



Michigan Department of Environmental Quality
Resource Management Division

SOLID WASTE DISPOSAL AREA OPERATING LICENSE

This license is issued under the provisions of Part 115, Solid Waste Management, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, MCL 324.11501 et seq., and authorizes the operation of this solid waste disposal area (Facility) in the state of Michigan. This license does not obviate the need to obtain other authorizations as may be required by state law.

FACILITY NAME: McGill Road Landfill

LICENSEE/OPERATOR: McGill Landfill, Inc.

FACILITY OWNER: McGill Landfill, Inc.

PROPERTY OWNER: McGill Landfill, Inc.

FACILITY TYPE(S): Municipal Solid Waste Landfill

FACILITY ID NUMBER: 444391

COUNTY: Jackson

LICENSE NUMBER: 9324

ISSUE DATE: February 24, 2012

EXPIRATION DATE: February 24, 2017

FACILITY DESCRIPTION: The McGill road landfill, a municipal solid waste landfill, consists of 134.08 acres located in the NE 1/4 of the NE 1/4 of Section 24, Blackman Township, and in the W 1/2 of the NW 1/4 of Section 19, Leoni Township, Jackson County, Michigan, as identified in Attachment A and fully described in this license.

AREA AUTHORIZED FOR DISPOSAL OF SOLID WASTE: Phase V, Cell 1A, Cell 1B, and Cell 1C.

RESPONSIBLE PARTY: Mr. Charles H. Cassie
McGill Landfill, Inc.
3895 McGill Road
Jackson, Michigan 49201
313-815-1513

RENEWAL OPERATING LICENSE: This License Number 9324 supersedes and replaces Solid Waste Disposal Area Operating License Number 9159 issued to McGill Landfill, Inc. on May 25, 2007.

This license is subject to revocation by the Director of the Michigan Department of Environmental Quality, if the Director finds that this Facility is not being constructed or operated in accordance with the approved plans, the conditions of a permit or license, Part 115, or the rules promulgated under Part 115. Failure to comply with the terms and provisions of this license may result in legal action leading to civil and/or criminal penalties pursuant to Part 115. This license shall be available through the licensee during its term and remains the property of the Director.

THIS LICENSE IS NOT TRANSFERABLE.

Steven R. Sliver, Chief, Solid Waste and Land Application Section
Resource Management Division

Licensee: McGill Landfill, Inc.
Facility Name: McGill Road Landfill
Operating License Number: 9324
Issue Date: February 24, 2012

The licensee shall comply with all terms of this license and the provisions of Part 115 and the administrative rules implementing Part 115 (Part 115 Rules). This license includes the license application and any attachments to this license.

1. The licensee shall operate the Facility in a manner that will prevent violations of any state or federal law.
2. The following portions of the Facility are authorized to receive solid waste by this license:
 - a. **ACTIVE PORTIONS NOT AT FINAL GRADE:** The area(s) identified as Phase V, Cell 1A (5.2 acres) and Cell 1B (2.36 acres) were authorized to receive waste by the previous license. This area's total acreage is 7.56 acres.
 - b. **CONSTRUCTED AREAS CERTIFIED WITH THIS APPLICATION:** The area(s) identified as Phase V, Cell 1C were not authorized to receive solid waste by the previous license, but are authorized to receive waste by this license. This area's total acreage is 2.48 acres.
3. The following portions of the Facility **WILL BE** authorized to receive solid waste by this license following approval by the Michigan Department of Environmental Quality (MDEQ) of construction certification:

UNCONSTRUCTED AREA(S) WITH FINANCIAL ASSURANCE: The area(s) identified as Phase V, Cell 1D, totaling 5.16 acres, and are included in the calculation of financial assurance as required by Section 11523 of Part 115. This portion(s) of the Facility shall be authorized to receive waste, as part of this license, when acceptable certification is submitted to the MDEQ, as required by Section 11516(5) of Part 115, and determined by the MDEQ to be consistent with Part 115 and the Part 115 Rules. The certification shall verify that construction of this area(s) was in accordance with the Construction Permit(s) listed in Item 8 of this license, Part 115, and the Part 115 Rules.

4. The following portions of the Facility are **NOT** authorized to receive solid waste by this license:

CLOSED UNIT(S) OR A PORTION OF A UNIT WHERE THE FINAL COVER HAS BEEN CERTIFIED CLOSED AND ACCEPTED BY THE MDEQ: The following unit(s) and/or portion(s) are closed:

EXISTING UNIT(S): The unit(s) identified as Phase I, Cells 1-8 (8.79 acres), and Phase II, Cell 1 (4.11 acres) had final closure certified on December 1, 1994, and April 7, 1997, respectively. These certifications were reviewed and approved by the MDEQ on January 4, 1995, and November 17, 1999. The total acreage for these areas is 10.78 (12.90 acres less the 2.12-acre Cell 1A overlay area) acres. Phase III and Phase IV had final closure certified on July 23, 2009. This certification was reviewed and approved by the MDEQ on September 25, 2009. This area's total acreage is 15.06 acres.

5. The attached map (Attachment A) shows the Facility, the area permitted for construction, monitoring points, leachate storage units, site roads, other disposal areas, and related appurtenances.
6. Issuance of this license is conditioned on the accuracy of the information submitted by the Applicant in the Application for License to Operate a Solid Waste Disposal Area (Application) received by the MDEQ on December 2, 2011, and any subsequent amendments. Any material or intentional inaccuracies found in that information is grounds for the revocation or modification of this license and may be grounds for enforcement action. The licensee shall inform the MDEQ's Resource Management Division (RMD), Jackson District Supervisor, of any inaccuracies in the information in the Application upon discovery.
7. This license is issued based on the MDEQ's review of the Application, submitted by McGill Landfill, Inc., for the McGill Road Landfill, dated December 1, 2011. The Application consists of the following:
 - a. Application Form EQP 5507.
 - b. Application fee in the amount of \$1,000.00.
 - c. Certification of construction by CTI and Associates, Inc., dated December 2011.
 - d. Waste Characterization: N/A.

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e. Restrictive Covenant:

The Declaration of restrictive covenant on 66.005 acres is on file at the Jackson County Register of Deeds recorded on June 12, 2007, as Liber 2479582 pages 1 - 4. A copy is on file with the MDEQ.

f. Perpetual Care Fund Agreement, established as a trust account, signed by Ms. Beverly J. Moore, McGill Landfill, Inc., on December 14, 1999, was executed by the MDEQ on December 14, 1999.

g. Financial Assurance.

i. Financial Assurance Required:

The amount of financial assurance required for this Facility was calculated based on the calculation worksheet form EQP 5507A entitled, "Form A, Financial Assurance Required," and is \$4,536,573.45.

The Facility has provided financial assurance totaling \$4,536,573.68, based on the requirements of Section 11523 of Part 115, consisting of a combination of the Perpetual Care Fund established under Section 11525 of Part 115, bonds, and the financial capability of the Applicant as evidenced by a financial test. The financial assurance mechanisms used by the Facility are summarized below in Items ii and iii, respectively.

ii. Financial Assurance Provided Via a Perpetual Care Fund:

- (1) The amount of the required financial assurance can be reduced pursuant to Section 11524 of Part 115, if the amount of money in the Perpetual Care Fund plus the amount of the reduced financial assurance equals the amount of financial assurance required in Section 11523 of Part 115 and is approved by the MDEQ.
- (2) The Perpetual Care Fund Agreement statement showed a balance of \$1,256,801.68 in the Facility's Perpetual Care Fund as of October 31, 2011. Of this amount, the MDEQ has granted the request to use \$1,256,801.68 toward the total amount of financial assurance required.

iii. Financial Assurance Provided Via Bond:

The following financial assurance has been received from the Applicant to meet the amount of financial assurance required:

Surety Bond	\$3,279,772.00
Total Amount Received:	\$3,279,772.00

iv. Financial Assurance Updates Required:

For Type II landfills, the financial assurance cost estimates of closure and postclosure activities must be updated annually and the corresponding requisite amount of financial assurance must be adjusted annually for the costs of inflation. The corresponding financial assurance, as adjusted for inflation and other factors, is due on February 24, 2012, and each year thereafter.

8. The following documents approved with Construction Permit Number(s) 0323 issued to Philip Environmental (Michigan), Inc., on May 30, 1995, and Construction Permit Number 4073 issued to McGill Landfill, Inc., on August 23, 2005, are incorporated in this license by reference:

- a. Engineering plans titled "Engineering Plans for Phases III and IV of the Philip-McGill Road Landfill," dated June 1994, and revised May 1995.

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- b. Engineering report titled "Engineering Report for the Philip-McGill Road Landfill Volume 5 of 6 and 6 of 6," dated January 1995 and revised May 1995.
- c. Environmental assessment titled "Environmental Impact Assessment for the Philip-McGill Road Landfill," dated July 1994 and revised January 1995.
- d. Hydrogeological report titled "Hydrogeological Investigation for the Philip McGill Road Landfill," dated January 1995 and revised May 1995.
- e. All revisions incorporated in an additional engineering report titled "Addendum to Construction Permit Application Submitted January 31, 1995," and revised May 1995.
- f. Monitorability Assessment for the Proposed Phase III, Cell 1 Landfill Unit at the Philip McGill Road Landfill," prepared by Strata Environmental Services, dated September 8, 1995, and approved in the MDEQ's September 18, 1995, letter.
- g. Engineering plans titled "Construction Plans for Phase III, Cells 2 and 4 of the Philip McGill Road Landfill, Jackson, Michigan," dated August 1996.
- h. Engineering plans titled "Phase II, Cell 1 Closure Plans" and "Phase II, Cell 1/Phase III, Cell 1A Closure Plans," dated September 9, 1996.
- i. Phase II, Cell 1 Closure Certification for USA Waste, McGill Road Landfill, Jackson, Michigan, dated April 1997.
- j. Response Action Plan for Phase I Landfill Unit at Philip McGill Road Landfill, Jackson, Michigan, dated May 2, 1997, and approved in the MDEQ's July 3, 1997, letter.
- k. Work Plan, Philip McGill Road Landfill, dated September 2, 1998, and approved in the MDEQ's February 8, 1999, letter.
- l. Operational Plan for Alternate Daily Cover Materials, Philip McGill Road Landfill, Jackson, Michigan, dated August 1999.
- m. Off-Site Investigation Report for Inorganic Parameters, Philip McGill Road Landfill, dated August 31, 1999, and approved in the MDEQ's May 15, 2001, letter.
- n. Addendum to Response Action Plan, dated November 1, 1999, and approved in the MDEQ's May 15, 2001, letter.
- o. Trommeled Soil Response Plan, McGill Road Landfill, dated January 2000, and approved in the MDEQ's May 15, 2001, letter.
- p. Construction Quality Assurance/Construction Quality Control Plan Trommeled Soils Response Action Plan dated January 2000 and approved in the MDEQ's May 15, 2001, letter.
- q. McGill Road Landfill, Alternate Source Demonstration, dated May 15, 2000, and approved in the MDEQ's May 15, 2001, letter.
- r. McGill Road Landfill Proposed Facility and Storm Water Control Modifications Engineering Report, dated June 2000 and revised June 2001.
- s. Selection of Primary Inorganic Indicator Parameters, McGill Road Landfill, dated January 15, 2001.
- t. Response to MDEQ Technical Comments for McGill Road Landfill Proposed Facility and Storm Water Control Modifications, dated May 24, 2001, and approved in the MDEQ's July 5, 2001, letter.
- u. McGill Road Landfill Proposed Facility and Storm Water Control Modifications Response to the June 8, 2001, Meeting Comments with attached Quality Standards for the Manufacture, Fabrication, and Installation of Polyvinyl Chloride

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Geomembrane (PVC) at the McGill Road Landfill, dated June 2001, revised June 2001, and approved in the MDEQ's July 5, 2001, letter. This report includes a Leachate Recirculation Plan, for which amendments dated September 3, 2003, October 21, 2003, December 9, 2003, were approved in the MDEQ's December 16, 2003, letter; and amendment dated April 12, 2004, was approved in the MDEQ's May 4, 2004, letter.

- v. Response to Technical Comments, McGill Road Landfill, Jackson, Michigan, dated June 1, 2001, and approved in the MDEQ's July 5, 2001, letter.
 - w. Work Plan for Landfill Gas Investigation, McGill Road Landfill, dated June 26, 2001.
 - x. Report on Installation of Gas Monitoring Probes McGill Road Landfill, dated August 28, 2001.
 - y. Construction Certification for Geosynthetics, McGill Landfill, Inc., Phase IV, Cell 1, Type II Sanitary Landfill, dated December 2001.
 - z. Certification of Trommeled Soil Removal, dated December 2002.
 - aa. Construction Documentation Report, McGill Road Landfill, Phase III, Cell 1A PVC Geomembrane Repair and Containment Berm Installation, dated December 16, 2002, and approved by the MDEQ on May 7, 2004.
 - bb. Remedial Action Plan, McGill Road Landfill, dated April 23, 2004, and revised February 3, 2005.
 - cc. Report entitled, "Part 115 Construction Permit Application, McGill Road Landfill Phase V," Volumes 1 through 4, dated March 2005.
 - dd. Revised Plan Sheet 15, "Leachate Collection System Sump and Riser Details," dated March 17, 2005, and revised August 16, 2005.
9. The following additional documents, approved since the issuance of the construction permit(s) referenced in Item 8, are incorporated in this license by reference:
- a. Hydrogeological Monitoring Plan, Philip McGill Road Landfill, prepared by NTH Consultants, dated March 2005, and revised June 8, 2005, April 9, 2007, September 2007, February 27, 2009, June 12, 2009, and March 16, 2011.
 - b. Construction Permit Application Phase V Engineering Plans sheets 11, 13, and 14, revised on November 14, 2006, and sheet 15, revised on December 1, 2006.
 - c. Construction Certification for Earthworks and Geosynthetics, Phase V, Cell 1A, dated November 2006.
 - d. Construction Certification for Earthworks and Geosynthetics, Phase V, Cell 1B, submitted September 21, 2009 and approved November 13, 2009.
 - e. Construction Certification for Earthworks and Geosynthetics, Phase V, prepared by CTI and Associates, Inc., dated December 2011, submitted December 2, 2011, and approved February 24, 2012.
10. Consent Order/Judgment Number: N/A.
11. The licensee shall repair any portion of the certified liner or leachate collection system that is found to be deficient or damaged during the term of this license unless determined otherwise by the MDEQ.
12. The licensee shall have repairs to any portion of the certified liner or leachate collection system recertified by a registered professional engineer in accordance with R 299.4921 of the Part 115 Rules and approved by the MDEQ before receiving waste in that portion of the certified liner or leachate collection system. The licensee shall submit the recertification to the MDEQ's RMD, Jackson District Supervisor, for review and approval.

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13. The licensee shall conduct hydrogeological monitoring in accordance with the approved hydrogeological monitoring plan, dated March 2005, and revised June 8, 2005, April 9, 2007, September 2007, February 27, 2009, June 12, 2009, and March 16, 2011. The sampling analytical results shall be submitted to the MDEQ's RMD, Jackson District Office.
14. Modifications to the approved hydrogeological monitoring plan referenced in Item 13 may be approved, in writing, by the RMD, Jackson District Supervisor. Proposed revisions must be submitted in a format specified by the MDEQ.
15. Leachate may be recirculated if a leachate recirculation plan has been approved, in writing, by the RMD, Jackson District Supervisor.
16. Modifications to approved engineering plans that constitute an upgrading, as defined in R 299.4106a(l) of the Part 115 Rules, may be approved, in writing, by the RMD, Jackson District Supervisor.
17. Requests for alternate daily cover may be approved, in writing, by the RMD, Jackson District Supervisor.
18. Leakage Control Criteria:
 - a. The active portions of Phase V authorized to receive waste by this license is a monitorable unit(s) designed with double-liner system that is in compliance with the provisions of R 299.4422(3) and which is capable of detecting and collection leakage through the primary composite liner. The action flow rate for each unit containing a secondary collection system is 25 gallons/acre/day.
 - b. The remainder of the site are unmonitorable unit(s) designed with double-liner systems that are in compliance with the provisions of R 299.4422(3) and which are capable of detecting and collection leakage through the primary composite liner. The action flow rate for each unit containing a leak detection system is 5 gallons/acre/day. The response flow rate for each unit containing a leak detection system is 25 gallons/acre/day.
19. **VARIANCES:** None.

20. **SPECIAL CONDITIONS:**

- a. The licensee shall place a compacted layer of not less than six inches of earthen material, unless an exemption is granted, of suitable cover material on all exposed solid waste by the end of each working day, as required by R 299.4429(1) of the Part 115 Rules. Suitable cover shall be either uncontaminated soil or an alternate cover approved by the RMD, listed in Item i, below. Alternate cover shall be restricted as indicated in Item ii and applied as per the approved operational plan submitted by the licensee.

i. Approved alternate cover shall be any of the following:

<u>Product/Waste Material</u>	<u>Source</u>	<u>Monthly Volume</u>
Class A and Class B materials listed in Operational Memo 115-10	N/A	N/A

ii. The above materials are approved for daily cover when used in the following manner:

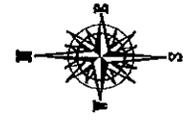
- (1) The licensee shall use the material as daily cover only. The material cannot be used for road building or fill in other areas of the Facility's operation.
- (2) The licensee shall maintain copies of the testing performed on Class B and Class C materials in the facility operating record.
- (3) The licensee shall only stockpile material in a secure manner within the active cell.
- (4) This approval does not preclude the licensee from disposing of the material as waste in the active fill area instead of using the material as daily cover.

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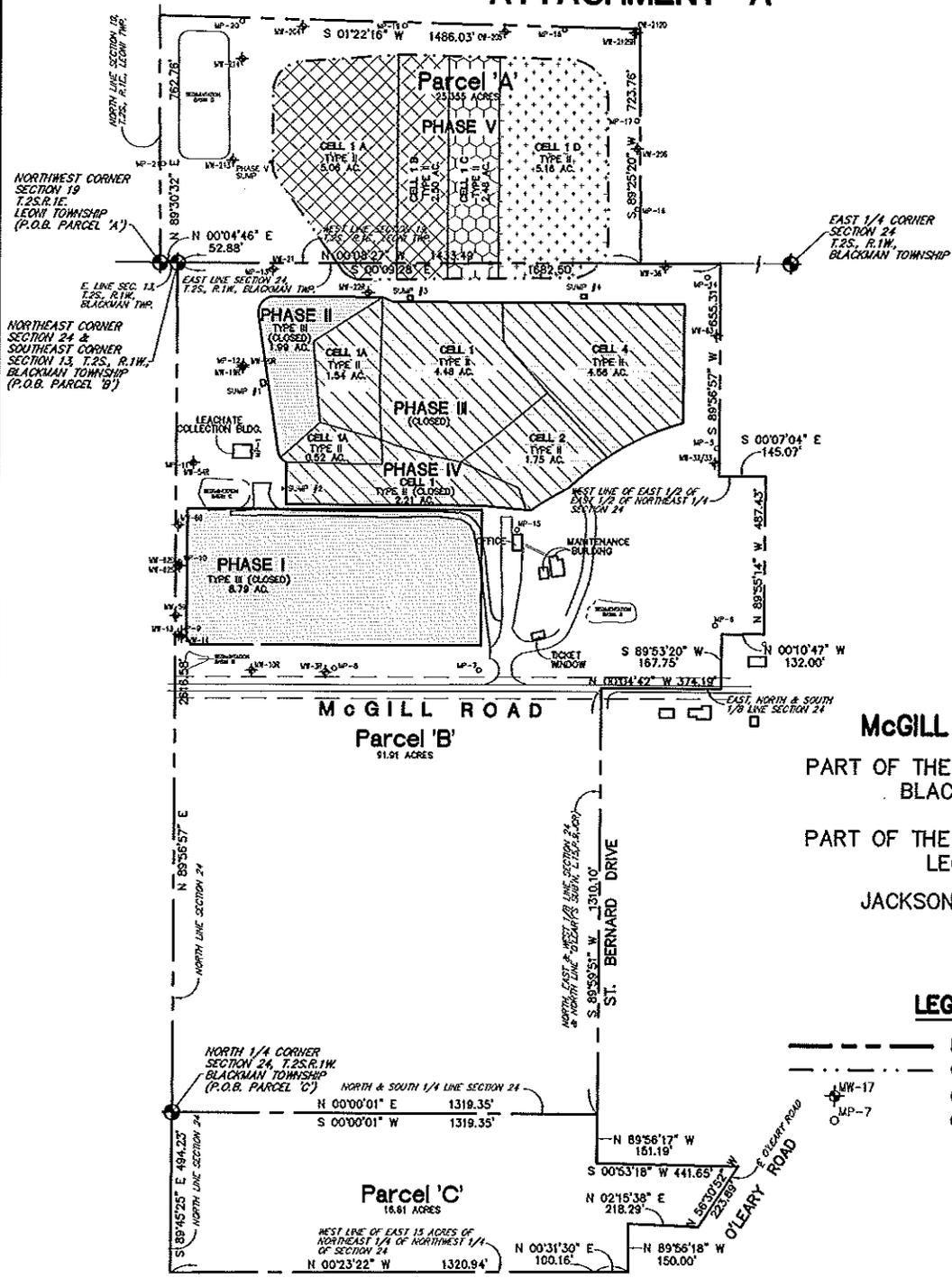
- (5) This approval shall immediately become void upon documentation by the MDEQ that the alternative cover is not being used in accordance with listed conditions, that the alternative cover is not providing the necessary protection, that the material no longer meets the alternative daily cover guidelines, or that the process producing the waste material has changed.
 - (6) If the material does not meet the guidelines from Attachment 2 of Operational Memo 115-10, Revision 2, for nonvolatiles, the licensee shall ensure that fugitive dust emissions from this material do not occur. Acceptable methods to ensure fugitive emissions do not occur are:
 - (a) Implement a schedule to wet down material; or
 - (b) Cover the material with a tarp; or
 - (c) Apply an approved foam or other appropriate commercial dust control product.
 - (7) This approval to use alternative cover shall expire upon the expiration of this operating license.
- b. The licensee may implement the leachate recirculation plan identified in Section 14.0, "Leachate Management," in the Operations Plan revised May 24, 2007, and approved with this license. Similarly, nuisance odors associated with enhanced landfill gas production will be handled in accordance with Section 6.0, "Nuisance Control," in the Operations Plan revised May 24, 2007, and approved with this license.
21. **TERM:** This license shall remain in effect until its expiration date, unless revoked or continued in effect, as provided by, the Administrative Procedures Act, 1969 PA 306, as amended, or unless superseded by the issuance of a subsequent license.

END OF LICENSE

ATTACHMENT "A"



SCALE: 1"=500'



McGILL ROAD LANDFILL
 PART OF THE NE 1/4 OF SECTION 24,
 BLACKMAN TOWNSHIP
 AND
 PART OF THE NW 1/4 OF SECTION 19,
 LEONI TOWNSHIP
 JACKSON COUNTY, MICHIGAN

LEGEND

- PROPERTY LINE
- CELL OUTLINE
- MW-17 GROUND WATER MONITORING WELL
- MP-7 GAS MONITORING PROBES

	Active Type II Areas not at Final Grade	7.56 acres
	Other Type III Areas subject to Financial Assurance: Closed Units.	10.78 acres
	Constructed Type II Area Certified with this Application	2.48 acres
	Unconstructed Type II Area with Financial Assurance	5.16 acres
	Closed Type II Area	15.06 acres
	Isolation and Ancillary Area	93.04 acres
	Facility Area	134.08 acres