# 2024 ANNUAL CCR UNIT INSPECTION

# INDIAN RIVER LANDFILL

## NRG INDIAN RIVER STATION

## DAGSBORO, DELAWARE

SCS ENGINEERS

25221158.00 | January 18, 2025

40 Shuman Blvd, Suite 216
Naperville, IL 60563

# 1.0 INTRODUCTION

## 1.1 OVERVIEW OF ANNUAL INSPECTION REPORT

SCS Engineers (SCS) has completed an annual inspection of the NRG Indian River Landfill (IRLF) at the Indian River Generating Station in Dagsboro, Delaware. The annual inspection was completed in accordance with the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule, 40 CFR 257 Subpart D (CCR Rule). Per 40 CFR 257.84(b)(1), an annual inspection is required to be conducted by a qualified professional engineer for all existing and new CCR landfills and any lateral expansion of a CCR landfill. For the Indian River Generating Station (owned by Indian River Power, LLC, a subsidiary of NRG Energy, Inc. [NRG]), this inspection requirement applies to Phase II of the existing Indian River Landfill.

The purpose of the annual inspection is to evaluate whether the design, construction, operation, and maintenance of the CCR unit is consistent with recognized and generally accepted good engineering standards. The findings from this annual inspection are summarized in subsequent sections of this report, in accordance with 40 CFR 257.84(b)(2).

This report must be placed in the Indian River facility's operating record per §257.105(g)(9), noticed to the State Director per §257.106(g)(7), and posted to the publicly accessible internet site per §257.107(g)(7). The 2023 annual inspection report was placed into the facility's operating record on January 18, 2024. Therefore, this report must be placed into the facility's operating record on or before January 18, 2025, to meet the annual reporting requirements of §257.84(b)(4).

## 1.2 OVERVIEW OF INDIAN RIVER LANDFILL

The Indian River Landfill is an industrial waste landfill used to dispose CCR and other industrial wastes generated at the station. The landfill is permitted by State of Delaware Department of Natural Resources and Environmental Control (DNREC) Solid Waste Permit No. SW-22/02.

The landfill consists of two major phases. Phase I is a 46-acre unlined, closed landfill that was operated between 1980 and 2014. Phase II is a 28-acre landfill expansion of Phase I that overlays the western slopes of Phase I and expands the landfill footprint to the west. Phase II has two landfill cells (Cells 1 and 2). The east portion of both Cells 1 and 2 overlays onto the western sideslopes of Phase I. Both landfill cells, including the overlay area, have a composite liner system at their base.

The Phase II expansion began accepting waste on September 17, 2010, within Cell 1. Cell 2 received operational authorization in 2015. Cell 1 is not actively receiving CCR material and has a vegetated intermediate cover. Cell 2 is currently open and actively receiving CCR material. No areas of Phase II have received final cover as described in §257.102(d)(3).

# 2.0 ANNUAL INSPECTION

Mr. Richard Southorn, a qualified professional engineer with SCS, conducted the 2024 annual on-site inspection of IRLF on October 15, 2024. The annual inspection and evaluation focused on the following items as outlined in §257.84(b)(1)(i-ii):

- A review of available information regarding the status and condition of the CCR unit, including, but not limited to, files available in the operating record; and
- A visual inspection of the CCR unit to identify signs of distress or malfunction.

Per §257.84(b)(2) (i-iv), the following aspects of the CCR unit must be documented as part of the annual inspection:

- Any changes in geometry of the structure since the previous annual inspection;
- The approximate volume of CCR contained in the unit at the time of the inspection;
- Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit; and
- Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.

## 2.1 REVIEW OF OPERATING RECORD

The operating records review of the facility's operating record and verification were performed before and during the site inspection. Files reviewed included, but were not limited to:

- 2011 Phase II Landfill Expansion Application;
- NRG Permit SW-22/02;
- Previous Annual Landfill Operations Report;
- CCR Rule Inspection Reports;
- Leachate Collection System Daily Inspection Reports;
- Daily/After Storm Event Erosion Control/Emissions Inspection Forms;
- Disposal volume records provided by Indian River; and
- Miscellaneous reports and documents on NRG's CCR Rule Compliance Data Website. (https://www.nrg.com/legal/coal-combustion-residuals.html)

During the site inspection, Mr. Southorn interviewed Mr. David Roesler (Landfill Manager) to verify the information contained within the operating record.

## 2.2 VISUAL INSPECTION

A visual inspection of the landfill was completed after review of the Operating Record to identify signs of distress or malfunction of the CCR unit. The visual inspection included observations of the following:

- Active disposal area (Cell 2 of Phase II);
- Intermediate cover areas (Phase II);
- Final Cover areas (Phase I);
- Non-contact storm water run-on and run-off control features, including terrace benches, swales, downchutes, and sedimentation detention basins; and
- Leachate collection pump houses.

Mr. Southorn focused on standard geotechnical signs of distress or malfunction such as slumping at the toe of slope, tensile cracking, abnormal or excessive erosion on the side slopes or stormwater management facilities, slope bulging, groundwater/surface water seepage or ponding, etc. These visual signs are potential indicators of structural weakness of the CCR Landfill unit.

A checklist documenting inspection findings is provided as **Attachment 1** to this report. Photographs taken during the inspection are provided as **Attachment 2** to this report. Findings are reported in **Section 3** of this report.

# 3.0 REGULATORY FINDINGS OF ANNUAL INSPECTION

| CCR Rule Documentation Requirement<br><br>§257.84(b)(2): | Annual Inspection Findings |
|---|---|
| §257.84(b)(2)(i):<br><br>*(i) Any changes in geometry of the structure since the previous annual inspection;"* | Changes in geometry include the placement of CCR and intermediate cover in Phase II Cell 2. |
| §257.84(b)(2)(ii):<br><br>*"(ii) The approximate volume of CCR contained in the unit at the time of the inspection;"* | Phase II design documents indicate that Cells 1 and 2 have a total combined disposal capacity of approximately 2.2 Million cubic yards (cy). Cell 1 has approximately 1,194,000 cy total disposal capacity, while Cell 2 has approximately 1,006,000 cy total disposal capacity.<br><br>**Cell 1:** Cell 1 has largely been filled, but NRG Energy estimates that Phase II Cell 1 has approximately 5,000 cy of emergency capacity left in the event that Cell 2 becomes inaccessible. Therefore, Cell 1 is estimated to contain **1,189,000 cy** of CCR material.<br><br>**Cell 2:** At the end of calendar year 2023, approximately **321,161 cy** had been placed in Phase II Cell 2. An additional **28,079 tons** of material were placed in Phase II Cell 2 in 2024. This equates to **25,070 cy**, based on an assumed conversion factor of 1 cy = 1.12 ton. Therefore, the estimated total volume disposed in Phase II Cell 2 is **346,231 cy** (321,161 cy + 25,070 cy).<br><br>**Phase II (Cells 1 and 2):** The estimated total disposed volume in Phase II is **1,535,231 cy** (1,189,000 cy + 346,231 cy).<br><br>It is noted that the conversion factor is based on design documents in the Phase II permit application. Additionally, Phase I volumes have not been evaluated because Phase I was closed prior to the inception of the CCR Rule and is not regulated under the CCR Rule. |

| CCR Rule Documentation Requirement<br><br>§257.84(b)(2): | Annual Inspection Findings |
|---|---|
| §257.84(b)(2)(iii):<br><br>*"(iii) Any appearances of an actual or potential structural weakness of the CCR unit, in addition to any existing conditions that are disrupting or have the potential to disrupt the operation and safety of the CCR unit;"* | At the time of this inspection, there were no signs of actual or potential structural weakness or existing conditions that are disrupting or have the potential to disrupt the operation and/or safety of the CCR landfill. No signs of distress or malfunction were observed. |
| §257.84(b)(2)(iv):<br><br>*"(iv) Any other change(s) which may have affected the stability or operation of the CCR unit since the previous annual inspection.* | There have been no changes observed during the annual inspection that have affected the stability or operation of the CCR unit since the previous annual inspection. |

# 4.0 RECOMMENDATIONS

Based on the on-site inspection performed as part of this annual inspection, SCS recommends the following actions:

1. Continue operation, inspections, and maintenance within the active landfilling area as currently performed.

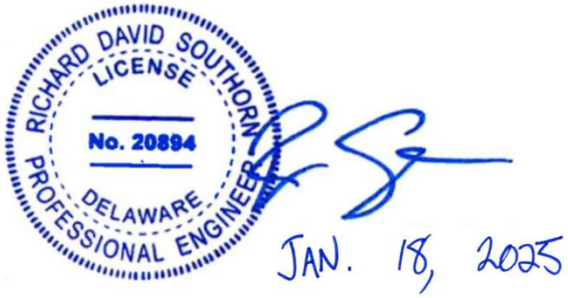
There were no deficiencies or releases identified during the 2024 annual inspection that require the owner or operator to perform corrective actions as required under §257.84(b)(5).

# 5.0 PROFESSIONAL ENGINEER'S CERTIFICATION

In accordance with §257.84(b) of the CCR Rule, I hereby certify based on a review of available information within the facility's operating records and observations from my personal on-site inspection that the IRLF does not exhibit any appearances of actual/potential structural weakness that would be disruptive to the normal operations of the IRLF. The unit is being operated and maintained consistent with recognized and generally accepted good engineering standards and practices.

Certified by: Richard Southorn

Date: January 18, 2025




Richard Southorn, P.E.
Professional Engineer Registration No. PE 20894
SCS Engineers

**ATTACHMENTS**

1. Site Map
2. Inspection Photo Log

**REFERENCES**

1. 2023 Landfill Periodic Inspection Report (dated January 18, 2024)
2. Annual Landfill Operations Reports, NRG Energy Indian River Generating Station
3. 40 Code of Federal Regulations Part 257.
4. Routine Inspection Reports.
5. DNREC Solid Waste Permit No. 22/02
6. CCR Rule Documents on NRG website (https://www.nrg.com/legal/coal-combustion-residuals.html)

# Attachment 1

# Coal Combustion Residuals Landfill

# Annual Inspection Checklist

# CCR LANDFILL ANNUAL INSPECTION CHECKLIST

| Facility Name | Feature | Inspection Date |
|---|---|---|
| Indian River Landfill | Indian River Landfill | October 15, 2024 |

| Station/Owner | State |
|---|---|
| Indian River Power (NRG) | Delaware |

| Inspected By | Phone No. | Type of Landfill | |
|---|---|---|---|
| Richard Southorn | (630) 957-7653 | ☒ Active | ☐ Closed |

| Weather | | | | Temperature (°F) |
|---|---|---|---|---|
| ☐ Wet | ☒ Dry | ☐ Snow Cover | ☐ Other: | 55 |

**Total precipitation last 24 hours (in)**

0.5”

**Remarks:**

Annual inspection by qualified engineer.

| OPERATIONS | CHECKS AND OBSERVATIONS | | | |
|---|---|---|---|---|
| | 1. Is the haul route maintained? | ☒ Yes | ☐ No | ☐ N/A |
| | 2. Are stormwater BMPs inspected and serviceable? | ☒ Yes | ☐ No | ☐ N/A |
| | 3. Is the leachate system functional? | ☒ Yes | ☐ No | ☐ N/A |
| | 4. Is there evidence of erosion? | ☐ Yes | ☒ No | ☐ N/A |
| | 5. Are stormwater retention basins functioning properly? | ☒ Yes | ☐ No | ☐ N/A |
| | Comments / Action Items | | | |

| Actions | ☒ None | ☐ Maintenance | ☐ Monitoring | ☐ Minor Repair | ☐ Engineering |
|---|---|---|---|---|---|

| UPPER LANDFILL SURFACE | PROBLEMS | | | | COVER |
|---|---|---|---|---|---|
| | ☒ 1. None | ☐ 5. Vegetation, brush | ☐ 9. Settlement | ☐ 13. Seepage | ☒ Vegetation |
| | ☐ 2. Animal burrows | ☐ 6. Vegetation, islands | ☐ 10. Cracks | ☐ 14. Ponding | ☐ Gravel |
| | ☐ 3. Animal damage | ☐ 7. Poor grass cover | ☐ 11. Erosion | ☐ 15. Bare spots | ☐ Soil |
| | ☐ 4. Trees, large brush | ☐ 8. Slope stability | ☐ 12. Rills | ☐ 16. Other: | ☒ Other: CCR |
| | Comments / Action Items | | | | |

| Actions | ☒ None | ☐ Maintenance | ☐ Monitoring | ☐ Minor Repair | ☐ Engineering |
|---|---|---|---|---|---|

| SLOPES AND PERIMETER BERMS | PROBLEMS | | | | COVER |
|---|---|---|---|---|---|
| | ☒ 1. None | ☐ 5. Vegetation, brush | ☐ 9. Settlement | ☐ 13. Seepage | ☒ Vegetation |
| | ☐ 2. Animal burrows | ☐ 6. Vegetation, islands | ☐ 10. Cracks | ☐ 14. Ponding | ☐ Gravel |
| | ☐ 3. Animal damage | ☐ 7. Poor grass cover | ☐ 11. Erosion | ☐ 15. Bare spots | ☐ Soil |
| | ☐ 4. Trees, large brush | ☐ 8. Slope stability | ☐ 12. Rills | ☐ 16. Other: | ☐ Other: |

| OBSERVATIONS | | | |
|---|---|---|---|
| 1. Do slopes and berms provide positive drainage? | ☒ Yes | ☐ No | ☐ N/A |
| 2. Is there exposed waste on exterior slopes? | ☐ Yes | ☒ No | ☐ N/A |

**Comments / Action Items**

None.

| Actions | ☒ None | ☐ Maintenance | ☐ Monitoring | ☐ Minor Repair | ☐ Engineering |
|---|---|---|---|---|---|

| LEACHATE SYSTEM | PROBLEMS | | | | |
|---|---|---|---|---|---|
| | ☒ 1. None | ☐ 3. Piping leaking | ☐ 5. Tank leaking | | |
| | ☐ 2. Sump | ☐ 4. Containment leaking | ☐ 6. Other: | | |

| OBSERVATIONS | | | |
|---|---|---|---|
| 1. Is the leachate transmission system functioning properly? | ☒ Yes | ☐ No | ☐ N/A |

**Comments / Action Items**

None.

| Actions | ☒ None | ☐ Maintenance | ☒ Monitoring | ☐ Minor Repair | ☐ Engineering |
|---|---|---|---|---|---|

| EROSION AND SEDIMENT CONTROLS | | | | | | |
|---|---|---|---|---|---|---|
| **PROBLEMS** | | | | | | |
| ☒ 1. None | ☐ 3. Ditch failure | ☐ 5. Debris | ☐ 7. Silt fences | ☐ 9. Riprap aprons | | |
| ☐ 2. Channel | ☐ 4. Ditch washouts | ☐ 6. Sediment | ☐ 8. Filter socks | ☐ 10. Other: | | |
| **OBSERVATIONS** | | | | | | |
| 1. Are erosion or sediment controls in place? | | | | ☒ Yes | ☐ No | |
| 2. Are drop structures in good repair? | | | | ☒ Yes | ☐ No | ☐ N/A |
| 3. Are perimeter run-on diversion ditches present and in good repair? | | | | ☒ Yes | ☐ No | ☐ N/A |
| 4. Are perimeter run-off diversion ditches present and in good repair? | | | | ☒ Yes | ☐ No | ☐ N/A |
| **Comments / Action Items**<br>None. | | | | | | |
| **Actions** | ☒ None | ☐ Maintenance | ☐ Monitoring | ☐ Minor Repair | ☐ Engineering | |

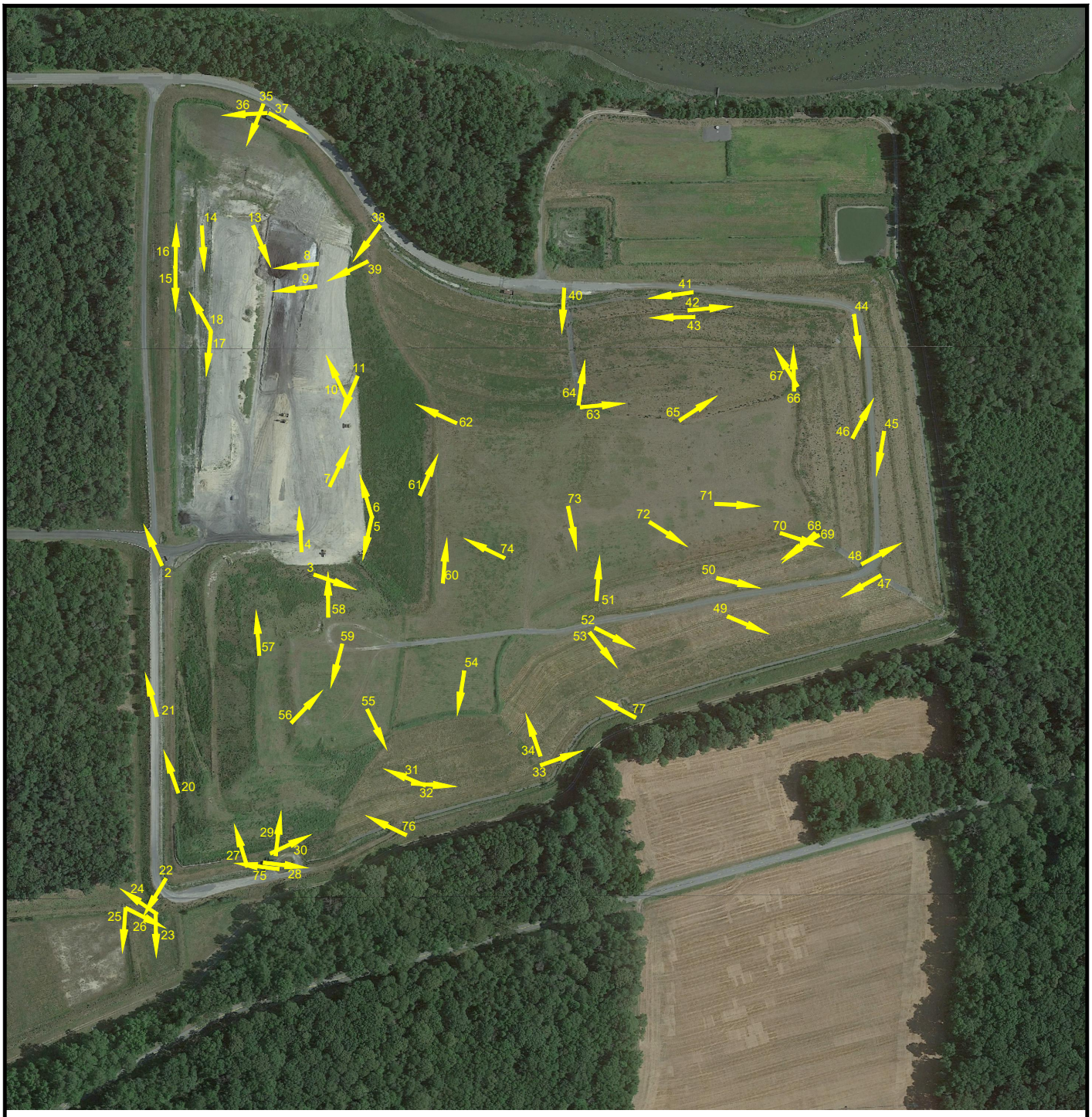
Inspector's Signature: _____

Date: October 15, 2024 .

# Attachment 2

# Coal Combustion Residuals Landfill

# Annual Inspection Photographs




| CLIENT | | SITE | | |
|---|---|---|---|---|
| nrg | INDIAN RIVER GENERATING STATION | | INDIAN RIVER LANDFILL DAGSBORO, DELAWARE | 2024 ANNUAL INSPECTION PHOTOGRAPH LOCATION MAP |

| | | | | | |
|---|---|---|---|---|---|
| PROJECT NO.: | 25221158.00 | DRAWN BY: | NV | ENGINEER | DATE: DECEMBER 2024 |
| CHECKED BY: | RDS | APPROVED BY: | RDS | SCS ENGINEERS<br>40 SHUMAN BLVD., STE. 216, NAPERVILLE, IL 60563<br>PHONE: (331) 806-4300 | FIGURE<br>1 OF 1 |
| DRAWN: | 12/10/24 | REVISED: | N/A | | |

I:\25221158.00\Drawings\Annual Inspections\2024 Photolog\2024 Photo Log.dwg, 12/10/2024 12:07:07 PM

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 1 |
| Date: | 10/15/2024 |
| Time: | 8:26 AM |
| Direction: | South-Southeast |

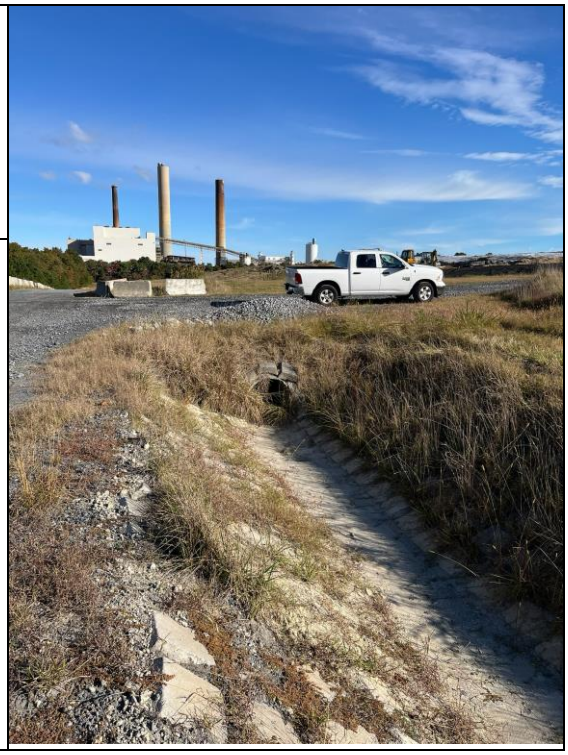
Description:

Speed limit sign and outer side slope of Phase II, Cell 2. The side slope is well vegetated and maintained. No signs of vegetative stress, erosion, or geotechnical instability. Road is well maintained.


| | |
|---|---|
| Image Number: | 2 |
| Date: | 10/15/2024 |
| Time: | 8:29 AM |
| Direction: | North-Northeast |

Description:

Perimeter landfill ditch segment is in good working condition with no obstructions.



**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 3 |
| Date: | 10/15/2024 |
| Time: | 8:32 AM |
| Direction: | West-Southwest |

Description:

Phase II, Cell 1 / Cell 2 boundary. Slopes are well vegetated with no sign of erosion, sloughing, or animal borrows.

| | |
|---|---|
| Image Number: | 4 |
| Date: | 10/15/2024 |
| Time: | 8:32 AM |
| Direction: | North |

Description:

Phase II Cell 2 intermediate cover. Material is graded to drain to the north. The intermediate cover is well maintained.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 5 |
| Date: | 10/15/2024 |
| Time: | 8:34 AM |
| Direction: | South-Southeast |

Description:

Overview of the vegetated Phase I intermediate cover slopes (foreground) and Phase II Cell 1 intermediate cover slopes (background). No signs of erosion, sloughing, or animal borrows.

| | |
|---|---|
| Image Number: | 6 |
| Date: | 10/15/2024 |
| Time: | 8:35 AM |
| Direction: | North-Northeast |

Description:

Overview of the vegetated Phase I intermediate cover slopes. No signs of erosion, sloughing, or animal borrows.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 7 |
| Date: | 10/15/2024 |
| Time: | 8:35 AM |
| Direction: | North-Northwest |

Description:

Phase II Cell 2 intermediate cover. Material is graded to drain to the north. The intermediate cover is well maintained.

| | |
|---|---|
| Image Number: | 8 |
| Date: | 10/15/2024 |
| Time: | 8:42 AM |
| Direction: | East |

Description:

Active disposal area is small and well maintained.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 9 |
| Date: | 10/15/2024 |
| Time: | 8:43 AM |
| Direction: | East |

Description:

Perimeter berm defines the limits of the active disposal area (left) and the intermediate cover area (right). Stormwater that lands on the intermediate cover area is routed to a pipe that conveys the water around the active disposal area to its discharge location within the perimeter stormwater channel.

| | |
|---|---|
| Image Number: | 10 |
| Date: | 10/15/2024 |
| Time: | 8:45 AM |
| Direction: | North-Northeast |

Description:

Upstream side of erosion control berm photographed in Image 9. The black pipes convey water from the upstream side of the berm to the perimeter non-contact water ditch.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 11 |
| Date: | 10/15/2024 |
| Time: | 8:45 AM |
| Direction: | South-Southeast |

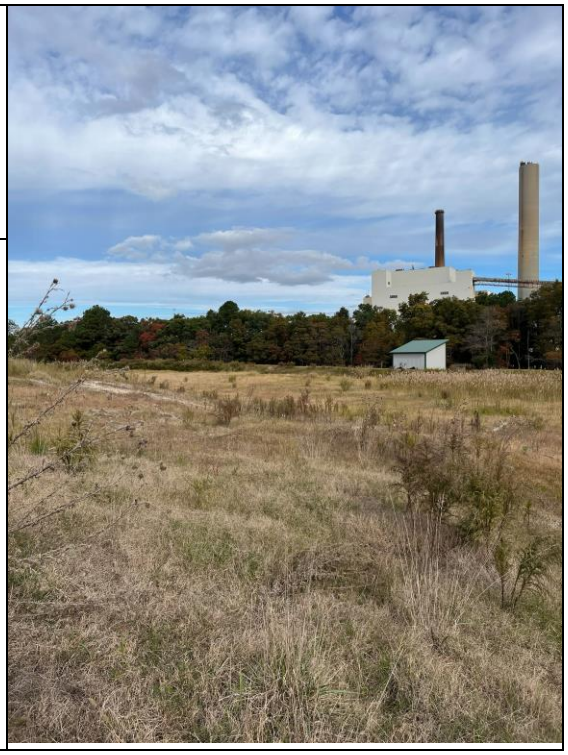
Description:

Overview of the vegetated Phase I intermediate cover slopes. No signs of erosion, sloughing, or animal borrows.

| | |
|---|---|
| Image Number: | 12 |
| Date: | 10/15/2024 |
| Time: | 8:48 AM |
| Direction: | Northwest |

Description:

Vegetated intermediate cover on northern area of Phase II Cell II. Vegetated intermediate cover is present to north of photo location. Intermediate cover without vegetation is present to the south of the photo location. Well maintained. No ponding water.



**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 13 |
| Date: | 10/15/2024 |
| Time: | 8:49 AM |
| Direction: | South-Southwest |

Description:

Phase II Cell 2 intermediate cover. Material is graded and well maintained.

| | |
|---|---|
| Image Number: | 14 |
| Date: | 10/15/2024 |
| Time: | 8:50 AM |
| Direction: | South |

Description:

Vegetated intermediate cover on terrace near exterior of Phase II, Cell II. Well maintained. No observed ponding or significant erosion.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 15 |
| Date: | 10/15/2024 |
| Time: | 8:51 AM |
| Direction: | South |

Description:

Vegetated intermediate cover on terrace near exterior of Phase II, Cell II. Well maintained. No observed ponding or significant erosion.

| | |
|---|---|
| Image Number: | 16 |
| Date: | 10/15/2024 |
| Time: | 8:51 AM |
| Direction: | North |

Description:

Vegetated intermediate cover on terrace near exterior of Phase II, Cell II. Well maintained. No observed ponding or significant erosion.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 17 |
| Date: | 10/15/2024 |
| Time: | 8:53 AM |
| Direction: | South |

Description:

Vegetation establishing on Phase II Cell 2 intermediate cover. Material is graded and well maintained.

| | |
|---|---|
| Image Number: | 18 |
| Date: | 10/15/2024 |
| Time: | 8:53 AM |
| Direction: | North-Northeast |

Description:

Vegetation establishing on Phase II Cell 2 intermediate cover. Material is graded and well maintained.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 19 |
| Date: | 10/15/2024 |
| Time: | 8:59 AM |
| Direction: | North-Northeast |

Description:

Vegetation on side slopes of landfill is well established. No signs of erosion, sloughing, or animal borrows.

| | |
|---|---|
| Image Number: | 20 |
| Date: | 10/15/2024 |
| Time: | 9:01 AM |
| Direction: | North-Northeast |

Description:

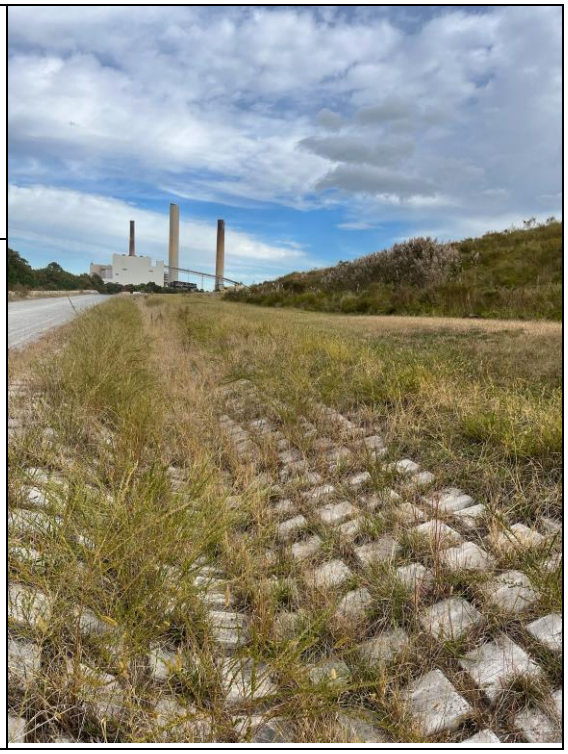
Vegetation on side slopes of landfill is well established. No signs of erosion, sloughing, or animal borrows.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 21 |
| Date: | 10/15/2024 |
| Time: | 9:05 AM |
| Direction: | North-Northeast |

Description:

Perimeter landfill ditch segment is in good working condition with no obstructions.



| | |
|---|---|
| Image Number: | 22 |
| Date: | 10/15/2024 |
| Time: | 9:06 AM |
| Direction: | South-Southeast |

Description:

Culvert inlets that convey water from landfill final cover to the Southeast Detention Basin.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 23 |
| Date: | 10/15/2024 |
| Time: | 9:06 AM |
| Direction: | South |

Description:

Forebay berm within the Southeast Detention Basin in good condition. Vegetation coverage is dense and healthy.

| | |
|---|---|
| Image Number: | 24 |
| Date: | 10/15/2024 |
| Time: | 9:07 AM |
| Direction: | Northeast |

Description:

Inlet to Southeast Detention Basin forebay in good condition. Free of obstruction at inlets and outlets.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 25 |
| Date: | 10/15/2024 |
| Time: | 9:07 AM |
| Direction: | South |

Description:

Southeast Detention Basin berm that divides the forebay and main basin storage area is well maintained.

| | |
|---|---|
| Image Number: | 26 |
| Date: | 10/15/2024 |
| Time: | 9:07 AM |
| Direction: | West-Southwest |

Description:

Southeast Detention Basin in good condition. Vegetation coverage is dense and healthy.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 27 |
| Date: | 10/15/2024 |
| Time: | 9:09 AM |
| Direction: | North-Northeast |

Description:

Phase II, Cell 1 leachate pump house. Building exterior is in good condition. Building is appropriately marked (signage).

| | |
|---|---|
| Image Number: | 28 |
| Date: | 10/15/2024 |
| Time: | 9:09 AM |
| Direction: | West |

Description:

Perimeter landfill ditch segment is in good working condition.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 29 |
| Date: | 10/15/2024 |
| Time: | 9:10 AM |
| Direction: | North |

Description:

Phase I, Cell 1 leachate liquid level indicator and controls in working condition.


| | |
|---|---|
| Image Number: | 30 |
| Date: | 10/15/2024 |
| Time: | 9:11 AM |
| Direction: | West-Northwest |

Description:

Inside the Phase I, Cell 1 leachate pump house. Cleanout riser and pump risers with T-connections to forcemain are shown in this photograph. Building is well maintained.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 31 |
| Date: | 10/15/2024 |
| Time: | 9:14 AM |
| Direction: | East-Northeast |

Description:

Landfill side slopes and terrace are well maintained. No evidence of slope stability issues or erosion.

| | |
|---|---|
| Image Number: | 32 |
| Date: | 10/15/2024 |
| Time: | 9:14 AM |
| Direction: | West |

Description:

Landfill side slopes and terrace are well maintained. No evidence of slope stability issues or erosion.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 33 |
| Date: | 10/15/2024 |
| Time: | 9:16 AM |
| Direction: | West-Northwest |

Description:

Downslope pipe inlets are well maintained and free of obstructions.

| | |
|---|---|
| Image Number: | 34 |
| Date: | 10/15/2024 |
| Time: | 9:17 AM |
| Direction: | North-Northeast |

Description:

Vegetation on side slopes is well established. Vegetation on side slopes of landfill is well established. No signs of erosion, sloughing, or animal borrows.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 35 |
| Date: | 10/15/2024 |
| Time: | 9:21 AM |
| Direction: | South-Southeast |

Description:

Phase II, Cell 2 leachate pump house. Building exterior is in good condition. Building is appropriately marked (signage).

| | |
|---|---|
| Image Number: | 36 |
| Date: | 10/15/2024 |
| Time: | 9:22 AM |
| Direction: | East |

Description:

Phase II, Cell 2 leachate liquid level indicator and controls in working condition.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 37 |
| Date: | 10/15/2024 |
| Time: | 9:22 AM |
| Direction: | West-Southwest |

Description:

Inside the Phase I, Cell 2 leachate pump house. Cleanout riser and pump risers with T-connections to forcemain are shown in this photograph. Building is well maintained.

| | |
|---|---|
| Image Number: | 38 |
| Date: | 10/15/2024 |
| Time: | 9:23 AM |
| Direction: | Southeast |

Description:

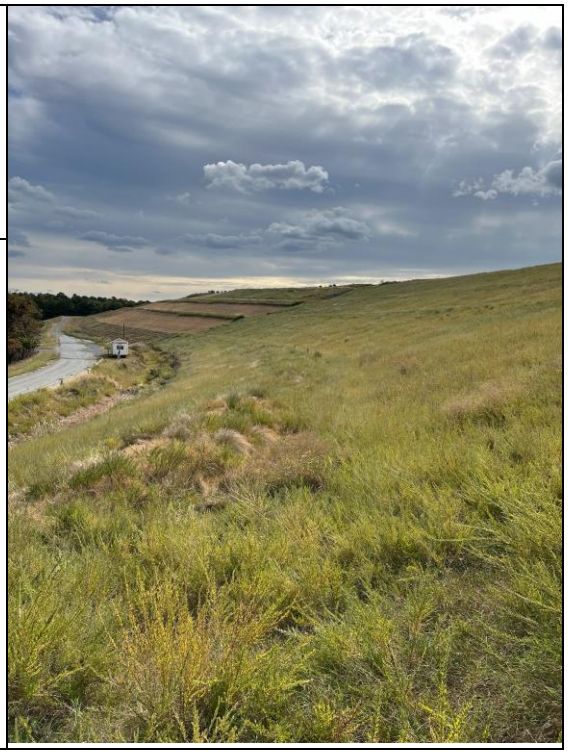
Pipes from intermediate cover areas of Phase II Cell 2 convey non-contact water into north perimeter ditch.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 39 |
| Date: | 10/15/2024 |
| Time: | 9:25 AM |
| Direction: | East-Southeast |

Description:

Landfill side slopes and terrace are well maintained. No evidence of slope stability issues or erosion.



| | |
|---|---|
| Image Number: | 40 |
| Date: | 10/15/2024 |
| Time: | 9:28 AM |
| Direction: | South |

Description:

Downchute near southwest forebay of the Northeast Detention Basin. Pipe and downchute are functioning appropriately, as intended.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 41 |
| Date: | 10/15/2024 |
| Time: | 9:29 AM |
| Direction: | East |

Description:

Rock check in Phase 1 final cover terrace berm is well maintained.

| | |
|---|---|
| Image Number: | 42 |
| Date: | 10/15/2024 |
| Time: | 9:30 AM |
| Direction: | West |

Description:

Phase I final cover and terrace berm. Vegetation coverage is dense and healthy.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 43 |
| Date: | 10/15/2024 |
| Time: | 9:30 AM |
| Direction: | East |

Description:

Phase I final cover. Vegetation has recently been mowed. Coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 44 |
| Date: | 10/15/2024 |
| Time: | 9:32 AM |
| Direction: | South |

Description:

Downslope pipe inlets are well maintained and free of obstructions.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 45 |
| Date: | 10/15/2024 |
| Time: | 9:33 AM |
| Direction: | South |

Description:

Phase I final cover. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 46 |
| Date: | 10/15/2024 |
| Time: | 9:34 AM |
| Direction: | North-Northwest |

Description:

Phase I side slopes and terrace berm are well maintained. No evidence of slope stability issues or erosion.

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**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 47 |
| Date: | 10/15/2024 |
| Time: | 9:35 AM |
| Direction: | East-Southeast |

Description:

Phase I downchute riprap. Free of obstructions and functioning. No signs of wash out or erosion.

| | |
|---|---|
| Image Number: | 48 |
| Date: | 10/15/2024 |
| Time: | 9:35 AM |
| Direction: | West-Northwest |

Description:

Phase I downchute riprap. Free of obstructions and functioning. No signs of wash out or erosion.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 49 |
| Date: | 10/15/2024 |
| Time: | 9:37 AM |
| Direction: | West-Southwest |

Description:

Phase I final cover. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 50 |
| Date: | 10/15/2024 |
| Time: | 9:38 AM |
| Direction: | West-Southwest |

Description:

Phase I side slopes and terrace berm are well maintained. No evidence of slope stability issues or erosion.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 51 |
| Date: | 10/15/2024 |
| Time: | 9:40 AM |
| Direction: | North |

Description:

Letdown pipe location from plateau terrace into access road ditch on Phase I final cover area. Free draining with no obstructions. No evidence of erosion or scour.

| | |
|---|---|
| Image Number: | 52 |
| Date: | 10/15/2024 |
| Time: | 9:41 AM |
| Direction: | West-Southwest |

Description:

Phase I downchute pipe inlets with grated covers. Free of obstructions and functioning.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 53 |
| Date: | 10/15/2024 |
| Time: | 9:41 AM |
| Direction: | Southwest |

Description:

Phase I final cover. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 54 |
| Date: | 10/15/2024 |
| Time: | 9:42 AM |
| Direction: | South |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 55 |
| Date: | 10/15/2024 |
| Time: | 9:42 AM |
| Direction: | South-Southwest |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 56 |
| Date: | 10/15/2024 |
| Time: | 9:43 AM |
| Direction: | Northwest |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 57 |
| Date: | 10/15/2024 |
| Time: | 9:45 AM |
| Direction: | North |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 58 |
| Date: | 10/15/2024 |
| Time: | 9:46 AM |
| Direction: | North |

Description:

Overlooking Phase II, Cell 2 active area from Phase II, Cell 1 plateau.

Vegetation on plateau is well established with no signs of erosion, sloughing, or animal burrows.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 59 |
| Date: | 10/15/2024 |
| Time: | 9:46 AM |
| Direction: | South-Southeast |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 60 |
| Date: | 10/15/2024 |
| Time: | 9:46 AM |
| Direction: | North |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 61 |
| Date: | 10/15/2024 |
| Time: | 9:47 AM |
| Direction: | North-Northwest |

Description:

Phase 1 sideslope (right) has well established vegetation. Phase 2 Cell 2 intermediate cover are

| | |
|---|---|
| Image Number: | 62 |
| Date: | 10/15/2024 |
| Time: | 9:48 AM |
| Direction: | East-Northeast |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 63 |
| Date: | 10/15/2024 |
| Time: | 9:49 AM |
| Direction: | West |

Description:

Downslope pipe inlets are well maintained and free of obstructions.

| | |
|---|---|
| Image Number: | 64 |
| Date: | 10/15/2024 |
| Time: | 9:49 AM |
| Direction: | North |

Description:

Phase I downchute riprap. Free of obstructions and functioning. No signs of wash out or erosion. Northwest Detention Basin shown in midground.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 65 |
| Date: | 10/15/2024 |
| Time: | 9:50 AM |
| Direction: | West-Northwest |

Description:

Berm on exterior of final cover is well maintained.

| | |
|---|---|
| Image Number: | 66 |
| Date: | 10/15/2024 |
| Time: | 9:59 AM |
| Direction: | North |

Description:

Phase I downchute pipe inlets with grated covers are well maintained and free of obstructions.

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**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 67 |
| Date: | 10/15/2024 |
| Time: | 9:59 AM |
| Direction: | North-Northeast |

Description:

Overview of Northwest Basin settling pond forebay from landfill plateau. Final cover is well maintained.

| | |
|---|---|
| Image Number: | 68 |
| Date: | 10/15/2024 |
| Time: | 10:01 AM |
| Direction: | Southeast |

Description:

Phase I downchute pipe inlets with grated covers are well maintained and free of obstructions.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
**SCS Engineers Project #25221158.00**

| | |
|---|---|
| Image Number: | 69 |
| Date: | 10/15/2024 |
| Time: | 10:01 AM |
| Direction: | East-Southeast |

Description:

Phase I downchute riprap. Free of obstructions and functioning. No signs of wash out or erosion.

| | |
|---|---|
| Image Number: | 70 |
| Date: | 10/15/2024 |
| Time: | 10:02 AM |
| Direction: | West-Southwest |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 71 |
| Date: | 10/15/2024 |
| Time: | 10:02 AM |
| Direction: | West |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 72 |
| Date: | 10/15/2024 |
| Time: | 10:02 AM |
| Direction: | West-Southwest |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

**Indian River Landfill 2024 Annual Inspection Photographs**
**Dagsboro, Delaware**
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| | |
|---|---|
| Image Number: | 73 |
| Date: | 10/15/2024 |
| Time: | 10:03 AM |
| Direction: | South |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 74 |
| Date: | 10/15/2024 |
| Time: | 10:03 AM |
| Direction: | East-Northeast |

Description:

Final cover plateau area. Vegetation coverage is dense and healthy. No animal burrows, erosion, or sloughing were observed.

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| | |
|---|---|
| Image Number: | 75 |
| Date: | 10/15/2024 |
| Time: | 10:17 AM |
| Direction: | East |

Description:

Vegetation on final cover is dense and healthy. No animal burrows, erosion, or sloughing were observed.

| | |
|---|---|
| Image Number: | 76 |
| Date: | 10/15/2024 |
| Time: | 10:17 AM |
| Direction: | East-Northeast |

Description:

Vegetation on final cover is dense and healthy. No animal burrows, erosion, or sloughing were observed.

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| | |
|---|---|
| Image Number: | 77 |
| Date: | 10/15/2024 |
| Time: | 10:18 AM |
| Direction: | East-Northeast |

Description:

Vegetation on final cover is dense and healthy. No animal burrows, erosion, or sloughing were observed.