

NEW YORK STATE ENVIRONMENTAL QUALITY REVIEW ACT (SEQR)
FINAL SCOPING DOCUMENT FOR
DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT (DSEIS)
PROPOSED SOUTHERN EXPANSION
CHAFFEE LANDFILL
TOWN OF SARDINIA, ERIE COUNTY, NEW YORK

June 2020

PROJECT SPONSOR:

Waste Management of New York, L.L.C.
10860 Olean Road
Sardinia, New York 14030

SEQR LEAD AGENCY:

New York State Department of Environmental Conservation, Region 9
270 Michigan Avenue
Buffalo, New York 14203

CONTENTS OF SCOPING DOCUMENT:

- I. Background
- II. SEQR and the Scoping Process
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I. BACKGROUND

Waste Management of New York (“WMNY” or “project sponsor”) is seeking to develop additional airspace at its existing landfill (“Landfill”) located at 10860 Olean Road in the Town of Sardinia, Erie County, New York. The project, known as Area 7/8 Development, would add approximately 30 acres of permitted Landfill cell area used for the disposal of municipal solid waste (“MSW”). It would also include two new on-site soil borrow areas of approximately 11.9 acres and 8.9 acres, from which soils would be excavated for Landfill construction and operation.

WMNY is also seeking an increase in the existing maximum permitted Landfill height by 30 feet; the existing maximum elevation of 1658 feet MSL would increase to 1688 feet MSL. The type of waste being received at the facility (Municipal Solid Waste) is not proposed to change. In addition, the approved design capacity of the Landfill, which is 2770 tons per day (TPD), would not change. As a result, there will be no increase in truck traffic associated with the waste disposal operations of the Landfill beyond existing levels of traffic. However, Landfill operation would be extended approximately 6 to 7 years, depending upon the waste volume received in any given year.

The project sponsor must obtain the following project approvals from the New York State Department of Environmental Conservation (“NYSDEC”): modification of its existing Solid WMNY Facility permit under 6 NYCRR Parts 360 and 363 (“the Part 360/363 permit”); modification of its existing Title V permit under Environmental Conservation Law Article 19 (“the ATV permit”); and coverage under the SPDES Multi-Sector General Permit for Stormwater Discharges from Industrial Activities (GP-0-17-004). WMNY must also obtain approval from the Town Board of Sardinia (“Town Board”) for a modification to the existing Special Use Permit. The Town Board approval is preceded by review and a recommended decision from the Town Planning Board. The Town Planning Board would also be requested to approve a zoning change for the two proposed soil borrow areas.

II. SEQR AND THE SCOPING PROCESS:

This proposed project is being reviewed under the New York State Environmental Quality Review Act (“SEQR”) to identify potentially significant adverse environmental impacts and to establish methods and procedures to prevent or mitigate these impacts. The SEQR Lead Agency is the agency that has the responsibility to coordinate the environmental review process. NYSDEC has been identified as the SEQR Lead Agency for this process after coordinating with the Town and the County as required under the regulations. A positive declaration has been issued by the NYSDEC, requiring the preparation of an Environmental Impact Statement for the proposed Project. A Supplemental Environmental Impact Statement (SEIS) will be prepared for this project, since the Landfill was the subject of a Final Environmental Impact Statement (FEIS) in 2006.

A scoping document describes the content and format of a DEIS and is used by the lead agency to determine when a prepared DEIS is adequate for public review. This scoping document identifies the issues to be addressed in the DSEIS, which will be prepared to analyze and evaluate this project, and is intended to assist involved parties and interested individuals, in providing input on the environmental issues to be addressed.

A draft scoping document is prepared in accordance with the SEQR regulations at 6 NYCRR § 617.8, which includes a requirement for public participation in the development of the scoping document. Before NYSDEC finalizes the scoping document, public input received on the draft

scope is reviewed and considered. Steps in the SEQR process during which the public has an opportunity to participate are described briefly below:

- **SCOPING** – Under 6 NYCRR § 617.8(a), scoping is a process in which the issues to be addressed in an EIS are identified. Written public comments are received on the draft scope to assist the lead agency in determining what should be discussed and evaluated in the DSEIS for the project. The objectives of scoping are to:
 - Identify potentially significant adverse environmental issues;
 - Eliminate insignificant or irrelevant issues;
 - Identify limits of the project's impacts;
 - Identify the range of reasonable alternatives to be addressed; and
 - Identify potential mitigation measures.

- **DRAFT SUPPLEMENTAL ENVIRONMENTAL IMPACT STATEMENT (DSEIS)** -- Potentially significant adverse environmental impacts associated with the proposed Project, which have not already been addressed in the earlier SEQR analyses, will be addressed in a DSEIS. Copies of the DSEIS and supporting documents, including the 2005 DEIS, 2006 FEIS and 2006 NYSDEC Findings Statement prepared for the western expansion of the Chaffee Landfill, will be made available for public review. The 2005 DEIS, 2006 FEIS, and 2006 Findings Statement mentioned above, addressed many of the potential environmental impacts that would apply to the current proposal, including traffic issues, noise impacts to the north, west and east of the site, odor issues, and socioeconomic impacts. The DSEIS prepared for this project will supplement and update impact evaluations provided in the 2005 DEIS. A minimum of thirty days is provided following completion of the DSEIS for the public to review and provide written comments on the DSEIS.

- **PUBLIC HEARINGS** – A public hearing to receive public comments may be held following completion of the DSEIS and formal acceptance by the SEQR lead agency, if deemed necessary by NYSDEC.

III. DSEIS OUTLINE

A preliminary outline of the Draft Supplemental Environmental Impact Statement (DSEIS) is presented below in the form of a DSEIS Table of Contents. This outline will be modified, as necessary, based on comments received from involved/interested agencies and the public during the scoping process described above. Detailed descriptions of the analyses and information to be provided for each section of the DSEIS are provided in Section IV.

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Each section below describes the information and analyses to be included in the DSEIS. In addition, background information is included to provide some preliminary information about the project itself. These sections follow the scope outline above.

COVER SHEET

In accordance with 6 NYCRR § 617.9(b)(3), this will include a single-page cover sheet identifying the type of document (draft, final), title of project, location, name and address of SEQR Lead Agency contact person, name and address of document preparer, date of Lead Agency acceptance, and deadline for acceptance of public and agency comments.

TABLE OF CONTENTS

This will list the contents of the DSEIS and page numbers for each section.

GLOSSARY

This will provide an alphabetical list of common acronyms and terms used in the report and the definitions for each.

EXECUTIVE SUMMARY

In accordance with 6 NYCRR § 617.9(b)(4), this summary will present an overview of the project, provide a brief description of the overall proposed project, and the following:

- Description of action and setting
- Purpose and need for the project
- Impacts of action
- Benefits of action
- Mitigation proposed
- Alternatives
- SEQR status and actions to be taken

1.0 INTRODUCTION

1.1 HISTORY OF THE CHAFFEE LANDFILL AND DESCRIPTION OF EXISTING FACILITY

This section will summarize the history of the Landfill and describe the existing facility. It will include all or some of the following background information:

The currently permitted landfill began operation in 1958. The currently permitted capacity will be filled by about 2026.

The WMNY Facility is permitted to accept MSW at a rate of 2770 tons per day. Assuming this rate of disposal, the currently permitted cells will reach capacity in approximately 7 years.

The liner system for the currently operating facility is comprised of a double composite system as required by the current Part 363 Regulations. A composite liner consists of a combination low permeability soil and a high-density polyethylene liner. The system includes a leachate collection system over the composite liner, and a leachate detection system between the liners.

A groundwater monitoring system is in place, which includes collection of samples from the leachate collection system, and from groundwater wells and surface monitoring points surrounding the facility.

1.2 SEQR STATUS

This section will provide a brief summary of the prior SEQR reviews conducted for the landfill. The DSEIS will also provide a summary of the key decisions made in the current SEQR review, up to the DSEIS acceptance date. Note that since this is a “Supplemental” EIS, only new or incremental impacts will be evaluated. Reference will be made to prior SEQR reviews for evaluation of existing impacts. Copies of the SEQR FEAF, positive declaration, and final scoping document will be included as an appendix to the DSEIS.

1.3 APPROVALS REQUIRED

This section will provide an overview of the local, state and federal permits and approvals presently anticipated to be required for the proposed project, the agencies responsible for the approvals, and the applicable law or regulations associated with each approval. The information will be provided in a table, and this table may be revised as additional information is obtained in the course of the scoping process or in the review of the DSEIS. This table (Table 1.0) is attached to this scope.

1.4 ORGANIZATION OF THE DSEIS

This will include a brief statement to instruct the reader on the organization and content of the DSEIS.

2.0 DESCRIPTION OF PROPOSED ACTION

This section will describe the proposed action subject to review in the DSEIS (i.e., the project), in accordance with 6 NYCRR § 617.9(b)(5)(i). It will be provided in narrative form, but also include reference to maps, drawings and technical reports that provide the reader sufficient detail to clearly understand the project. The information will include the background information below, organized into the Sections 2.1 - 2.5 below. In addition, to the background information, additional items to be included are identified in each section.

Background information:

WMNY proposes to develop approximately 30-acres of permitted Landfill cell area to the south of the existing landfill. The development will be contiguous to and overlay the existing landfill, as shown on Figure 1. The permitted cell elevation will increase by 30 feet, from 1658 feet MSL to 1688 feet MSL.

The project will include ancillary operations and facilities, including the excavation of soils for Landfill construction. Two proposed soil borrow areas are on WMNY property to the north and south of cell area.

The proposed development will add approximately 4.7 million cubic yards of disposal capacity, which will extend the site life by approximately 6 years, depending on the rate of waste receipt.

The Landfill will be designed, constructed and operated in accordance with the State's solid waste regulations at 6 NYCRR Part 360 and Part 363. WMNY will be required to obtain a Part 360/363 permit modification for the proposed development from the NYSDEC Region 9 office at 270 Michigan Avenue, Buffalo, New York 14203. Required State and other permits or permit modifications are listed in Section 1.3 of this document.

Since some of the construction activities will occur in wooded areas, the first step will be to log, clear and grub the area. Surficial soils will be stripped and stockpiled for later use during the Landfill operation stage.

The Landfill will be developed in phases. It is anticipated that revegetation of completed cell areas will be established within three months of placement of the final cover.

The permitted disposal rate will remain at 2770 tons per day, which means that there will be no increase in levels of truck traffic.

Landfill operations that will continue at the site as they have in the past, include the following:

- Access to the proposed Landfill development area will be via the same public highways;
- Final cover design will be in accordance with 6 NYCRR Part 363 requirements; and
- Monitoring and maintenance will be similar to that required for the currently permitted Landfill, and will be in accordance with 6 NYCRR Part 363 requirements.

Waste Types and Cell Design

The WMNY facility disposes MSW. No hazardous wastes, as defined in the pertinent State regulations (6 NYCRR Parts 371), are permitted to be disposed at the Landfill.

As required for landfills receiving this type of waste in New York State, the currently used Landfill cells have been constructed with a double composite liner, a leachate collection system, and a leachate detection system. The new cells will be constructed in the same way. This type of liner system is currently being used for other MSW landfills, and provides an environmentally protective leachate barrier.

Landfilling Sequence and Method

The Landfilling operation is a phased operation, with Landfill cells to be constructed as needed, depending on market conditions for waste disposal. The new Landfill cells (Cells 7 and 8) would be developed to the south of the existing cells.

Equipment used during the construction and operation of the facility is expected to include graders, crawler tractors, front-end loaders, hydraulic excavators, dump trucks, soil screens, water trucks, waste compactors, and soil compactors, all similar to the equipment used for construction and operation of the existing Landfill.

Within each phase of the landfilling operation, final cap construction and closure will proceed on a cell-by-cell basis, as soon as practicable (i.e., after settlement), after each cell is filled.

Grading and Setbacks

Applicable NYSDEC regulations and guidance, will be followed in the implementation of landfilling activities. The proposed new landfill disposal cells will be at least 100 feet from property lines. The cell caps will be designed with slopes no more than 33% and no less than 4%.

Operating Hours

Permitted periods of operation (related to the acceptance and disposal of waste) are Monday through Friday from 7 a.m. to 5 p.m., and on Saturdays from 8 a.m. to 1 p.m. Cell construction activities are permitted Monday through Friday from 7 a.m. to 8 p.m. and on Saturdays from 7 a.m. to 5 p.m. These hours of operation and construction will not change. Landfill maintenance activities not requiring earth moving equipment will occur on an as needed basis.

Storage of Materials and Disposal of Wastes

On-site storage areas for wood from clearing activities will be limited to temporary staging. Wood waste that cannot be sold for lumber or firewood is expected to be chipped and stored on-site and used as mulch during site restoration. This procedure is the same as with the existing Landfill.

Stripped overburden soils, along with the associated low level vegetation (grasses, shrubs, etc.) will be stockpiled and used during site restoration.

Waste petroleum products (from equipment maintenance) and certain other wastes generated at the facility, such as fluorescent bulbs, tires, and waste solvents are not

disposed of on-site. These wastes are instead properly containerized and routinely transported to permitted off-site disposal or recycling facilities as required by NYSDEC pursuant to 6NYCRR Part 364.

Wastes not accepted at the facility from any source include waste petroleum products, hazardous wastes, radioactive wastes, liquids, wastes with free liquids, and wastes with a solid content less than 20%.

The DSEIS will contain the background information above as well as the following:

- Physical dimensions and location of the proposed cell development area
- Types of MSW wastes accepted, including approximate annual quantities of each type.
- Borrow Area Use Plan (BAUP)

2.1 PROJECT PURPOSE AND NEED

This section will include a statement of the project's purpose and need that explains the following:

- Regional and statewide need for MSW waste disposal facilities.
- Current remaining life of the existing facility and estimated remaining life if the project is approved.
- Benefits to the local area and region of continuing operation of the facility.

2.2 LOCATION, CURRENT LAND USE, AND ACCESS

Background Information:

The Landfill site (the site) is located in the Town of Sardinia, Erie County, New York. The existing Landfill is approximately 1.5 miles northwest of the Hamlet of Chaffee. Site access is from NYS Route 16, with the entrance to the Landfill site on the west side of Route 16. Internal roadways have been developed on-site to provide access to various parts of the facility.

The present Landfill operation (Landfill cells, ancillary facilities, and unused buffer areas) occupies approximately 500 acres of land west of NYS Route 16. The proposed additional cell footprint (30 acres, of which 10 acres will be valley fill between the new cell area and the Closed Landfill) and ancillary facilities including two soil borrow areas totaling about 20.8 acres, and other support facilities, will affect land areas totaling approximately 94 acres.

The proposed 94 acres of affected area are presently comprised of currently active landfill and landfill support facilities areas, meadows, agricultural and forested land. A portion of the development area is a reclaimed soil borrow area to the south of the existing Landfill. The cell development and borrow areas are in Erie County Agricultural District 15.

Vegetation on the site consists of a mixture of evergreen and deciduous trees, as well as some open grasslands and agricultural fields, which are typical for the region. All of the habitat types which exist in the unused portions of the site are available in abundance in the surrounding area.

The topography of the site and the surrounding area is shown in Figures 2 and 3.

This section of the DSEIS will contain the background information above, as well as the following:

- Description of the site, including the area, boundaries, topography.
- Description of access route, distance to heavily populated areas.
- Description of man-made facilities presently in existence, and amount of area impacted by these facilities.
- Description of facilities proposed and components of the development, and amount of area to be impacted by the proposed facilities.

2.3 LAYOUT AND CAPACITY

This section of the DSEIS will include the following:

- A figure will be presented (and discussed) showing the proposed locations and configurations of the cell area, maintenance and office buildings, on-site roads and parking areas, drainage ditches, sedimentation ponds, property boundaries, and any other key features of the proposed project.
- The approved design capacity (disposal rate) will be identified, as well as the increased disposal volume, and increased remaining site life that would result from the proposed project.

2.4 DESIGN, CONSTRUCTION AND OPERATION

This section of the DSEIS will include the following:

- Regulations governing the design, construction, and operation of the proposed Landfill development were revised on November 4, 2017, and are contained in 6NYCRR Part 360 and Part 363. These new regulations, and the expanded requirements they impose on landfill design, construction, and operation, will be identified and described in the DSEIS.
- The components of the expected Part 360/363 Permit Modification Application package will be identified and briefly described. These components include:
 - o Engineering Drawings (Part 363-4.2) – These drawings show the proposed cell development location, property boundaries, adjacent land uses, and detailed construction plans, providing all details relative to the design and development of the new cell area and related facilities. These plans also indicate the sequential development and fill progression of the landfill, and describe the seeding and planting plan. In addition, these documents show the

- manner and methods used to close the landfill once full capacity is reached.
- Engineering Report (Part 363-4.3) – The Engineering Report provides a description and analysis of the proposed facility; including a landfill liner subbase settlement analysis, structural integrity and overall slope stability analysis, seismic stability analysis, a description and analysis of the leachate collection and removal system, design information for a stormwater conveyance system, and a Borrow Area Use Plan. Specifications for materials and equipment and quality assurance and control procedures are included as an appendix to the Engineering Report.
 - Facility Manual (Part 363-4.6) – This manual describes the anticipated day-to-day facility operations throughout the active life of the landfill, addresses appropriate sequencing of all major landfilling activities and demonstrates how the landfill will meet the operating and reporting requirements. It includes a sustainability plan, post-construction care plan, fill progression and placement plan, waste control plan, cover management plan, environmental monitoring plan, site analytical plan, leachate management plan, odor control plan, gas monitoring and emissions control plan, winter and inclement weather operation plan, radioactive waste detection plan, emergency response plan, and end use plan. Note that the operation and maintenance requirements outlined in 6 NYCRR Part 360.19, are covered in the Facility Manual.
 - Hydrogeologic Report (Part 363-4.4) – This report describes the landfill site geology and hydrology in detail, and relates these factors to regional and local geology and hydrogeology
- A construction schedule will be presented and discussed.
 - The liner and cover systems will be described.
 - The anticipated Landfill progression (stages of construction) will be shown in a figure and described in the text.
 - Types of equipment used for construction and operation of the Landfill will be discussed.
 - Leachate management (collection and removal system, and storage facilities) will be described.
 - Stormwater management facilities and practices will be discussed, including drainage ditches, swales, sedimentation ponds, and seeding of disturbed areas. The requirements of the SPDES Multi Sector General Permit (GP-0-17-004), and Stormwater Pollution Prevention Plan (SWPPP) will be described. Technical stormwater design support information will be referenced as being part of the Engineering Report.
 - The environmental monitoring plan will be described, including facilities, monitoring locations, procedures, and reporting.
 - Bedrock separation distance from the Landfill liner system will be presented and discussed.

2.5 CLOSURE AND POST CLOSURE

The DSEIS will include the following:

- The final cover system will be described, with references to the 6 NYCRR Part 363 design requirements, and the Facility Manual.
- The minimum period of post closure monitoring and maintenance, and the financial and operational responsibilities of WMNY, will be specified.
- The reclamation objective for the entire site will be described.

3.0 ENVIRONMENTAL SETTING, POTENTIAL SIGNIFICANT ENVIRONMENTAL IMPACTS, AND MITIGATION MEASURES TO MINIMIZE ENVIRONMENTAL IMPACTS

The DSEIS will describe the environmental setting (existing conditions), potentially significant adverse environmental project impacts, and mitigation measures for those impacts within each of the topic areas identified below. It will also describe those adverse environmental impacts that cannot be avoided or adequately mitigated if the proposed action is implemented. Technical reports supporting the analysis provided in each section shall be included as appendices to the DSEIS in the Appendices section.

3.1 LAND USE AND ZONING

3.1.1 Environmental Setting

The DSEIS will include the following:

- The existing land use on the site and nearby properties will be described.
- Existing zoning classification(s) of the site and nearby properties will be described. A map of the zoning classification(s) will be provided.
- It will be noted that the cell development and borrow areas are in Erie County Agricultural District 15.
- The DSEIS will describe the existing public infrastructure located within the proposed development area including, but not limited to, structures, and roads and utilities (e.g., gas, water, sewer, and telecommunications).

3.1.2 Significant Environmental Impacts

The DSEIS will include the following:

- Discussion of proposal's consistency with existing land uses and compatibility with surrounding land uses.
- Discussion of proposal's consistency with existing zoning and compatibility with surrounding zoning.
- The diversion of land from agricultural use to soil borrow in the clay borrow area will be addressed.
- A map of the proposed zoning classification(s) will be provided. In addition, a site plan of the facility showing proposed zoning requirements (e.g., setbacks).
- Potential impacts on public infrastructure and demands on public services (e.g., emergency services). This should include discussion of any potential impacts to nearby towns.

3.1.3 Environmental Impact Mitigation

The DSEIS will include the following:

- The DSEIS will describe any potential measures to mitigate impacts on public infrastructure.
- The Town of Sardinia's mitigation measures/requirements for industrial use of the site will be described, if applicable.
- Compliance with the requirements of article 25-AA, section 305 of the Agriculture and Markets Law (related to diversion of farmland to other uses) will be discussed.
- A description of the post closure use planned for the site, including the borrow area and landfill. A Borrow Area Use Plan (which will include a reclamation plan) will be prepared and attached to the Part 360/363 Application. This plan will be referenced in the DSEIS.

3.2 SOCIOECONOMIC IMPACTS

3.2.1 Environmental Setting

The DSEIS will include the following:

- Data on population and income for the Town of Sardinia will be summarized.
- Assessment of whether the site is within an area potentially subject to the DEC Environmental Justice Policy (CP-42).

3.2.2 Significant Environmental Impacts

The DSEIS will include the following:

- Potential impacts on population and income will be discussed.
- Number of permanent and temporary (construction related) jobs at the Landfill will be quantified.

3.2.3 Environmental Impact Mitigation

The DSEIS will include the following:

- An evaluation of potential impacts and recommendation of mitigation measures.
- Discussion of Host Municipality Agreement and associated Property Protection Plan.

3.3 GEOLOGY/SOILS

3.3.1 Environmental Setting

Background Information:

The Landfill Facility is located in the Erie-Niagara Drainage Basin and is situated on glacially-derived soils known as the Lake Escarpment moraine.

USGS geologic cross-sections (Miller and Staubitz, 1985) show geology below the Landfill Facility and indicate that over 400 feet of alternating layers of till and silty, sand and gravel soils overlie shale bedrock below the site. Prior Site investigations at the Chaffee Landfill Facility identified low permeability till (clay till) at the ground surface across the majority of the Site.

The surficial soil types on the site were identified using maps prepared by the United States Department of Agriculture, Natural Resources Conservation Service (NRCS), entitled "Soil Survey of Erie County, New York." The predominant soil types are Williamson Silt Loam in the northern borrow area (Borrow C); Rhinebeck Gravelly Loam in the Landfill development area; and Erie Channery Silt Loam in the Borrow Area to the south.

The DSEIS will contain the background information above as well as the following:

- The DSEIS will identify the existing environmental setting, including the soil and rock formations that exist in the project area.
- A general description of regional geology will be included.
- A detailed description of site geology, including topography, soil characteristics (e.g., erodibility) and type, and soil unit thicknesses, will be provided.
- Subsurface investigations performed on the site will be summarized. Supporting technical data in the form of hydrogeologic data and calculations will be provided in an appendix.

3.3.2 Significant Environmental Impacts

The DSEIS will include the following:

- The DSEIS will address geologic & engineering landfill design considerations. Discussion of subsurface geologic investigations, such as stratigraphic test wells and relevant soil sampling & testing.
- Discussion of any variance(s) needed.
- The DSEIS will discuss the borrow area design. The DSEIS will identify potential impacts to soils and the subsurface due to the soil borrow area, excavation, altered topography, and use of soils for construction of liner and cover systems. This will include estimates of overall soil quantities needed for construction and available on-site.
- For any shortages of soil that are identified, discussion of alternative soil sources must be identified and impacts evaluated.
- Borrow Area Use Plans will be provided for the soil borrow areas consistent with 6 NYCRR § 363-4.3 and included as an appendix. The Borrow Area Use Plans will describe impacts within the soil borrow area.

3.3.3 Environmental Impact Mitigation

The DSEIS will include the following:

- The DSEIS will discuss design requirements for construction of the landfill project related to soils and subsurface geology. This will include bedrock separation, placement of intermediate and final cover materials, re-vegetation of the site, and erosion and sedimentation control during construction and operation.
- Discussion of proposed measures to demonstrate that any variance(s) related to bedrock separation and geology/soil requirements sought will have no significant adverse impacts.
- For the borrow areas, the DSEIS will discuss measures to mitigate soil erosion during operations and discuss final reclamation requirements and objectives. This discussion will be based on the BAUPs provided in the appendix.
- The DSEIS will discuss an analysis and impact of increased loading from the overfill on the existing piping and liner sections. The analyses will include pipe crushing, subgrade settlement and liner strain evaluations and will show how the systems will continue to function in accordance with the applicable regulations under the increased loading.

3.4 WATER RESOURCES – GROUNDWATER

3.4.1 Environmental Setting

Background Information:

Hydrogeological investigations of the Landfill site were conducted during previous permitting processes. Additionally, as part of current Landfill monitoring activities, groundwater monitoring wells have been installed around the facility. Numerous test borings, groundwater monitoring wells, and test pits have been logged, sampled and tested over the site area. Water level and water quality data are collected quarterly from monitoring wells to obtain representative groundwater samples from the various soil units underlying the Landfill site. NYSDEC GIS aquifer mapping shows the Chaffee Landfill Facility located on “Moraine”. The sampling and testing has created an extensive database, consisting of well/test boring logs, water level data and chemical analyses, that is used to characterize and monitor hydrogeological conditions and water quality trends. To supplement the existing data, an additional hydrogeologic investigation is currently being performed in the proposed project area. A Hydrogeologic Investigation Report will be prepared in accordance with 6 NYCRR § 363-4.4 and included in the Part 360/363 Permit Modification Application.

The DSEIS will contain the background information above as well as the following:

- The DSEIS will describe the existing groundwater resources located within the proposed Landfill and the new soil borrow areas. Prior to the writing of the DSEIS groundwater section, hydrogeological data and

evaluations will be developed for the proposed new areas. This information will include an evaluation of the NYCRR § 363-5.1 Siting Requirements and be summarized in the DSEIS.

- The DSEIS will include a description and discussion of the Cattaraugus Creek Basin aquifer system.
- The DSEIS will include a summary of existing groundwater data collected at the site during existing monitoring.
- An appendix containing Hydrogeologic support information will be referenced and applicable information will be summarized in the following sections:
 - o Environmental Setting
 - o Depth of the water bearing zones (and reasonable variability) will be described for areas under and adjacent to the cell area.
 - o Groundwater descriptions will include water quality, direction of flow, and rate of flow.
 - o Description of the hydrogeologic characteristics of the overburden soils.

3.4.2 Significant Environmental Impacts

The DSEIS will include the following:

- An evaluation detailing the potential short and long-term groundwater impacts from Landfill construction, operation and closure, including impacts from the construction, operation and closure of the soil borrow areas.
- An evaluation detailing the potential impact of liner construction on groundwater flow. Included will be an evaluation to consider if the landfill development may impact groundwater flows influencing on-site and nearby off-site surface water features.
- An evaluation detailing the potential impact of the proposed new borrow areas on groundwater flow. Included will be an evaluation to consider if the soil borrow pits may impact groundwater flows influencing on-site and nearby off-site surface water features.
- Potential impacts on the Cattaraugus Creek Basin aquifer system will be addressed.
- Chemical characterization of current leachate, and the expected changes to leachate generation (e.g., volume) due to the Landfill development project.

3.4.3 Environmental Impact Mitigation

Because of significant areas of soil disturbance and increased areas of double composite liner systems, surface water and groundwater resources on and in the vicinity of the Landfill will be described in the DSEIS. Potential impacts due to the proposed development of the permitted cell area and all appurtenant facilities will be evaluated. A "Hydrogeologic Study" will be performed (as required by 6 NYCRR Part 363-4.4.)

The DSEIS will include the following:

- Leachate management system (including collection, removal, storage, and transport) will be described.
- Composite liner system and leak detection measures will be described.
- The proposed environmental monitoring will be described, including proposed new groundwater sampling locations and parameters.
- Mitigation measures associated with groundwater flow impacts to downstream drainage and stormwater features.

3.5 WATER RESOURCES - SURFACE WATER

3.5.1 Environmental Setting

Background Information:

Surface water on the site drains to Hosmer Brook located south of the cell area, which is a tributary to Cattaraugus Creek. Hosmer Brook flows to the south, where it joins Cattaraugus Creek, more than 2 miles south of the Landfill site. Cattaraugus Creek then flows west for more than 30 miles, where it discharges into the Lake Erie.

Both Cattaraugus Creek and Hosmer Brook have water quality classifications of C (TS). The best usage of Class C waters is for fishing. The water quality should also be suitable for fish propagation, primary (e.g. swimming) and secondary (e.g. boating) contact recreation even though other factors (such as water depth or access) may limit its use for these purposes. Hosmer Brook has an additional water quality designation of TS, which means that it is a protected trout stream with waters suitable for trout spawning.

Surface water from the northern portion of the site (near the proposed north borrow area,) flows generally to the north via Tributary 30 to the East Branch of Cazenovia Creek. This tributary has been designated Class C(T), meaning the waters are suitable for trout.

The DSEIS will contain the background information above as well as the following:

- Description of the existing floodplain mapping and flood frequencies within the proposed development areas.
- Existing site drainage will be described.
- On-site and nearby off-site surface water features (ponds, streams) will be described, including quality and quantity. A summary of available water quality sampling data will be provided. The water quality study provided in the DSEIS will include locations, parameters, and frequency of surface water monitoring to provide baseline water quality.

- Classifications of on-site and nearby off-site surface water will be identified and discussed (e.g. C (TS) classification of Hosmer Brook).
- Documentation of existing facility performance with respect to protection of water resources.

3.5.2 Significant Environmental Impacts

The DSEIS will include the following:

- Potential for impacts to Hosmer Brook and Cattaraugus Creek from the proposed landfill development and soil borrow areas will be described.
- Discussion of on-site soil characteristics (i.e., high clay content) that increase potential for turbidity in on-site and off-site water bodies.

3.5.3 Environmental Impact Mitigation

Background Information:

Leachate from the Landfill is collected in tanks and periodically transported by tanker truck to permitted Wastewater Treatment Plant(s) for processing prior to discharge. Leachate generation will be described, and any impact of the project on leachate generation rates will be quantified. The method of leachate control and management will not change materially. Leachate management will be discussed as an ongoing method of management to avoid impacts to surface waters. This will include the locations and ongoing feasibility for offsite disposal.

Storm water control facilities and procedures, as defined in the facility's existing "Storm Water Pollution Prevention Plan," will not be significantly affected by the proposed changes, although the storm water retention ponds may be relocated and enlarged. This will be described in the DSEIS.

Because of significant areas of soil disturbance and increased volumes of leachate generation, surface water and groundwater resources on and in the vicinity of the Landfill will be described in the DSEIS. Potential impacts due to the proposed development of the permitted cell area and all appurtenant facilities will be evaluated. A revised preliminary "Storm Water Pollution Prevention Plan" (SWPPP) will be prepared for the construction and operation of the proposed project. In addition a "Hydrogeologic Study" will be performed (as required by 6 NYCRR Part 363-4.4.)

Note that analyses will be prepared as part of the design to meet the Part 363 requirements and the Multi-Sector General Permit for Stormwater Discharges from Industrial Activities (GP-0-17-004). The information, analysis and data will be documented in the form of studies, calculations and supporting data with sufficient detail to

support the preparation of the DSEIS, and will included in the Engineering Report.

The DSEIS will include a portion of the background information and the following:

- Leachate management system (including collection, removal, storage, and transport) will be described. Composite liner system will be described.
- Site drainage and stormwater management systems will be described.
- The BAUP will be discussed in terms of protection of surface waters
- Minimization of the borrow area foot print and suitable buffer distances between the borrow area and the streams, and other mitigation measures, will be discussed.
- The proposed environmental monitoring will be described including locations, parameters, and frequency of surface water monitoring. Monitoring to ensure protection of sensitive downstream resources (i.e., downstream trout-spawning waters) will be identified.
- Stormwater management measures will be described for management of increased runoff volumes and patterns for protection of water resources, including the Hosmer Brook. This discussion will include effectiveness of the stormwater management facilities that will receive combined runoff from existing and proposed landfill. It will also describe new measures, or modification to existing measures, to meet the criteria in the SPDES Multi-Sector General Permit (GP-0-17-004). The measures will be described in sufficient detail to determine physical footprint(s) and basic design criteria (i.e., storage volume, etc.). Construction schedule, sediment and erosion control measures, and monitoring requirements will be described. Technical stormwater design support information will be provided in the Part 363 Engineering Report.
- The DSEIS will describe the Development and Implementation of a Spill Prevention, Control, and Countermeasures Plan (SPCC) to reduce the risk of releases of contaminants to surface water, and to define response actions should such a release occur.

3.6 AIR RESOURCES

3.6.1 Environmental Setting

The DSEIS will include the following:

- The existing air quality, attainment/non-attainment will be discussed along with the current Title V Air permit conditions and compliance.
- Nearby sensitive receptors.

3.6.2 Significant Environmental Impacts

Background Information:

A potential impact on air resources is dust generation by construction activities and waste disposal vehicles. On an annual calendar basis,

construction activities would not be materially different from those currently occurring at the facility, although the total time period during which construction of cells would occur would be lengthened due to the increased life of the facility. Other potential impacts to air resources are related to occasional odors from waste decomposition and the formation of hydrogen sulfide and mercaptans which is currently managed by gas collection and combustion in the onsite gas to energy plant or flaring. Increased total volumes of waste in the landfill could result in increased volumes of landfill gas to be combusted, which could result in increased emissions of combustion products.

Air emissions from the facility are presently regulated under a Title V Permit, which will be modified to accommodate the proposed development project.

The DSEIS will include the background information above and the following:

- Potential air emissions expected to result from the new landfill cell development project will be identified and quantified in the DSEIS to evaluate potential impacts due to the proposed development of the permitted cell area and the borrow areas. The total combined emissions of the existing landfill and proposed cells will also be discussed. The adequacy of existing flare capacity will be described and compared to anticipate increases in emissions. A draft Title V permit application will be provided in an appendix as supporting technical information. See also the section on Odors in this DSEIS below.
- The potential for increased generation of landfill gas will be evaluated, and the significance of any increases will be evaluated.
- An inventory of potential fine particulate matter emissions from the existing landfill, landfill cell development project, and the borrow areas shall be provided in accordance with NYSDEC policy on fine particulate matter (CP-33, issued 12/29/2003) (PM_{2.5} refers to particulate matter with aerodynamic diameter of 2.5 microns or less). The calculations and supporting engineering information for the inventory will be provided in an appendix to the DSEIS.
- If the emissions inventory indicates that further modeling and evaluation of fine particulate matter emissions is required, then the modeling and evaluation will be prepared and provided in accordance with CP-33.
- A modeling evaluation of the entire facility, including the new cells, in accordance with 6 NYCRR Part 212 will also be provided as an appendix to the DSEIS.

3.6.3 Environmental Impact Mitigation

The DSEIS will include the following:

- The DSEIS will include a detailed discussion of existing and proposed air pollution control devices and emissions management (i.e., for dust).

- Potential mitigation measures will be described, including systems for collecting and treating Landfill gases and odors (see below for additional information on odors).
- Air permitting requirements will be described.
- Compliance with CP-33 will be described.
- Modeling evaluation of the entire facility, including the new cells, in accordance with 6 NYCRR Part 212 will be described.

3.7 ODORS

3.7.1 Environmental Setting

The DSEIS will include the following:

- Odor impacts related to landfill gases (mainly hydrogen sulfide and mercaptans) are generated by the decomposition of putrescible materials in the waste stream. Past odor from the facility will be described, including recent complaints, if any, and measures undertaken to minimize and address odors.
- Nearby sensitive receptors will be identified.
- A description of the landfill gas investigation program will be provided, including the sampling program (sampling locations, instrumentation, and testing methods) and a summary of findings to date.
- The existing odor abatement/management program will be described.

3.7.2 Significant Environmental Impacts

The DSEIS will include the following:

- The potential for odor impacts exist related to Landfill gases (mainly hydrogen sulfide and mercaptans) generated by the decomposition of putrescible materials in the waste stream. Due to the potential for increased hydrogen sulfide and mercaptans generation over current levels, potential odor impacts in the vicinity of the Landfill will be examined in the DSEIS to evaluate potential impacts and mitigation. The temporary exposure of previously landfilled waste during construction of the overliner may also result in odor impacts, and will be examined in the DSEIS to evaluate potential impacts and mitigation.
- An evaluation will also be completed to determine if the capacity of the existing gas control structures (flares and engines) are sufficient to appropriately address the additional proposed area, and to determine what modifications to the Title V air pollution control permit are required from the NYSDEC for project air emissions.

3.7.3 Environmental Impact Mitigation

The DSEIS will include the following:

- Potential mitigation measures will be described, including systems for collecting and treating landfill gases.

- Operational measures will be described including daily cover and other requirements (e.g. buffer distances).
- The existing odor abatement/management program will be updated if required, and a copy of the updated program documentation will be included in an appendix to the DSEIS.

3.8 NOISE

3.8.1 Environmental Setting

Background Information:

The noise level of ongoing operations and waste transportation is not expected to increase significantly, but would continue for approximately 6 to 7 more years, and buffer distances to some off-site receptors will be reduced. Due to the reduced buffer distances, noise impacts in the vicinity of the Landfill will be examined in the DSEIS to evaluate potential impacts and mitigation.

The DSEIS will include the following:

- Noise Standards for Solid Waste Management Facilities (Part 360.19 (j)) will be identified and described.
- The noise levels from the existing facility and the background noise will be described.

3.8.2 Significant Environmental Impacts

The DSEIS will include the following:

- Potentially increased impacts due to reduced buffer distances to the property line will be quantified.
- Measurements of noise levels from equipment operating at the Landfill, will be made using instrumentation that can process measured sound levels in a way so that Leq (one hour) values can be estimated.
- Calculations of estimated project generated noise levels (from both the new Landfill cells and borrow areas) at the property line, and at sensitive receptors locations, will be made and compared with criteria in Part 360.19 (j) and the Department Program Policy, "Assessing and Mitigating Noise Impacts" dated October 2000. A draft noise study will be developed and submitted to NYSDEC for approval prior to finalizing the DSEIS noise evaluation.

3.8.3 Environmental Impact Mitigation

The DSEIS will include the following:

- Propose or identify noise mitigation factors (as required), such as screening by vegetation, distance from site, and topography.

- Describe the need for noise easements, and the extent of any easements that have been obtained. A map of current noise easements also will be provided.

3.9 ARCHEOLOGICAL AND HISTORICAL RESOURCES

3.9.1 Environmental Setting

Background Information:

The WMNY site is not within an archeologically sensitive area, based on New York State Historic Preservation Act records. There are no structures, ruins, or archeological resources on the site or structures listed on the State or National Registers of Historic Places.

The DSEIS will include the background information above and the following:

- Summarize previous and updated findings. Request an updated review by NYS Office of Parks, Recreation and Historic Preservation (OPRHP) regarding cultural resource sensitivity of the site, if necessary.

3.9.2 Significant Environmental Impacts

The DSEIS will include the following:

- A description of the project will be provided to OPRHP for that agency's review and a determination of whether there would be any significant impact to cultural resources. Relevant correspondence regarding this issue will be provided in the DSEIS.

3.9.3 Environmental Impact Mitigation

The DSEIS will include the following:

- Describe mitigation program to protect cultural resources (if necessary).

3.10 TRANSPORTATION/TRAFFIC

3.10.1 Environmental Setting

The DSEIS will include the following:

- The DSEIS will include descriptions of the traffic evaluations previously performed and site access.
- This section will describe the existing traffic (whether it has changed from previous evaluations due to the facility or other changes to the area), existing road conditions going to and from the facility, as well as any town imposed road restrictions. Traffic conditions on Route 16 and Hand Road will be described.

3.10.2 Significant Environmental Impacts

The DSEIS will include the following:

- Traffic is not expected to be significantly impacted by the proposed project. The addition of 30-acres of permitted cell area will increase the remaining active life of the facility by approximately 6 to 7 years. The average daily number of waste transport trucks passing through the facility will not change significantly, since the approved design capacity of 2770 tons per day will not increase.
- The total volume of leachate generated at the facility may increase due to the Cell 7/8 Development project, however, this volume is not anticipated to increase significantly. The Part 360/363 Application will include a description and analysis of the leachate conveyance, storage, treatment and disposal system. The DSEIS will include a discussion of potential truck traffic impacts related to leachate transportation. Leachate will continue to be transported along the south side of the cell area.
- Truck traffic related to construction activities would be consistent with past levels, although the total period of time during which cell construction and operation would occur would be extended, and a road crossing on Hand Road would be required to access the proposed north borrow area. The Hand Road crossing evaluation prepared for the 2005 DEIS will be referenced in this DSEIS, and summarized and any additional mitigation for such crossing (e.g., signage or crossing controls) noted, if necessary. Traffic evaluations are not proposed to be conducted for this DSEIS.
- If off-site soil borrow or other construction materials are identified as necessary for the project, potential changes in traffic volume will be described and quantified.
- On site traffic related to transport of waste, including leachate, and construction materials, will not change significantly, although onsite traffic patterns will be altered. If any proposed new haul roads potentially impacts wetland or wetland buffer areas, appropriate evaluations will be performed and permits applied for.

3.10.3 Environmental Impact Mitigation

Since no significant increases in traffic are proposed, it is not anticipated that mitigation measures will be proposed for the DSEIS above those proposed in the DEIS for the Western Expansion. Even if off-site soil borrow or transport of other construction materials is required, traffic levels would be consistent with past levels, although they would continue for a longer period of time.

3.11 TERRESTRIAL AND AQUATIC ECOLOGY

3.11.1 Environmental Setting

Background Information:

Vegetation on the site consists of a mixture of evergreens and deciduous tree, agricultural fields, wetlands, and streams, which are typical for the region. No unusual, significant or endangered plant species have been identified. All of the habitat types which exist in the unused portions of the site are available in abundance in the surrounding area.

Hosmer Brook (about 1000 feet south of the proposed development area) and Cattaraugus Creek both provide habitat for aquatic life, but will not be significantly impacted by the development project. Hosmer Brook is classified C(TS) which indicates trout spawning.

There are no state regulated wetlands in the areas to be impacted. Federally regulated wetland areas have been identified on the site, but are not in the proposed landfill development area.

Also, the site is not located in or substantially contiguous to any "Critical Environmental Areas".

The DSEIS will include the background information above and the following:

- Prior to the writing of the DSEIS, the project areas will be surveyed for habitats and wildlife species. These supplemental ecological studies will be conducted, to cover impacted areas not addressed in the earlier evaluation. They will include descriptions of the forested areas, wetland areas, and surface waters within the project area. The quality of surface waters and supported aquatic biota will be described.
- The DSEIS will identify and characterize flora and fauna on and adjacent to the development area.
- Identify habitats likely to support species on the site that are state-listed endangered, threatened or rare.
- Summarize findings of wetland delineation, including locations and sizes of jurisdictional wetlands on site. The wetland delineation report and related correspondence from involved agencies will be included in an appendix.
- Assess the potential for drainage of the surrounding wetlands as a result of constructing landfill cells or the borrow areas and measures to avoid such impacts.

3.11.2 Significant Environmental Impacts

The DSEIS will include the following:

- This section will include and an assessment of impacts from the current facility and the potential for impacts from the development project to all identified habitats and species including terrestrial and aquatic. Any endangered, threatened or rare species will be identified, if appropriate.
- Summarize applicability of existing guidance related to tree-clearing and potential impacts to bat species.

3.11.3 Environmental Impact Mitigation

The DSEIS will include the following:

- The DSEIS will describe any potential measures to mitigate impacts on habitats and species.

3.12 VISUAL

3.12.1 Environmental Setting

The DSEIS will include the following:

- A visual impact assessment was included in the previous DEIS for the current Landfill operation. This assessment determined that no off-site areas would be significantly visually impacted by the project. This section will describe the previous study and the previously required visual impact mitigation including trees along NYS Route 16. .

3.12.2 Significant Environmental Impacts

The DSEIS will include the following:

- A description of the development areas.
- The lateral and vertical increase of the disposal area could affect aesthetic resources in the vicinity of the Landfill. Therefore, a visual impact study in accordance with NYSDEC Policy DEP-00-2, "Assessing and Mitigating Visual Impacts" will be performed to determine if the lateral and vertical Landfill development or new borrow area will create significant visual impacts.

3.12.3 Environmental Impact Mitigation

- Visual mitigation measures (if needed) will be discussed.

3.13 Health

3.13.1 Environmental Setting

The DSEIS will summarize the existing health status of the population in the town of Sardinia, to the extent information is available.

3.13.2 Significant Environmental Impacts

Potential impacts on health (e.g. air quality, water quality, truck traffic, etc.) will be identified.

3.13.3 Environmental Impact Mitigation

The mitigation factors associated with the potential impacts will be identified, primarily by referencing earlier sections of the DSEIS.

4.0 UNAVOIDABLE ADVERSE IMPACTS

This section of the DSEIS will identify and discuss adverse environmental impacts that cannot be avoided or mitigated if the proposed project is implemented, in accordance with 6 NYCRR 617.9(b)(5)(iii)(b).

5.0 ALTERNATIVES

This section of the DSEIS will include an evaluation of project alternatives in accordance with 6 NYCRR 617.9(b)(v). It will include the following subsections and comparative tables and figures will be provided, as needed, to summarize the evaluation:

5.1 SUMMARY

5.2 ALTERNATIVE LANDFILL SITES

5.3 ALTERNATIVE LANDFILL SIZE

5.4 ALTERNATIVE BORROW PIT SITES, SIZES, OFFSITE SOIL OPTIONS

5.5 ALTERNATIVE DESIGN/LAYOUT/DEVELOPMENT SCHEDULE

5.6 ALTERNATIVE LAND USE

5.7 NO ACTION

6.0 GROWTH INDUCING ASPECTS

This section of the DSEIS will provide an analysis of any grow-inducing aspects associated with the proposed action, in accordance with the SEQR regulations at 6 NYCRR § 617.9 (b) (iii) (d).

7.0 AFFECT ON THE USE AND CONSERVATION OF ENERGY

Background Information:

The effect of the proposed addition of the permitted cell volume on energy consumption would be to continue the consumption of fuels (gasoline and diesel) for hauling waste to the facility, and for handling the waste (spreading, compaction, etc.) at the facility, for a longer period of time. This increase in total waste disposal at WMNY would, therefore, increase the consumption of these fuels. Looking at this issue from a more “regional” point of view, however, it is very unlikely that the proposed change in the permitted disposal capacity at WMNY will increase the total regional quantities of MSW waste generation. Therefore, additional hauling to WMNY would be offset by reduced hauling to other disposal facilities. In addition, given the economics of waste transport and disposal, there is an incentive to reduce hauling distances as a means of cost control. It is possible (though not certain) that additional disposal capacity at WMNY could reduce energy consumed in waste transportation, on a regional basis, due to these economic incentives.

Overall, on a regional basis, energy resources would not be significantly affected in an adverse way by the proposed addition of the permitted cell volume.

The DSEIS will include the background information above and the following information:

- This section of the DSEIS will provide an analysis of the effect on the use and conservation of energy of the proposed action, in accordance with the SEQR regulations at 6 NYCRR § 617.9 (b) (iii) (e).
- In preparing this section the NYSDEC guidance in their “Guide for Assessing Energy Use and Greenhouse Gas Emissions in an Environmental Impact Statement” will be considered.

8.0 SOLID WASTE MANAGEMENT PLAN

In accordance with 6 NYCRR 617.9 (b) (5) (iii) (f), this section of the DSEIS will identify and discuss the impacts of the project on solid waste management and its consistency with the state or locally-adopted solid waste management plan.

9.0 IRREVERSIBLE/IRRETRIEVABLE COMMITMENT OF RESOURCES

The DSEIS will include the following:

- This section of the DSEIS will provide an analysis of the irreversible and irretrievable commitment of resources associated with the proposed action, in accordance with the SEQR regulations at 6 NYCRR § 617.9 (b) (iii) (c).

10.0 TABLES AND FIGURES

11.0 REFERENCES

The reference list will include the 2005 DEIS, 2006 FEIS, and 2006 Findings Statement prepared for the Western Expansion, as well as all other applicable references.

12.0 APPENDICES

Appendices will include materials not suitable for insertion in the main body of the DSEIS, and shall include key SEQR documents, technical reports.

They are anticipated to include:

- SEQR Positive Declaration
- DSEIS Final Scoping Document
- Borrow Area Use Plan for the on-site soil borrow areas
- Stormwater Information
 - o Site Plan showing direction of stormwater routing
 - o Stormwater runoff estimates for additional landfill development and borrow areas
 - o Description of additional stormwater controls
- Preliminary Title V NYSDEC permit application (including calculations for hydrogen sulfide (H₂S))
- Report in accordance with NYSDEC Policy CP-33, "Assessing and Mitigating Impacts of Fine Particulate Matter Emissions"
- Ecological Studies
- Wetland Delineation Report and Agency Correspondence
- Archaeological Correspondence (or Report)
- Noise Studies in accordance with NYSDEC Policy DEP-00-1, "Assessing and Mitigating Noise Impacts" and 6 NYCRR Part 360.19(j)
- Visual Assessment in accordance with NYSDEC Policy DEP-00-2, "Assessing and Mitigating Visual Impacts"
- Habitat Assessment Report
- Odor Abatement/Management Program
- Part 360/363 Permit Application Package

V. ENVIRONMENTAL REVIEWS NOT PROPOSED FOR INCLUSION IN THE DSEIS

In accordance with 6 NYCRR 617.8(f)(7), this section of the scoping document is reserved for those prominent issues that are raised during public scoping and determined to be not relevant or not environmentally significant, or that have been adequately addressed in a prior environmental review.

Table 1.0 – Required Approvals

State Agencies		
Agency	Permit/Interest	Applicable Law/Regulation
NYSDEC	Solid Waste Permit Modification	6 NYCRR Part 360; Part 363
NYSDEC	Title V Permit Modification	6 NYCRR Part 201-6
NYSDEC	SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activities (GP-0-17-004)	6 NYCRR Part 705
Federal Agencies		
Agency	Permit/Interest	Applicable Law/Regulation
Local Government		
Agency	Permit/Interest	Applicable Law/Regulation
Town of Sardinia – Town Board	Modification of the existing Landfill Special Use Permit due to Modification of the Part 360 Permit	Town of Sardinia, Erie County, New York, Zoning Ordinance, In Effect as of 8/13/12
Town of Sardinia – Planning Board	Zoning Approval for Landfill Borrow Areas	



TRIBUTARY NO. 30, EAST BRANCH CAZENOVIA CREEK

HAND ROAD

SAVAGE ROAD

LEACHATE STORAGE TANKS

ACTIVE GRAVEL BORROW AREA

RECLAIMED BORROW AREA "B" (PERMITTED 2001)

ALLEN ROAD

PROPOSED BORROW AREA "C" (11.9 ACRES)

EXISTING VALLEY FILL LANDFILL EXPANSION (PERMITTED 2013)

PROPOSED VERTICAL HEIGHT INCREASE

EXISTING WESTERN LANDFILL EXPANSION (PERMITTED 2006)

EXISTING CLOSED LANDFILL

ACTIVE EAST BORROW AREA (PERMITTED 2009)

PROPOSED CELL 7/8 DEVELOPMENT (30 ACRES OF LINED LANDFILL) RECLAIMED WEST BORROW AREA (PERMITTED 2009)

EXISTING STORMWATER BASINS TO BE RECONFIGURED

PROPOSED CLAY BORROW AREA (8.9 ACRES)

HOSMER BROOK

APPROXIMATE PROPERTY LINES (TYP.)

ROUTE 16

Chaffee

LEGEND

- WASTE MANAGEMENT PROPERTY LINE
- PERMITTED BORROW AREAS
- PERMITTED LANDFILL AREAS
- PROPOSED BORROW AREAS
- PROPOSED LANDFILL AREAS
- APPROXIMATE TOWN OF SARDINIA BL DISTRICT

- NOTES:
1. Base map image acquired at Google Earth. Photo date October 14, 2016.
 2. Property lines taken from drawing titled "PROPERTY ACQUISITION MAP" by the CID Group, Inc. dated July 1993 with final revision in April 1997. Additional property lines are based upon Erie County Internet Mapping System and a survey by Wendel dated July 27, 2018.
 3. BL district lines taken from Zoning Map included in the Town of Sardinia Zoning Ordinance adopted October 12, 2005.

EXISTING AND PROPOSED EXPANSION AREAS

SCALE: 1" = 1000'



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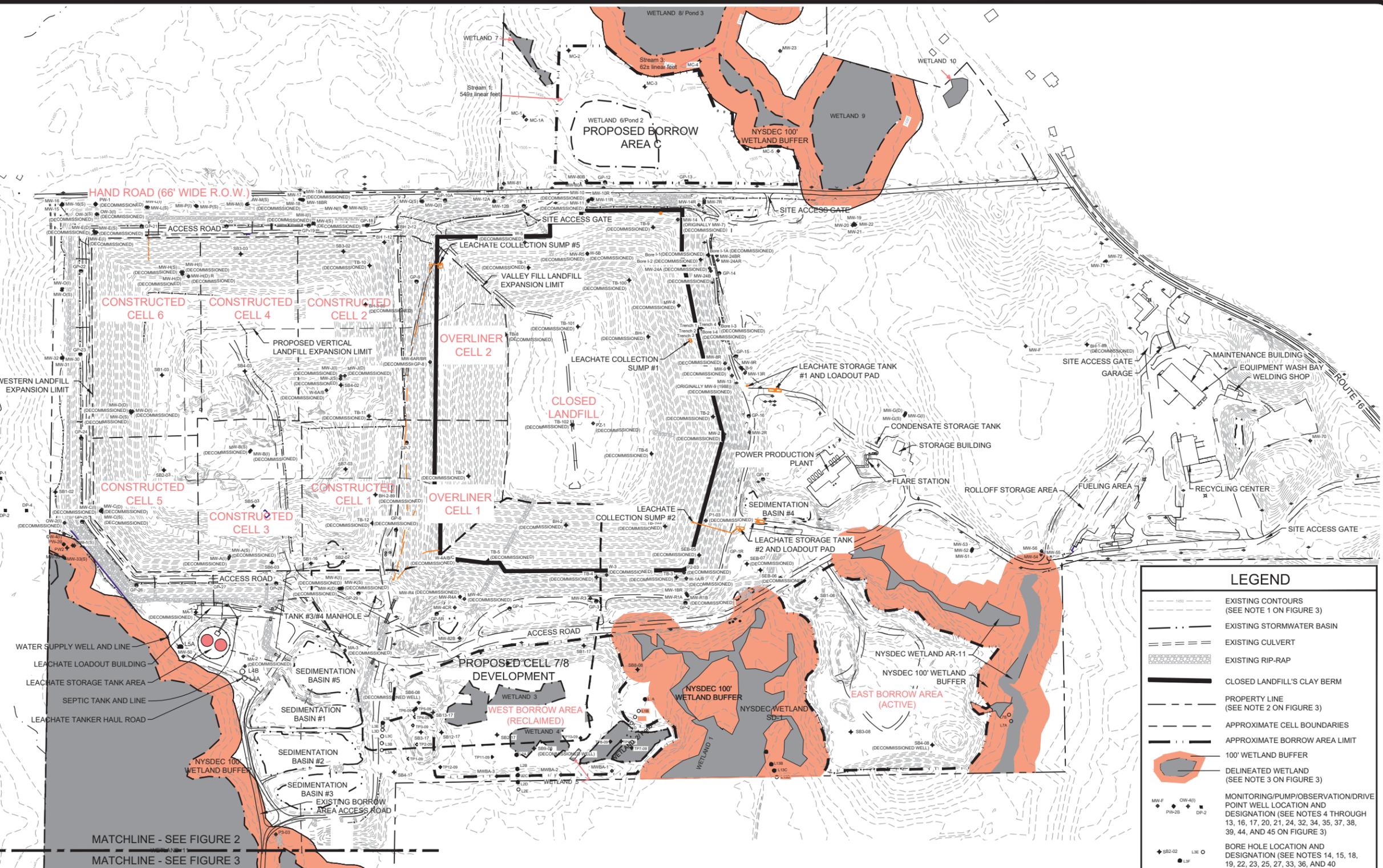
PREPARED BY:
CORNERSTONE ENGINEERING, GEOLOGY AND LAND SURVEYING, PLLC

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CHAFFEE FACILITY
CELL 7/8 DEVELOPMENT
SARDINIA, ERIE COUNTY, NEW YORK
**EXISTING AND PROPOSED
EXPANSION AREAS**

FIGURE NO.
1
PROJECT NO.
190260

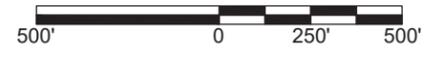
X:\PROJECTS\WM-CHAFFEE\190260 - SOUTHERN EXPANSION TITLE\Project Drawings\SEQR FIGURES\FIGURE 2&3.dwg



LEGEND	
	EXISTING CONTOURS (SEE NOTE 1 ON FIGURE 3)
	EXISTING STORMWATER BASIN
	EXISTING CULVERT
	EXISTING RIP-RAP
	CLOSED LANDFILL'S CLAY BERM
	PROPERTY LINE (SEE NOTE 2 ON FIGURE 3)
	APPROXIMATE CELL BOUNDARIES
	APPROXIMATE BORROW AREA LIMIT
	100' WETLAND BUFFER
	DELINEATED WETLAND (SEE NOTE 3 ON FIGURE 3)
	MONITORING/PUMP/OBSERVATION/DRIVE POINT WELL LOCATION AND DESIGNATION (SEE NOTES 4 THROUGH 13, 16, 17, 20, 21, 24, 32, 34, 35, 37, 38, 39, 44, AND 45 ON FIGURE 3)
	BORE HOLE LOCATION AND DESIGNATION (SEE NOTES 14, 15, 18, 19, 22, 23, 25, 27, 33, 36, AND 40 THROUGH 43 ON FIGURE 3)
	TEST PIT LOCATION AND DESIGNATION (SEE NOTE 26 ON FIGURE 3)
	GAS PROBE LOCATION AND DESIGNATION (SEE NOTES 28 THROUGH 31 ON FIGURE 3)

FACILITY SITE PLAN - SHEET 1

SCALE: 1" = 500'



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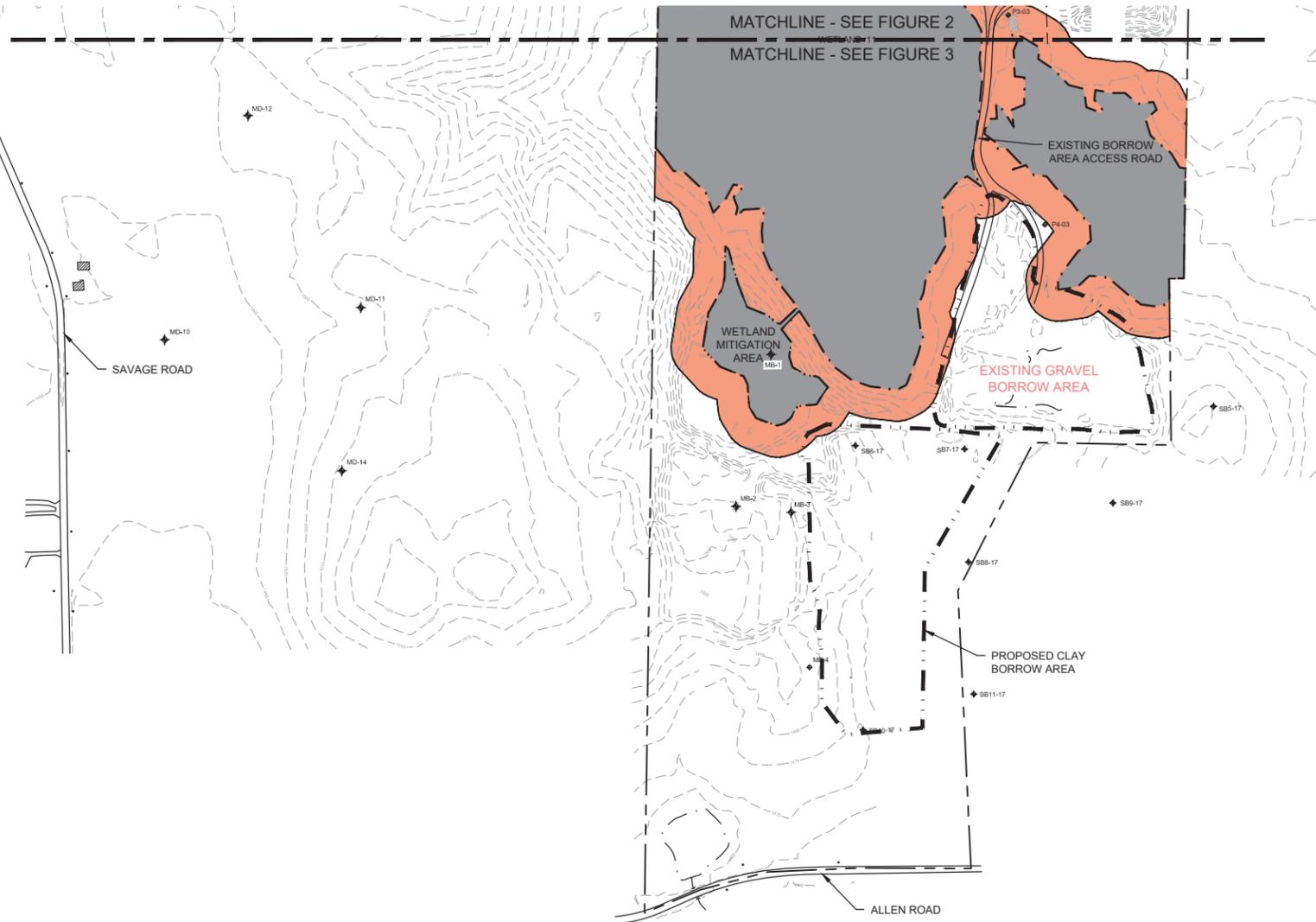
CHAFFEE FACILITY
CELL 7/8 DEVELOPMENT
SARDINA, ERIE COUNTY, NEW YORK

**EXISTING CONDITIONS
FACILITY SITE PLAN**

FIGURE NO.
2

PROJECT NO.
190260

X:\PROJECTS\WWM-CHAFFEE\190260 - SOUTHERN EXPANSION\TITLE\Project Drawings\SEQR FIGURES\FIGURE 2&3.dwg



LEGEND	
	EXISTING CONTOURS (SEE NOTE 1 ON FIGURE 3)
	EXISTING STORMWATER BASIN
	EXISTING CULVERT
	EXISTING RIP-RAP
	CLOSED LANDFILL'S CLAY BERM
	PROPERTY LINE (SEE NOTE 2 ON FIGURE 3)
	APPROXIMATE CELL BOUNDARIES
	APPROXIMATE BORROW AREA LIMIT
	100' WETLAND BUFFER
	DELINEATED WETLAND (SEE NOTE 3 ON FIGURE 3)
	MONITORING/PUMP/OBSERVATION/DRIVE POINT WELL LOCATION AND DESIGNATION (SEE NOTES 4 THROUGH 13, 16, 17, 20, 21, 24, 32, 34, 35, 37, 38, 39, 44, AND 45 ON FIGURE 3)
	BORE HOLE LOCATION AND DESIGNATION (SEE NOTES 14, 15, 18, 19, 22, 23, 25, 27, 33, 36, AND 40 THROUGH 43 ON FIGURE 3)
	TEST PIT LOCATION AND DESIGNATION (SEE NOTE 26 ON FIGURE 3)
	GAS PROBE LOCATION AND DESIGNATION (SEE NOTES 28 THROUGH 31 ON FIGURE 3)

NOTES:

- Existing site contours are based on aerial photography dated February 12, 2001 and November 22, 2001 compiled by Lockwood Mapping Inc. of Rochester, NY, Aero-Metric, dated July 10, 2012 and Quantum Spatial dated July 3, 2015 and June 8, 2017.
- Property lines are based on surveys performed by Deborah A. Naybor, PLS, P.C. dated June 2001 and by Gary E. Krull dated March 1994 and survey completed by Wendel dated July 27, 2018.
- Survey of delineated wetlands was prepared by Deborah A. Naybor, PLS, P.C. dated August 2001 and by Wendel Duchscherer Survey dated September 16, 2008 and by Wendel survey dated November 21, 2017.
- MW-2, 10, 11, 15 to 23, 30 to 33, 50 to 56, 70 to 72, A(I), B(I), B(S) C(I), D(D), D(I), G(D), G(I), G(S), R1A, R1B, R3, 4C, 7R, 12A, 12B, 14R, and 18A locations are based on survey completed by Deborah A. Naybor, PLS, PC dated March 2001.
- MW-D(S) location is based on survey completed by Deborah A. Naybor, PLS, PC dated July 2001.
- MW-2R, 9, 13, 24A and 24B locations are based on survey completed by Deborah A. Naybor, PLS, PC dated April 2002.
- MW-E(I) and F locations are based on survey completed by Deborah A. Naybor, PLS, PC and submitted in "Data Report Hydrogeologic Studies, Chaffee Landfill Facility, Chaffee, New York," prepared by McMahon & Mann Consulting Engineers, PC dated September 2000.
- MW-16(S), 33(S), A(S), C(D), C(S), E(D), E(S), H(D), H(S), H(I), I(I), I(S), J(D), J(I), J(S), K(D), K(I) and K(S) locations are based on survey completed by Deborah A. Naybor, PLS, PC dated May 2001.
- MW-H(D)R location is based on survey completed by Wendel Duchscherer Survey dated September 2002.
- MW-1BR, 4CR, 9R, 10R, 11R, 13R, 18BR, 24AR, 24BR, 81, 80A, 80B and 82B locations are based on survey completed by Wendel Duchscherer Survey and Submitted in "Well Installation Report, Chaffee Landfill," prepared by Golder Associates Inc. and dated October 2003.
- MA-1, MD-5, 7 and 9 locations are based on field measurements made by MMCE from existing site features in June 2001.
- MW-R4A location is based on letter from Golder Associates dated November 30, 2010.
- OW-1(I), 1(S), 2 (I), 3(I), 3(S) 4(I), PW-1, 2B, DP-1, 2, 3, 4, 5 and 6 locations are based on survey completed by Wendel Duchscherer Survey dated November 2001.
- SB1-02, 2-02 and 3-02 locations are based on survey completed by Wendel Duchscherer Survey dated June 2002.
- SB4-02 locations based on field measurements made by MMCE from existing well cluster J in June 2002.
- MA-2, MA-3, MC-2, MC-3, MC-4, MD-8, MD-10, MD-12 and MD-13 are based on survey completed by M.J.R. Land Surveying, P.C. dated June 2001.
- P3-03 and 4-03 locations are based on survey completed by Wendel Duchscherer Survey dated August 2003.
- SB1-03, 2-03, 3-03, 4-03, 5-03, 6-03 and 7-03 locations are based on survey completed by Wendel Duchscherer Survey dated December 2003.
- MC-1, PW2 and B-9 locations are based on installation notes for wells MC-1A, PW-2B and MW-9R.
- MW-L(I), L(S), M(I), M(S), N(I), N(S), O(I), O(S), P(I) and P(S) locations are based on survey completed by Wendel Duchscherer Survey dated August 25, 2005.
- MW-Q(I) and Q(S) locations are based on survey completed by Ensol, Inc. dated September 24, 2013.
- BH-1-12 and 2-12 locations are based on survey completed by WMNY on February 23, 2012.
- SB1-16 location is based on survey completed by Wendel Survey dated March 31, 2016.
- MC-1A and 5 are based on survey completed by M.J.R. Land Surveying, P.C. dated June 2001.
- SB1-08, 3-08, 4-08, 6-08, 7-08, 8-08 and 9-08 locations are based on survey completed by Wendel Duchscherer survey dated September 8, 2008.
- TP1-09 through 12-09 locations are based on survey completed by Wendel Duchscherer Survey dated June 19, 2009.
- Hand auger and hollow stem bore holes designated L1 through L5, L7 and L13 were located by Earth Dimensions, Inc.
- GP-2, 3, 4, 7, 8, 9, 10A, 11, 12, 13, 14, 15, 16, and 17 locations are based on survey completed by Deborah A. Naybor, PLS, PC dated March 2001.
- GP-1R, 5R, and 6, locations are based on survey completed by Wendel Duchscherer Survey dated September 2003.
- GP-18 to 27 locations are based on survey locations noted on the installation logs.
- GP-28 location is based on survey provided by Golder Associates dated August 15, 2011.
- GP-29 location is based on a survey location noted on the installation log.
- W-1A/B, W-3, W-4A/B/C, W-5, and W-6A/B locations are based on the United Research Services drawing titled "Existing Site/Grading Plan Subsurface Data" dated January 28, 1981, DWG. NO. 31777-002-0.
- TB-1 through TB-12, BH-1, BH-2, and TB-100 through TB-103 locations are based on the United Research Services drawing titled "Existing Site/Grading Plan Subsurface Data" dated January 28, 1981, DWG. NO. 31777-002-0.
- MW-R4, MW-R5, W-5B, MW-6AR/BR, MW-7, and MW-8 locations are based on the United Research Services drawing titled "Existing Site/Grading Plan Monitoring Well Locations" dated March 1985, DWG. NO. 35058-002-1.
- MW-8R location is based on Earth Investigations LTD. drawing titled "Plate 1 Well & Cross-Section Locations" dated May 1990 and revised on June 12, 1991.
- BH-1-89, BH-2-89, and BH-3-89 locations are based on Earth Investigations LTD. drawing titled "Plate 1 Well & Cross-Section Locations" dated May 1990 and revised on June 12, 1991.
- MW-14 was drilled through MW-7, therefore the location for MW-14 was taken as the estimated location for MW-7. The location for MW-7 was taken from the United Research Services drawing titled "Existing Site/Grading Plan Monitoring Well Locations" dated March 1985, DWG. NO. 35058-002-1.
- PZ-1 location is based on Figures 2 and 5 in the Leachate Accountability Assessment at Chaffee Landfill, prepared by Geomatrix Consultants, Inc. in July 2000.
- P1-03 and P2-03 locations are based on a survey completed by Wendel Duchscherer Survey dated August 28, 2003.
- Bore I-1, Bore I-2, Bore I-3, Bore I-4, and Trench 1 through 4 locations are based on a survey completed by Wendel Duchscherer Survey from July 2001 to August 2001.
- Bore I-1A location is based on field measurements made by MMCE from Bore I-1 in July 2001.
- SEB-05, SEB-06, and SEB-07 locations are based on field borehole logs completed by Golder Associates.
- MB-1, MB-2, MB-3, MB-4, MD-1, MD-2, MD-3, MD-4, MD-6, MD-11, and MD-14 locations are based on a survey completed by M.J.R. Land Surveyor, PC on June 11, 2001.
- MWBA-1, MWBA-2, and MWBA-3 locations are based on a survey completed by Wendel Duchscherer Survey dated November 2009.
- SB1-17 through SB13-17 locations are based on a survey completed by Wendel Survey dated November 17, 2017.

FACILITY SITE PLAN - SHEET 2

SCALE: 1" = 500'



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CHAFFEE FACILITY
CELL 7/8 DEVELOPMENT
SARDINA, ERIE COUNTY, NEW YORK

**EXISTING CONDITIONS
FACILITY SITE PLAN**

FIGURE NO.
3

PROJECT NO.
190260