67	5	SW	0.4	9	SW	85	86	86	96	0	0	744	5.33	752	0	5	0.2	5	0	0.07
3:15 PM	30.14	82	83	82	47	60	65	2	ESE	0.2	5	SE	82	83	83	96	0	0	729	5.23	731	0	5	0.2	5	0	0.06
3:20 PM	30.14	87	88	84	42	61	66	3	WSW	0.2	9	WSW	87	87	87	100	0	0	736	5.28	738	0	5	0.2	5	0	0.075
3:25 PM	30.14	88	88	87	41	61	67	3	W	0.2	11	W	88	88	88	100	0	0	736	5.28	737	0	5	0.2	5	0	0.079
3:30 PM	30.14	87	87	86	41	60	66	4	WNW	0.3	12	WNW	87	87	87	99	0	0	723	5.18	728	0	5	0.2	5	0	0.076
3:35 PM	30.14	86	87	85	44	62	67	2	S	0.2	6	W	86	87	87	98	0	0	722	5.18	726	0	5	0.2	5	0	0.074
3:40 PM	30.14	86	86	85	43	61	66	3	WSW	0.2	7	W	86	86	86	99	0	0	696	4.99	714	0	4	0.2	4	0	0.072
3:45 PM	30.13	87	88	86	42	61	67	3	SSW	0.2	8	S	87	88	88	98	0	0	671	4.81	675	0	4	0.2	4	0	0.078
3:50 PM	30.13	84	85	83	45	60	65	3	SSE	0.2	7	SSW	84	84	84	98	0	0	657	4.71	663	0	4	0.1	4	0	0.065
3:55 PM	30.14	87	88	85	40	60	65	3	WSW	0.2	8	W	87	87	87	99	0	0	640	4.59	647	0	4	0.1	4	0	0.076
4:00 PM	30.13	88	88	87	39	60	65	3	W	0.2	8	W	88	88	88	100	0	0	637	4.57	640	0.02	4	0.1	4	0	0.08
4:05 PM	30.13	88	88	88	40	61	66	3	W	0.2	6	W	88	88	88	100	0	0	629	4.51	638	0	4	0.1	4	0	0.08
4:10 PM	30.13	88	88	88	38	59	65	4	W	0.3	9	WNW	88	88	88	99	0	0	614	4.4	622	0	4	0.1	4	0	0.081
4:15 PM	30.14	86	88	84	43	60	66	5	NNW	0.4	8	NNW	86	86	86	97	0	0	602	4.32	606	0	4	0.1	4	0	0.071
4:20 PM	30.14	86	87	85	39	58	64	4	N	0.3	7	WNW	86	85	85	98	0	0	585	4.19	594	0	3	0.1	4	0	0.073
4:25 PM	30.14	87	88	86	39	59	65	2	NE	0.2	4	NE	87	87	87	98	0	0	568	4.07	575	0	3	0.1	3	0	0.077
4:30 PM	30.13	87	88	87	41	61	66	3	WSW	0.2	10	W	87	88	88	98	0	0	558	4	561	0	3	0.1	3	0	0.078
4:35 PM	30.13	84	87	83	46	61	66	5	SSW	0.4	8	SW	84	85	85	94	0	0	551	3.95	555	0	3	0.1	3	0	0.067
4:40 PM	30.13	82	83	82	46	59	64	3	S	0.2	5	SSW	82	82	82	94	0	0	536	3.84	543	0	3	0.1	3	0	0.06
4:45 PM	30.13	84	85	82	44	59	65	5	WNW	0.4	11	NW	84	83	83	97	0	0	522	3.74	527	0	3	0.1	3	0	0.065
4:50 PM	30.13	85	85	84	42	59	64	4	NNW	0.3	7	WNW	85	84	84	96	0	0	511	3.66	517	0	3	0.1	3	0	0.068
4:55 PM	30.12	84	85	84	41	58	64	4	SW	0.3	9	WSW	84	84	84	96	0	0	499	3.58	503	0	3	0.1	3	0	0.067
5:00 PM	30.12	84	84	83	45	60	66	4	SSW	0.3	9	WSW	84	84	84	96	0	0	482	3.46	489	0.02	2	0.1	2	0	0.066
5:05 PM	30.12	86	86	84	43	60	66	4	WSW	0.3	10	W	86	86	86	98	0	0	464	3.33	471	0	2	0.1	2	0	0.071
5:10 PM	30.12	87	87	86	41	60	66	3	WNW	0.2	7	WNW	87	87	87	98	0	0	450	3.23	454	0	2	0.1	2	0	0.076

5:15 PM	30.12	87	87	87	41	61	66	4	W	0.3	10	WSW	87	87	87	99	0	0	438	3.14	445	0	2	0.1	2	0	0.077
5:20 PM	30.13	87	87	87	41	61	66	3	W	0.2	8	W	87	87	87	99	0	0	424	3.04	431	0	2	0.1	2	0	0.077
5:25 PM	30.13	85	87	83	44	61	66	3	NNE	0.2	7	NNE	85	86	86	94	0	0	409	2.93	415	0	2	0.1	2	0	0.07
5:30 PM	30.12	85	86	83	44	60	66	2	NNE	0.2	5	NW	85	85	85	96	0	0	392	2.81	399	0	2	0.1	2	0	0.069
5:35 PM	30.12	87	88	86	41	60	66	2	NNW	0.2	4	WSW	87	87	87	92	0	0	379	2.72	383	0	2	0.1	2	0	0.076
5:40 PM	30.12	85	86	84	43	60	65	2	NNW	0.2	5	WNW	85	85	85	96	0	0	370	2.65	374	0	2	0.1	2	0	0.069
5:45 PM	30.12	85	85	83	46	62	67	3	SW	0.2	6	WSW	85	85	85	90	0	0	354	2.54	359	0	2	0.1	2	0	0.068
5:50 PM	30.13	83	83	82	46	60	65	3	SSW	0.2	6	SSW	83	83	83	93	0	0	339	2.43	346	0	1	0.1	1	0	0.061
5:55 PM	30.12	83	83	83	47	61	66	3	SW	0.2	6	SW	83	83	83	90	0	0	323	2.32	329	0	1	0	1	0	0.062
6:00 PM	30.12	83	84	83	48	62	66	2	S	0.2	5	WNW	83	84	84	94	0	0	310	2.22	316	0.01	1	0	1	0	0.064
6:05 PM	30.12	85	86	84	44	61	66	3	NW	0.2	7	WNW	85	85	85	90	0	0	298	2.14	302	0	1	0	1	0	0.069
6:10 PM	30.12	84	85	84	46	61	66	4	NNW	0.3	6	NW	84	85	85	94	0	0	285	2.04	290	0	1	0	1	0	0.067
6:15 PM	30.11	84	84	83	46	61	66	1	N	0.1	3	SW	84	84	84	89	0	0	269	1.93	278	0	1	0	1	0	0.065
6:20 PM	30.12	84	84	84	46	61	66	2	SW	0.2	4	SSW	84	84	84	94	0	0	253	1.81	257	0	1	0	1	0	0.066
6:25 PM	30.12	85	85	84	46	62	67	3	NW	0.2	7	NW	85	85	85	89	0	0	240	1.72	246	0	1	0	1	0	0.068
6:30 PM	30.1	85	86	85	45	62	67	4	NNW	0.3	6	W	85	86	86	94	0	0	227	1.63	232	0	1	0	1	0	0.07
6:35 PM	30.12	85	85	85	47	62	67	2	WNW	0.2	7	WNW	85	86	86	89	0	0	212	1.52	220	0	1	0	1	0	0.069
6:40 PM	30.11	85	85	84	46	62	67	2	N	0.2	4	N	85	86	86	93	0	0	196	1.41	202	0	1	0	1	0	0.07
6:45 PM	30.11	83	84	82	49	62	67	4	NNE	0.3	7	N	83	84	84	85	0	0	183	1.31	188	0	1	0	1	0	0.063
6:50 PM	30.11	82	82	82	49	61	66	4	NNW	0.3	8	NNW	82	83	83	89	0	0	169	1.21	174	0	1	0	1	0	0.06
6:55 PM	30.11	82	82	82	50	61	66	5	N	0.4	10	N	82	82	82	83	0	0	155	1.11	160	0	0	0	0	0	0.058
7:00 PM	30.12	81	81	81	50	61	65	5	N	0.4	8	NNE	81	82	82	87	0	0	141	1.01	148	0.01	0	0	0	0	0.056
7:05 PM	30.12	81	81	81	57	64	68	6	NNE	0.5	12	NNE	81	82	82	83	0	0	125	0.9	130	0	0	0	0	0	0.056
7:10 PM	30.12	80	81	80	59	65	68	8	NNE	0.7	12	NE	80	82	81	84	0	0	112	0.8	118	0	0	0	0	0	0.054
7:15 PM	30.12	80	80	79	60	65	68	8	N	0.7	13	N	79	81	80	79	0	0	100	0.72	105	0	0	0	0	0	0.051
7:20 PM	30.11	79	79	79	61	65	68	8	N	0.7	11	N	78	80	79	81	0	0	88	0.63	93	0	0	0	0	0	0.049
7:25 PM	30.12	79	79	79	62	65	68	6	NNE	0.5	10	N	79	80	80	79	0	0	76	0.54	81	0	0	0	0	0	0.048
7:30 PM	30.12	78	79	78	63	65	68	6	N	0.5	10	NE	78	80	80	79	0	0	65	0.47	69	0	0	0	0	0	0.047
7:35 PM	30.12	78	78	78	63	65	68	5	N	0.4	9	N	78	79	79	79	0	0	54	0.39	58	0	0	0	0	0	0.046
7:40 PM	30.12	78	78	78	64	65	68	5	NE	0.4	8	N	78	79	79	78	0	0	47	0.34	49	0	0	0	0	0	0.045
7:45 PM	30.12	78	78	77	65	65	68	4	NE	0.3	7	NE	78	79	79	78	0	0	38	0.27	42	0	0	0	0	0	0.044
7:50 PM	30.12	77	77	77	66	65	68	4	NE	0.3	6	NE	77	78	78	78	0	0	29	0.21	32	0	0	0	0	0	0.042
7:55 PM	30.12	77	77	77	67	65	68	5	NE	0.4	6	NE	77	78	78	77	0	0	23	0.16	25	0	0	0	0	0	0.041
8:00 PM	30.12	76	77	76	68	65	68	5	NE	0.4	7	NE	76	78	78	77	0	0	20	0.14	21	0	0	0	0	0	0.04
8:05 PM	30.12	76	76	76	69	65	68	5	NE	0.4	8	NNE	76	77	77	76	0	0	16	0.11	18	0	0	0	0	0	0.039
8:10 PM	30.12	76	76	76	68	65	67	4	NE	0.3	7	NE	76	77	77	76	0	0	12	0.09	14	0	0	0	0	0	0.038
8:15 PM	30.12	76	76	76	68	64	67	4	NE	0.3	6	NE	76	77	77	76	0	0	7	0.05	9	0	0	0	0	0	0.038
8:20 PM	30.11	76	76	75	69	65	68	4	NE	0.3	6	NE	76	77	77	75	0	0	5	0.04	5	0	0	0	0	0	0.037
8:25 PM	30.11	75	75	75	70	65	67	3	ENE	0.2	4	NE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.035
8:30 PM	30.12	74	75	74	71	64	67	3	NE	0.2	4	NE	74	76	76	74	0	0	0	0	0	0	0	0	0	0	0.033
8:35 PM	30.12	74	74	74	71	64	67	3	NE	0.2	4	NE	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.032
8:40 PM	30.12	74	74	74	72	64	67	3	NE	0.2	5	NE	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.031
8:45 PM	30.12	74	74	74	71	64	67	3	NE	0.2	4	NE	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.031
8:50 PM	30.12	74	74	74	71	64	67	3	NE	0.2	4	NE	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.031
8:55 PM	30.13	74	74	74	71	64	67	2	NE	0.2	4	NE	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.031
9:00 PM	30.13	74	74	74	72	64	67	2	NE	0.2	4	NE	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.031
9:05 PM	30.13	74	74	74	72	64	67	1	NE	0.1	2	NE	74	75	75	73	0	0	0	0	0	0	0	0	0	0	0.03
9:10 PM	30.13	73	74	73	74	65	67	1	NE	0.1	2	NE	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.029
9:15 PM	30.13	73	73	73	74	64	67	1	NE	0.1	2	NE	73	74	74	72	0	0	0	0	0	0	0	0	0	0	0.028
9:20 PM	30.13	73	73	73	75	65	67	1	NE	0.1	2	NE	73	74	74	72	0	0	0	0	0	0	0	0	0	0	0.027
9:25 PM	30.13	73	73	73	75	65	67	1	SE	0.1	2	NE	73	74	74	73	0	0	0	0	0	0	0	0	0	0	0.028
9:30 PM	30.13	73	74	73	77	65	68	1	SSE	0.1	2	SSE	73	75	75	72	0	0	0	0	0	0	0	0	0	0	0.028
9:35 PM	30.14	72	73	72	79	65	67	0		0	1	SSE	72	74	74	71	0	0	0	0	0	0	0	0	0	0	0.025
9:40 PM	30.14	72	72	72	80	65	67	0		0	1	SSE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.024
9:45 PM	30.14	71	72	71	81	65	67	0		0	1	SSE	71	73	73	70	0	0	0	0	0	0	0	0	0	0	0.022
9:50 PM	30.14	71	71	71	81	65	67	0		0	1	SSE	71	73	73	70	0	0	0	0	0	0	0	0	0	0	0.021
9:55 PM	30.14	71	71	71	81	65	67	0		0	2	SSE	71	73	73	70	0	0	0	0	0	0	0	0	0	0	0.021

10:00 PM	30.14	71	71	71	83	65	67	0		0	1	S	71	72	72	70	0	0	0	0	0	0	0	0	0	0	0.02
10:05 PM	30.14	71	71	70	81	65	67	1	S	0.1	2	S	71	72	72	70	0	0	0	0	0	0	0	0	0	0	0.02
10:10 PM	30.14	70	70	70	83	64	66	1	S	0.1	2	S	70	71	71	69	0	0	0	0	0	0	0	0	0	0	0.017
10:15 PM	30.14	69	70	69	85	65	66	0		0	1	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.015
10:20 PM	30.14	69	69	69	85	64	66	1	S	0.1	2	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
10:25 PM	30.14	69	69	69	86	65	66	1	S	0.1	2	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
10:30 PM	30.14	69	69	69	87	65	66	0		0	1	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
10:35 PM	30.14	69	69	69	87	65	66	1	S	0.1	2	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
10:40 PM	30.14	69	69	69	87	65	66	1	S	0.1	2	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
10:45 PM	30.14	69	69	69	87	65	66	1	S	0.1	2	S	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
10:50 PM	30.14	69	69	69	87	65	66	0		0	1	S	69	71	71	68	0	0	0	0	0	0	0	0	0	0	0.013
10:55 PM	30.14	69	69	68	87	65	66	0		0	0		69	70	70	68	0	0	0	0	0	0	0	0	0	0	0.012
11:00 PM	30.14	68	69	68	87	64	66	0		0	3	S	68	70	70	68	0	0	0	0	0	0	0	0	0	0	0.012
11:05 PM	30.14	68	68	68	87	64	65	2	SW	0.2	3	SW	68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.01
11:10 PM	30.14	68	68	67	88	64	65	2	SW	0.2	3	SW	68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.009
11:15 PM	30.14	67	67	67	88	64	65	1	SW	0.1	2	SW	67	69	69	67	0	0	0	0	0	0	0	0	0	0	0.008
11:20 PM	30.14	67	67	67	88	64	65	1	SW	0.1	2	SW	67	69	69	67	0	0	0	0	0	0	0	0	0	0	0.008
11:25 PM	30.14	68	68	67	88	64	65	1	SW	0.1	3	SW	68	69	69	67	0	0	0	0	0	0	0	0	0	0	0.009
11:30 PM	30.14	67	68	67	88	64	65	1	SW	0.1	3	SW	67	69	69	66	0	0	0	0	0	0	0	0	0	0	0.008
11:35 PM	30.14	67	67	66	89	63	64	1	SW	0.1	2	SW	67	68	68	66	0	0	0	0	0	0	0	0	0	0	0.006
11:40 PM	30.14	66	66	66	90	63	64	2	SW	0.2	3	SW	66	68	68	65	0	0	0	0	0	0	0	0	0	0	0.005
11:45 PM	30.15	66	66	66	91	63	64	3	SW	0.2	4	SW	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
11:50 PM	30.15	66	66	66	91	63	64	1	SW	0.1	3	SW	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
11:55 PM	30.15	66	66	66	91	63	64	0		0	0		66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
8/6/2021 12:00 AM	30.16	66	66	66	91	63	64	1	SW	0.1	2	SW	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
12:05 AM	30.16	66	66	66	90	63	64	0		0	2	SW	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
12:10 AM	30.15	66	67	66	89	63	64	0		0	1	SW	66	68	68	66	0	0	0	0	0	0	0	0	0	0	0.005
12:15 AM	30.16	67	67	67	89	63	64	0		0	1	SW	67	68	68	66	0	0	0	0	0	0	0	0	0	0	0.006
12:20 AM	30.16	67	67	67	89	64	65	1	SW	0.1	2	SW	67	69	69	67	0	0	0	0	0	0	0	0	0	0	0.007
12:25 AM	30.16	67	67	67	90	64	65	1	SW	0.1	2	SW	67	68	68	66	0	0	0	0	0	0	0	0	0	0	0.007
12:30 AM	30.16	66	67	66	90	63	64	1	SW	0.1	2	SW	66	68	68	66	0	0	0	0	0	0	0	0	0	0	0.005
12:35 AM	30.16	66	66	66	89	63	64	2	SW	0.2	3	SW	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
12:40 AM	30.16	66	66	66	89	63	64	1	SSE	0.1	2	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
12:45 AM	30.16	66	66	66	89	63	64	1	SSE	0.1	4	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.004
12:50 AM	30.17	66	66	66	89	63	64	2	SSE	0.2	4	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
12:55 AM	30.16	66	66	66	89	63	64	2	SSE	0.2	3	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.003
1:00 AM	30.16	66	66	66	89	62	63	2	SSE	0.2	5	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.002
1:05 AM	30.16	66	66	66	88	62	63	1	SSE	0.1	3	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.002
1:10 AM	30.16	66	66	66	87	62	63	1	SSE	0.1	3	SSE	66	66	66	65	0	0	0	0	0	0	0	0	0	0	0.002
1:15 AM	30.17	66	66	66	87	62	63	1	SSE	0.1	4	SSE	66	67	67	65	0	0	0	0	0	0	0	0	0	0	0.002
1:20 AM	30.17	66	66	66	87	62	63	2	SSE	0.2	5	S	66	67	67	64	0	0	0	0	0	0	0	0	0	0	0.002
1:25 AM	30.16	65	66	65	86	61	62	2	SSE	0.2	5	SSE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
1:30 AM	30.17	65	65	65	87	61	63	2	SSE	0.2	3	SSE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
1:35 AM	30.16	65	65	65	87	61	62	3	SE	0.2	5	SE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
1:40 AM	30.17	65	65	65	86	61	62	3	SE	0.2	5	SE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
1:45 AM	30.15	65	65	65	86	61	62	3	SE	0.2	4	SE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
1:50 AM	30.14	65	65	65	86	61	62	2	SE	0.2	3	SE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0.001
1:55 AM	30.15	65	65	65	86	61	62	2	SE	0.2	3	SE	65	66	66	64	0	0	0	0	0	0	0	0	0	0	0
2:00 AM	30.16	65	65	65	86	60	62	2	SE	0.2	3	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:05 AM	30.15	65	65	64	86	60	62	3	SE	0.2	7	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:10 AM	30.15	65	65	64	87	61	62	4	SE	0.3	7	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:15 AM	30.15	65	65	64	86	60	62	3	SE	0.2	5	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:20 AM	30.15	65	65	64	86	60	62	3	SE	0.2	4	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:25 AM	30.15	65	65	65	86	60	62	3	SE	0.2	4	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:30 AM	30.15	65	65	64	85	60	61	2	SE	0.2	4	SE	65	65	65	63	0	0	0	0	0	0	0	0	0	0.001	0
2:35 AM	30.15	64	65	64	85	60	61	3	SE	0.2	5	SE	64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0

2:40 AM	30.15	64	64	64	85	60	61	2	SE	0.2	4	SE	64	65	65	63	0	0	0	0	0	0	0	0	0	0.002	0
2:45 AM	30.14	64	64	64	85	59	61	2	SE	0.2	3	SE	64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
2:50 AM	30.15	64	64	64	86	60	61	2	SE	0.2	3	SE	64	65	65	63	0	0	0	0	0	0	0	0	0	0.003	0
2:55 AM	30.15	64	64	64	87	60	61	2	SSE	0.2	5	S	64	65	65	62	0	0	0	0	0	0	0	0	0	0.004	0
3:00 AM	30.16	64	64	64	86	59	61	3	S	0.2	5	S	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:05 AM	30.15	64	64	63	87	60	61	2	SSE	0.2	4	SSE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:10 AM	30.14	64	64	63	88	60	61	2	SSE	0.2	4	SSE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:15 AM	30.15	64	64	64	86	59	61	3	SSE	0.2	4	SSE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:20 AM	30.15	64	64	64	86	59	61	3	SSE	0.2	5	SE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:25 AM	30.15	64	64	64	85	59	61	3	SE	0.2	4	SE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:30 AM	30.14	64	64	63	85	59	60	3	SE	0.2	4	SE	64	64	64	62	0	0	0	0	0	0	0	0	0	0.005	0
3:35 AM	30.14	63	63	63	85	59	60	3	SE	0.2	5	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
3:40 AM	30.14	63	63	63	85	59	60	4	SE	0.3	7	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
3:45 AM	30.14	63	63	63	85	59	60	3	SE	0.2	5	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
3:50 AM	30.14	63	63	63	85	59	60	2	SE	0.2	4	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
3:55 AM	30.14	63	63	63	84	58	60	3	SE	0.2	4	SE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.007	0
4:00 AM	30.14	63	63	63	84	58	60	3	SE	0.2	4	SE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.008	0
4:05 AM	30.14	63	63	63	84	58	60	3	SE	0.2	5	SE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
4:10 AM	30.15	63	64	63	85	59	60	4	SE	0.3	7	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
4:15 AM	30.14	63	64	63	85	59	60	2	SSE	0.2	5	SSE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
4:20 AM	30.14	63	63	63	85	59	60	2	SSE	0.2	5	SSE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.007	0
4:25 AM	30.14	63	63	63	86	59	60	2	SSE	0.2	4	SSE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
4:30 AM	30.14	63	63	63	86	59	60	2	SSE	0.2	5	SSE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.007	0
4:35 AM	30.15	63	63	63	86	58	60	3	SSE	0.2	8	S	63	63	63	61	0	0	0	0	0	0	0	0	0	0.008	0
4:40 AM	30.15	63	63	63	86	59	60	2	SSE	0.2	4	SSE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
4:45 AM	30.14	63	63	63	86	59	60	3	SE	0.2	5	SE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
4:50 AM	30.14	63	63	63	86	59	60	4	SE	0.3	5	SE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.007	0
4:55 AM	30.15	63	63	63	87	59	60	4	SE	0.3	7	SE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.008	0
5:00 AM	30.15	63	63	63	86	59	60	3	SSE	0.2	6	SSE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.008	0
5:05 AM	30.15	63	63	63	87	59	60	4	SSE	0.3	7	SE	63	63	63	61	0	0	0	0	0	0	0	0	0	0.008	0
5:10 AM	30.14	63	63	63	86	59	60	5	SSE	0.4	10	SE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
5:15 AM	30.14	63	63	63	86	59	60	6	SE	0.5	10	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.007	0
5:20 AM	30.14	63	63	63	86	59	60	7	SE	0.6	11	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.006	0
5:25 AM	30.14	63	63	63	86	59	60	5	SE	0.4	10	SE	63	64	64	62	0	0	0	0	0	0	0	0	0	0.007	0
5:30 AM	30.14	63	63	63	86	59	60	4	SE	0.3	7	SE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
5:35 AM	30.14	63	63	63	87	59	60	3	SSE	0.2	6	SSE	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
5:40 AM	30.14	63	63	63	86	59	60	3	SSE	0.2	5	S	63	63	63	62	0	0	0	0	0	0	0	0	0	0.007	0
5:45 AM	30.15	63	63	63	84	58	60	5	SSW	0.4	6	S	63	63	63	61	0	0	0	0	0	0	0	0	0	0.007	0
5:50 AM	30.16	63	63	63	84	58	60	4	SSW	0.3	6	SSW	63	63	63	61	0	0	0	0	0	0	0	0	0	0.007	0
5:55 AM	30.15	63	63	62	85	58	60	4	SSW	0.3	5	SSW	63	63	63	61	0	0	0	0	0	0	0	0	0	0.008	0
6:00 AM	30.16	62	63	62	86	58	60	3	SW	0.2	5	SW	62	63	63	61	0	0	0	0	0	0	0	0	0	0.009	0
6:05 AM	30.16	62	62	62	86	58	59	2	S	0.2	5	SSE	62	63	63	61	0	0	0	0	0	0	0	0	0	0.01	0
6:10 AM	30.16	62	62	62	86	58	59	3	SSE	0.2	6	S	62	63	63	61	0	0	5	0.04	7	0	0	0	0	0.009	0
6:15 AM	30.16	63	63	62	87	59	60	5	S	0.4	10	SSE	63	63	63	62	0	0	8	0.06	9	0	0	0	0	0.008	0
6:20 AM	30.16	63	63	63	86	59	60	6	S	0.5	9	S	63	63	63	62	0	0	11	0.08	12	0	0	0	0	0.007	0
6:25 AM	30.16	63	63	63	86	59	60	6	S	0.5	10	S	63	64	64	62	0	0	14	0.1	16	0	0	0	0	0.006	0
6:30 AM	30.15	63	63	63	87	59	61	5	SSE	0.4	10	S	63	64	64	62	0	0	18	0.13	19	0	0	0	0	0.006	0
6:35 AM	30.16	63	63	63	87	59	61	4	SSE	0.3	7	SSE	63	64	64	62	0	0	20	0.14	21	0	0	0	0	0.006	0
6:40 AM	30.16	63	63	63	88	59	61	4	S	0.3	6	S	63	64	64	62	0	0	24	0.17	25	0	0	0	0	0.007	0
6:45 AM	30.16	63	63	63	88	59	60	3	S	0.2	6	S	63	63	63	62	0	0	33	0.24	40	0	0	0	0	0.007	0
6:50 AM	30.16	63	63	63	88	59	60	2	SSE	0.2	4	S	63	63	63	63	0	0	47	0.34	51	0	0	0	0	0.007	0
6:55 AM	30.16	63	63	63	89	60	61	2	SSE	0.2	5	SE	63	64	64	63	0	0	57	0.41	62	0	0	0	0	0.007	0
7:00 AM	30.17	63	63	63	89	60	61	2	SE	0.2	4	SE	63	64	64	63	0	0	68	0.49	72	0	0	0	0	0.007	0
7:05 AM	30.17	63	63	63	88	59	61	4	SE	0.3	7	SE	63	64	64	63	0	0	79	0.57	84	0	0	0	0	0.007	0
7:10 AM	30.16	63	63	63	89	60	61	4	SE	0.3	7	SE	63	64	64	64	0	0	90	0.65	93	0	0	0	0	0.006	0
7:15 AM	30.18	64	64	63	89	60	61	3	SE	0.2	5	SE	64	64	64	65	0	0	98	0.7	100	0	0	0	0	0.005	0
7:20 AM	30.17	64	64	64	89	61	62	3	SSE	0.2	5	SE	64	65	65	65	0	0	104	0.75	107	0	0	0	0	0.004	0

7:25 AM	30.16	64	64	64	88	60	62	3	SE	0.2	7	SE	64	65	65	66	0	0	114	0.82	120	0	0	0	0	0.003	0
7:30 AM	30.17	64	64	64	86	60	62	3	SSE	0.2	6	SSE	64	65	65	66	0	0	130	0.93	137	0	0	0	0	0.002	0
7:35 AM	30.17	65	65	64	86	60	62	3	SSE	0.2	6	S	65	65	65	67	0	0	151	1.08	160	0	0	0	0	0.001	0
7:40 AM	30.17	65	65	65	86	61	62	3	SSE	0.2	7	SE	65	66	66	67	0	0	167	1.2	171	0	1	0	1	0	0
7:45 AM	30.17	65	65	65	85	61	62	4	SSE	0.3	7	SSE	65	66	66	68	0	0	176	1.26	178	0	1	0	1	0	0.001
7:50 AM	30.17	66	66	65	85	61	62	4	SSE	0.3	9	SSE	66	66	66	69	0	0	183	1.31	186	0	1	0	1	0	0.002
7:55 AM	30.17	66	66	66	84	61	62	5	SSE	0.4	10	S	66	67	67	69	0	0	191	1.37	193	0	1	0	1	0	0.003
8:00 AM	30.17	66	66	66	84	61	63	6	S	0.5	10	S	66	67	67	70	0	0	197	1.41	197	0	1	0	1	0	0.004
8:05 AM	30.17	67	67	66	84	62	63	5	SSE	0.4	9	SE	67	68	68	71	0	0	192	1.38	195	0	1	0	1	0	0.006
8:10 AM	30.17	67	67	67	84	62	63	4	SSE	0.3	7	SE	67	68	68	71	0	0	183	1.31	186	0	1	0	1	0	0.007
8:15 AM	30.17	67	67	67	84	62	64	5	SE	0.4	8	SE	67	68	68	72	0	0	194	1.39	209	0	1	0	1	0	0.008
8:20 AM	30.17	67	67	67	83	62	64	6	SE	0.5	9	SE	67	68	68	72	0	0	231	1.66	237	0	1	0	1	0	0.008
8:25 AM	30.17	68	68	67	82	62	64	4	SSE	0.3	9	SE	68	69	69	72	0	0	230	1.65	234	0	1	0	1	0	0.009
8:30 AM	30.17	68	68	68	82	62	64	5	SSE	0.4	8	SSE	68	69	69	73	0	0	239	1.71	248	0	1	0	1	0	0.01
8:35 AM	30.18	68	68	68	81	62	64	5	SSE	0.4	8	SE	68	69	69	73	0	0	257	1.84	258	0	1	0.1	1	0	0.011
8:40 AM	30.17	68	68	68	82	63	64	6	S	0.5	10	S	68	70	70	74	0	0	262	1.88	264	0	2	0.1	2	0	0.011
8:45 AM	30.17	69	69	68	80	62	64	4	SSE	0.3	8	SE	69	70	70	74	0	0	273	1.96	283	0	2	0.1	2	0	0.013
8:50 AM	30.17	69	69	69	80	63	64	4	SSE	0.3	7	SE	69	70	70	75	0	0	298	2.14	309	0	2	0.1	2	0	0.014
8:55 AM	30.17	69	70	69	81	63	65	4	SSE	0.3	7	SE	69	71	71	76	0	0	329	2.36	345	0	2	0.1	2	0	0.015
9:00 AM	30.17	70	70	70	79	63	65	4	SSW	0.3	6	WSW	70	71	71	77	0	0	369	2.65	385	0.01	2	0.1	2	0	0.017
9:05 AM	30.18	70	70	70	80	64	65	6	S	0.5	10	SSW	70	71	71	78	0	0	403	2.89	413	0	2	0.1	2	0	0.017
9:10 AM	30.17	70	70	70	77	63	65	8	SW	0.7	12	SW	69	71	71	77	0	0	432	3.1	441	0	2	0.1	2	0	0.018
9:15 AM	30.17	70	70	70	77	63	65	8	SSW	0.7	10	SW	69	71	70	80	0	0	447	3.21	452	0	2	0.1	2	0	0.018
9:20 AM	30.18	71	71	70	78	64	66	6	SSW	0.5	9	WSW	71	72	72	82	0	0	459	3.29	464	0	2	0.1	2	0	0.02
9:25 AM	30.18	71	72	71	76	63	66	8	SW	0.7	11	SW	70	72	71	83	0	0	472	3.38	476	0	2	0.1	3	0	0.022
9:30 AM	30.18	71	71	71	77	63	66	7	SW	0.6	12	SW	71	72	72	82	0	0	485	3.48	490	0	3	0.1	3	0	0.021
9:35 AM	30.18	71	72	71	76	63	66	6	SSW	0.5	9	SSW	71	72	72	83	0	0	500	3.59	506	0	3	0.1	3	0	0.022
9:40 AM	30.18	72	72	72	76	64	66	5	S	0.4	8	SSW	72	73	73	84	0	0	514	3.69	519	0	3	0.1	3	0	0.024
9:45 AM	30.18	72	73	72	74	64	66	4	SSE	0.3	8	SE	72	74	74	86	0	0	527	3.78	533	0	3	0.1	3	0	0.026
9:50 AM	30.18	73	73	73	72	64	66	5	SW	0.4	9	SW	73	74	74	86	0	0	538	3.86	543	0	3	0.1	3	0	0.028
9:55 AM	30.17	73	74	73	71	63	66	5	SSW	0.4	8	SW	73	74	74	87	0	0	552	3.96	559	0	3	0.1	3	0	0.029
10:00 AM	30.18	73	74	73	71	63	66	5	SSW	0.4	10	S	73	74	74	87	0	0	566	4.06	570	0.01	4	0.1	4	0	0.029
10:05 AM	30.18	74	74	74	72	64	67	6	SSW	0.5	9	SSW	74	75	75	88	0	0	578	4.14	584	0	4	0.1	4	0	0.03
10:10 AM	30.18	74	74	74	71	64	67	7	SSW	0.6	10	SSW	74	75	75	87	0	0	589	4.22	592	0	4	0.1	4	0	0.031
10:15 AM	30.19	74	74	74	72	64	67	6	SSW	0.5	9	SSW	74	75	75	87	0	0	599	4.3	605	0	4	0.1	4	0	0.031
10:20 AM	30.18	74	75	74	70	64	67	4	SSE	0.3	7	SSE	74	76	76	89	0	0	611	4.38	615	0	4	0.1	4	0	0.033
10:25 AM	30.18	75	75	75	68	64	67	6	S	0.5	11	S	75	76	76	89	0	0	620	4.45	624	0	4	0.1	4	0	0.035
10:30 AM	30.18	76	76	75	68	64	67	4	SE	0.3	7	SSW	76	77	77	90	0	0	631	4.52	633	0	4	0.2	4	0	0.038
10:35 AM	30.18	76	76	75	68	64	67	3	S	0.2	7	S	76	77	77	90	0	0	640	4.59	643	0	4	0.2	4	0	0.037
10:40 AM	30.19	76	76	76	70	66	68	4	S	0.3	8	SE	76	77	77	90	0	0	653	4.68	657	0	5	0.2	5	0	0.038
10:45 AM	30.19	77	78	76	63	63	67	5	SW	0.4	9	WSW	77	78	78	91	0	0	661	4.74	663	0	5	0.2	5	0	0.042
10:50 AM	30.18	79	80	78	62	65	68	6	WSW	0.5	11	WSW	79	80	80	93	0	0	670	4.8	677	0	5	0.2	5	0	0.048
10:55 AM	30.2	80	80	80	59	64	68	5	W	0.4	10	WSW	80	81	81	93	0	0	684	4.9	689	0	5	0.2	5	0	0.052
11:00 AM	30.19	78	80	77	63	64	68	6	S	0.5	10	SW	78	79	79	90	0	0	694	4.98	700	0.02	5	0.2	5	0	0.045
11:05 AM	30.18	78	78	77	64	64	68	3	S	0.2	6	S	78	79	79	92	0	0	703	5.04	707	0	5	0.2	5	0	0.044
11:10 AM	30.18	78	79	78	60	63	67	6	SSW	0.5	13	WSW	78	79	79	92	0	0	711	5.1	714	0	5	0.2	5	0	0.047
11:15 AM	30.19	80	81	79	58	64	68	4	NW	0.3	13	WNW	80	81	81	95	0	0	716	5.13	721	0	5	0.2	6	0	0.053
11:20 AM	30.18	80	81	79	60	65	68	4	SSW	0.3	10	S	80	81	81	92	0	0	728	5.22	731	0	6	0.2	6	0	0.051
11:25 AM	30.19	79	79	78	58	63	67	4	SE	0.3	9	SE	79	80	80	92	0	0	736	5.28	738	0	6	0.2	6	0	0.048
11:30 AM	30.19	79	80	78	58	63	67	7	S	0.6	13	S	79	80	80	91	0	0	743	5.33	745	0	6	0.2	6	0	0.049
11:35 AM	30.18	79	80	78	58	63	67	4	SW	0.3	8	SW	79	80	80	93	0	0	745	5.34	747	0	6	0.2	6	0	0.049
11:40 AM	30.18	80	80	79	58	63	67	6	SW	0.5	11	WSW	80	80	80	93	0	0	748	5.36	751	0	6	0.2	6	0	0.05
11:45 AM	30.18	81	82	80	55	63	68	2	SW	0.2	4	WSW	81	82	82	94	0	0	751	5.38	754	0	6	0.2	6	0	0.056
11:50 AM	30.18	82	83	81	53	63	68	4	SW	0.3	11	WSW	82	83	83	97	0	0	759	5.44	765	0	6	0.2	6	0	0.06
11:55 AM	30.18	82	83	80	54	63	68	7	SSW	0.6	12	SW	82	83	83	93	0	0	769	5.51	775	0	6	0.2	6	0	0.058
12:00 PM	30.18	80	82	80	53	62	66	4	SSW	0.3	9	SW	80	81	81	95	0	0	777	5.57	780	0.02	6	0.2	6	0	0.053
12:05 PM	30.18	82	83	81	54	64	68	5	SW	0.4	8	W	82	83	83	95	0	0	780	5.59	786	0	6	0.2	6	0	0.059

12:10 PM	30.18	81	81	80	55	63	67	7	SSW	0.6	14	SSW	81	82	82	92	0	0	784	5.62	788	0	6	0.2	6	0	0.055
12:15 PM	30.18	80	80	80	53	61	66	9	SW	0.8	15	SW	79	80	79	91	0	0	787	5.64	793	0	6	0.2	6	0	0.051
12:20 PM	30.18	81	82	80	53	62	67	8	SW	0.7	14	WSW	80	82	81	93	0	0	789	5.66	791	0	6	0.2	7	0	0.056
12:25 PM	30.17	81	83	81	53	63	67	7	WSW	0.6	12	WSW	81	82	82	97	0	0	790	5.66	795	0	6	0.2	7	0	0.057
12:30 PM	30.17	83	84	82	52	64	68	5	SW	0.4	12	WSW	83	84	84	95	0	0	798	5.72	800	0	7	0.2	7	0	0.063
12:35 PM	30.17	84	85	82	50	63	68	6	WSW	0.5	13	WSW	84	85	85	99	0	0	803	5.76	809	0	7	0.2	7	0	0.066
12:40 PM	30.17	83	85	81	53	64	68	6	S	0.5	10	S	83	84	84	94	0	0	804	5.76	805	0	7	0.2	7	0	0.062
12:45 PM	30.17	81	82	81	55	64	68	6	S	0.5	10	S	81	83	83	95	0	0	801	5.74	803	0	7	0.2	7	0	0.057
12:50 PM	30.17	82	82	81	53	63	67	7	SW	0.6	14	SW	82	82	82	95	0	0	805	5.77	809	0	7	0.2	7	0	0.057
12:55 PM	30.17	81	81	81	55	63	68	4	S	0.3	9	SSW	81	82	82	95	0	0	799	5.73	802	0	7	0.2	7	0	0.056
1:00 PM	30.16	82	82	81	56	64	68	5	SSE	0.4	12	SE	82	83	83	95	0	0	806	5.78	809	0.03	7	0.2	7	0	0.058
1:05 PM	30.16	82	82	82	51	62	66	5	S	0.4	11	S	82	82	82	95	0	0	803	5.76	803	0	7	0.2	7	0	0.058
1:10 PM	30.17	82	82	82	52	63	67	8	S	0.7	15	S	81	83	82	95	0	0	806	5.78	809	0	7	0.2	7	0	0.059
1:15 PM	30.16	82	82	82	51	62	67	4	SE	0.3	8	SE	82	83	83	96	0	0	805	5.77	809	0	7	0.2	7	0	0.059
1:20 PM	30.16	82	82	82	52	63	67	8	S	0.7	15	SSE	82	83	83	96	0	0	798	5.72	803	0	7	0.2	7	0	0.06
1:25 PM	30.16	82	82	82	50	62	66	7	SSE	0.6	12	SSE	82	83	83	96	0	0	805	5.77	807	0	7	0.2	7	0	0.06
1:30 PM	30.16	83	83	82	51	63	67	7	S	0.6	16	S	83	84	84	96	0	0	806	5.78	809	0	7	0.2	7	0	0.062
1:35 PM	30.16	83	83	83	46	60	65	10	SE	0.8	16	S	81	83	81	95	0	0	803	5.76	807	0	7	0.2	7	0	0.061
1:40 PM	30.16	83	83	82	48	61	66	10	S	0.8	17	S	81	83	82	92	0	0	800	5.74	803	0	7	0.2	7	0	0.061
1:45 PM	30.16	83	84	82	48	61	66	6	SSW	0.5	11	SSW	83	83	83	98	0	0	799	5.73	803	0	7	0.2	7	0	0.062
1:50 PM	30.16	83	84	83	47	61	66	9	SSW	0.8	15	SSE	83	84	83	96	0	0	802	5.75	805	0	6	0.2	7	0	0.064
1:55 PM	30.16	83	84	83	45	60	65	6	S	0.5	16	SW	83	83	83	96	0	0	800	5.74	816	0	6	0.2	6	0	0.064
2:00 PM	30.16	84	84	84	46	61	66	6	S	0.5	9	SW	84	84	84	97	0	0	782	5.61	812	0.03	6	0.2	6	0	0.066
2:05 PM	30.15	86	87	84	41	59	65	6	WSW	0.5	15	WSW	86	86	86	98	0	0	663	4.75	724	0	6	0.2	6	0	0.073
2:10 PM	30.15	85	87	84	43	60	66	7	SSW	0.6	13	SW	85	85	85	96	0	0	683	4.9	737	0	6	0.2	6	0	0.071
2:15 PM	30.15	86	88	84	41	60	65	6	WSW	0.5	15	W	86	86	86	100	0	0	719	5.16	793	0	6	0.2	6	0	0.074
2:20 PM	30.15	87	88	85	41	60	66	9	SSW	0.8	15	SW	86	87	86	97	0	0	755	5.41	810	0	6	0.2	6	0	0.075
2:25 PM	30.14	84	85	84	45	60	65	7	SW	0.6	10	SSW	84	84	84	96	0	0	686	4.92	717	0	6	0.2	6	0	0.066
2:30 PM	30.15	86	87	85	41	60	65	5	SW	0.4	14	WSW	86	86	86	98	0	0	783	5.61	817	0	6	0.2	6	0	0.074
2:35 PM	30.15	87	87	86	41	60	66	6	SSW	0.5	12	SW	87	87	87	99	0	0	785	5.63	819	0	6	0.2	6	0	0.075
2:40 PM	30.15	85	86	85	44	61	66	6	SSW	0.5	10	SSW	85	86	86	98	0	0	728	5.22	765	0	5	0.2	6	0	0.071
2:45 PM	30.15	87	88	86	40	59	65	7	W	0.6	14	SSW	87	86	86	99	0	0	714	5.12	770	0	6	0.2	6	0	0.075
2:50 PM	30.15	89	89	88	37	59	65	7	WSW	0.6	16	WSW	89	89	89	99	0	0	671	4.81	765	0	5	0.2	6	0	0.083
2:55 PM	30.15	88	89	88	39	60	66	9	W	0.8	15	NNW	88	88	88	100	0	0	757	5.43	817	0	6	0.2	6	0	0.081
3:00 PM	30.14	90	90	89	38	61	66	6	W	0.5	12	W	90	90	90	102	0	0	800	5.74	810	0.03	6	0.2	6	0	0.085
3:05 PM	30.14	90	90	90	37	60	66	8	W	0.7	13	WNW	90	90	90	102	0	0	773	5.54	786	0	6	0.2	6	0	0.088
3:10 PM	30.14	89	90	88	38	60	66	7	WSW	0.6	13	W	89	89	89	101	0	0	717	5.14	740	0	5	0.2	5	0	0.084
3:15 PM	30.14	89	90	89	36	59	65	5	WSW	0.4	11	W	89	89	89	103	0	0	705	5.06	752	0	5	0.2	5	0	0.085
3:20 PM	30.15	88	90	87	41	62	67	8	SW	0.7	12	SW	88	89	89	99	0	0	717	5.14	745	0	5	0.2	5	0	0.081
3:25 PM	30.14	88	88	87	39	60	65	9	W	0.8	17	W	88	88	87	96	0	0	460	3.3	501	0	4	0.1	5	0	0.079
3:30 PM	30.14	88	88	88	39	60	66	7	WNW	0.6	13	WNW	88	88	88	96	0	0	463	3.32	485	0	4	0.1	4	0	0.08
3:35 PM	30.14	88	90	88	38	60	65	4	W	0.3	9	W	88	88	88	100	0	0	573	4.11	673	0	4	0.2	5	0	0.082
3:40 PM	30.14	90	90	89	39	61	67	8	WNW	0.7	14	WNW	90	90	90	99	0	0	622	4.46	696	0	4	0.2	4	0	0.086
3:45 PM	30.14	89	89	88	40	61	67	6	WNW	0.5	12	WNW	89	89	89	101	0	0	724	5.19	742	0	4	0.2	5	0	0.083
3:50 PM	30.13	90	90	89	40	62	67	5	W	0.4	10	WSW	90	91	91	102	0	0	615	4.41	673	0	4	0.1	4	0	0.086
3:55 PM	30.13	90	91	90	38	61	66	7	W	0.6	14	W	90	90	90	104	0	0	668	4.79	682	0	4	0.2	4	0	0.086
4:00 PM	30.13	90	91	89	38	61	67	5	WSW	0.4	11	WNW	90	91	91	102	0	0	633	4.54	649	0.02	4	0.1	4	0	0.089
4:05 PM	30.13	90	90	89	38	61	66	4	W	0.3	9	W	90	90	90	103	0	0	617	4.42	626	0	4	0.1	4	0	0.085
4:10 PM	30.13	91	91	90	37	61	66	4	SW	0.3	12	W	91	91	91	102	0	0	597	4.28	601	0	4	0.1	4	0	0.089
4:15 PM	30.13	90	91	90	38	61	67	4	WNW	0.3	11	WNW	90	91	91	103	0	0	589	4.22	594	0	4	0.1	4	0	0.088
4:20 PM	30.12	89	91	87	42	63	68	6	SSW	0.5	11	WSW	89	90	90	100	0	0	574	4.12	580	0	4	0.1	4	0	0.083
4:25 PM	30.12	88	89	87	41	61	67	5	WSW	0.4	10	W	88	89	89	101	0	0	557	3.99	564	0	3	0.1	4	0	0.08
4:30 PM	30.12	89	89	89	40	62	67	6	W	0.5	10	WSW	89	90	90	101	0	0	546	3.91	548	0	3	0.1	3	0	0.084
4:35 PM	30.12	90	90	89	38	61	66	6	WSW	0.5	11	SW	90	90	90	101	0	0	541	3.88	545	0	3	0.1	3	0	0.086
4:40 PM	30.12	88	89	87	42	62	67	4	SW	0.3	9	WSW	88	88	88	98	0	0	522	3.74	531	0	3	0.1	3	0	0.079
4:45 PM	30.12	87	87	86	42	61	66	4	SSW	0.3	9	SW	87	87	87	99	0	0	506	3.63	510	0	3	0.1	3	0	0.076
4:50 PM	30.12	88	90	87	40	61	66	3	SSW	0.2	8	WSW	88	88	88	101	0	0	497	3.56	499	0	3	0.1	3	0	0.08

4:55 PM	30.11	90	90	89	41	63	68	5	WSW	0.4	11	WNW	90	91	91	102	0	0	487	3.49	494	0	3	0.1	3	0	0.086
5:00 PM	30.11	90	90	90	39	62	67	6	WNW	0.5	10	W	90	91	91	102	0	0	470	3.37	478	0.02	2	0.1	3	0	0.086
5:05 PM	30.11	90	90	89	40	62	68	3	NW	0.2	6	WNW	90	91	91	97	0	0	454	3.26	461	0	2	0.1	2	0	0.086
5:10 PM	30.11	90	91	90	40	63	68	4	WNW	0.3	9	WNW	90	92	92	103	0	0	443	3.18	448	0	2	0.1	2	0	0.089
5:15 PM	30.11	90	91	89	39	62	68	1	NNW	0.1	3	W	90	91	91	101	0	0	432	3.1	436	0	2	0.1	2	0	0.089
5:20 PM	30.11	90	90	89	39	61	67	4	W	0.3	10	W	90	90	90	102	0	0	419	3	424	0	2	0.1	2	0	0.085
5:25 PM	30.11	91	91	90	39	62	68	2	W	0.2	6	W	91	92	92	99	0	0	405	2.9	410	0	2	0.1	2	0	0.089
5:30 PM	30.11	90	91	89	40	63	68	3	N	0.2	4	N	90	91	91	100	0	0	394	2.83	401	0	2	0.1	2	0	0.087
5:35 PM	30.1	89	90	89	40	62	67	2	SW	0.2	7	W	89	90	90	96	0	0	378	2.71	388	0	2	0.1	2	0	0.084
5:40 PM	30.1	89	90	88	40	62	67	2	N	0.2	4	N	89	90	90	102	0	0	361	2.59	366	0	2	0.1	2	0	0.084
5:45 PM	30.1	91	91	90	39	62	68	1	NE	0.1	2	WSW	91	92	92	98	0	0	339	2.43	348	0	2	0.1	2	0	0.089
5:50 PM	30.1	91	91	90	40	63	68	1	ENE	0.1	3	WSW	91	92	92	96	0	0	327	2.34	330	0	1	0.1	1	0	0.089
5:55 PM	30.1	88	90	87	44	63	68	2	SSE	0.2	5	SE	88	89	89	93	0	0	305	2.19	313	0	1	0	1	0	0.08
6:00 PM	30.1	86	87	86	46	63	68	3	SE	0.2	6	SSE	86	87	87	92	0	0	293	2.1	301	0.01	1	0	1	0	0.073
6:05 PM	30.1	86	86	85	44	61	66	3	SE	0.2	5	S	86	86	86	90	0	0	272	1.95	285	0	1	0	1	0	0.071
6:10 PM	30.1	86	86	85	44	61	66	2	SSE	0.2	4	SSE	86	86	86	91	0	0	276	1.98	281	0	1	0	1	0	0.072
6:15 PM	30.09	86	86	85	45	62	67	3	SE	0.2	5	SE	86	87	87	90	0	0	261	1.87	264	0	1	0	1	0	0.073
6:20 PM	30.09	85	85	85	45	61	66	4	ESE	0.3	7	SE	85	86	86	89	0	0	241	1.73	253	0	1	0	1	0	0.07
6:25 PM	30.09	85	85	85	46	62	67	4	ESE	0.3	7	E	85	86	86	89	0	0	216	1.55	230	0	1	0	1	0	0.07
6:30 PM	30.09	85	85	85	47	63	68	3	ESE	0.2	4	ESE	85	86	86	90	0	0	212	1.52	220	0	1	0	1	0	0.07
6:35 PM	30.09	85	85	85	47	62	67	6	ESE	0.5	9	ESE	85	86	86	89	0	0	202	1.45	206	0	1	0	1	0	0.069
6:40 PM	30.09	85	85	85	47	62	67	4	E	0.3	7	ESE	85	85	85	88	0	0	191	1.37	193	0	1	0	1	0	0.068
6:45 PM	30.09	85	85	85	47	62	67	5	E	0.4	7	E	85	86	86	88	0	0	178	1.28	186	0	1	0	1	0	0.069
6:50 PM	30.09	85	85	84	47	62	67	4	ENE	0.3	6	E	85	86	86	93	0	0	161	1.15	165	0	0	0	1	0	0.069
6:55 PM	30.08	85	85	85	48	63	68	4	ENE	0.3	6	NE	85	87	87	88	0	0	150	1.08	155	0	0	0	0	0	0.071
7:00 PM	30.09	85	85	84	47	62	67	4	E	0.3	7	ESE	85	86	86	87	0	0	114	0.82	137	0.01	0	0	0	0	0.069
7:05 PM	30.09	84	84	84	48	62	67	5	E	0.4	7	E	84	85	85	86	0	0	88	0.63	102	0	0	0	0	0	0.066
7:10 PM	30.08	84	84	84	49	63	67	4	E	0.3	6	E	84	85	85	85	0	0	49	0.35	60	0	0	0	0	0	0.065
7:15 PM	30.08	83	84	83	50	63	67	3	E	0.2	6	E	83	84	84	85	0	0	43	0.31	58	0	0	0	0	0	0.064
7:20 PM	30.08	83	83	83	50	62	67	3	ENE	0.2	4	ENE	83	84	84	84	0	0	62	0.44	63	0	0	0	0	0	0.062
7:25 PM	30.08	83	83	83	51	63	67	3	ENE	0.2	4	ENE	83	84	84	85	0	0	64	0.46	67	0	0	0	0	0	0.062
7:30 PM	30.08	83	83	83	51	63	67	3	E	0.2	5	E	83	84	84	84	0	0	51	0.37	62	0	0	0	0	0	0.062
7:35 PM	30.07	82	82	82	51	62	67	3	E	0.2	6	E	82	83	83	82	0	0	40	0.29	44	0	0	0	0	0	0.06
7:40 PM	30.08	82	82	82	51	62	67	3	E	0.2	6	E	82	83	83	82	0	0	31	0.22	37	0	0	0	0	0	0.059
7:45 PM	30.08	82	82	82	52	63	67	3	E	0.2	4	E	82	83	83	82	0	0	21	0.15	25	0	0	0	0	0	0.059
7:50 PM	30.08	82	82	82	53	63	67	3	E	0.2	4	E	82	83	83	82	0	0	16	0.11	18	0	0	0	0	0	0.058
7:55 PM	30.08	81	82	81	53	63	67	3	E	0.2	4	E	81	82	82	81	0	0	13	0.09	14	0	0	0	0	0	0.057
8:00 PM	30.08	81	81	81	53	62	67	3	E	0.2	5	E	81	82	82	81	0	0	12	0.09	14	0	0	0	0	0	0.056
8:05 PM	30.08	81	81	81	53	62	67	3	E	0.2	4	E	81	82	82	81	0	0	13	0.09	14	0	0	0	0	0	0.056
8:10 PM	30.08	81	81	81	53	62	67	5	E	0.4	7	E	81	82	82	80	0	0	9	0.06	12	0	0	0	0	0	0.056
8:15 PM	30.07	81	81	81	54	63	67	5	E	0.4	8	E	81	82	82	80	0	0	5	0.04	7	0	0	0	0	0	0.056
8:20 PM	30.07	81	81	81	54	63	67	5	E	0.4	8	E	81	82	82	80	0	0	1	0.01	5	0	0	0	0	0	0.055
8:25 PM	30.07	80	81	80	55	63	67	4	E	0.3	6	E	80	81	81	79	0	0	0	0	0	0	0	0	0	0	0.054
8:30 PM	30.07	80	80	80	56	63	67	3	E	0.2	6	ESE	80	81	81	79	0	0	0	0	0	0	0	0	0	0	0.053
8:35 PM	30.07	80	80	80	57	63	67	3	E	0.2	5	E	80	81	81	79	0	0	0	0	0	0	0	0	0	0	0.052
8:40 PM	30.07	80	80	80	57	63	67	4	E	0.3	6	E	80	81	81	78	0	0	0	0	0	0	0	0	0	0	0.051
8:45 PM	30.07	80	80	80	57	63	67	4	E	0.3	7	E	80	80	80	78	0	0	0	0	0	0	0	0	0	0	0.051
8:50 PM	30.07	79	80	79	58	63	67	4	E	0.3	6	E	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.05
8:55 PM	30.07	79	79	79	59	64	67	4	ESE	0.3	6	E	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.049
9:00 PM	30.07	79	79	79	60	64	67	4	ESE	0.3	7	E	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.048
9:05 PM	30.07	79	79	79	60	64	67	6	E	0.5	8	ESE	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.048
9:10 PM	30.07	79	79	79	60	64	67	6	E	0.5	7	E	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.048
9:15 PM	30.07	79	79	79	60	64	67	6	ESE	0.5	8	ESE	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.048
9:20 PM	30.07	79	79	79	60	64	67	6	ESE	0.5	8	ESE	79	80	80	78	0	0	0	0	0	0	0	0	0	0	0.048
9:25 PM	30.07	78	79	78	61	64	67	5	ESE	0.4	8	SE	78	79	79	78	0	0	0	0	0	0	0	0	0	0	0.047
9:30 PM	30.07	78	78	78	62	64	68	4	ESE	0.3	7	ESE	78	79	79	77	0	0	0	0	0	0	0	0	0	0	0.046
9:35 PM	30.07	78	78	78	63	64	68	3	ESE	0.2	5	ESE	78	79	79	77	0	0	0	0	0	0	0	0	0	0	0.045

9:40 PM	30.07	77	78	77	68	66	69	1	SE	0.1	4	SE	77	79	79	77	0	0	0	0	0	0	0	0	0	0	0.043
9:45 PM	30.07	77	77	76	68	65	68	1	SE	0.1	3	SE	77	78	78	76	0	0	0	0	0	0	0	0	0	0	0.041
9:50 PM	30.07	76	76	76	66	64	67	3	ESE	0.2	4	ESE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.04
9:55 PM	30.07	76	76	76	68	65	68	2	SE	0.2	4	SE	76	78	78	76	0	0	0	0	0	0	0	0	0	0	0.039
10:00 PM	30.08	76	76	76	69	65	68	2	SE	0.2	4	SE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.038
10:05 PM	30.08	76	76	76	69	65	68	2	SE	0.2	3	SE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.037
10:10 PM	30.08	76	76	76	69	65	68	2	SE	0.2	3	SE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.037
10:15 PM	30.07	76	76	76	69	65	68	2	SE	0.2	4	SE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.037
10:20 PM	30.07	76	76	76	69	65	68	2	SE	0.2	4	SE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.037
10:25 PM	30.07	76	76	76	73	66	69	2	SE	0.2	3	SE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.037
10:30 PM	30.08	75	76	75	73	66	69	2	SE	0.2	3	SE	75	77	77	75	0	0	0	0	0	0	0	0	0	0	0.036
10:35 PM	30.07	75	75	75	74	66	68	2	SSE	0.2	4	SSE	75	77	77	75	0	0	0	0	0	0	0	0	0	0	0.035
10:40 PM	30.07	75	75	75	71	65	68	2	SSE	0.2	4	SSE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.035
10:45 PM	30.07	75	76	75	71	65	68	3	SSE	0.2	4	SSE	75	77	77	76	0	0	0	0	0	0	0	0	0	0	0.036
10:50 PM	30.07	76	76	75	70	65	68	3	SSE	0.2	4	SSE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.036
10:55 PM	30.07	76	76	76	71	65	68	1	SSE	0.1	3	SSE	76	77	77	76	0	0	0	0	0	0	0	0	0	0	0.036
11:00 PM	30.07	75	76	75	70	65	68	2	SSE	0.2	3	SSE	75	77	77	75	0	0	0	0	0	0	0	0	0	0	0.036
11:05 PM	30.07	75	75	75	71	65	68	1	SSE	0.1	3	SSE	75	77	77	75	0	0	0	0	0	0	0	0	0	0	0.036
11:10 PM	30.07	75	75	75	72	66	68	2	SSE	0.2	4	SSE	75	77	77	75	0	0	0	0	0	0	0	0	0	0	0.036
11:15 PM	30.07	75	75	75	72	66	68	3	SSE	0.2	6	S	75	77	77	75	0	0	0	0	0	0	0	0	0	0	0.035
11:20 PM	30.07	75	75	75	72	65	68	2	SSE	0.2	5	SSE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.035
11:25 PM	30.07	75	75	75	72	65	68	3	S	0.2	6	S	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.035
11:30 PM	30.07	75	75	75	73	66	68	4	SSE	0.3	7	SSE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.034
11:35 PM	30.07	75	75	75	74	66	68	3	SSE	0.2	6	SSE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.034
11:40 PM	30.07	75	75	75	75	66	68	3	SSE	0.2	5	SSE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.034
11:45 PM	30.08	75	75	74	75	66	68	3	SSE	0.2	4	SSE	75	76	76	75	0	0	0	0	0	0	0	0	0	0	0.033
11:50 PM	30.08	74	75	74	77	67	69	2	SSE	0.2	5	SE	74	76	76	74	0	0	0	0	0	0	0	0	0	0	0.033
11:55 PM	30.08	74	74	74	76	66	68	3	SSE	0.2	7	SSW	74	76	76	74	0	0	0	0	0	0	0	0	0	0	0.032
8/7/2021 12:00 AM	30.07	74	74	74	76	66	68	3	SSE	0.2	6	SSW	74	76	76	74	0	0	0	0	0	0	0	0	0	0	0.032
12:05 AM	30.08	74	74	74	77	66	68	3	S	0.2	6	S	74	76	76	74	0	0	0	0	0	0	0	0	0	0	0.031
12:10 AM	30.08	74	74	74	77	66	68	4	S	0.3	7	S	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.031
12:15 AM	30.08	74	74	74	77	66	68	4	S	0.3	8	S	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.03
12:20 AM	30.08	74	74	74	77	66	68	4	SW	0.3	6	SW	74	75	75	73	0	0	0	0	0	0	0	0	0	0	0.03
12:25 AM	30.08	74	74	74	77	66	68	6	SSW	0.5	11	S	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.03
12:30 AM	30.09	74	74	74	78	66	68	6	S	0.5	8	S	74	75	75	73	0	0	0	0	0	0	0	0	0	0	0.03
12:35 AM	30.08	73	74	73	78	66	68	6	S	0.5	8	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.029
12:40 AM	30.09	73	73	73	78	66	68	5	S	0.4	7	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.029
12:45 AM	30.08	73	73	73	79	66	68	4	S	0.3	9	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.028
12:50 AM	30.09	73	73	73	79	66	68	5	S	0.4	7	SSW	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.028
12:55 AM	30.08	73	73	73	79	66	68	4	S	0.3	7	SSW	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.028
1:00 AM	30.08	73	73	73	79	66	68	3	SSW	0.2	6	SSW	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.028
1:05 AM	30.08	73	74	73	78	66	68	3	SW	0.2	5	SW	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.029
1:10 AM	30.08	73	74	73	79	66	68	3	WSW	0.2	4	SW	73	75	75	72	0	0	0	0	0	0	0	0	0	0	0.028
1:15 AM	30.08	73	73	73	80	66	68	3	WSW	0.2	4	SSW	73	74	74	72	0	0	0	0	0	0	0	0	0	0	0.027
1:20 AM	30.09	73	73	72	80	66	68	3	SSW	0.2	4	SW	73	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
1:25 AM	30.08	72	72	72	81	66	68	3	SSW	0.2	5	SSW	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
1:30 AM	30.08	72	72	72	81	66	68	3	SSW	0.2	5	SSW	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
1:35 AM	30.08	72	72	72	81	66	68	4	S	0.3	6	SSW	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.025
1:40 AM	30.08	72	72	72	81	66	68	4	SSW	0.3	8	SSE	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
1:45 AM	30.08	72	72	72	81	66	68	4	S	0.3	7	SW	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
1:50 AM	30.08	72	72	72	81	66	68	4	S	0.3	6	S	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
1:55 AM	30.08	72	72	72	80	66	68	4	S	0.3	8	SSW	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
2:00 AM	30.08	72	72	72	80	66	68	3	S	0.2	5	SSW	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
2:05 AM	30.08	72	72	72	81	66	68	2	SSE	0.2	5	SSE	72	74	74	72	0	0	0	0	0	0	0	0	0	0	0.026
2:10 AM	30.07	72	72	72	81	66	68	2	SE	0.2	3	SE	72	74	74	71	0	0	0	0	0	0	0	0	0	0	0.025
2:15 AM	30.07	72	72	72	81	66	67	2	SE	0.2	4	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.024

2:20 AM	30.07	72	72	72	82	66	68	2	SE	0.2	4	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.024
2:25 AM	30.07	72	72	72	82	66	67	2	SE	0.2	3	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
2:30 AM	30.07	72	72	72	81	65	67	2	SE	0.2	3	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
2:35 AM	30.07	72	72	72	82	66	67	1	SE	0.1	3	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
2:40 AM	30.07	72	72	72	81	65	67	1	SE	0.1	2	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
2:45 AM	30.07	72	72	72	81	65	67	0		0	1	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
2:50 AM	30.07	72	72	72	81	66	67	1	SE	0.1	2	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
2:55 AM	30.07	72	72	72	82	66	68	1	SE	0.1	2	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.024
3:00 AM	30.06	72	72	72	83	66	68	1	SE	0.1	2	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.024
3:05 AM	30.06	72	72	72	83	66	68	1	SE	0.1	2	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
3:10 AM	30.06	72	72	72	82	66	67	1	SE	0.1	2	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
3:15 AM	30.06	71	72	71	82	66	67	1	SE	0.1	3	SE	71	73	73	71	0	0	0	0	0	0	0	0	0	0	0.022
3:20 AM	30.06	72	72	71	81	65	67	1	SE	0.1	3	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
3:25 AM	30.06	72	72	72	80	65	67	2	SE	0.2	3	SE	72	73	73	71	0	0	0	0	0	0	0	0	0	0	0.023
3:30 AM	30.06	71	72	71	82	66	67	3	SE	0.2	5	SE	71	73	73	70	0	0	0	0	0	0	0	0	0	0	0.022
3:35 AM	30.06	71	71	71	83	65	67	3	SE	0.2	5	SE	71	73	73	70	0	0	0	0	0	0	0	0	0	0	0.02
3:40 AM	30.06	70	71	70	83	65	67	3	ESE	0.2	6	ESE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.019
3:45 AM	30.06	70	70	70	85	65	67	2	ESE	0.2	3	ESE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.018
3:50 AM	30.06	70	70	70	85	65	67	1	ESE	0.1	3	ESE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.017
3:55 AM	30.06	70	70	70	86	66	67	1	SE	0.1	2	ESE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.018
4:00 AM	30.06	70	70	70	85	65	67	2	SE	0.2	4	SE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.018
4:05 AM	30.06	70	70	70	85	65	67	2	SE	0.2	3	SE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.018
4:10 AM	30.06	70	70	70	85	65	67	1	SE	0.1	2	SE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.017
4:15 AM	30.06	70	70	70	85	65	67	1	SE	0.1	2	SE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.017
4:20 AM	30.07	70	70	70	85	65	66	3	N	0.2	6	NNW	70	72	72	69	0	0	0	0	0	0	0	0	0	0	0.017
4:25 AM	30.06	70	70	70	85	65	67	2	NNE	0.2	3	N	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.017
4:30 AM	30.06	70	70	70	85	65	67	1	NNE	0.1	2	NNE	70	72	72	70	0	0	0	0	0	0	0	0	0	0	0.017
4:35 AM	30.06	70	70	70	86	66	67	0		0	1	NNE	70	72	72	69	0	0	0	0	0	0	0	0	0	0	0.017
4:40 AM	30.06	69	70	69	88	66	67	0		0	0		69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.015
4:45 AM	30.06	69	69	69	88	65	67	0		0	0		69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.015
4:50 AM	30.06	69	70	69	87	65	67	0		0	2	NNE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.015
4:55 AM	30.06	69	69	69	88	65	66	1	NNE	0.1	2	NNE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
5:00 AM	30.07	69	69	69	90	66	67	0		0	1	NNE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.013
5:05 AM	30.07	69	69	69	91	66	67	1	NNE	0.1	3	NNE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
5:10 AM	30.07	69	69	69	90	66	67	1	NNE	0.1	3	ESE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
5:15 AM	30.07	69	69	69	89	66	67	1	ESE	0.1	3	ESE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.015
5:20 AM	30.07	69	69	69	89	66	67	1	ESE	0.1	2	ESE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.015
5:25 AM	30.07	69	69	69	89	66	67	1	ESE	0.1	2	ESE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
5:30 AM	30.07	69	69	69	89	66	67	1	SSE	0.1	3	SSE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
5:35 AM	30.07	69	69	69	88	65	66	2	SSE	0.2	3	SSE	69	71	71	68	0	0	0	0	0	0	0	0	0	0	0.013
5:40 AM	30.07	69	69	69	89	65	66	1	SSE	0.1	3	SSE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.012
5:45 AM	30.07	68	69	68	90	65	66	1	SSE	0.1	2	SSE	68	70	70	69	0	0	0	0	0	0	0	0	0	0	0.012
5:50 AM	30.07	68	68	68	90	65	66	1	SSE	0.1	2	SSE	68	70	70	69	0	0	0	0	0	0	0	0	0	0	0.012
5:55 AM	30.07	68	68	68	90	65	66	1	SSE	0.1	2	SSE	68	70	70	69	0	0	0	0	0	0	0	0	0	0	0.012
6:00 AM	30.07	69	69	68	89	65	66	1	SSE	0.1	4	SSE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.012
6:05 AM	30.07	69	69	69	88	65	66	3	SSE	0.2	4	SSE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.013
6:10 AM	30.07	69	69	69	88	65	66	2	SSE	0.2	3	SSE	69	71	71	69	0	0	0	0	0	0	0	0	0	0	0.014
6:15 AM	30.07	69	69	69	88	65	66	2	SSE	0.2	3	SSE	69	71	71	69	0	0	4	0.03	7	0	0	0	0	0	0.013
6:20 AM	30.08	69	69	68	89	65	66	1	SSE	0.1	3	SSE	69	71	71	69	0	0	9	0.06	11	0	0	0	0	0	0.012
6:25 AM	30.08	68	68	68	89	65	66	1	SSE	0.1	3	SSE	68	70	70	69	0	0	14	0.1	16	0	0	0	0	0	0.012
6:30 AM	30.07	68	68	68	89	65	66	1	SSE	0.1	2	SSE	68	70	70	69	0	0	18	0.13	21	0	0	0	0	0	0.012
6:35 AM	30.08	69	69	68	88	65	66	2	SSE	0.2	4	SSE	69	70	70	70	0	0	24	0.17	26	0	0	0	0	0	0.012
6:40 AM	30.08	69	69	69	88	65	66	2	S	0.2	5	SSE	69	71	71	70	0	0	31	0.22	33	0	0	0	0	0	0.013
6:45 AM	30.08	69	69	69	88	65	66	2	S	0.2	4	S	69	71	71	70	0	0	35	0.25	37	0	0	0	0	0	0.014
6:50 AM	30.08	69	69	69	87	65	66	2	SSE	0.2	4	SSE	69	71	71	70	0	0	41	0.29	46	0	0	0	0	0	0.014
6:55 AM	30.08	69	69	69	87	65	66	2	SSE	0.2	4	S	69	71	71	71	0	0	50	0.36	53	0	0	0	0	0	0.014
7:00 AM	30.08	69	69	69	88	65	66	2	SSE	0.2	3	SSE	69	71	71	71	0	0	59	0.42	63	0	0	0	0	0	0.014

7:05 AM	30.08	69	69	69	87	65	66	1	SSE	0.1	3	SSE	69	71	71	71	0	0	67	0.48	70	0	0	0	0	0	0.015
7:10 AM	30.08	69	69	69	87	65	66	2	SSE	0.2	3	SSE	69	71	71	71	0	0	70	0.5	70	0	0	0	0	0	0.015
7:15 AM	30.08	69	69	69	87	65	66	2	SSE	0.2	3	SSE	69	71	71	71	0	0	71	0.51	72	0	0	0	0	0	0.015
7:20 AM	30.08	69	69	69	87	65	67	2	SSE	0.2	4	SSE	69	71	71	71	0	0	73	0.52	74	0	0	0	0	0	0.015
7:25 AM	30.09	70	70	69	86	65	66	2	SSE	0.2	3	SSE	70	71	71	71	0	0	76	0.54	76	0	0	0	0	0	0.016
7:30 AM	30.08	70	70	70	86	65	66	2	SSE	0.2	3	SSE	70	71	71	71	0	0	76	0.54	77	0	0	0	0	0	0.016
7:35 AM	30.09	70	70	70	85	65	66	2	SSE	0.2	3	SSE	70	72	72	71	0	0	83	0.6	88	0	0	0	0	0	0.017
7:40 AM	30.09	70	70	70	85	65	67	2	SSE	0.2	3	SSE	70	72	72	72	0	0	97	0.7	104	0	0	0	0	0	0.017
7:45 AM	30.08	70	70	70	84	65	67	2	SSE	0.2	5	S	70	72	72	73	0	0	116	0.83	128	0	0	0	0	0	0.018
7:50 AM	30.08	70	71	70	84	65	67	2	SSE	0.2	4	SSE	70	72	72	73	0	0	164	1.18	186	0	1	0	1	0	0.019
7:55 AM	30.08	71	71	71	83	65	67	2	SSE	0.2	4	S	71	73	73	75	0	0	205	1.47	213	0	1	0	1	0	0.02
8:00 AM	30.08	71	72	71	82	66	67	3	SSE	0.2	5	S	71	73	73	76	0	0	218	1.56	223	0	1	0	1	0	0.022
8:05 AM	30.08	72	72	72	81	66	67	4	S	0.3	6	SW	72	73	73	76	0	0	222	1.59	225	0	1	0	1	0	0.024
8:10 AM	30.08	72	72	72	80	66	67	5	SSW	0.4	10	SW	72	74	74	76	0	0	208	1.49	213	0	1	0	1	0	0.025
8:15 AM	30.08	73	73	72	79	66	68	6	SSW	0.5	9	SSW	73	74	74	77	0	0	223	1.6	234	0	1	0	1	0	0.026
8:20 AM	30.08	73	73	73	78	66	68	5	S	0.4	8	SSW	73	75	75	78	0	0	233	1.67	243	0	1	0	1	0	0.028
8:25 AM	30.08	73	73	73	77	66	68	6	SSW	0.5	11	SW	73	75	75	79	0	0	248	1.78	253	0	1	0	1	0	0.029
8:30 AM	30.08	74	74	73	76	66	68	8	SSW	0.7	12	SSW	73	75	74	79	0	0	265	1.9	271	0	1	0	1	0	0.03
8:35 AM	30.08	74	74	74	76	66	68	6	SW	0.5	11	SW	74	76	76	79	0	0	270	1.94	271	0	1	0	1	0	0.031
8:40 AM	30.08	74	74	74	76	66	68	6	SSW	0.5	10	SW	74	76	76	81	0	0	271	1.94	271	0	1	0	1	0	0.032
8:45 AM	30.08	74	74	74	77	67	69	8	SSW	0.7	11	SW	73	76	75	80	0	0	277	1.99	285	0	1	0.1	1	0	0.032
8:50 AM	30.08	74	74	74	76	66	68	8	SSW	0.7	11	S	73	76	75	79	0	0	297	2.13	306	0	2	0.1	2	0	0.032
8:55 AM	30.08	75	75	74	76	67	69	6	SSW	0.5	9	SSW	75	76	76	82	0	0	325	2.33	343	0	2	0.1	2	0	0.033
9:00 AM	30.08	75	75	75	74	66	69	6	S	0.5	10	S	75	77	77	84	0	0	359	2.57	369	0.01	2	0.1	2	0	0.035
9:05 AM	30.08	75	75	75	75	67	69	8	S	0.7	11	SSE	74	77	76	84	0	0	386	2.77	396	0	2	0.1	2	0	0.036
9:10 AM	30.08	75	76	75	74	67	69	7	SSW	0.6	10	SSE	75	77	77	83	0	0	409	2.93	415	0	2	0.1	2	0	0.036
9:15 AM	30.08	76	76	76	75	67	70	5	S	0.4	8	S	76	78	78	85	0	0	409	2.93	415	0	2	0.1	2	0	0.038
9:20 AM	30.08	76	76	76	74	67	70	5	SE	0.4	10	SE	76	78	78	86	0	0	422	3.03	434	0	2	0.1	2	0	0.039
9:25 AM	30.08	76	77	76	73	67	70	6	SE	0.5	10	SE	76	78	78	87	0	0	443	3.18	450	0	2	0.1	2	0	0.04
9:30 AM	30.08	76	77	76	73	67	70	5	SSE	0.4	10	SSE	76	78	78	87	0	0	457	3.28	462	0	2	0.1	2	0	0.04
9:35 AM	30.08	77	77	77	72	67	70	5	SSE	0.4	9	SSE	77	79	79	87	0	0	469	3.36	475	0	2	0.1	2	0	0.041
9:40 AM	30.08	77	78	77	73	68	70	4	S	0.3	7	SSW	77	79	79	88	0	0	489	3.51	497	0	3	0.1	3	0	0.042
9:45 AM	30.08	78	78	77	71	67	70	5	S	0.4	10	S	78	79	79	88	0	0	509	3.65	517	0	3	0.1	3	0	0.043
9:50 AM	30.07	77	78	77	71	67	70	6	S	0.5	9	SW	77	79	79	89	0	0	518	3.71	527	0	3	0.1	3	0	0.043
9:55 AM	30.07	78	78	78	70	67	70	5	SSW	0.4	8	SW	78	80	80	89	0	0	505	3.62	517	0	3	0.1	3	0	0.044
10:00 AM	30.08	78	78	78	70	68	70	5	SSW	0.4	8	SSW	78	80	80	89	0	0	487	3.49	504	0.01	3	0.1	3	0	0.046
10:05 AM	30.08	78	78	78	71	68	70	4	SSW	0.3	7	SSW	78	80	80	89	0	0	507	3.64	543	0	3	0.1	3	0	0.044
10:10 AM	30.08	78	79	78	69	67	70	4	S	0.3	8	SSE	78	80	80	90	0	0	551	3.95	561	0	3	0.1	3	0	0.047
10:15 AM	30.08	79	79	79	68	67	70	4	S	0.3	8	SSE	79	81	81	90	0	0	494	3.54	540	0	3	0.1	3	0	0.048
10:20 AM	30.08	79	79	79	69	68	70	5	SSE	0.4	10	SSW	79	81	81	90	0	0	569	4.08	612	0	4	0.1	4	0	0.048
10:25 AM	30.08	79	79	79	68	67	70	4	SE	0.3	8	S	79	81	81	91	0	0	564	4.04	584	0	4	0.1	4	0	0.048
10:30 AM	30.08	79	80	79	68	68	71	3	SSE	0.2	5	SSE	79	82	82	93	0	0	522	3.74	543	0	4	0.1	4	0	0.05
10:35 AM	30.08	80	80	79	67	68	71	3	S	0.2	5	SE	80	82	82	92	0	0	541	3.88	563	0	4	0.1	4	0	0.051
10:40 AM	30.08	80	80	79	64	67	70	4	SSW	0.3	8	SSW	80	82	82	92	0	0	596	4.27	615	0	4	0.1	4	0	0.052
10:45 AM	30.08	80	81	80	66	68	71	5	SSW	0.4	8	SSW	80	83	83	92	0	0	601	4.31	612	0	4	0.1	4	0	0.054
10:50 AM	30.08	80	80	80	64	67	70	3	SSW	0.2	8	S	80	82	82	92	0	0	593	4.25	628	0	4	0.1	4	0	0.052
10:55 AM	30.08	80	81	80	64	67	70	2	SSE	0.2	4	S	80	83	83	93	0	0	600	4.3	613	0	4	0.2	4	0	0.053
11:00 AM	30.08	81	81	81	64	67	71	2	S	0.2	4	S	81	83	83	93	0	0	595	4.27	638	0.02	4	0.2	4	0	0.055
11:05 AM	30.08	81	82	81	63	67	71	2	SE	0.2	5	SE	81	84	84	95	0	0	595	4.27	622	0	4	0.2	5	0	0.056
11:10 AM	30.08	82	83	81	62	68	71	2	S	0.2	4	ESE	82	85	85	97	0	0	620	4.45	643	0	5	0.2	5	0	0.059
11:15 AM	30.08	82	83	82	61	67	70	3	SE	0.2	5	S	82	84	84	95	0	0	639	4.58	656	0	5	0.2	5	0	0.058
11:20 AM	30.08	82	83	82	60	67	70	3	SSW	0.2	8	WSW	82	84	84	98	0	0	657	4.71	710	0	5	0.2	5	0	0.059
11:25 AM	30.08	84	85	83	53	65	69	1	SSW	0.1	4	WSW	84	85	85	99	0	0	668	4.79	703	0	5	0.2	5	0	0.064
11:30 AM	30.07	86	87	86	49	65	69	3	W	0.2	7	WNW	86	89	89	100	0	0	637	4.57	664	0	5	0.2	5	0	0.075
11:35 AM	30.07	87	87	87	49	66	70	2	NNE	0.2	6	W	87	89	89	101	0	0	596	4.27	626	0	5	0.2	5	0	0.077
11:40 AM	30.08	87	87	86	52	67	71	2	SW	0.2	4	SW	87	90	90	99	0	0	662	4.75	694	0	5	0.2	5	0	0.075
11:45 AM	30.08	85	85	84	52	65	69	4	S	0.3	9	W	85	87	87	98	0	0	602	4.32	656	0	5	0.2	5	0	0.068

11:50 AM	30.08	85	86	85	50	65	69	3	WSW	0.2	10	WSW	85	87	87	98	0	0	533	3.82	571	0	4	0.2	5	0	0.07
11:55 AM	30.07	86	86	85	51	66	70	1	SW	0.1	3	SSW	86	88	88	97	0	0	436	3.13	506	0	4	0.1	4	0	0.073
12:00 PM	30.07	84	86	84	52	65	69	4	WSW	0.3	10	SW	84	86	86	95	0	0	427	3.06	446	0.02	4	0.1	4	0	0.068
12:05 PM	30.07	84	85	84	51	64	69	1	SW	0.1	3	SW	84	86	86	95	0	0	408	2.93	422	0	4	0.1	4	0	0.068
12:10 PM	30.07	86	86	85	52	66	70	2	W	0.2	8	NW	86	88	88	96	0	0	362	2.6	381	0	4	0.1	4	0	0.072
12:15 PM	30.07	85	86	85	52	66	70	3	NW	0.2	6	NNW	85	87	87	94	0	0	355	2.55	366	0	3	0.1	4	0	0.07
12:20 PM	30.07	84	85	84	53	65	69	2	SSW	0.2	3	NNW	84	86	86	94	0	0	338	2.42	345	0	3	0.1	3	0	0.067
12:25 PM	30.07	83	84	83	56	66	70	1	SE	0.1	3	SE	83	85	85	91	0	0	346	2.48	383	0	4	0.1	4	0	0.064
12:30 PM	30.06	82	83	82	57	66	69	2	SSE	0.2	4	SSW	82	84	84	92	0	0	381	2.73	399	0	4	0.1	4	0	0.061
12:35 PM	30.07	83	83	82	56	65	69	4	S	0.3	8	SSW	83	85	85	93	0	0	418	3	446	0	4	0.1	4	0	0.061
12:40 PM	30.06	83	83	83	58	66	70	5	S	0.4	8	SSW	83	85	85	94	0	0	476	3.41	508	0	5	0.2	5	0	0.061
12:45 PM	30.06	82	83	82	57	66	69	6	S	0.5	10	S	82	84	84	92	0	0	429	3.08	529	0	4	0.2	5	0	0.06
12:50 PM	30.06	82	82	82	57	65	69	4	SSW	0.3	7	SW	82	84	84	94	0	0	687	4.93	737	0	5	0.2	6	0	0.06
12:55 PM	30.07	84	87	82	53	65	70	1	SW	0.1	4	SW	84	87	87	101	0	0	662	4.75	722	0	6	0.2	6	0	0.068
1:00 PM	30.07	87	88	86	52	67	71	3	SW	0.2	6	SW	87	90	90	101	0	0	728	5.22	765	0.02	6	0.2	6	0	0.076
1:05 PM	30.07	84	86	84	57	68	71	6	SE	0.5	9	SE	84	88	88	99	0	0	685	4.91	710	0	6	0.2	6	0	0.068
1:10 PM	30.07	83	84	83	56	66	70	5	SE	0.4	9	SE	83	86	86	99	0	0	729	5.23	745	0	6	0.2	6	0	0.064
1:15 PM	30.07	84	84	84	55	66	70	5	SE	0.4	9	SE	84	86	86	98	0	0	702	5.03	758	0	6	0.2	6	0	0.065
1:20 PM	30.07	84	84	84	55	66	70	5	SE	0.4	10	SE	84	86	86	99	0	0	707	5.07	719	0	6	0.2	6	0	0.066
1:25 PM	30.07	84	84	84	57	67	71	5	SE	0.4	9	SE	84	87	87	99	0	0	737	5.28	758	0	6	0.2	6	0	0.066
1:30 PM	30.07	84	84	84	54	65	69	5	SSE	0.4	8	SSE	84	86	86	98	0	0	680	4.88	724	0	6	0.2	6	0	0.065
1:35 PM	30.07	84	85	84	53	65	69	3	ESE	0.2	5	SE	84	86	86	99	0	0	711	5.1	749	0	6	0.2	6	0	0.067
1:40 PM	30.07	85	85	84	54	66	70	3	SE	0.2	5	SE	85	87	87	100	0	0	694	4.98	733	0	6	0.2	6	0	0.068
1:45 PM	30.07	85	86	85	51	65	69	3	S	0.2	11	S	85	87	87	100	0	0	672	4.82	708	0	6	0.2	6	0	0.071
1:50 PM	30.07	86	87	85	52	66	70	6	WSW	0.5	17	W	86	88	88	101	0	0	659	4.73	714	0	6	0.2	6	0	0.072
1:55 PM	30.07	88	89	87	48	66	70	6	WSW	0.5	10	W	88	91	91	102	0	0	672	4.82	698	0	6	0.2	6	0	0.081
2:00 PM	30.07	88	88	87	49	66	70	3	WSW	0.2	7	WSW	88	90	90	103	0	0	666	4.78	719	0.02	6	0.2	6	0	0.078
2:05 PM	30.06	88	88	86	51	67	71	3	SE	0.2	8	SE	88	91	91	100	0	0	646	4.63	714	0	6	0.2	6	0	0.078
2:10 PM	30.06	85	86	85	55	67	71	4	SSE	0.3	8	SE	85	89	89	101	0	0	725	5.2	749	0	6	0.2	6	0	0.071
2:15 PM	30.07	85	86	85	52	65	70	5	SSE	0.4	8	SSW	85	87	87	99	0	0	713	5.11	749	0	6	0.2	6	0	0.07
2:20 PM	30.06	84	85	84	52	65	69	5	SSW	0.4	8	SW	84	86	86	99	0	0	697	5	708	0	6	0.2	6	0	0.067
2:25 PM	30.06	85	85	84	53	66	70	5	SSE	0.4	11	S	85	87	87	99	0	0	704	5.05	735	0	6	0.2	6	0	0.068
2:30 PM	30.07	85	85	84	54	66	70	5	SSE	0.4	10	S	85	87	87	100	0	0	763	5.47	788	0	6	0.2	6	0	0.069
2:35 PM	30.07	87	88	85	53	67	71	5	SE	0.4	11	SE	87	90	90	101	0	0	700	5.02	744	0	6	0.2	6	0	0.075
2:40 PM	30.06	85	86	85	54	67	71	5	SE	0.4	13	S	85	88	88	101	0	0	776	5.56	805	0	6	0.2	6	0	0.071
2:45 PM	30.06	85	86	85	55	67	71	5	SSE	0.4	10	S	85	88	88	100	0	0	795	5.7	816	0	6	0.2	6	0	0.07
2:50 PM	30.06	85	85	85	53	66	70	6	SSW	0.5	11	SSE	85	88	88	99	0	0	625	4.48	642	0	5	0.2	5	0	0.07
2:55 PM	30.06	86	87	85	54	68	72	3	SSE	0.2	7	SE	86	90	90	99	0	0	531	3.81	621	0	4	0.1	4	0	0.074
3:00 PM	30.05	85	86	84	54	67	70	4	S	0.3	10	SE	85	88	88	97	0	0	605	4.34	800	0.02	5	0.2	6	0	0.07
3:05 PM	30.05	85	85	84	54	66	70	5	SE	0.4	9	SE	85	87	87	98	0	0	532	3.81	559	0	4	0.2	4	0	0.069
3:10 PM	30.05	85	85	84	55	67	70	6	SE	0.5	10	SE	85	87	87	98	0	0	438	3.14	438	0	4	0.1	5	0	0.068
3:15 PM	30.04	85	85	84	57	68	71	3	SE	0.2	5	SE	85	88	88	98	0	0	534	3.83	664	0	4	0.1	4	0	0.068
3:20 PM	30.04	85	85	85	55	67	71	6	SE	0.5	9	SW	85	88	88	99	0	0	652	4.68	742	0	5	0.2	5	0	0.07
3:25 PM	30.04	85	86	85	54	67	71	2	SE	0.2	8	S	85	88	88	100	0	0	589	4.22	680	0	4	0.1	4	0	0.07
3:30 PM	30.04	86	87	85	54	68	72	4	SSE	0.3	9	S	86	90	90	97	0	0	462	3.31	526	0	4	0.1	4	0	0.074
3:35 PM	30.04	85	86	85	55	67	71	4	SSW	0.3	7	S	85	88	88	98	0	0	578	4.14	578	0	4	0.1	5	0	0.07
3:40 PM	30.03	87	87	86	53	67	71	3	SE	0.2	10	SE	87	90	90	100	0	0	517	3.71	591	0	4	0.1	4	0	0.075
3:45 PM	30.03	86	87	85	54	67	71	7	SE	0.6	12	SW	86	89	89	100	0	0	644	4.62	726	0	4	0.1	4	0	0.072
3:50 PM	30.03	86	86	85	54	67	71	6	S	0.5	11	S	86	89	89	101	0	0	601	4.31	715	0	4	0.1	4	0	0.072
3:55 PM	30.03	85	86	85	56	68	71	7	S	0.6	12	S	85	88	88	98	0	0	593	4.25	624	0	4	0.1	4	0	0.07
4:00 PM	30.03	85	85	85	55	67	71	7	SW	0.6	11	WSW	85	88	88	98	0	0	472	3.38	548	0.02	3	0.1	4	0	0.07
4:05 PM	30.03	86	86	85	53	66	70	6	SW	0.5	12	SW	86	88	88	98	0	0	480	3.44	534	0	3	0.1	3	0	0.071
4:10 PM	30.03	87	87	86	54	68	72	4	SSW	0.3	9	SSE	87	90	90	97	0	0	416	2.98	431	0	3	0.1	3	0	0.075
4:15 PM	30.03	86	86	85	56	68	72	4	SSE	0.3	9	SSE	86	89	89	98	0	0	431	3.09	503	0	3	0.1	3	0	0.071
4:20 PM	30.03	86	87	86	52	67	71	5	SSW	0.4	11	S	86	89	89	95	0	0	375	2.69	408	0	2	0.1	3	0	0.074
4:25 PM	30.03	85	86	84	56	68	71	6	SSE	0.5	10	SSE	85	88	88	93	0	0	288	2.07	360	0	2	0.1	2	0	0.069
4:30 PM	30.03	85	85	84	57	68	71	4	S	0.3	6	SSE	85	88	88	95	0	0	341	2.45	388	0	2	0.1	2	0	0.068

4:35 PM	30.03	85	85	85	59	69	72	8	S	0.7	12	S	85	89	89	96	0	0	371	2.66	422	0	2	0.1	2	0	0.069
4:40 PM	30.03	84	85	84	59	68	72	8	SSW	0.7	14	SSW	83	87	87	94	0	0	344	2.47	362	0	2	0.1	2	0	0.066
4:45 PM	30.03	84	84	84	59	68	72	6	S	0.5	9	S	84	88	88	94	0	0	347	2.49	359	0	2	0.1	2	0	0.067
4:50 PM	30.03	84	84	84	58	68	71	7	S	0.6	10	S	84	87	87	94	0	0	301	2.16	325	0	2	0.1	2	0	0.066
4:55 PM	30.03	84	84	84	60	68	72	9	S	0.8	16	SSE	83	87	86	92	0	0	298	2.14	364	0	2	0.1	2	0	0.065
5:00 PM	30.04	83	84	82	64	69	72	12	S	1	19	S	81	87	85	88	0	0	308	2.21	359	0.01	2	0.1	2	0	0.062
5:05 PM	30.03	82	82	81	66	69	72	9	SSW	0.8	13	S	81	85	84	85	0	0	222	1.59	229	0	2	0.1	2	0	0.058
5:10 PM	30.03	81	82	81	66	69	72	6	S	0.5	8	SSW	81	85	85	88	0	0	203	1.46	213	0	1	0.1	2	0	0.057
5:15 PM	30.02	81	82	81	66	69	72	7	S	0.6	14	SW	81	85	85	87	0	0	168	1.2	183	0	1	0	1	0	0.057
5:20 PM	30.03	81	81	81	67	69	72	9	S	0.8	15	S	80	84	83	86	0	0	143	1.03	151	0	1	0	1	0	0.056
5:25 PM	30.03	80	81	80	69	69	72	8	S	0.7	14	S	79	83	83	83	0	0	135	0.97	135	0	1	0	1	0	0.053
5:30 PM	30.03	80	80	80	68	69	71	5	S	0.4	9	S	80	83	83	84	0	0	133	0.95	135	0	1	0	1	0	0.053
5:35 PM	30.03	80	80	80	68	69	71	5	S	0.4	9	S	80	83	83	85	0	0	134	0.96	137	0	1	0	1	0	0.053
5:40 PM	30.03	80	80	80	69	69	72	6	S	0.5	9	S	80	83	83	85	0	0	136	0.98	139	0	1	0	1	0	0.053
5:45 PM	30.02	80	80	80	68	69	71	8	SSW	0.7	13	S	79	83	82	85	0	0	127	0.91	130	0	1	0	1	0	0.053
5:50 PM	30.03	80	80	80	68	68	71	9	S	0.8	14	SSE	79	82	81	83	0	0	155	1.11	178	0	1	0	1	0	0.051
5:55 PM	30.02	80	80	80	69	69	71	8	S	0.7	12	SSW	79	82	81	83	0	0	205	1.47	251	0	1	0	1	0	0.051
6:00 PM	30.02	80	80	80	69	69	71	8	S	0.7	12	S	79	82	81	86	0	0	264	1.89	285	0.01	1	0	1	0	0.051
6:05 PM	30.02	80	80	80	68	68	71	7	S	0.6	10	S	80	83	83	86	0	0	246	1.76	272	0	1	0	1	0	0.052
6:10 PM	30.03	80	80	80	68	69	71	7	S	0.6	13	SSE	80	83	83	85	0	0	192	1.38	207	0	1	0	1	0	0.053
6:15 PM	30.03	80	80	80	68	69	72	8	S	0.7	12	S	80	83	83	86	0	0	222	1.59	229	0	1	0	1	0	0.053
6:20 PM	30.03	80	80	80	68	69	72	8	S	0.7	12	S	80	83	83	85	0	0	193	1.38	209	0	1	0	1	0	0.053
6:25 PM	30.02	80	80	80	65	67	70	10	S	0.8	14	S	79	83	81	82	0	0	147	1.05	162	0	1	0	1	0	0.053
6:30 PM	30.03	80	80	80	65	67	70	9	S	0.8	15	SSE	79	82	81	81	0	0	121	0.87	125	0	1	0	1	0	0.052
6:35 PM	30.03	80	80	79	67	68	70	9	S	0.8	15	S	78	82	81	81	0	0	114	0.82	114	0	1	0	1	0	0.05
6:40 PM	30.03	79	79	79	69	68	71	8	S	0.7	12	SSE	78	81	81	80	0	0	105	0.75	109	0	0	0	0	0	0.049
6:45 PM	30.03	79	79	79	69	68	71	7	S	0.6	13	SSE	79	81	81	81	0	0	93	0.67	98	0	0	0	0	0	0.048
6:50 PM	30.03	79	79	79	69	68	70	5	S	0.4	8	S	79	81	81	82	0	0	83	0.6	86	0	0	0	0	0	0.048
6:55 PM	30.03	79	79	79	69	68	70	4	S	0.3	7	SSW	79	81	81	81	0	0	73	0.52	77	0	0	0	0	0	0.048
7:00 PM	30.03	79	79	79	70	68	71	4	SSE	0.3	7	S	79	81	81	81	0	0	60	0.43	65	0.01	0	0	0	0	0.048
7:05 PM	30.03	78	79	78	70	68	70	5	S	0.4	8	S	78	81	81	81	0	0	51	0.37	54	0	0	0	0	0	0.047
7:10 PM	30.03	78	78	78	71	68	71	4	SE	0.3	9	SE	78	81	81	81	0	0	45	0.32	47	0	0	0	0	0	0.047
7:15 PM	30.03	78	78	78	72	69	71	3	SSE	0.2	7	SE	78	81	81	81	0	0	40	0.29	42	0	0	0	0	0	0.046
7:20 PM	30.03	78	78	78	72	68	71	4	SSE	0.3	7	SE	78	80	80	79	0	0	32	0.23	35	0	0	0	0	0	0.045
7:25 PM	30.04	78	78	78	72	68	70	7	SSW	0.6	11	SSW	78	80	80	79	0	0	26	0.19	28	0	0	0	0	0	0.044
7:30 PM	30.04	78	78	78	72	68	70	5	SSW	0.4	9	SW	78	80	80	79	0	0	22	0.16	23	0	0	0	0	0	0.044
7:35 PM	30.04	78	78	77	73	68	71	5	SSE	0.4	8	S	78	80	80	79	0	0	21	0.15	23	0	0	0	0	0	0.044
7:40 PM	30.04	77	78	77	74	68	71	5	S	0.4	8	S	77	80	80	79	0	0	17	0.12	19	0	0	0	0	0	0.043
7:45 PM	30.04	77	77	77	74	68	70	7	SSW	0.6	11	S	77	79	79	78	0	0	11	0.08	14	0	0	0	0	0	0.042
7:50 PM	30.04	77	77	77	74	68	70	7	SSW	0.6	9	SW	77	79	79	77	0	0	7	0.05	9	0	0	0	0	0	0.041
7:55 PM	30.05	77	77	77	73	68	70	7	SW	0.6	11	SW	77	79	79	77	0	0	2	0.01	5	0	0	0	0	0	0.042
8:00 PM	30.05	77	77	77	73	68	70	7	WSW	0.6	12	WSW	77	79	79	77	0	0	0	0	0	0	0	0	0	0	0.042
8:05 PM	30.05	77	77	77	74	68	70	6	WSW	0.5	10	WSW	77	79	79	77	0	0	0	0	0	0	0	0	0	0	0.041
8:10 PM	30.04	77	77	77	73	68	70	6	WSW	0.5	11	W	77	79	79	78	0	0	0	0	0	0	0	0	0	0	0.041
8:15 PM	30.03	77	77	77	73	68	70	6	WSW	0.5	12	WSW	77	79	79	77	0	0	0	0	0	0	0	0	0	0	0.041
8:20 PM	30.04	77	77	77	73	67	70	5	WSW	0.4	9	W	77	79	79	77	0	0	0	0	0	0	0	0	0	0	0.041
8:25 PM	30.03	76	77	76	73	67	70	2	WSW	0.2	4	WSW	76	78	78	78	0	0	0	0	0	0	0	0	0	0	0.04
8:30 PM	30.03	77	77	76	73	67	70	4	W	0.3	6	W	77	79	79	78	0	0	0	0	0	0	0	0	0	0	0.041
8:35 PM	30.03	76	76	76	74	67	70	4	WNW	0.3	7	W	76	78	78	77	0	0	0	0	0	0	0	0	0	0	0.039
8:40 PM	30.03	76	76	76	75	67	69	5	NNW	0.4	8	NNW	76	78	78	77	0	0	0	0	0	0	0	0	0	0	0.038
8:45 PM	30.03	76	76	76	75	67	69	4	NW	0.3	7	WNW	76	78	78	77	0	0	0	0	0	0	0	0	0	0	0.037
8:50 PM	30.03	76	76	76	75	67	69	3	NW	0.2	5	NNW	76	78	78	77	0	0	0	0	0	0	0	0	0	0	0.037
8:55 PM	30.03	75	76	75	76	67	69	1	NNE	0.1	3	NNE	75	77	77	77	0	0	0	0	0	0	0	0	0	0	0.036
9:00 PM	30.03	75	75	75	77	67	69	2	ESE	0.2	5	SE	75	77	77	77	0	0	0	0	0	0	0	0	0	0	0.035
9:05 PM	30.03	75	75	75	78	68	70	4	SSE	0.3	6	SE	75	77	77	76	0	0	0	0	0	0	0	0	0	0	0.035
9:10 PM	30.04	75	75	74	78	67	69	3	SSE	0.2	7	SE	75	76	76	76	0	0	0	0	0	0	0	0	0	0	0.033
9:15 PM	30.05	74	74	74	78	67	69	5	SW	0.4	8	SW	74	76	76	75	0	0	0	0	0	0	0	0	0	0	0.032

9:20 PM	30.05	74	74	74	79	67	69	5	W	0.4	8	WSW	74	76	76	75	0	0	0	0	0	0	0	0	0	0	0.032
9:25 PM	30.05	74	74	74	79	67	69	8	W	0.7	11	W	73	76	75	75	0	0	0	0	0	0	0	0	0	0	0.032
9:30 PM	30.06	74	74	74	80	68	69	4	W	0.3	11	W	74	76	76	75	0	0	0	0	0	0	0	0	0	0	0.032
9:35 PM	30.06	74	74	74	81	68	69	4	W	0.3	7	WSW	74	76	76	75	0	0	0	0	0	0	0	0	0	0	0.031
9:40 PM	30.06	74	74	74	81	68	69	3	WSW	0.2	7	W	74	76	76	75	0	0	0	0	0	0	0	0	0	0	0.031
9:45 PM	30.07	74	74	74	81	68	69	4	WSW	0.3	6	SW	74	76	76	75	0	0	0	0	0	0	0	0	0	0	0.03
9:50 PM	30.07	74	74	74	81	67	69	3	WSW	0.2	5	SW	74	75	75	74	0	0	0	0	0	0	0	0	0	0	0.03
9:55 PM	30.07	73	73	73	82	67	69	3	WSW	0.2	5	SW	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:00 PM	30.07	73	73	73	82	67	69	4	S	0.3	6	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:05 PM	30.06	73	73	73	83	68	69	4	S	0.3	6	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:10 PM	30.06	73	73	73	83	68	69	4	SSE	0.3	9	SE	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:15 PM	30.06	73	73	73	83	68	69	4	SSE	0.3	7	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:20 PM	30.06	73	73	73	83	68	69	3	SSE	0.2	7	SE	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:25 PM	30.06	73	73	73	82	67	69	4	S	0.3	7	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:30 PM	30.06	73	73	73	82	67	69	4	S	0.3	6	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:35 PM	30.06	73	73	73	83	67	69	4	SSW	0.3	6	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.027
10:40 PM	30.05	73	73	73	83	67	69	4	SSW	0.3	6	SW	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.027
10:45 PM	30.05	73	73	73	83	68	69	3	SSE	0.2	5	SSW	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.028
10:50 PM	30.05	73	73	73	84	68	69	2	S	0.2	4	SSE	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
10:55 PM	30.05	73	73	73	83	67	69	3	S	0.2	5	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:00 PM	30.05	73	73	73	84	68	69	3	S	0.2	5	S	73	75	75	74	0	0	0	0	0	0	0	0	0	0	0.027
11:05 PM	30.05	73	73	73	84	68	69	2	SSE	0.2	4	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:10 PM	30.05	73	73	73	84	68	69	3	SSE	0.2	5	SSE	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:15 PM	30.05	73	73	73	84	68	69	3	S	0.2	5	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:20 PM	30.05	73	73	73	84	68	69	4	S	0.3	5	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:25 PM	30.05	73	73	73	84	68	69	4	S	0.3	6	SSE	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:30 PM	30.06	73	73	73	84	68	69	3	SSE	0.2	7	S	73	75	75	73	0	0	0	0	0	0	0	0	0	0	0.027
11:35 PM	30.06	72	73	72	85	68	69	3	SSE	0.2	8	SE	72	74	74	73	0	0	0	0	0	0	0	0	0	0	0.026
11:40 PM	30.06	72	72	72	85	68	69	4	SE	0.3	9	SE	72	74	74	73	0	0	0	0	0	0	0	0	0	0	0.026
11:45 PM	30.06	72	72	72	85	68	69	5	SE	0.4	8	SE	72	74	74	73	0	0	0	0	0	0	0	0	0	0	0.025
11:50 PM	30.06	72	72	72	85	67	69	4	SE	0.3	9	SE	72	74	74	73	0	0	0	0	0	0	0	0	0	0	0.025
11:55 PM	30.06	72	72	72	86	68	69	3	SSE	0.2	8	SE	72	74	74	73	0	0	0	0	0	0	0	0	0	0	0.024
12:00 AM	30.06	72	72	72	86	68	69	4	SE	0.3	7	SE	72	74	74	73	0	0	0	0	0	0	0	0	0	0	0.024

13.0 CONSTRUCTION/DEMOLITION WASTE AND RECYCLING PROGRAM

The annual review of Construction/Demolition Waste and Recycling Program was prepared by SMI. SMI's report summarizes program activities for 2021 as required by SMI's 6 NYCRR Part 360-62(A.)(B.)(C.) Operating Permit and is included in this section of the Report.

SENECA MEADOWS, INC.

CONSTRUCTION/DEMOLITION WASTE AND RECYCLING PROGRAMS

IN ACCORDANCE WITH THE PERMIT CONDITION 6 NYCRR PART 360-62(A.) (B.) (C.)

February 2022

SECTION 1

INTRODUCTION

Seneca Meadows, Inc. (SMI) owns and operates a New York State permitted 6 NYCRR Part 360 Solid Waste facility in the Town of Seneca Falls, Seneca County, New York. The New York State Department of Environmental Conversation (NYSDEC) issued a Part 360 landfill permit (Permit ID 8-4532-00023/00001-0) for expansion of the Seneca Meadows landfill on August 7, 2007, modified November 26, 2008, and renewed October 31, 2017.

Condition 62.a(1) of the NYSDEC 6NYCRR Part 360 Permit requires that SMI construct a Community Education Center and staff it up to 20 hours per week for environmental and waste (reduction reuse, recycling, and composting techniques) related classes.

The Center opened in the Fall 2008 and includes a fully equipped science laboratory and an educational exhibit room; housed in a gold level LEED (Leadership in Energy & Environmental Design) certified building. Programming for the Center includes:

1. Adult and children's programs that educate the local community on environmental issues through entertaining events and activities;
2. High school science programs that satisfy State standards and enhance curriculums by giving students' hands-on field and laboratory experience in the study of a brook, pond and wetlands that surround the Center.

Condition 62.a(2) of the NYSDEC 6NYCRR Part 360 Permit (*Fund a staff position for environmental educational outreach*)

Staffing of the Seneca Meadows Environmental Education Center is provided through a partnership with the Montezuma Audubon Center and SMI's on staff, full-time Public Relations and Environmental Program Coordinator.

Condition 62.a(3) (*Provide technical assistance to the University of Buffalo's Center for integrated waste management with respect to the reuse of waste tire chips*)

The NYS Tire Derived Aggregate (TDA) Program was established at the UB Center for Integrated Waste Management through the support of the New York State Department of Economic Development, Empire State Development. The NYS TDA Program is designed to help the state fulfill its priorities for scrap tire management as set forth in the New York State Tire Management & Recycling Act of 2003. *(This mission of the New York State Tire Derived Aggregate Program is to expand the beneficial use of recycled tire products in civil engineering applications through Education, Research and Product Development Support.)*

As a member of the Technical Advisory Board (TAB), SMI has served as an important resource to help the NYS TDA Program carry out its mission along with a select group of representatives from the tire industry, state agencies, local government and academia members.

SMI has hosted numerous meetings for the Technical Advisory Board and has been a major sponsor for its annual conference as well as hosting a technical training course on the use of TDA in septic systems. This included hosting field construction demonstrations on using TDA in the installation of residential on-site wastewater treatment systems and the adoption of NYS specifications/standards for their usage. This group has been disbanded with the completion of the identified scoped issues and priorities, which were previously established in its mission statement.

Condition 62.a(4) (*Identify additional opportunities to further beneficially utilize waste tire chips in civil engineering applications*)

Tire Chip Re-Use Practices

SMI's tire processing facility (TPF) aids in the management of waste tires in the state of New York, where waste tires have been identified by the NYSDEC as an area where additional program effort and resources are needed. The TPF is registered with the NYSDEC as a manufacturing facility which uses tires in the manufacture of a new product. The TPF includes a tire shredder and derimmer, interim storage areas for whole tires and tire chips, a contingency storage area, a roll-off or other appropriate container for recyclable tires, and a stormwater containment system. Tire chips/shreds

are a recognized product with multiple beneficial uses. SMI has received approval for the use of tire chips for various functions including:

- As a substitute for the top 12 inches of the primary soil drainage layer in the leachate collection system.
- As backfill for the landfill gas collection piping.
- As daily cover on the sloping portions of the working face of the landfill (but restricted from the outside slopes of the landfill).
- As an aggregate for road base materials or asphalt pavements.
- As use as a lightweight fill for embankments.
- Lightweight backfill for residential foundation.

As shown above, tire chips provide an effective substitute for natural materials and conserve valuable natural resources.

In addition to the Tire Processing Facility, SMI on occasion will rent a mobile tire shredder which can be used to process tires at the working face. All waste tires need to be derimmed before processing at the facility. The rims removed from the tires are collected and shipped offsite for metal recycling.

Recognized markets for the use of tire chips also exist in other areas. Shredded tires and tire chips have been used successfully in civil engineering for many years as an aggregate for road base materials and similar applications.

In 2009, SMI worked with the Board, initiated a live scale demonstration project, used tire chips as a foundation backfill on a new construction residential home in lieu of natural stone material. This demonstration was to assess the long-term settlement and insulation value of this product and determine its long-range benefits (refer to the overview that follows). The data collection has been completed; the analysis and their findings are being readied for future technical papers.

Condition 62.b of the NYSDEC 6NYCRR Part 360 Permit (*SMI to sponsor at least two Household Hazardous Waste (HHHW) collection days annually*)

SMI is involved in the HHHW Day for both the Seneca County Department of Health (SCDOH) and the joint Town of Seneca Falls and Waterloo events. SMI provides technical support and coordination, staffing, waste disposal services, safety equipment, advertising, tire collection/recycling, and financial assistance for these community events based on the event's needs.

The Towns of Seneca Falls and Waterloo have decided to postpone the annual events due to declining volumes of material received. They will schedule future events on an as-needed basis. SMI has set up drop-off locations to accept electronics, batteries, cell phones, tires, and source separate recyclables at the facility on Saturday's and Sunday's.

Condition 62.c of the NYSDEC 6NYCRR Part 360 Permit requires that:

SMI develop a "Construction and Demolition Waste Recycling Program" that would be designed to minimize the use of natural earth materials as daily cover, to the extent practicable. Specifically, this permit condition requires that a construction and demolition (C&D) debris management plan be developed to evaluate equipment and handling procedures to maximize the beneficial reuse of C&D debris for landfill construction and operation.

Minimization of the use of natural earthen materials for daily cover is not limited to the management of C&D material, as C&D material represents only a portion of the approved materials that are suitable for use as alternative daily cover (i.e., beneficial use determination (BUD) materials). Moreover, additional material handling practices are currently implemented at the SMI landfill which result in the minimization of natural resource use (i.e., use of tire chips as landfill leachate collection system drainage material and as a BUD daily cover). As such, while this plan addresses C&D debris management it also integrates other SMI practices which serve to minimize the use of natural resources.

The section that follows constitutes a plan for beneficial reuse material management for the goal of natural resource minimization.

SECTION 2

WASTE ACCEPTANCE PRACTICES

SMI, under its current operating permit, is permitted to accept an annualized average of 6,000 tons of solid waste per operating day, excluding BUD material. The incoming waste stream to the landfill is comprised of mixed municipal solid waste, construction and demolition debris, non-hazardous sludges, and various types of industrial wastes. In addition, other non-hazardous waste streams are accepted in accordance with the SMI waste approval process. The waste acceptance data from the 2021 annual report prepared in accordance with the facility's Part 360 permit indicates the following general breakdown of beneficial use materials used on site:

Table 2-1
BUDs Utilized by Category

Operational BUDs	Grand Total	Daily Average (tons)
Ash	-	-
Auto Fluff	2,558.9	7.1
Processed C&D	213,885.9	595.8
Contaminated Soil	34,841.2	97.1
Foundry Sand	-	-
Hard Fill	-	-
Paper Sludge	-	-
Industrial Waste-Other	268.1	0.7
Industrial Ash	179.3	0.5
B/R Tire Cover	11,879.6	33.1
Yard Debris	573.8	1.6
Z9500 (Tire Chips for Cover)	-	-
TOTAL	**264,187.0**	**735.9**
Construction BUDs		
Tire Chips Processed for Construction Related Activities*	1,328	
GRAND TOTAL	**265,515**	

* Reported quarterly/annually for tire facility registration #50K03

Number of working days 359.0

SMI expects the distribution of incoming materials suitable for beneficial use for the continued operation of the landfill under the Part 360 permit issued for the expansion to be similar to what has previously been reported; however, the availability of tires to be processed is less certain.

The following sections describe SMI's acceptance practices for controlling the beneficial waste material and the various materials, not accounted for in the above list, which can be beneficially used in the construction and operation of the landfill. SMI maintains a complete Operations, Maintenance, and Monitoring Plan for the facility, in accordance with the terms of its Part 360 operating permit.

2.1 BENEFICIAL USE DETERMINATION MATERIAL

A Beneficial Use Determination (BUD) is a designation made by the NYSDEC as to whether a waste material which is to be beneficially used is governed by the Part 360 Solid Waste Management Facilities regulations. Materials that are granted BUD status are no longer considered solid waste and their associated volume is not counted towards the receiving facility's daily permitted waste acceptance rate. Sixteen pre-determined BUDs are listed in 6 NYCRR Part 360-1.15(b). The items listed in Part 360-1.15(b) are not self-implementing and may require a Part 360 permit or demonstration testing and approval from the NYSDEC before they can be used as BUDs. Pre-determined BUDs include the following types of materials:

- Unadulterated wood chips
- Uncontaminated newspaper and glass
- Uncontaminated, non-hazardous soils
- Fly ash
- Tire chips used as aggregate for road base materials or asphalt pavement

In addition to the pre-determined BUDs described above, generators and potential users can petition the NYSDEC for a case-specific BUD. The material must have a proposed use that constitutes a beneficial use based on the criteria outlined in Subpart 360-1.15(d). To be designated as a BUD, in general, the nature of the proposed use of the material must constitute reuse rather than disposal. In addition, the material must be intended to function or to serve as an effective substitute for an analogous raw material. SMI has received approval in their Part 360 permit in Condition 48(b) for the following waste streams to be beneficially used as daily cover material:

- Construction and Demolition (C&D) Debris
- Shredder Fluff
- Contaminated soil (which is not classified as hazardous waste)
- Coal Bottom Ash
- Resource Recovery Ash
- Paper Processing Sludge
- Chipped Tires
- Foundry Sand
- N-Viro Soil

The use of the above materials as daily cover and stone substitutes reduces the need for the use of natural earthen materials at the landfill. In addition, the use of these materials at the SMI landfill provides for safe and effective permanent re-use of these materials.

SECTION 3

BENEFICIAL REUSE PROGRAM

SMI uses and will continue to use various practices at the SMI landfill to minimize the use of natural resources, including the use of BUDs, waste tire chips, and yard waste. The sections below describe these practices.

3.1 BENEFICIAL USE DETERMINATION MATERIAL PRACTICES

3.1.1 General

To successfully implement a program for beneficial reuse of waste materials, first requires that a dependable supply of such materials be available at the landfill. Seneca Meadows marketing department actively pursues available beneficial use materials to provide such a supply. The BUD market is a competitive, "spot market" where different materials with beneficial uses are available during certain times of the year or based on projects that generate such materials. For example, waste such as contaminated soil and construction and demolition debris are generated on a project-by-project basis. As such, the Seneca Meadows marketing staff maintains customer relations and solicits landfill disposal and hauling services in order to be in the position to receive these materials, once they become available, to offset the use of natural resources for landfill construction and operations. SMI continuously maintains marketing efforts for alternative daily cover materials.

SMI currently obtains daily cover material from NYSDEC permitted local borrow pits in proximity to the landfill. BUD material is used on-site as an alternative to native soil for daily cover. At the end of each operating day, a minimum of 6 inches of BUD material or soil is placed over the exposed waste to control vectors, fires, odors, blowing litter and scavenging. In general, daily cover BUD materials consist of materials which can readily drain standing water. Placement of these BUD materials is confined to areas of the landfill that overlay a leachate collection system or as limited in the permit conditions for the approved material usage. Run-off and run-on controls, such as berms and swales, are placed around storage areas to control the potential for erosion of BUD materials into surrounding drainage features.

In the past, BUD materials used for daily cover were covered with additional waste or clean soil within 24 hours of placement, in accordance with the landfill's Part 360 permit requirements. Based on SMI's successful implementation of BUD materials as a daily cover, SMI requested and the NYSDEC approved an extension of this timing requirement for placement of additional waste or clean soil to 48 hours after BUD material placement. This results in a further reduction of use of clean soil, particularly for weekends. For example, formerly BUDs placed as daily cover on Saturday morning would have required the placement of additional clean soil before the receipt of waste on the following Monday. With the 48-hour time frame, the use of the clean soil cover can be eliminated and waste placement simply resume on Monday morning over the previously placed BUD daily cover.

Specific waste streams that have been approved for beneficial use as daily cover at the SMI landfill and usage practices are presented below.

3.1.2 Construction and Demolition (C&D) Debris

Construction and demolition debris practices will be optimized for use of this material as an alternative daily cover. These practices may be summarized as follows:

- Incoming material identified as construction and demolition debris is weighed and directed to a designated processing area on the landfill. BUD materials are used only on existing landfill areas that are lined and have an installed leachate collection system.
- Unacceptable materials and tires are sorted and placed into roll-offs, eventually being sent to outside vendors for proper handling and/or recycling (where practical).
- Larger C&D material is then crushed on site utilizing landfilling equipment. As is discussed in more detail subsequently, SMI maintains compaction equipment among the most effective available in the industry, which is equally effective in the processing of C&D debris so that it can be used as alternative daily cover with a minimum of residuals that must be disposed as waste.
- Processed C&D debris used for daily cover is limited to placement on sloping portions of the working face and is restricted from use on the outside slopes of the landfill, in accordance with the landfill's Part 360 permit. These restrictions limit the potential for erosion of materials outside of the landfill footprint. Processed C&D debris may also be

used for the flat portions of the working area by first blending it with sand or soil to achieve 50/50 mix of C&D debris and soil.

In addition to the use of processed C&D material as daily cover, SMI has received approval from the NYSDEC to use the six-inch minus processed material for landfill roadways and ramps within the footprint of the landfill, primarily on in-place waste to provide travel lanes for access to the working face. When used as sub-base for access roads and ramps, the C&D material is covered with a clean soil wearing surface (i.e., stone or aggregate material) to prevent rubber tire punctures and off-site tracking.

3.1.3 Other BUDs

In addition to processed construction and demolition debris, the following materials are approved at SMI for and beneficially re-used as daily cover, as available:

- Shredder Fluff. Shredder fluff may be used on sloping potions of the working face but is restricted from use on the outside slopes of the landfill. The shredder fluff is blended with equal amounts of soil or other approved daily cover material when applied.
- Contaminated Soil. Contaminated soil, which is not classified as a hazardous waste, can be used alone or blended with clean soil on sloping portions of the working face but is restricted from use on the outside slopes on the landfill. The SMI Environmental Engineering and Compliance Manager reviews the incoming contaminated soil data to determine if it qualifies to be beneficially re-used. In the process, the Environmental Engineering and Compliance Manager instructs the Operations Foreman to check the first few loads of a group of loads from the same generator to determine if the soil is suitable for daily cover. If the soil is not suitable, those loads are not used as daily cover and are landfilled.

- Coal Bottom Ash. Coal bottom ash, which is not classified as a hazardous waste, can be used alone or blended with clean soil as daily cover on the sloping portions of the working face but is restricted from use on the outside slopes of the landfill. Periodically, the SMI Waste Approval Manager will require analytical data on the ash to establish that it is non-hazardous.

- Resource Recovery Ash. The beneficial use of resource recovery ash as a daily cover has been approved in the recently issued Part 360 landfill expansion permit. Resource recovery ash material is defined as non-hazardous ash generated by permitted resource recovery facilities in New York State. The ash can be used alone as daily cover on the sloping portions of the working face but is restricted from use on the outside slopes of the landfill. Analytical sampling results of accepted ash are provided in SMI's annual report and made available to the NYSDEC upon request. Ash which contains unburned wastes, ash with a probability of becoming airborne or eroded into surface water drainage ways is not used as daily cover and is landfilled on the day it is accepted at the facility. Ash determined to be suitable for use as daily cover is placed adjacent to the working face and is not placed on or near the outside perimeter slopes or near surface water drainage ways. Resource recovery ash is not stockpiled for reuse but is used on the same day as it is received at the landfill.

- Paper Processing Sludge. Paper Processing Sludge can be used alone as daily cover on the sloping portions of the working face. When used on flat portions of the working face, paper processing sludge is blended with equal amounts of clean soils.

- Chipped Tires. Chipped or shredded tires may be used on sloping potions of the working face but are restricted from use on the outside slopes of the landfill. Other beneficial uses of chipped tires are discussed further subsequently.

- Foundry Sand. Foundry sand may be used on sloping potions of the working face but is restricted from use on the outside slopes of the landfill. Periodically, the SMI Waste Approval Manager will require analytical data on the ash to establish that it is non-hazardous

3.2 WASTE PLACEMENT AND COMPACTION PRACTICES

SMI uses a number of techniques to maximize waste compaction, which in turn reduces the amount of cover soil needed for a given quantity of waste (i.e., the higher the compaction, the less surface area occupied by a given waste quantity). In addition, optimal compaction rates in conjunction with leachate recirculation maximize air space usage, which again minimizes the quantity of soil required for operation and closure per a given quantity of waste. Increases in density have been shown to increase from the $\pm$ 0.75 tons per cubic yard range to approaching $\pm$ 1.0 cubic yard range. The actual average in-place density is highly dependent on various other factors such as initial select waste placement on liner systems, settlement, moisture, and waste type.

Leachate Recirculation

Leachate recirculation is the reintroduction of landfill leachate into the lined landfill cells. Leachate recirculation provides a means of optimizing environmental conditions within the landfill to provide enhanced stabilization of landfill waste, as well as treatment of moisture moving through the waste mass.

Proper leachate recirculation provides benefits to the landfill beyond the offset of disposal or treatment costs including: increased compaction and settlement, provides liquid necessary for a more uniform degradation of waste and nutrients for the anaerobic bacteria that generate methane.

The rationale for implementing moisture addition is primarily to take advantage of the storage attenuation capacity of the landfilled waste as an interim measure to manage leachate. Moisture addition will result in achieving a steady state in moisture content, settlement and leachate quality, in a somewhat accelerated manner, but not to the extent of a rapid acceleration program. A steady-state condition for a large site that is landfilled relatively quickly is normally achieved subsequent to closure of a particular area or cell. The proposed approach will simply bring the site into a steady-state condition that would naturally be achieved over time, at an earlier date than would otherwise have taken place.

The continued use of leachate recirculation is being specifically proposed to provide the following benefits:

- Attenuation of leachate organic strength and quantity;
- Increased rate of landfill stabilization;
- Immobilization of metals from landfilled material;
- Improved landfill settling rate; and,
- Increased landfill compaction rates;
- Reduced discharges to off-site treatment facilities.

The introduction of additional moisture in the waste mass leads to the improved contact between the bacteria, the biodegradable component of the refuse, and the necessary nutrients. The additional loss of solids, quicker decomposition and resultant consolidation leads to a more rapid stabilization of the waste mass.

In terms of general practices for waste placement and compaction, solid waste is off-loaded from haul vehicles at the working face of the landfill. Upon being unloaded, the solid waste is spread out in layers approximately two feet thick to enhance compactive effort throughout the lift thickness. Field experience and in-cab GPS confirmation are used to establish the number of passes to achieve optimal compaction. Two factors directly contributing to the degree of solid waste compaction are monitored, which are the thickness of waste which has been spread out and the condition of the compactor wheel teeth.

Other Beneficial Re-Use Program Practices

Yard waste (i.e., leaves, grass, brush/branches and stumps/tree sections) are banned from disposal in the landfill, expect for yard waste which is contaminated by excessive pesticides, hazardous substances, or other items that would make the yard waste unsuitable for composting or chipping. Yard waste contained in plastic bags, however, is not banned from landfilling.

SMI manages a source separated yard waste area. Suitable yard waste, as previously described, is chipped and stored before its on-site or off-site use. The chipped material is used on site for erosion

and sedimentation control. In addition, the yard waste operation has the capability to use aerated static pile composting technology; however, currently composting is not practiced at the site.

SMI has set up facilities for electronic waste collection, batteries, mobile phones and various other source-separated materials suitable for recycling purposes (plastics, papers, cardboard, etc.)

E-Waste Collection

Seneca Meadows, Inc. (SMI) instituted a free, e-waste recycling drop-off service for residents and businesses in the Finger Lakes Region in collaboration with 2trg, an electronics recycling company in Geneva, New York, in 2011 and in 2015 a multi-year contract was signed with Sunnking in Brockport, NY for recycling the electronic materials. SMI is registered in accordance with the New York State Electronic Equipment Recycling and Reuse Act (Environmental Conservation Law, Article 27, Title 26 under Registration #00566.

Sunnking is a fully permitted, Brockport, NY based company specializing in computer and technology reuse and recycling, CRT de-manufacturing, secure data destruction, cabling, and technology deployments. It provides these services to small businesses, schools and governments, Fortune 500 companies, value-added resellers, electronics manufacturers, other recyclers, and local residents.

Sunnking's Brockport facility is one of a limited number of recyclers in the country to have qualified for the independently audited R2 (EPA Responsible Recycling Certification) and is also certified by RIOX (Recycling Industry Operating Standard). Sunnking is also registered with NYS Electronics Equipment Recycling & Reuse Act along with the U.S. EPA (Environmental Protection Agency). Sunnking follows NIST 800-88 guidelines to clear or destroy data on hard drives and to provide laws like HIPAA, FACTA, SBA, GLBA, and CERCLA. R2 and RIS requirement also assure that electronic waste is recycled, re-manufactured, or destroyed in a responsible manner and is not disposed of in MSW landfills or shipped to third world countries.

Currently, the e-waste service includes drive-through unloading of acceptable* electronics for secure processing. The collection of e-waste is available on Saturdays from 6:00 a.m. to 11:30 a.m. and Sundays from 8 a.m. to 11:00 a.m.

We reported 27,698 lbs. of items collected and sent off site, which includes computers, computer peripherals, small electronic equipment, and televisions to the New York State Department of Environmental Conservation in our 2021 Annual Report for NYS Electronic Waste Collection Sites.

*ACCEPTABLE E-WASTE ITEMS

AC/DC Adapters	I-Pods	Satellite Receivers
Audio Equipment	Keyboards	Scanners
Cables/Wires/Cords	Laptops/Laptop Accessories	Security/Surveillance Equipment
Calculators	Media (tapes, disks)	Servers
Cardboard	Medical Equipment (non-hazardous)	Shredders (Document)
Cell Phones	Metals	Slot Processors
Circuit Boards	Mice	Speakers (Plastic ONLY)
Computers – All-In-One	Microwaves	Stereo Equipment (Plastic ONLY)
Computers – Desktop	Modems/Cable Modems	Surge Protector
Computers – Laptops	Monitors (CRT and LCD)	Telephones (LAN Line, systems)
Computers – Main Frames	MP3 Players	Turntables
Computers – Tablets	Networking Equipment	TVs
Computer Components/Accessories	Optical Drives	TV Cable Boxes
Computer Fans	PC Cards (finger boards, etc.)	UPS – Battery Back-up
Copiers	PDAs	Video Equipment
Digital Memory Cards	Plastics (computer, medical)	
Docking Stations	Power Supplies	
Electric Motors	Power Tools	
Electronic Game Devices	Printers (desktop, laser)	
Electronic Office Equipment	Processor Chips	
e-Readers	Projectors	
Fax Machines	Radios	
GPS Units	RAM/Memory	
Hard Drives	Routers/Hubs	

COUNTY RECYCLING BOX

The Seneca County Recycling Department, WeCARE Waste & Recycling, LLC and Seneca Meadows, Inc. coordinate a free, household recycling drop-off service at the Seneca Meadows Landfill to encourage collection rates in the County. The program, which has become popular with residents, is geared toward households producing more than the allowable quantity of recyclables, or that miss a recycling pick-up.

RECHARGEABLE BATTERIES RECYCLING DROP-OFF

On December 5, 2011, it became illegal for residents of New York State to dispose of rechargeable batteries with their waste. To provide for the convenient recycling of these products in our community, SMI has partnered with Call2Recycle, a free, North American rechargeable battery program to offer an on-site drop-off+. Approximately 96.5 lbs. of rechargeable dry cell batteries were collected and shipped to Call2Recycle in 2021.

CELL PHONE RECYCLING DROP-OFF

Cell Phones for Soldiers is a national, non-profit organization that recycles cell phones to benefit United States veterans. Funds collected for the recycled cell phones are used by the group to purchase calling cards for soldiers to help them keep in contact with their families. SMI provides a full-time collection site at our landfill facility to collect the phones. In 2021 44 lbs. of cell phones and cell phone accessories were collected and shipped to Cell Phones for Soldiers in 2021.