Town of Perinton Conservation Board

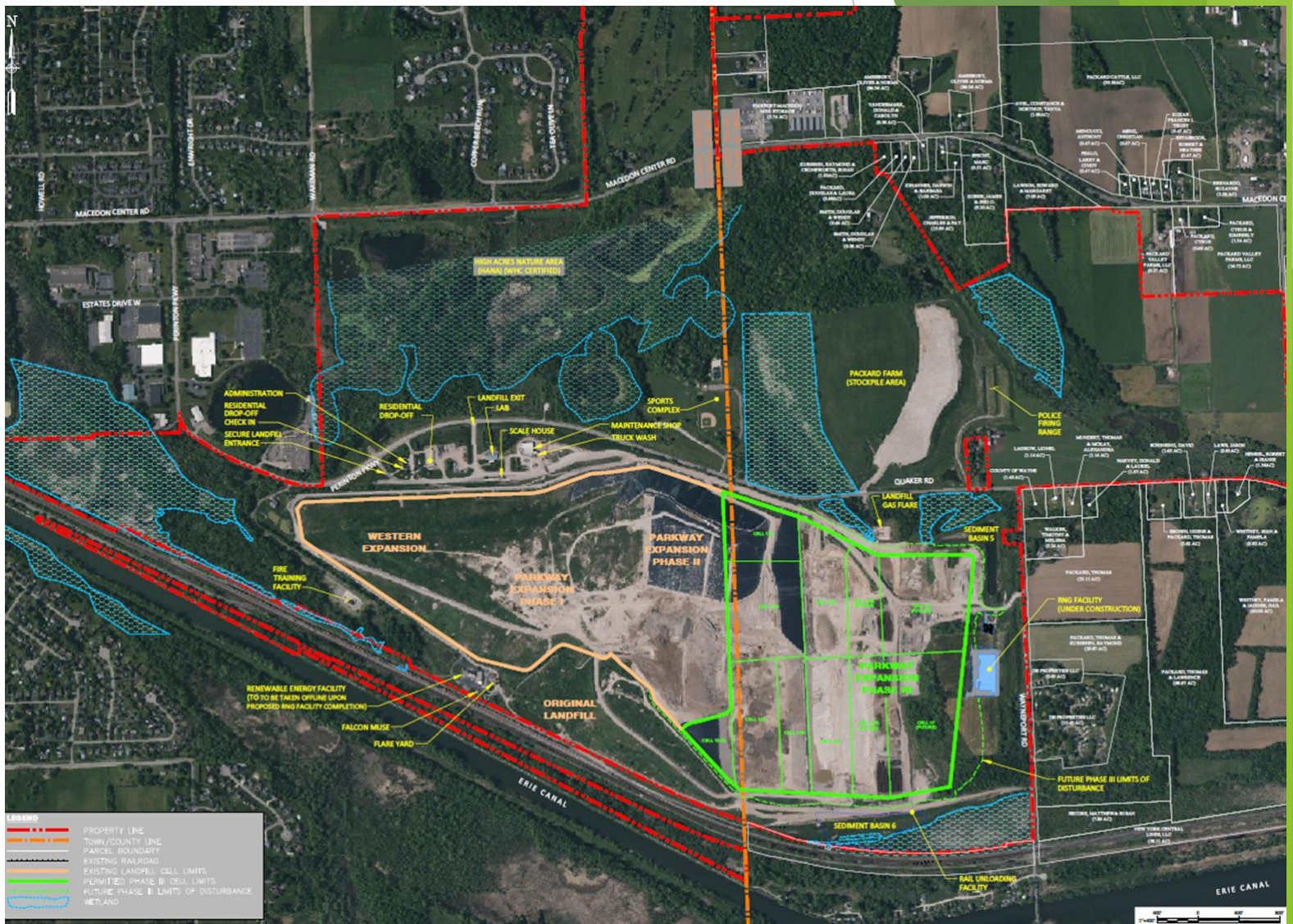
High Acres Landfill & Recycling Center
2024 Annual Update

November 18th, 2025

Tom Hasek | Waste Management of NY, LLC
David Cross | Waste Management of NY, LLC
Marc Meyer | Waste Management of NY, LLC
Nicole Simonetti | Waste Management of NY, LLC
Luann Meyer| Barton & Loguidice, D.P.C.
Bryan Szalda | GHD Services, Inc.

High Acres Landfill & Recycling Center Complex

- Organics Composting
  - St. John Fisher, U of R, Nazareth
- Yard Waste Compost facility
- 9.6-MW Onsite Renewable Energy Facility
  - 10,000 homes powered by facility
- 250 Acres Award Winning Nature Area includes 4 miles of hiking trails
  - RIT/UR Outdoor Classroom
  - Wildlife Habitat Council Certifications
- First Responders and Law Enforcement Training Facilities
- Residential Drop-off Facility
- High Acres Sports Complex
- Rochester Soap Box Derby Barn



Facility Regulatory Permits/Approvals

- 6 NYCRR Part 360 – Solid Waste Management Facilities (DEC)
- 6 NYCRR Part 200 – Prevention and Control of Air Contamination and Air Pollution (DEC)
- 6 NYCRR Part 612, 613, 614 – Petroleum Storage and Handling (DEC)
- 40 CFR Part 61 – National Emissions Standards for Hazardous Air Pollutants (DEC)
- Town of Perinton Special Use Permit
- Town of Macedon Special Use Permit
- State Pollutant Discharge Elimination System Permit (SPDES) (DEC)
- Sewer Use Permit (Monroe County Department of Environmental Services – Division of Pure Waters)
- Air Permits 6 NYCRR Part 201 and USEPA Title V
- Freshwater Wetlands Permit and 401 Water Quality Certification (DEC)
- Section 404 Wetland Permit (U.S. Army Corps of Engineers)

- **Full-time NYSDEC on-site monitor who oversees the operation and provides a daily inspection report. Daily reports submitted to Towns.**

47-15-1A (1/98)-q
(Automated 6/07)

NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF SOLID & HAZARDOUS MATERIALS

6 NYCRR Part 360-2
SOLID WASTE MANAGEMENT FACILITY INSPECTION REPORT

(For use at Mixed Solid Waste Landfills, Industrial /Commercial Waste Monofills, or Ash Residue Monofills)

FACILITY NAME:	LOCATION:	FACILITY ID#:	DATE:	TIME:
High Acres Landfill	Perinton(T), Monroe(C)	28 S 32	11/14/25	AM-PM

INSPECTOR'S NAME:	CODE:	PERSONS INTERVIEWED
Dave Kay	M	Pat O'Dell

REGION	WEATHER CONDITIONS:	DEC PERMIT NUMBER
8	MCL: 40's°F; W:10-20 W,WNW	8 - 9908 - 00162 / 00032

SHEET	CONTINUATION SHEET	PART(S) 360-
1 OF 2	☒YES ☐ NO	attached

Violations of Part 360 are Subject to Applicable Civil, Administrative, and Criminal Sanctions Set Forth in ECL Article 71 and as Appropriate, the Clean Water and Air Acts. Additional and/or Multiple Violations May be Described on the Attached Continuation Sheet. This form is a record of conditions which are observed in the field at the time of inspection Items marked NI indicate No inspection and do not mean no violation has occurred.

☒ PART 360 PERMIT ☐ ORDER ON CONSENT ☐ REGISTERED ☐ EXEMPT ☐ COMPLAINT ☐ CLOSED

C	NI	V	
			FACILITY MANAGEMENT
☒	☐	☐	1. Solid waste management facility is authorized and management occurs within approved area. 360-1.7(a) (1), (b); 360-1.8(h) (5)
☐	☒	☐	2. Incoming waste is monitored by a control program for unauthorized waste and solid waste material accepted are approved for management at the facility 360-1.14(e) (1)
☐	☒	☐	a. Hazardous/Low Level Radioactive Wastes 360-1.5(b), 360-2.17(m)
☒	☐	☐	b. Control Program. 360-1.14(e) (1)
☒	☐	☐	c. Department Approved Facility for Specific Wastes. 360-1.14(r)
☒	☐	☐	d. Bulk Liquids 360-2.17 (k)
☒	☐	☐	e. Whole Tires 360-2.17(v)
☒	☐	☐	f. Lead Acid Batteries 360-2.17 (w)
☒	☐	☐	3. Operator maintains and operates facility components and equipment in accordance with the permit and their intended use.
☒	☐	☐	a. Maintenance of Facility Components/Site Grading. 360-1.14(f) (1); 360-2.17 (h), (u)
☒	☐	☐	b. Adequate Equipment. 360-1.14(f) (2)
☐	☒	☐	4. Operational Records are available where required:
☐	☒	☐	a. Unauthorized Solid Waste Records. 360-1.14(i) (1)
☐	☒	☐	b. Self Inspection Records. 360-1.14(i) (2)
☐	☒	☐	c. Permit Application Records. 360-1.14(i) (3)
☐	☒	☐	d. Monitoring Records. 360-1.14(i) (4)
☐	☒	☐	e. Facility Operator Records. 360-1.14(u) (1)
☐	☒	☐	f. Fill Progression Records. 360-2.9 (e)
☐	☒	☐	g. Primary Leachate Collection and Removal System Logs 260-2.9(j) (3)
☐	☒	☐	h. Asbestos Waste Site Plan 360-2.17 (p) (2)
☐	☒	☐	i. Random waste collection vehicle inspection records 260-2.17(q)
			OPERATION CONTROL
☐	☒	☐	5. Solid waste, including blowing litter, is sufficiently confined and controlled. 360-1.14(j)
☒	☐	☐	6. Dust is effectively controlled and does not constitute an offsite nuisance. 360-1.14(k)
☒	☐	☐	7. On-Site vector populations are prevented or controlled, and vector breeding areas are prevented 360-1.14(l)
☐	☒	☐	8. Odors are effectively controlled so that they do not constitute a nuisance. 360-1.14(m)
			WATER
☒	☐	☐	9. Solid waste is prevented from entering surface waters and/or groundwater. 360-1.14(b) (1)
☒	☐	☐	10. Leachate is minimized through drainage control or other means and is prevented from entering surface waters.360-1.14(b) (2); 360-2.17(q)
			ACCESS
☒	☐	☐	11. Access to the facility is strictly and continuously controlled by fencing, gates signs, natural barriers, or other suitable means.360-1.14(d)"
☒	☐	☐	12. On-site roads are passable. 360-1.14(n); 360-2.17(s)
			WASTE HANDLING
☒	☐	☐	13. Solid Waste is spread in layers 2 feet or less in thickness, proper compaction is achieved with 3 passes of appropriately sized equipment and the working face area is the smallest practicable. 360-2.17(b) (1)
☒	☐	☐	14. Lift height does not exceed 10 feet, slope is at least 4 percent and no more than 33 percent, and wastes are placed and graded in accordance with fill progression plan 360-2.17(b) (2)
			15. Solid waste preparation measures and/or precautions are provided:
☒	☐	☐	a. Stabilized/dewatered sledges 360-2.17(n)
☒	☐	☐	b. Asbestos Waste 360-2.17 (p) (3)
☒	☐	☐	c. Tanks 360-2.17(r)
			COVER
☐	☒	☐	16. Daily cover material is suitable in quality, of proper compacted thickness, and is applied and maintained where and when required to control vectors, fires, odors, blowing litter, and scavenging 360-2.17 (c)
☐	☒	☐	17. Intermediate cover is suitable in quality, of proper compacted thickness, and is applied and maintained where and when required 360-2.17 (d)
☒	☐	☐	18. Final cover system material is suitable in quality, of proper compacted thickness, and is applied and maintained.360-2.17 (e)
			MONITORING
☒	☐	☐	19. Monitoring wells are intact. 360-2.17 (a); 360-2.11(a) (8) (v); (c) (1)
☒	☐	☐	20. Decomposition gasses are monitored and controlled 360-2.17(f); 360-8.3 (c)
			OTHER
			On Continuation Sheet identify any other violations

I Hereby Acknowledge receipt of the Facility Copy of this report

Please Print

Not Requested DK

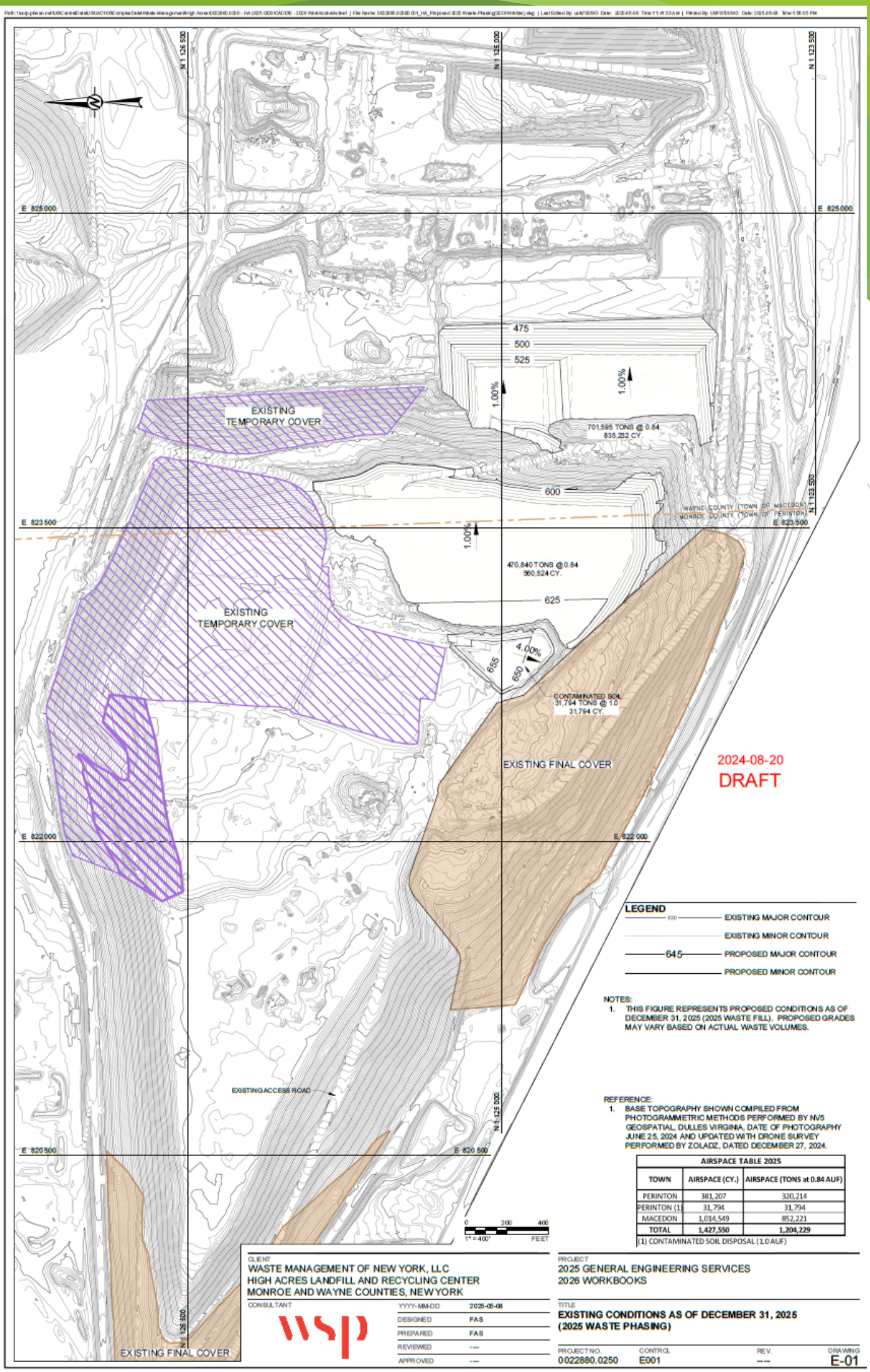
Signature

Operations Update

Landfill (in Town of Perinton) Airspace Summary as of Dec 31st, 2024	
Total Permitted Capacity (CY)	30,823,531
Airspace Consumed (CY)	24,210,325
Airspace Remaining (CY)	6,613,206

- Landfill permitted footprint: 320.4 acres
- 3,500 tons per day- Permitted Capacity
- "No Aged waste" placed in Perinton in 2024
- Remaining Projected Site Life 32 years (2056)

2024 Operations	Permitted	Actual
Tons of Solid Waste Managed	1,074,500	914,819
Tons of AOC Managed	322,350	258,071
Tons of Solid Waste Managed Via Rail	537,000	536,520
Tons of Biosolids Managed	<5%	35,731 (3.91%)
Tons of Yard Waste Managed	N/A	14,843
Tons of Organics Managed	N/A	384
Gallons of Leachate Collected and Discharged to MCPOTW	N/A	39,175,136
Total Landfill Gas Flared (MCF)	N/A	2,871,957
Landfill Gas Beneficially Used to Produce Green Energy (SCFM)	N/A	1,557,342



LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 645 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

NOTES:

1. THIS FIGURE REPRESENTS PROPOSED CONDITIONS AS OF DECEMBER 31, 2025 (2025 WASTE FILL). PROPOSED GRADES MAY VARY BASED ON ACTUAL WASTE VOLUMES.

REFERENCE:

1. BASE TOPOGRAPHY SHOWN COMPILED FROM PHOTOGRAMMETRIC METHODS PERFORMED BY NV5 GEOSPATIAL, DULLES VIRGINIA, DATE OF PHOTOGRAPHY JUNE 25, 2024 AND UPDATED WITH DRONE SURVEY PERFORMED BY ZOLADZ, DATED DECEMBER 27, 2024.

AIRSPACE TABLE 2025

TOWN	AIRSPACE (CY.)	AIRSPACE (TONS at 0.84 AUF)
PERINTON	381,207	320,214
PERINTON (1)	31,794	31,794
MACEDON	1,014,549	852,221
TOTAL	**1,427,550**	**1,204,229**

(1) CONTAMINATED SOIL DISPOSAL (1.0 AUF)

CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC
HIGH ACRES LANDFILL AND RECYCLING CENTER
MONROE AND WAYNE COUNTIES, NEW YORK

CONSULTANT
wsp

YYYY-MM-DD	2025-05-08
DESIGNED	FAS
PREPARED	FAS
REVIEWED	---
APPROVED	---

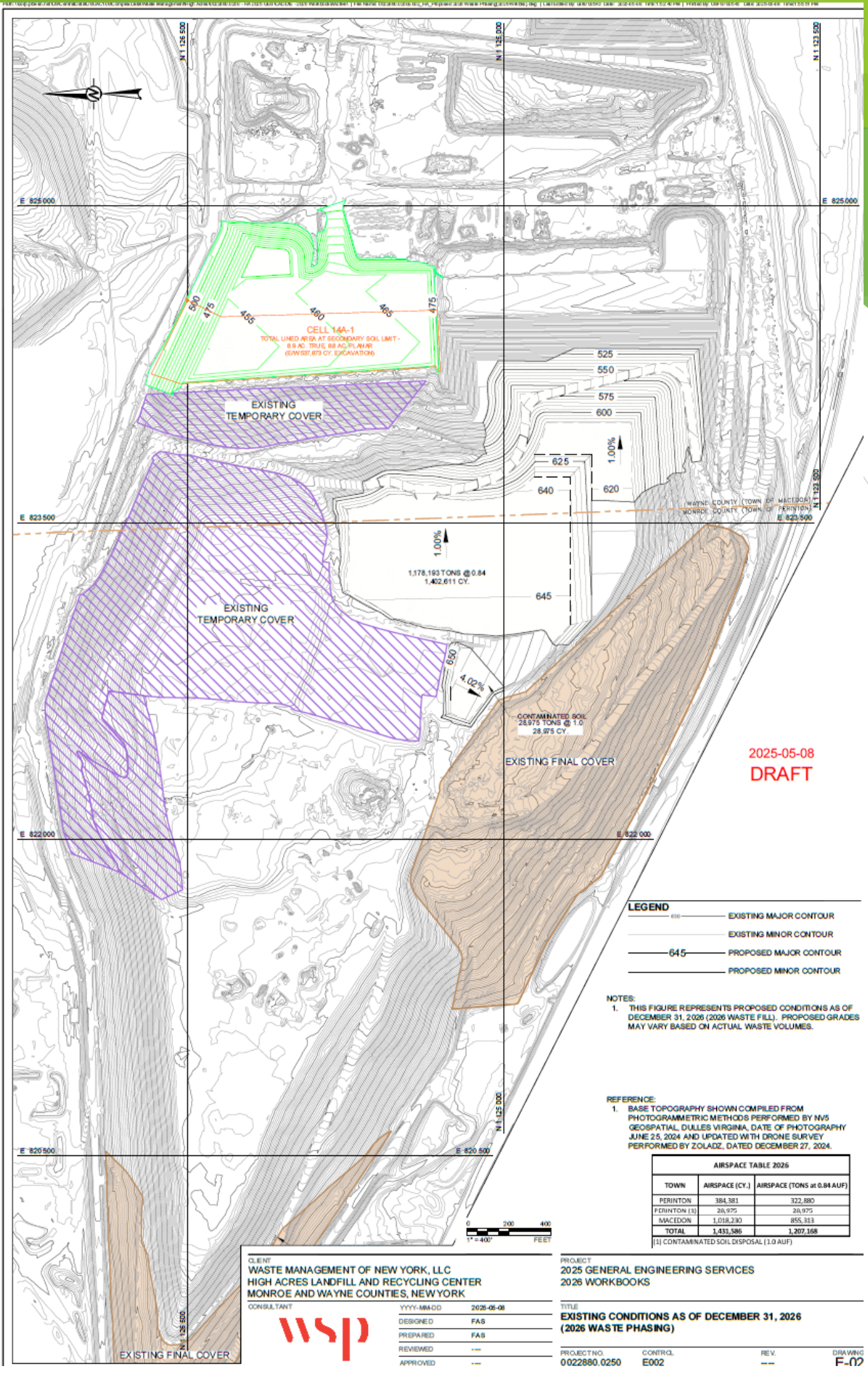
PROJECT
2025 GENERAL ENGINEERING SERVICES
2026 WORKBOOKS

TITLE
EXISTING CONDITIONS AS OF DECEMBER 31, 2025 (2025 WASTE PHASING)

PROJECT NO.	CONTROL	REV.	DRAWING
0022880.0250	E001	---	E-01

Geomembrane Temporary Cap

- **Total Temp. Cap through the end of 2024 (51 acres)**
- **Total Enhanced Soil Cover through 2024 (88 acres)**
- **Additional 6 acres of coverage completed in Q4 2024**



2025-05-08
DRAFT

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

NOTES:
1. THIS FIGURE REPRESENTS PROPOSED CONDITIONS AS OF DECEMBER 31, 2026 (2026 WASTE FILL). PROPOSED GRADES MAY VARY BASED ON ACTUAL WASTE VOLUMES.

REFERENCE:
1. BASE TOPOGRAPHY SHOWN COMPILED FROM PHOTOGRAMMETRIC METHODS PERFORMED BY NV5 GEOSPATIAL, DULLES VIRGINIA, DATE OF PHOTOGRAPHY JUNE 25, 2024 AND UPDATED WITH DRONE SURVEY PERFORMED BY ZOLADZ, DATED DECEMBER 27, 2024.

AIRSPACE TABLE 2026

TOWN	AIRSPACE (CY.)	AIRSPACE (TONS at 0.84 AUF)
PERINTON	384,381	322,880
PERINTON (1)	28,975	28,975
MACEDON	1,018,230	855,313
TOTAL	1,431,586	1,207,168

(1) CONTAMINATED SOIL DISPOSAL (1.0 AUF)

CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC
HIGH ACRES LANDFILL AND RECYCLING CENTER
MONROE AND WAYNE COUNTIES, NEW YORK

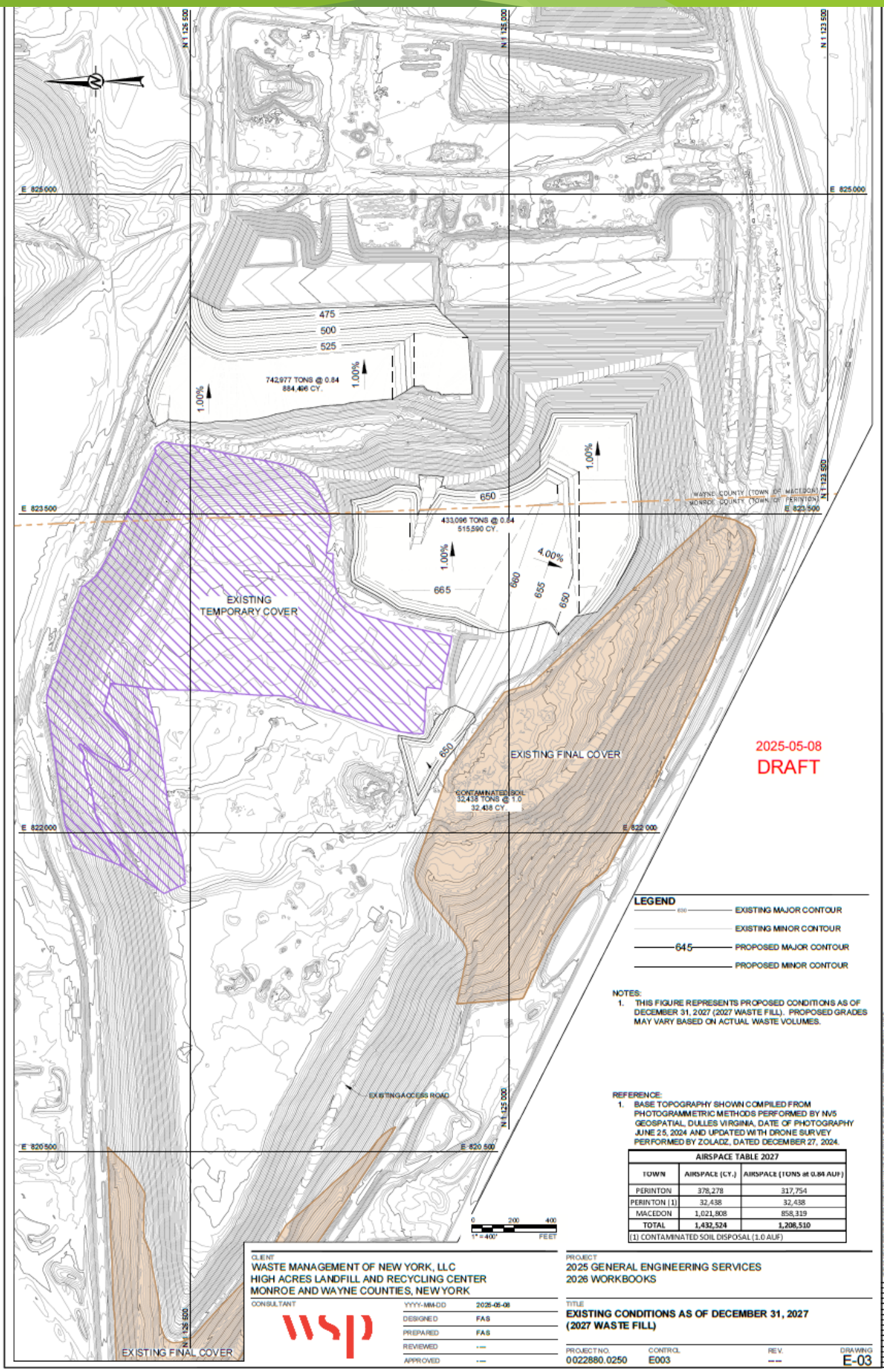
CONSULTANT
wsp

YYYY-MM-DD	2025-05-08
DESIGNED	FAS
PREPARED	FAS
REVIEWED	---
APPROVED	---

PROJECT
2025 GENERAL ENGINEERING SERVICES
2026 WORKBOOKS

TITLE
EXISTING CONDITIONS AS OF DECEMBER 31, 2026
(2026 WASTE PHASING)

PROJECT NO.	CONTROL	REV.	DRAWING
0022880.0250	E002	---	F-02



2025-05-08

DRAFT

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 645 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

NOTES:

1. THIS FIGURE REPRESENTS PROPOSED CONDITIONS AS OF DECEMBER 31, 2027 (2027 WASTE FILL). PROPOSED GRADES MAY VARY BASED ON ACTUAL WASTE VOLUMES.

REFERENCE:

1. BASE TOPOGRAPHY SHOWN COMPILED FROM PHOTOGRAMMETRIC METHODS PERFORMED BY NV5 GEOSPATIAL, DULLES VIRGINIA, DATE OF PHOTOGRAPHY JUNE 25, 2024 AND UPDATED WITH DRONE SURVEY PERFORMED BY ZOLADZ, DATED DECEMBER 27, 2024.

AIRSPACE TABLE 2027

TOWN	AIRSPACE (CY.)	AIRSPACE (TONS at 0.84 AUF)
PERINTON	378,278	317,754
PERINTON (1)	32,438	32,438
MACEDON	1,021,808	858,319
TOTAL	1,432,524	1,208,510

(1) CONTAMINATED SOIL DISPOSAL (1.0 AUF)

CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC
HIGH ACRES LANDFILL AND RECYCLING CENTER
MONROE AND WAYNE COUNTIES, NEW YORK

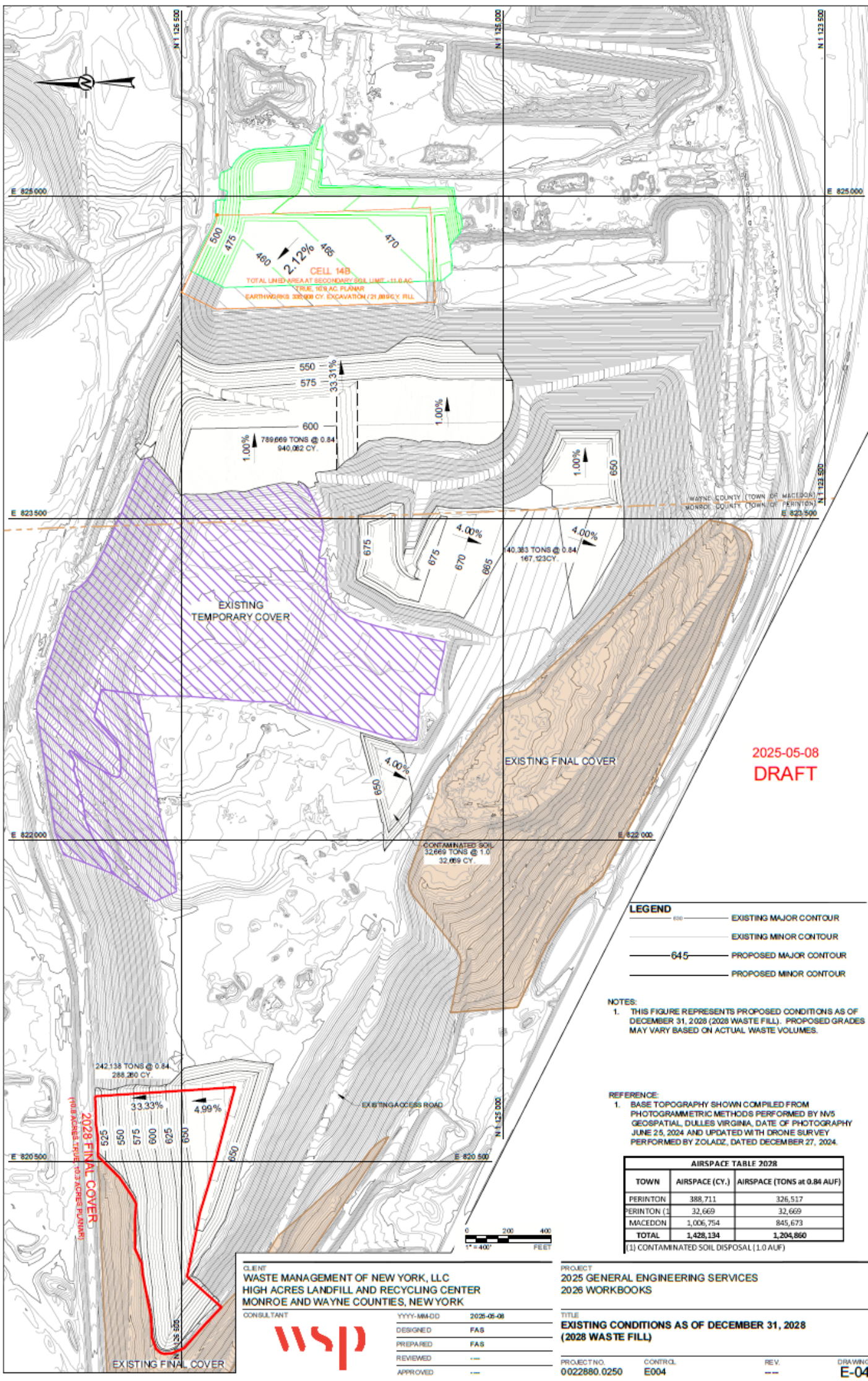
CONSULTANT
wsp

YYYY-MM-DD	2025-05-08
DESIGNED	FAS
PREPARED	FAS
REVIEWED	---
APPROVED	---

PROJECT
2025 GENERAL ENGINEERING SERVICES
2026 WORKBOOKS

TITLE
EXISTING CONDITIONS AS OF DECEMBER 31, 2027 (2027 WASTE FILL)

PROJECT NO.	CONTROL	REV.	DRAWING
0022880.0250	E003	---	E-03



2025-05-08

DRAFT

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- 645 PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

NOTES:

1. THIS FIGURE REPRESENTS PROPOSED CONDITIONS AS OF DECEMBER 31, 2028 (2028 WASTE FILL). PROPOSED GRADES MAY VARY BASED ON ACTUAL WASTE VOLUMES.

REFERENCE:

1. BASE TOPOGRAPHY SHOWN COMPILED FROM PHOTOGRAMMETRIC METHODS PERFORMED BY NV5 GEOSPATIAL, DULLES VIRGINIA, DATE OF PHOTOGRAPHY JUNE 25, 2024 AND UPDATED WITH DRONE SURVEY PERFORMED BY ZOLADZ, DATED DECEMBER 27, 2024.

AIRSPACE TABLE 2028

TOWN	AIRSPACE (CY.)	AIRSPACE (TONS at 0.84 AUF)
PERINTON	388,711	326,517
PERINTON (1)	32,669	32,669
MACEDON	1,006,754	845,673
TOTAL	1,428,134	1,204,860

(1) CONTAMINATED SOIL DISPOSAL (1.0 AUF)

CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC
HIGH ACRES LANDFILL AND RECYCLING CENTER
MONROE AND WAYNE COUNTIES, NEW YORK

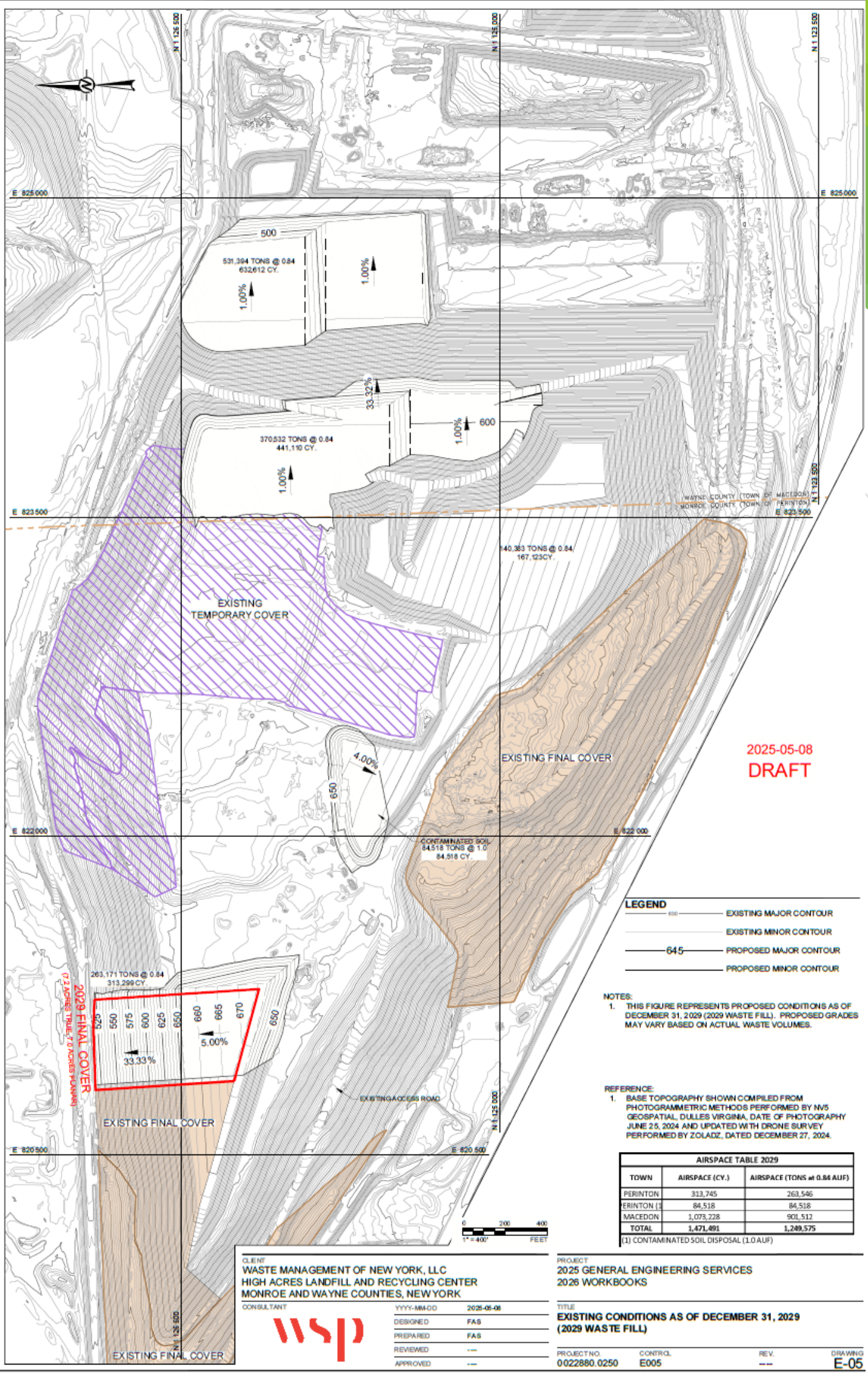
CONSULTANT
wsp

YYYY-MM-DD	2025-05-08
DESIGNED	FAS
PREPARED	FAS
REVIEWED	---
APPROVED	---

PROJECT
2025 GENERAL ENGINEERING SERVICES
2026 WORKBOOKS

TITLE
EXISTING CONDITIONS AS OF DECEMBER 31, 2028 (2028 WASTE FILL)

PROJECT NO.	CONTROL	REV.	DRAWING
0022880.0250	E004	---	E-04



2025-05-08
DRAFT

LEGEND

- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR

NOTES:
1. THIS FIGURE REPRESENTS PROPOSED CONDITIONS AS OF DECEMBER 31, 2029 (2029 WASTE FILL). PROPOSED GRADES MAY VARY BASED ON ACTUAL WASTE VOLUMES.

REFERENCE:
1. BASE TOPOGRAPHY SHOWN COMPILED FROM PHOTOGRAMMETRIC METHODS PERFORMED BY NV5 GEOSPATIAL, DULLES VIRGINIA, DATE OF PHOTOGRAPHY JUNE 25, 2024 AND UPDATED WITH DRONE SURVEY PERFORMED BY ZOLADZ, DATED DECEMBER 27, 2024.

AIRSPACE TABLE 2029

TOWN	AIRSPACE (CY.)	AIRSPACE (TONS at 0.84 AUF)
PERINTON	313,745	263,546
ERINTON (1	84,518	84,518
MACEDON	1,073,228	901,512
TOTAL	1,471,491	1,249,575

(1) CONTAMINATED SOIL DISPOSAL (1.0 AUF)

CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC
HIGH ACRES LANDFILL AND RECYCLING CENTER
MONROE AND WAYNE COUNTIES, NEW YORK

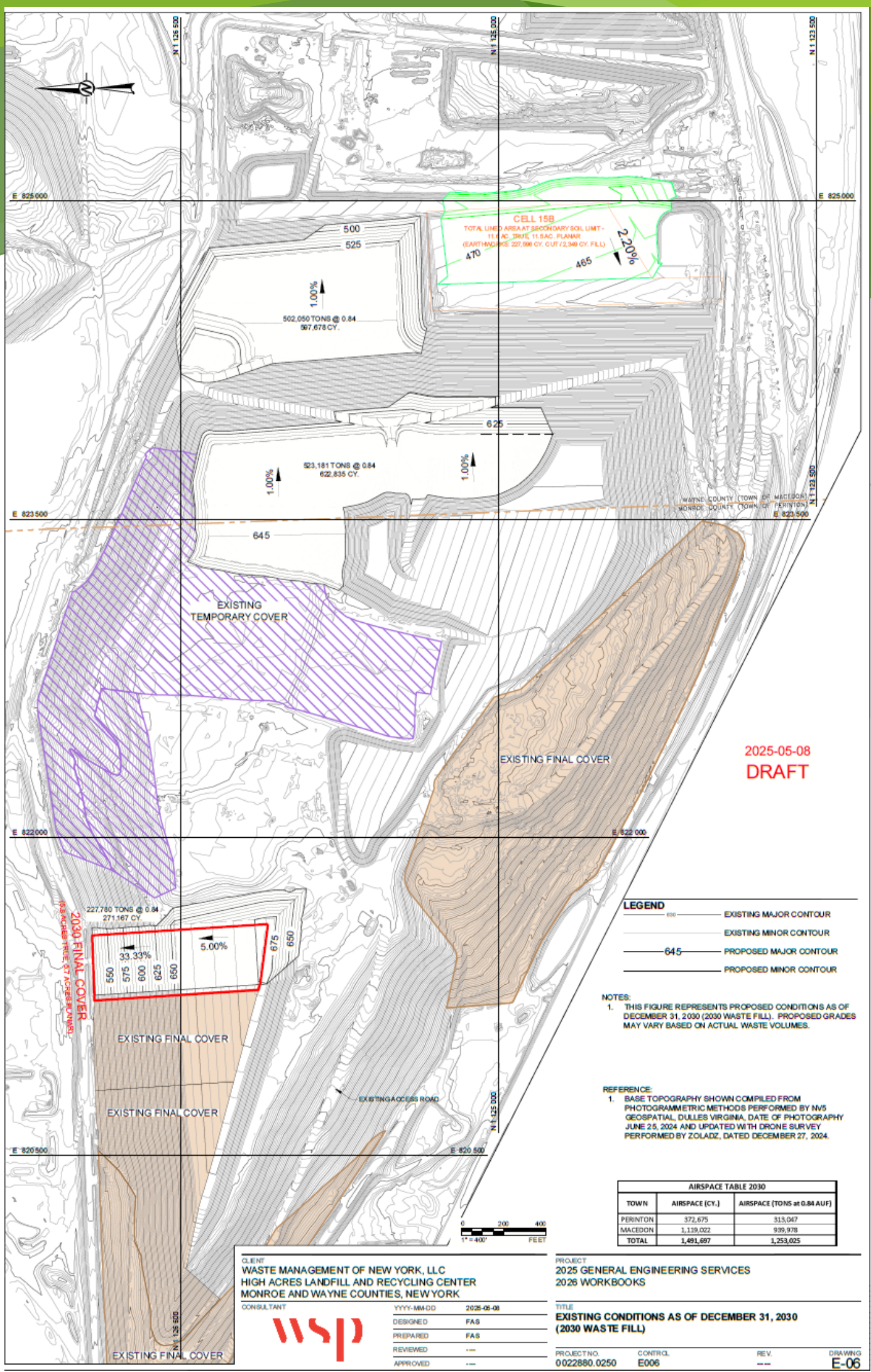
CONSULTANT
wsp

YYYY-MM-DD	2025-05-08
DESIGNED	FAS
PREPARED	FAS
REVIEWED	---
APPROVED	---

PROJECT
2025 GENERAL ENGINEERING SERVICES
2026 WORKBOOKS

TITLE
EXISTING CONDITIONS AS OF DECEMBER 31, 2029 (2029 WASTE FILL)

PROJECT NO.	CONTROL	REV.	DRAWING
0022880.0250	E005	---	E-05



AIRSPACE TABLE 2030		
TOWN	AIRSPACE (CY.)	AIRSPACE (TONS at 0.84 AUF)
PERINTON	372,675	313,047
MACEDON	1,119,022	939,978
TOTAL	1,491,697	1,253,025

CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC
HIGH ACRES LANDFILL AND RECYCLING CENTER
MONROE AND WAYNE COUNTIES, NEW YORK

CONSULTANT
wsp

YYYY-MM-DD	2025-05-08
DESIGNED	FAS
PREPARED	FAS
REVIEWED	---
APPROVED	---

PROJECT
2025 GENERAL ENGINEERING SERVICES
2026 WORKBOOKS

TITLE
EXISTING CONDITIONS AS OF DECEMBER 31, 2030 (2030 WASTE FILL)

PROJECT NO.	CONTROL	REV.	DRAWING
0022880.0250	E006	---	E-06

Surface Emissions Monitoring Methodology

Readings Above 500 ppm Threshold

- NSPS procedures followed
  - Location is recorded and flagged, site personnel notified
  - Each location is evaluated and corrective action program is implemented
- **Follow-up monitoring conducted to confirm remedy is successful**
  - Within 10 days of initial exceedance
  - 1 month after initial exceedance

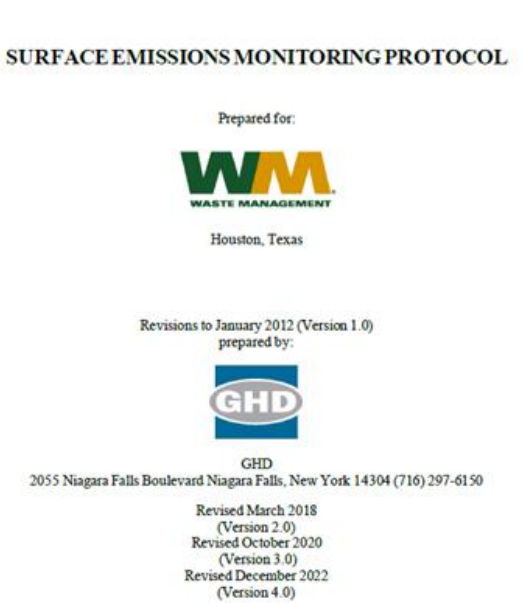
Readings Above 200 ppm Threshold (Perinton Special Use Permit Requirement)

- 2.5x more stringent than the regulatory standard
- Same procedures as above followed except only 1 successful follow-up reading required
  - Within 1 month after initial exceedance

Monthly Cover Integrity Program

- Surface inspected monthly and corrective actions made as necessary

Surface Emissions Monitoring Methodology


SURFACE EMISSIONS MONITORING PROTOCOL

Prepared for:

WASTE MANAGEMENT

Houston, Texas

Revisions to January 2012 (Version 1.0)
prepared by:

GHD

GHD
2055 Niagara Falls Boulevard Niagara Falls, New York 14304 (716) 297-6150

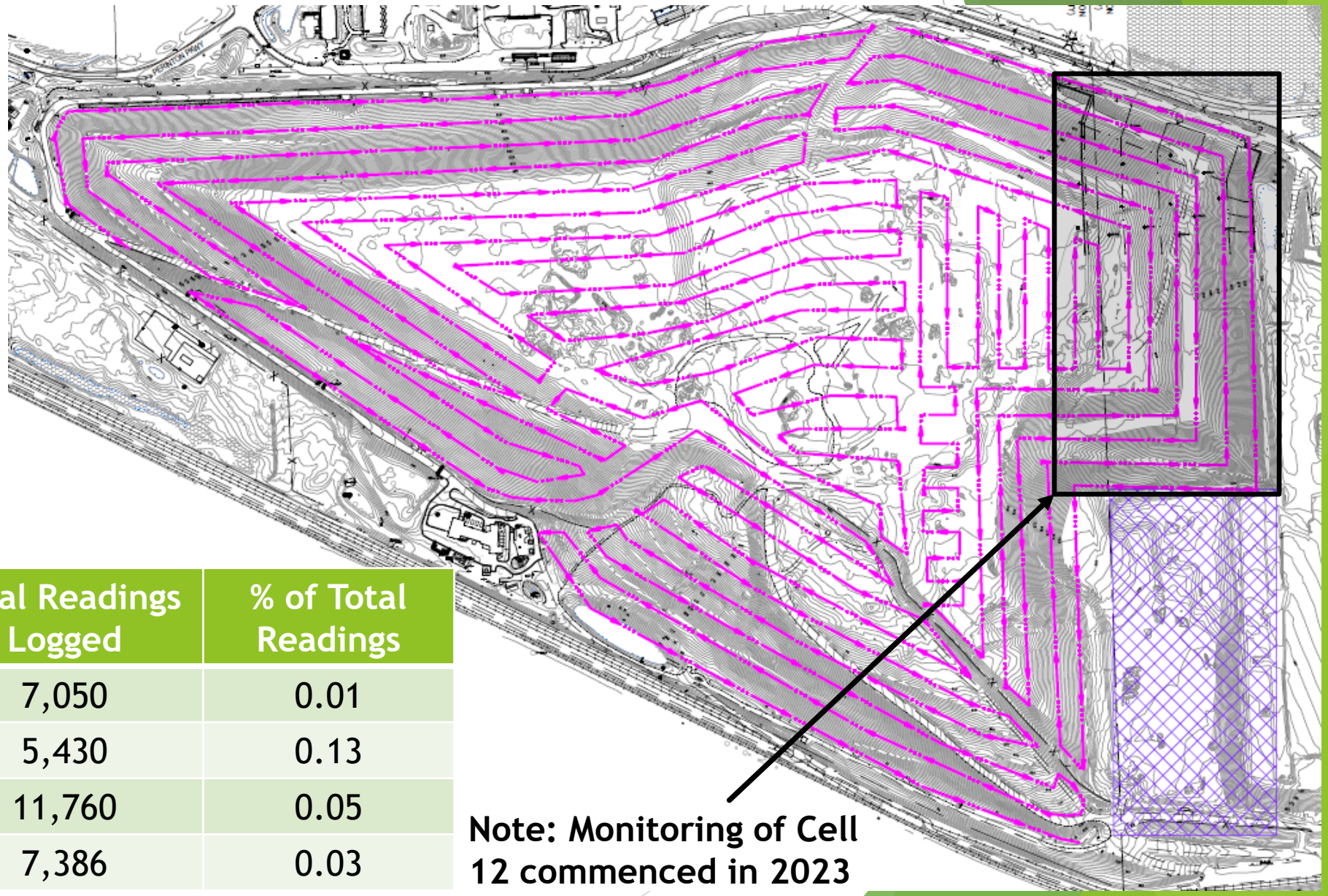
Revised March 2018
(Version 2.0)
Revised October 2020
(Version 3.0)
Revised December 2022
(Version 4.0)

Monitoring in Accordance with Work Plan and New Source Performance Standards (NSPS)

- **Monitoring Path = 30-meter serpentine path beginning at perimeter of the landfill**
- **Extension probe held at 2 to 4 inches above surface of the landfill while traversing**
  - Readings logged into SEM5000 instrument (date, time, reading and GPS coordinates logged)
- **Technician also inspects landfill surface and will temporarily deviate from monitoring path to undertake sampling when encountering:**
  - Surface penetrations such as landfill gas wells, risers, or other collection components
  - Areas with distressed vegetation
  - Areas with cracks/seeps in the cover
- **In accordance with Federal regulations and site permit conditions, if unsafe conditions are encountered Technician evaluates options to safely conduct the monitoring. If a safe option cannot be established, such areas are highlighted in the reports and areas are evaluated during future events. Examples of such areas include:**
  - Active and construction areas that have large trucks and equipment operating
  - Steep slopes with exposed geomembrane liner (slip /trip/ fall) and/or with problematic weather conditions
- **Regulations do not require monitoring of areas with waste less than 5 years old (or within 2 years of an area being closed or reaching final grade) in accordance with NSPS rules**
  - On occasion areas not required to be monitored by regulation may be monitored.

2024 Surface Monitoring Data – Path Monitoring

- Technician monitors surface along 18.7-mile path (except dangerous areas)
- Readings auto-log every 1-15 seconds
- Technician flags locations > 200 ppm
- Corrective action and follow-ups commence



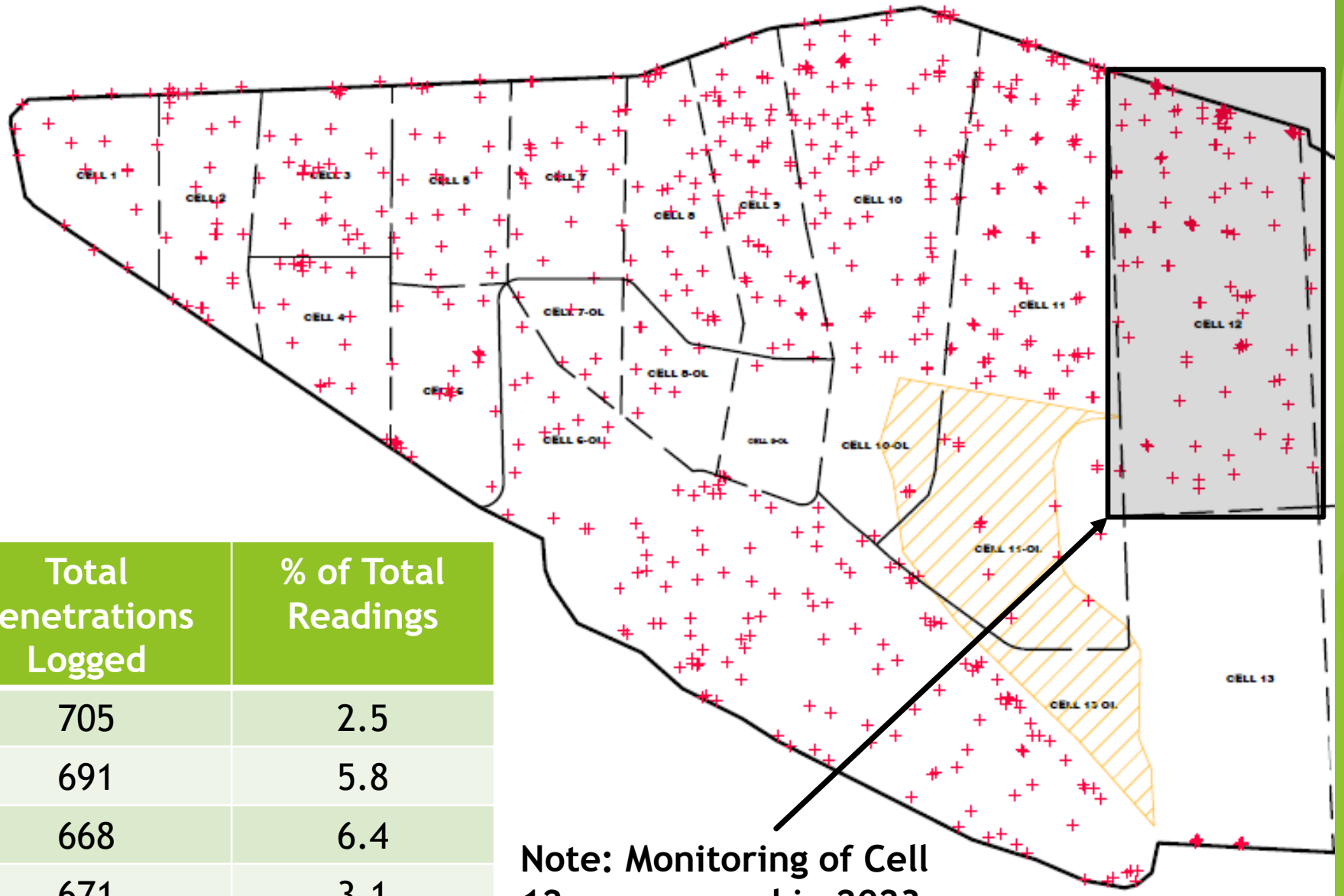
Note: Monitoring of Cell 12 commenced in 2023

Period	# Locations > 200 PPM	Total Readings Logged	% of Total Readings
2024 Q1	1	7,050	0.01
2024 Q2	7	5,430	0.13
2024 Q3	6	11,760	0.05
2024 Q4	2	7,386	0.03

2024 Surface Monitoring Data – Penetration Monitoring

- Technician monitors ~ 700 penetrations each quarter (except dangerous areas)
- Technician flags locations > 200 ppm
- Corrective action and follow-ups commence

Period	# Locations > 200 PPM	Total Penetrations Logged	% of Total Readings
2024 Q1	18	705	2.5
2024 Q2	40	691	5.8
2024 Q3	43	668	6.4
2024 Q4	21	671	3.1



Note: Monitoring of Cell 12 commenced in 2023

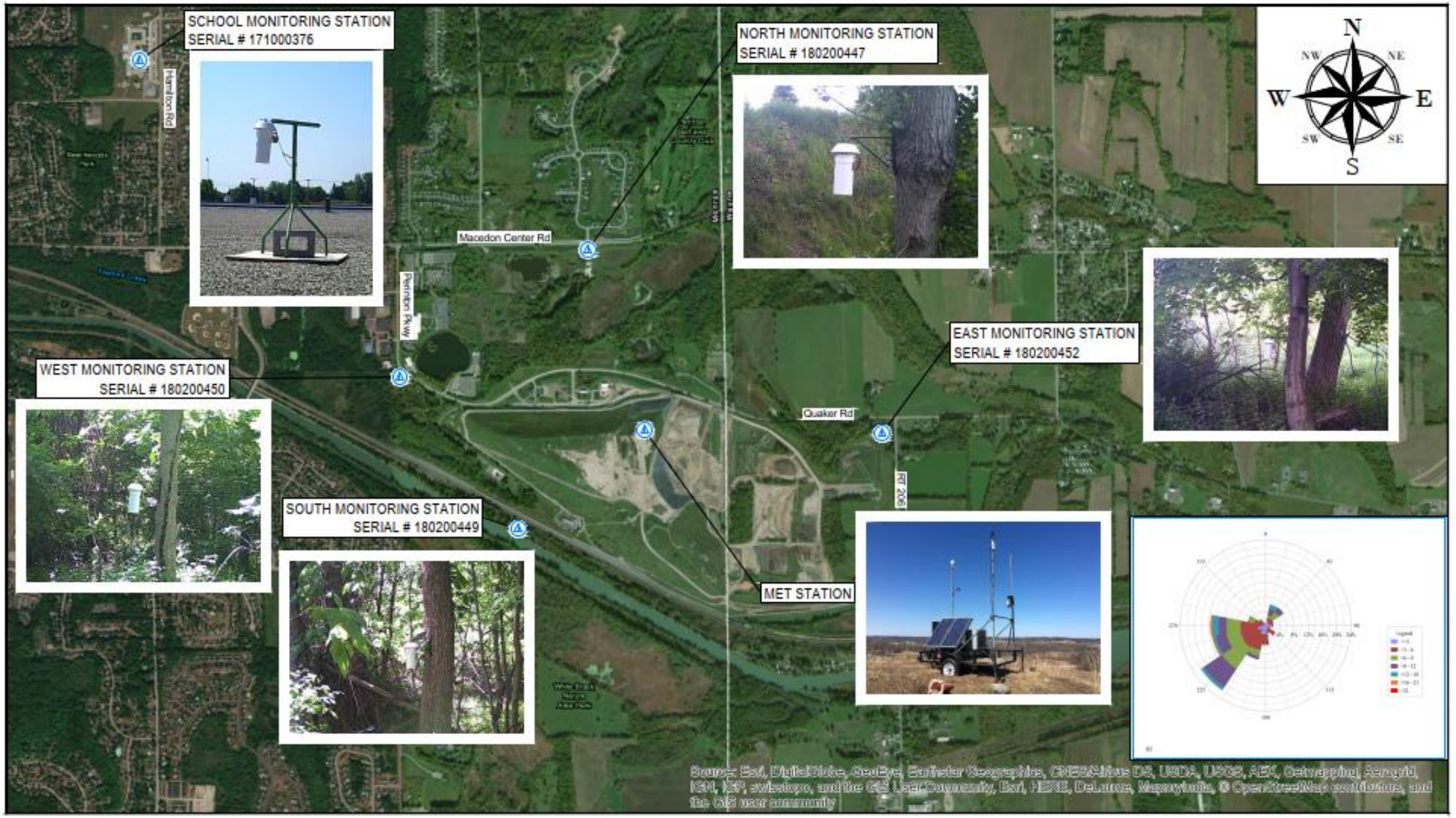
Summary of Surface Monitoring Results

- Purpose of surface emissions monitoring program is to evaluate the effectiveness of the gas collection and cover systems and provide ongoing corrective action/ remedy programs
- As long as corrective measures are implemented within the required timeframes, the facility is in compliance with Work Plan (local), Title V Permit (state) and NSPS rules (federal)
- All results are reported to NYSDEC and Town on a quarterly basis

Based on our review of records over the last 5 years, all follow up procedures, including corrective action and follow up monitoring, were completed within the required timeframes, and in many cases corrective actions were implemented well before required (often times within the same day).

High Acres H_2S Monitoring Program

- Monitoring Instrument: Acrulog PPB
- Detection limit: 3 parts per billion (ppb)
- Instrument Range: 3 – 2,000 ppb
- Reading taken and logged every 10 minutes
  - 3-minute sampling period
  - 7-minute zero / purge period



0 1500' 3000'

LEGEND

AMBIENT AIR MONITORING LOCATION

WASTE MANAGEMENT OF NEW YORK - HIGH ACRES LANDFILL
FAIRPORT, NEW YORK
Q2 2021 SURFACE EMISSION MONITORING

AMBIENT AIR MONITORING LOCATIONS

11223471
Jul 21, 2021

FIGURE 2

Summary of H_2S Monitoring Results

- **Original Work Plan dated March 2, 2018**
  - Data Collection Period: March 6, 2018 – June 9, 2019
    - Continuous data collection at all 5 stations
    - Reports provided every week initially and every 2 weeks thereafter
- **Revised Work Plan dated April 30, 2019**
  - Data Collection Period: July 9, 2019 – Present
    - Data collected quarterly at 4 perimeter stations for 1 week during surface scan
    - Quarterly reports provided
  - Continuous data collection at School during school year
    - Monthly reports provided

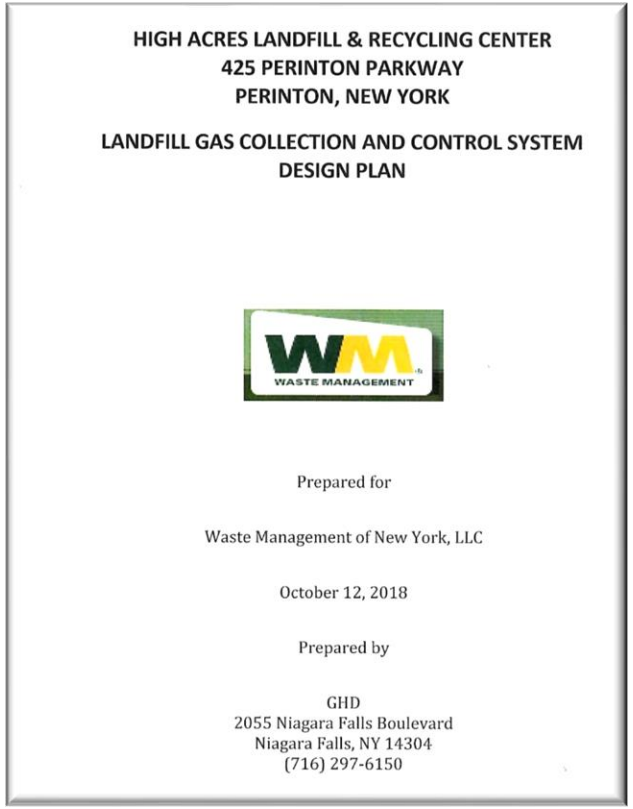
Station Name	# Readings Collected	% Non-Detections (% of Total Readings)
West Monitoring Station (WMS)	218,909	99.8
North Monitoring Station (NMS)	315,678	99.6
East Monitoring Station (EMS)	216,758	99.8
South Monitoring Station (SMS)	243,094	99.8
School Monitoring Station (School)	326,957	99.6
Grand Totals	**1,321,396**	**99.7**

Since March 6, 2018, there have been no exceedances of the 1-hour standard for H_2S attributable to the landfill.

High Acres Gas System
Collection, Conveyance, Cover, Control (4C's)

GCCS Plan (GHD Plan –updated 10/12/18)

- Roadmap for all landfill gas system development criteria for all design/operational rationale (current conditions through site closure)
- Gas Emissions Model (Land GEM) – provide information for gas generation by year, peek flow, system sizing, gas well spacings (ROI), infrastructure needs, operational considerations.
- Site monitoring, testing, and reporting.



HIGH ACRES LANDFILL & RECYCLING CENTER
425 PERINTON PARKWAY
PERINTON, NEW YORK

LANDFILL GAS COLLECTION AND CONTROL SYSTEM
DESIGN PLAN

WASTE MANAGEMENT

Prepared for

Waste Management of New York, LLC

October 12, 2018

Prepared by

GHD
2055 Niagara Falls Boulevard
Niagara Falls, NY 14304
(716) 297-6150

* USEPA developed monitoring procedures to determine active LFG collection system's effectiveness

4C's Components

Collection

- Vertical Gas Wells *(Slip Form Style)*
- Horizontal Gas Collectors
- Base Grid System
- Agru Under Liner Collectors *(Under Temp Cap Areas)*

Conveyance

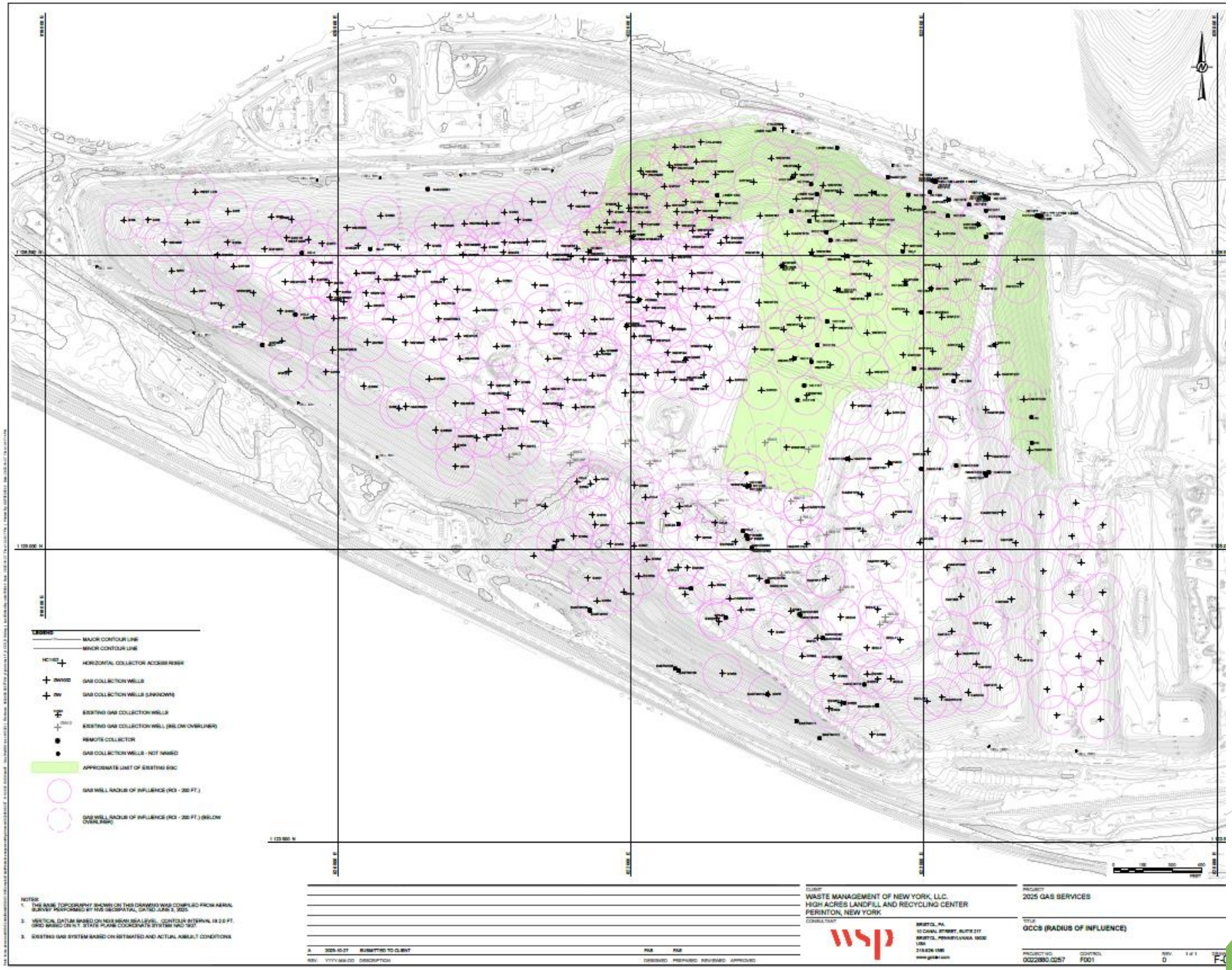
- Headers
- Laterals/Sub Headers
- Blowers
- Infrastructure

Cover

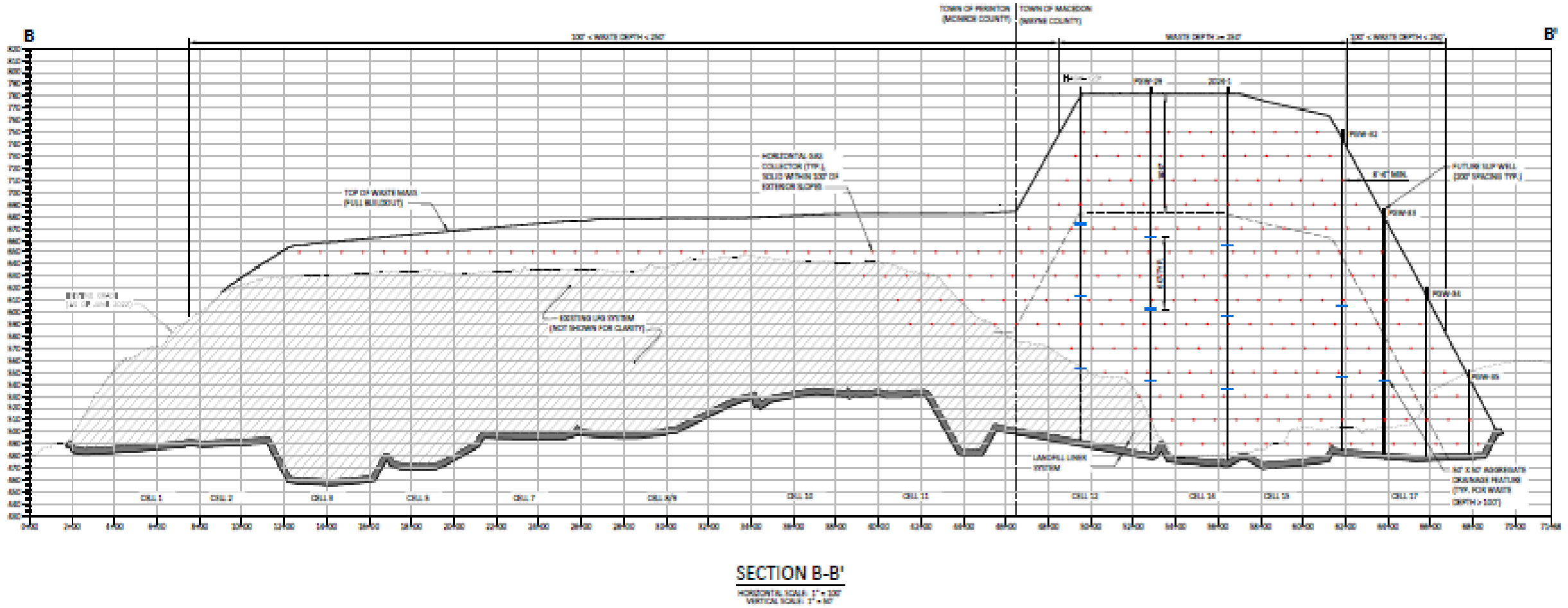
- Soils
- AOC's
- EPI Cover System
- Exposed Geomembranes
- Final Cover System

Controls

- Enclosed Flares
- Open Flare
- Gas-To-Energy Plant


LEGEND
MAJOR CONTOUR LINE
MINOR CONTOUR LINE
HORIZONTAL COLLECTOR ACCESS RISER
GAS COLLECTION WELLS
GAS COLLECTION WELLS (UNKNOWN)
EXISTING GAS COLLECTION WELLS
EXISTING GAS COLLECTION WELL (BELOW OVERLINER)
REMOTE COLLECTOR
GAS COLLECTION WELLS - NOT MAPED
APPROXIMATE LIMIT OF EXISTING SGC
GAS WELL RADIUS OF INFLUENCE (ROI - 200 FT.)
GAS WELL RADIUS OF INFLUENCE (ROI - 200 FT.) (BELOW OVERLINER)
NOTES
1. THE BASE TOPOGRAPHY SHOWN ON THIS DRAWING WAS COMPILED FROM AERIAL SURVEY PERFORMED BY NVS GEOSPATIAL, DATED JUNE 3, 2025.
2. VERTICAL DATUM BASED ON NGS MEAN SEA LEVEL. CONTOUR INTERVAL IS 2.0 FT. GRID BASED ON N.Y. STATE PLANE COORDINATE SYSTEM NAD 1927.
3. EXISTING GAS SYSTEM BASED ON ESTIMATED AND ACTUAL ASBUILT CONDITIONS.
A 2025-10-27 SUBMITTED TO CLIENT
REV. YYYY-MM-DD DESCRIPTION
DESIGNED PREPARED REVIEWED APPROVED
CLIENT
WASTE MANAGEMENT OF NEW YORK, LLC.
HIGH ACRES LANDFILL AND RECYCLING CENTER
PERINTON, NEW YORK
CONSULTANT
wsp
BRISTOL, PA
10 CANAL STREET, SUITE 217
BRISTOL, PENNSYLVANIA 19007
USA
215-826-1500
www.wsp.com
PROJECT
2025 GAS SERVICES
TITLE
GCCS (RADIUS OF INFLUENCE)
PROJECT NO.
0022690.0257
CONTROL
F001
REV.
0
SHEET
1 of 1
F-1

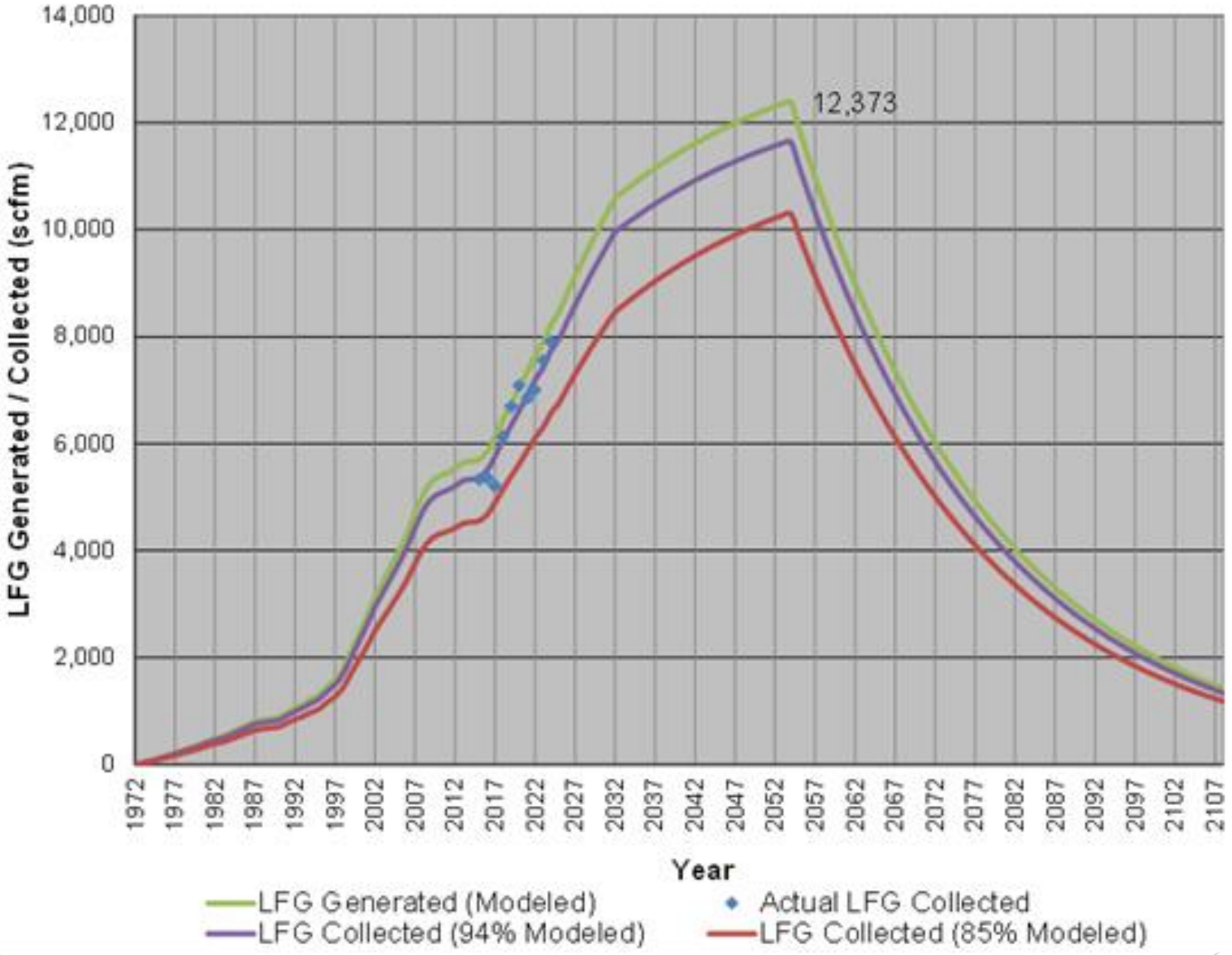
Landfill Horizontal Gas Collectors



SECTION B-B'

LFG Model Parameters
AP-42 Model (Lo = 100 m^3/Mg, k = 0.04 yr^{-1})
100% putrescible waste for 1972 - 2031
80% putrescible waste for 2032 - 2053

High Acres Landfill
Updated Landfill Gas Model



2024 Landfill Gas Summary

Collection/Conveyance

- 422 gas collection wells
  - 360 vertical, 62 horizontal
- 30 header locations monitored weekly, and 105 wells read at least twice per month
- Miles of horizontal gas collectors
- Miles of laterals, vacuum lines, headers
- 99.9% Runtime
- Perimeter gas migration monitoring, 23 locations

2 Enclosed Flares
+ 4500 CFM
+ 6000 CFM

1 Open Flare
+ 3500 CFM

8 CAT Engines (Gas-To-Energy)
(4) - 3516 = 1320 CFM
(4) - 3520 = 1800 CFM
3120 CFM

Gas Flared
2,871,957 MCF

Gas Quality = 50%
(Good Well Field Indicator)

Gas Utilized
1,557,342 MCF

Four C's

- Control Devices (Flares/Engines)
- Convenance
- Collection
- Cover

Control Devices-

(Guarantee available vacuum with redundancy)

- 3516 Powerplant
- 3520 Powerplant
- Enclosed Flare 1
- Enclosed Flare 2
- Open Flare

Well Field (Collection and Conveyance)

- 422 Gas Collection Devices
- Miles of horizontals installed every 20ft vertically and 100ft horizontally
- Well points monitored either 1x or 2x per month
- All data logged into LGMS
- Demonstrates negative pressure on entire waste mass (Radius of Influence)

Surface Emissions Scans

- 3rd party contractor walks the facility in a serpentine pattern 4x/year scanning the surface of the landfill for potential gas emissions
- Scan at 2.5x regulatory requirement or 200ppm vs 500ppm
- No regulatory violations

Perimeter H2S Monitoring

- H2S monitoring stations at 5 locations, North, South, East, West, and Northside Dudley School
- Since 2018, more than 1.3M samples with no landfill-related exceedances

NYSDEC 24-hr Notification/Verification System

Third party company of trained and certified inspectors

NYSDEC Hotline

- 3rd party contractor certified and trained in the use of the N-butanol scale (Towpath)
- Trained in types of odor ex: garbage, gas, wetland, and other
- **2024- 92% of any confirmed odors were not LFG related**

Daily Perimeter Odor Monitoring

- 2x/day Towpath drives a predetermined route around the entire vicinity of the facility to evaluate the presence of odors
- Towpath records weather conditions, route of travel and whether odors do or do not exist
- In the event an odor is present, Towpath records the type of odor, strength and location
- **2024- 99.5% of any confirmed odors were not LFG related**

NYSDEC Monitor

- Full-time NYSDEC monitor issues the facility a daily report card
- Monitor also drives perimeter of the facility and adjacent neighborhoods to evaluate odors/LFG NYSDEC findings consistent with Towpaths

To reach the hotline, call 585-453-2416.

2024 NYSDEC Odor Hotline Statistics

NYSDEC Hotline Data Collection Summary YTD (1/1/2024 – 12/28/2024):

308	Total number of calls
57	Total number of individual callers
44.9%	Percent of Investigated Hotline Calls (137) with **no odor detected**
51.1%	Percent of Investigated Hotline Calls with Confirmed Off-Site landfill Odors (156) **Scaled at 0.5, 1**
3.9%	Percent of Investigated Hotline Calls with Confirmed Off-Site landfill Odors (12) **Scaled at 1.5, 2**
87%	Calls represented by top 20 callers

Town Communication:

- Real-time and weekly notification to Town officials and posted on website
- Updates found at **highacreslandfill.wm.com**

Third Party Environmental Monitoring – Sampling, Analysis, and Reporting

GEI Consultants	Barton & Loguidice, Inc.	PACE Analytical Services
Manages landfill environmental monitoring program and reporting	Conducts field sampling for environmental monitoring program	NYSDOH ELAP certified laboratory in accordance with the NYSDEC's ASP – Laboratory analysis

EMP (cont'd): Media Sampled/Monitored Quarterly

- **Each quarter we collect over 50 surface water and groundwater samples and analyze for up to 150 constituents.**
- **Groundwater**
  - **50 Total wells**
  - 23 wells (Western/Phase I/II Parkway Area)
  - 12 wells (Phase II Parkway Area)
  - 15 wells plus hydraulic monitoring of 28 piezometers (Closed Landfill Area)
  - On-site groundwater suppression systems
- **Surface Water/Sediment**
  - 3 locations (Off-site stream)
  - 5 On-site detention ponds

Leachate

- 13 Leachate samples at individual landfill cells and 1 Closed landfill
- 13 samples of liquid in secondary systems

Environmental Monitoring Summary/Conclusion

- 2024 - Sampling and analysis indicate active landfill operations (Western and Parkway Landfill Areas) have not impacted groundwater or surface water flow or quality.
- Consistent with historic trends - Groundwater monitoring at the Closed Landfill area identified landfill gas impacts at two well locations. Continues to be monitored and reported to the NYSDEC.
- Seasonal fluctuations or increasing trends in concentrations of chloride and sodium are attributed to roadway safety de-icing activities.
- Leachate conveyed to the Monroe County Pure Waters WWTP was in compliance with permit conditions.
- Gas migration probes indicate no offsite migration.

2024 Annual Noise Survey

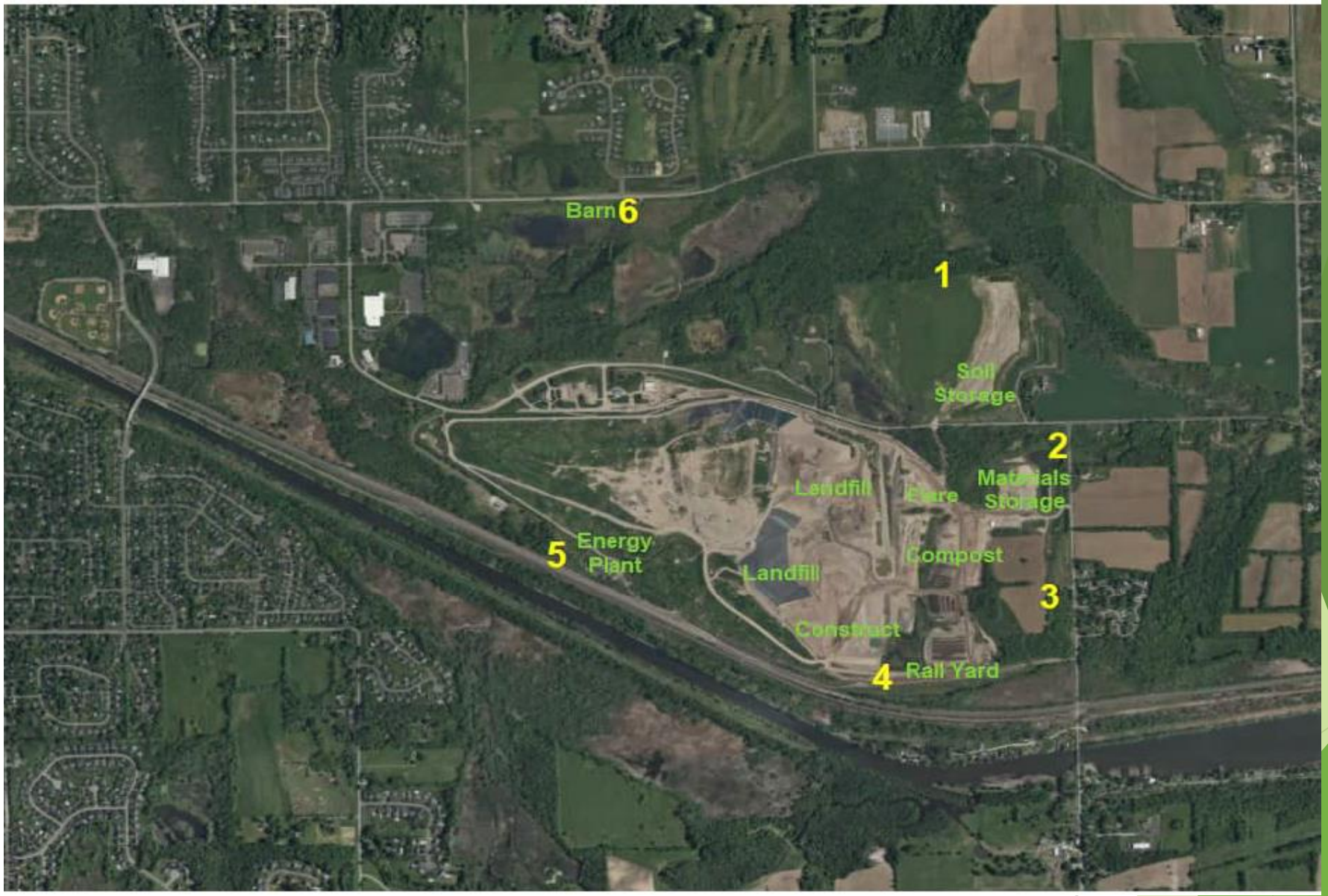
6 NYCRR Part 360 Section 360-1.19 paragraph (j) states:

(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.*
Suburban	*62 dBA*	*52 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.

Note: only 5 & 6 are located in Perinton.



At all 6 locations, facility sound levels are determined to be acceptable referencing daytime and nighttime sound level limits for the suburban community character of Part 360 – 1.19 (j)

Closure/Post-Closure NYSDEC Approval

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Materials Management, Region 8
6274 East Avon-Lima Road, Avon, NY 14414-9516
P: (585) 226-5411 I F: (585) 226-2909
www.dec.ny.gov

SENT VIA E-MAIL (dcross7@wm.com)

October 23, 2024

Mr. David Cross
Waste Management of New York, LLC
425 Perinton Parkway
Fairport, NY 14450

Dear Mr. Cross:

Re: Revised Closure and Post-Closure Cost Estimates
High Acres Landfill, Perinton (T), Monroe (C)

The estimated total cost for closure of the landfill and post-closure care, which has increased to $52,270,927, is hereby approved. Please provide the Department with an executed original surety bond rider or other form of financial assurance acceptable to the Department in the above amount along with an updated Standby Trust Agreement.

Should you have any questions, feel free to call me at (585) 226-5410 or e-mail mark.amann@dec.ny.gov.

Sincerely,

Mark Amann

Mark Amann, PE

Ec: G. MacLean – NYSDEC
D. Kay – NYSDEC
J. Richardson – WMNY

Community Outreach

The Fairport-Perinton Chamber of Commerce

- ***Weekly and Quarterly Operational Updates***
- **learn more at highacreslandfill.wm.com**
- **Open House- 2025 High Acres, again in 2027**
- **Landfill Tour| Information Fair | Kids Games | Food | Prizes**

Fairport Rotary Club

Crescent Trail — A Footpath in Perinton — est. 1980

Fairport Music Festival

Fairport Music Festival

Fairport Music Festival

High Acres Sports Complex

June 1-2, 2024
Fairport Canal Days
Arts • Music • Food
Produced by Fairport

Established 2000 — Fairport Perinton Partnership — For a Better Community

Country Club of Perinton

Greater Rochester Soap Box Derby

Renewable Energy at High Acres

Future: Renewable Natural Gas Project (RNG)

- Constructing a state-of-the-art RNG facility, in the Town of Macedon, on HALF property, approx. 1 acres 40,000 sq ft building
- These projects beneficially utilize the landfill gas that is generated when organic material decomposes in a landfill
- This project will replace High Acres existing landfill gas–to–electric with landfill gas–to–pipeline (RNG)
- WM has committed to reducing greenhouse gas emissions 42% from 2021 levels. This facility plays a key role in meeting that goal.
- 100,000 MT CO2 equivalent/year avoided emissions = 21,000 cars/year
- Nationally, 100% of WM's fleet will be fueled by RNG, by 2026

Located in the Town of Macedon

In Closing

- High Acres remains in compliance with all local, state and federal permits.
- A review of the site's gas collection and control system, operating records, odor control programs, off-site H2S monitoring data, quarterly surface scans, DEC Hotline notifications and follow up data from a trained odor detection consultant, and DEC inspection reports, all indicate that the Landfill is operating in a manner that minimizes off site odors to the greatest extent practicable.
- NYSDEC continues to encourage the use of the Hotline as the preferred method of reporting odor notifications.
- WM remains vigilant in our evaluation and implementation of best management practices and technology to enhance operations.

Thank you

Marc Meyer | District Manager| mmeyer1@wm.com

https://highacreslandfill.wm.com/